

SELF-EVALUATION REPORT FOR MODULE 3

THE NAME OF THE UNIT BEING EVALUATED: Faculty of Civil Engineering

FORD: 2 - Engineering and technology

SOCIAL CONTRIBUTION OF THE EVALUATED UNIT

3.1 Introductory information about the unit under evaluation

The evaluated unit will describe its mission and vision and provide a general self-reflection of the societal contribution of R&D&I, along with its long-term goals in the fields it develops. The distribution of research activities by type of research will also be commented on. The evaluated unit will describe its organisational structure and size (staffing, number of students, number of study programmes implemented, etc.) based on the data provided in annex tables 3.1.1 to 3.1.6.

Maximum 1000 words.

This is a non-rated indicator that serves as an introduction to the evaluated unit, providing context for data in indicators 3.2-3.7.

Self-assessment:

Our faculty is built on the pillars of tradition, quality, and perspective. With a rich three-hundred-year heritage, our objective is to be an exemplary institution that delivers top-notch education in civil engineering, architecture, and geodesy. Our graduates are not only well-educated but also equipped with promising career prospects in their respective fields.

In addition to providing quality education, our faculty is deeply committed to scientific research, development, innovation, as well as artistic and creative endeavours. Through these activities, we actively contribute to the advancement of science and the development of cutting-edge technical solutions. We are proud to be one of the few Czech faculties that stand shoulder-to-shoulder with Europe's and the world's leading institutions in both fundamental and applied research. Our state-of-the-art laboratories in building structures and materials, water engineering, and the unique underground laboratory Štola Josef, along with our own observatory and engaging architectural studios, provide an excellent environment for student education, scientist training, and the implementation of our research projects. The third pillar of our activities are services provided to governmental and municipal authorities (expert and consultancy activities) as well as various activities targeting the general public (popularization activities, university of the third age).

The Faculty of Civil Engineering (FCE) at the Czech Technical University (CTU) in Prague is one of the largest faculties within the university. The organization structure includes several key components:

- **Dean**: The head of the faculty, responsible for overall management and strategic direction.
- **Vice-Deans**: Appointed by the Dean, each Vice-Dean oversees specific areas such as education, research, development, and international relations.
- Academic Senate: A legislative body elected by the academic community, responsible for democratic control and management, including the election of the Dean.
- **Scientific Board**: Composed of faculty representatives and industry experts, this board directs the development and content of teaching and research activities.
- Departments: The faculty is divided into various departments, each specializing in different areas of civil
 engineering, architecture, and geodesy. These departments ensure high-quality instruction and research.

¹ Basic, applied, contract, artistic research (see Definition of Terms in Methodology HEI2025+).



The faculty offers a wide range of study programs, including 13 Bachelor's, 21 Master's, and 24 Doctoral degrees in Civil Engineering, Architecture, Geodesy, and related fields with more than 3000 students enrolled (2400 bachelors, 690 masters, 350 PhDs). The faculty employs a significant number of academic and administrative staff to support its operations and educational activities, including 58 full professors, 103 associate professors, 201 assistant professors, and 70 researchers in other categories. The increasing number of early career researchers (105 FTE) is helping to build the next generation of academic leaders and ensures the continuity of high-quality research and education at our faculty.

The key long-term research directions defined in the FCE Strategic Plan include:

- Integrated design of building structures;
- Reliability, durability and optimization of building materials and structures;
- Sustainable life cycle management of buildings, construction companies and sites and environmental aspects of the construction industry;
- Modelling of complex multi-physics processes and their applications in engineering;
- Digitalization and robotics in construction;
- Integrated water management and flood protection in sustainable development;
- Revitalization of water systems in landscapes and cities burdened by significant anthropogenic changes;
- Comprehensive technology innovation in geodesy and cartography;
- Geoinformation technologies optimization of methods for the collection, use and presentation of geodata in surveying, landscape and urban engineering.

In 2023, government funding accounted for 62% of our total income, while research projects contributed 27%, and contracted research activities made up 11%. Regarding the distribution of research activities, basic research constituted 23%, applied research 58%, and contractual research 19% (source: 2023 FCE Annual report). The faculty has established long-term cooperation and partnerships with industry, including large construction companies, national bodies, and SMEs.

The national evaluation of the research institutions clearly shows that the research output of FORD 2.1 Civil Engineering at CVUT is on par with the EU and international standards. The Faculty of Civil Engineering is responsible for most of these outputs, with 61% of publication results indexed in Q1 journals and 81% in Q1+Q2 journals. Additionally, the publication productivity in Q1 publications is at 120% of the national level in this field (source: Bibliometrical Report, Research, Development and Innovation Council, Hodnocení výzkumu RVVI).

In the 2025 QS World University Rankings by subject, CVUT is ranked between 151-200 for Engineering - Civil & Structural, with a major contribution from the FCE. For Architecture and Built Environment, CTU is positioned between 151-200, a ranking achieved through a shared contribution with the Faculty of Architecture (source: QS World University Ranking by Subject 2025).

Table 3.1.1 - Staffing per FTE²

| | 6 pc. 1 12 | | | | | | | |
|-----------------------|--------------------|------------|------------|------------|------------|--------------|--|--|
| Academic/ | Total / Of which w | vomen | | | | | | |
| Professional position | | | | | | | | |
| | 2019 | 2020 | 2021 | 2022 | 2023 | Total | | |
| Professor | 49.2/6.10 | 48.2/5.6 | 50.2/6.1 | 52.5/8710 | 54.3/8.10 | 254.2/33.0 | | |
| Associate Professor | 103.4/18.7 | 101.6/18.7 | 104.0/19.2 | 103.4/18.2 | 95.8/16.2 | 508.2/90.8 | | |
| Assistant Professor | 221.4/76.1 | 206.1/73.2 | 211.3/73.3 | 200.5/71.0 | 194.0/68.0 | 1033.4/361.6 | | |
| Assistant | 3.0/2.0 | 3.5/2.0 | 3.5/2.0 | 3.9/2.0 | 3.9/2.0 | 17.8/10.0 | | |

² The average number of hours worked is calculated as the ratio of the total number of hours actually worked during the reference period, from 1 January to 31 December, by all staff (including agreement on work activity, excluding agreement on work performance) to the total annual working time pool per full-time employee. The full- time status of the worker in the evaluated unit is always reported. If an employee holds more than one type of full-time job within the evaluated unit, the total sum of the two shall be reported.



| R&D Personnel ³ | 105.1/62.7 | 88.6/53.1 | 82.3/46.3 | 81.5/41.5 | 77.5/40.1 | 435.0/243.6 |
|--|-------------|-------------|-------------|-------------|-------------|---------------|
| Researchers in other categories ⁴ | 66.5/20.3 | 71.5/22.2 | 80.5/26.0 | 82.0/24.9 | 78.5/23.4 | 378.9/116.8 |
| Technical and economic staff ⁵ | 106.0/68.7 | 112.1/72.8 | 114.8/75.8 | 119.7/75.7 | 125.6/83.0 | 578.2/376.0 |
| Scientific, research and development staff involved in teaching activities | 373.8/97.3 | 355.2/94.0 | 364.6/95.1 | 357.2/92.8 | 346.4/90.8 | 1797.2/469.9 |
| Early career researchers ⁶ | 151.3/44.1 | 131.3/38.2 | 127.8/39.1 | 125.7/38.4 | 113.3/34.9 | 649.5/194.8 |
| Total ⁷ | 654.6/254.5 | 631.7/247.6 | 646.5/248.6 | 643.4/240.4 | 629.4/240.6 | 3205.7/1231.7 |

Note: The categories professor, associate professor, assistant professor, assistant, other scientific, R&D personnel, researchers in other categories and technical and economic staff are mutually exclusive, i.e. one staff member is reported under one category only. Scientific, research and development staff involved in teaching activities, as well as early career researchers are reported collectively for all the above-mentioned categories.

3.1.2 Age structure of R&D&I personnel of the evaluated unit and their structure by job title and gender in the year 2019 (numbers of physical employees and personnel)⁸

| Academic/ | Under 2 | 9 years | 30-39 ye | ears old | 40-49 y | ears old | 50-59 ye | ears old | 60-69 ye | ears old | 70 yea | ars and |
|---|---------|---------|----------|----------|---------|----------|----------|----------|----------|----------|--------|---------|
| professional position | Total | Women | Total | Women | Total | Women | Total | Women | Total | Women | Total | Women |
| Professor | 0 | 0 | 1 | 1 | 12 | 2 | 11 | 0 | 19 | 3 | 16 | 1 |
| Associate Professor | 0 | 0 | 9 | 0 | 39 | 6 | 31 | 5 | 23 | 9 | 23 | 1 |
| Assistant Professor | 2 | 0 | 106 | 33 | 90 | 21 | 35 | 19 | 30 | 14 | 7 | 4 |
| Assistant | 1 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R&D Personnel ⁹ | 21 | 9 | 32 | 13 | 20 | 12 | 23 | 20 | 27 | 18 | 18 | 7 |
| Researchers in other categories ¹⁰ | 48 | 17 | 50 | 16 | 9 | 2 | 5 | 0 | 5 | 0 | 5 | 0 |

³ The category "R&D Personnel" includes technical and professional personnel who are not directly involved in R&D&I but are indispensable for the research activity (e.g. operators of research facilities).

SELF-EVALUATION REPORT FOR MODULE 3

⁴ The category "Researchers in other categories" includes all other staff who cannot be classified under any of the above categories (e.g. independent researcher/scientist).

⁵ Who participates in the management and support of R&D&I in the institution.

 $^{^{\}rm 6}$ See Definition of Terms in Methodology HEI2025+.

⁷ Total is the sum of the categories: professor, associate professor, assistant professor, assistant, R&I personnel, researchers in other categories and technical and economic staff.

⁸ The total number of employees/workers as of 31st December of the calendar year in question is to be entered, irrespective of the level of time worked, but only in an employment relationship (including agreement on work activity, excluding agreement on work performance). Other types of contractual relationships under the Civil Code that involve purchase of services are not included.

⁹ The category "R&D Personnel" includes technical and professional personnel who are not directly involved in R&D&I but are indispensable for the research activity (e.g. operators of research facilities).

¹⁰ The category "Researchers in other categories" includes all other staff who cannot be classified under any of the above categories (e.g. independent researcher/scientist).



| Technical and economic staff ¹¹ | 0 | 0 | 0 | 0 | 2 | 0 | 5 | 2 | 1 | 1 | 1 | 0 |
|--|----|----|-----|----|-----|----|-----|----|-----|----|----|----|
| Scientific, research and development staff involved in teaching activities | 4 | 0 | 124 | 36 | 143 | 30 | 77 | 24 | 72 | 26 | 46 | 6 |
| Early career researcher ¹² | 51 | 17 | 168 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total ¹³ | 72 | 26 | 200 | 65 | 172 | 43 | 110 | 46 | 105 | 45 | 70 | 13 |

Note: The categories professor, associate professor, assistant professor, assistant, other scientific, R&D Personnel, Researchers in other categories and Technical and economic staff are mutually exclusive, i.e. one staff member is reported in only one category. The categories of scientific, research and development staff involved in teaching activities and early career researchers are reported collectively for all the above-mentioned categories.

3.1.3 Age structure of R&D&I personnel of the evaluated unit and their structure by job title and gender in the year 2023 (numbers of physical employees and personnel)¹⁴

| In the year 202 | • | <u> </u> | · · | <u> </u> | | | , | | 60.60 | | 70 | |
|--|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------------|---------|
| Academic/ | Under 2 | 9 years | 30-39 ye | ears old | 40-49 ye | ears old | 50-59 ye | ears old | 60-69 ye | ears old | 70 yea older | ars and |
| professional position | Total | Women | Total | Women | Total | Women | Total | Women | Total | Women | Total | Women |
| Professor | 0 | 0 | 0 | 0 | 13 | 3 | 15 | 2 | 16 | 1 | 18 | 3 |
| Associate Professor | 0 | 0 | 5 | 0 | 32 | 3 | 23 | 4 | 29 | 8 | 20 | 3 |
| Assistant Professor | 0 | 0 | 63 | 20 | 99 | 24 | 33 | 16 | 33 | 18 | 8 | 4 |
| Assistant | 0 | 0 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R&D Personnel ¹⁵ | 15 | 5 | 24 | 5 | 28 | 12 | 20 | 15 | 10 | 8 | 9 | 4 |
| Researchers in other categories ¹⁶ | 30 | 7 | 65 | 23 | 22 | 3 | 3 | 2 | 3 | 0 | 3 | 1 |
| Technical and economic staff ¹⁷ | 1 | 0 | 0 | 0 | 1 | 0 | 4 | 2 | 2 | 1 | 1 | 0 |
| Scientific, research and development staff involved in teaching activities | 0 | 0 | 77 | 22 | 149 | 31 | 71 | 22 | 78 | 27 | 46 | 10 |
| Early career researcher ¹⁸ | 30 | 7 | 138 | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 |

¹¹ Who participates in the management and support of R&D&I in the institution.

¹² See Definition of Terms in Methodology HEI2025+.

¹³ Total is the sum of the categories: professor, associate professor, assistant professor, assistant, R&I Personnel, Researchers in other categories and technical and economic staff.

¹⁴ The total number of employees/workers as at 31.12. of the calendar year in question is to be entered, irrespective of the level of time worked, but only in an employment relationship (including agreement on work activity, excluding agreement on work performance). Other types of contractual relationships under the Civil Code that involve purchase of services are not included.

¹⁵ The category "R&D Personnel" includes technical and professional personnel who are not directly involved in R&D&I but are indispensable for the research activity (e.g. operators of research facilities).

¹⁶ The category "Researchers in other categories" includes all other staff who cannot be classified under any of the above categories (e.g. independent researcher/scientist).

¹⁷ Who participates in the management and support of R&D&I in the institution.

¹⁸ See Definition of Terms in Methodology HEI2025+.



| Total ¹⁹ | 46 | 12 | 162 | 50 | 195 | 45 | 98 | 41 | 93 | 36 | 59 | 15 |
|---------------------|----|----|-----|----|-----|----|----|----|----|----|----|----|
| | | | -0- | 50 | 100 | | 50 | | | | 99 | |

Note: The categories professor, associate professor, assistant professor, assistant, other scientific, R&D personnel, researchers in other categories and technical and economic staff are mutually exclusive, i.e. one staff member is reported under one category only. Scientific, research and development staff involved in teaching activities, as well as early career researchers are reported collectively for all the above-mentioned categories.

Table 3.1.4 – Students

| 10010 3.1.1 | <u> Jeauciii</u> | | | | | | | | | | | |
|------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Type of | 20 | 19 | 20 | 20 | 20 | 21 | 20 | 22 | 20 | 23 | То | tal |
| study | Total | Women | Total | Women | Total | Women | Total | Women | Total | Women | Total | Women |
| Undergradua | | | | | | | | | | | | |
| te | 1999 | 793 | 2105 | 830 | 2333 | 893 | 2239 | 875 | 2482 | 985 | 11158 | 4376 |
| Master's ²⁰ | 908 | 368 | 853 | 349 | 778 | 320 | 717 | 306 | 694 | 286 | 3950 | 1629 |
| Doctoral | 398 | 147 | 403 | 137 | 388 | 132 | 360 | 117 | 349 | 116 | 1898 | 649 |
| Lifelong Learning | | | | | | | | | | | | |
| Courses | 212 | 143 | 381 | 278 | 337 | 204 | 431 | 306 | 437 | 306 | 1798 | 1237 |
| Total | 3517 | 1451 | 3742 | 1594 | 3836 | 1549 | 3747 | 1604 | 3962 | 1693 | 18804 | 7891 |

Table 3.1.5 - Study programmes in Czech/English

| 10010 3.1.3 30 | , p. c | y programmes in electry English | | | | | | | | | | |
|-------------------------|--------|---|-------|-----|-------|-----|-------|-----|-------|-----|--------|------|
| Type of study programme | · | cal ²¹ / Of which professional study | | | | | | | | | | |
| | 20 | 019 | 20 | 020 | 20 | 21 | 20 |)22 | 20 | 023 | Total | |
| Undergraduate | 8/1 | 2/0 | 10/2 | 2/0 | 11/2 | 2/0 | 9/2 | 2/0 | 9/1 | 2/0 | 47/8 | 6/0 |
| Master's | 8/1 | 0/0 | 10/1 | 0/0 | 9/1 | 0/0 | 9/2 | 1/0 | 17/3 | 1/0 | 53/8 | 2/0 |
| Doctoral | 20/5 | 0/0 | 29/7 | 0/0 | 38/13 | 0/0 | 39/9 | 0/0 | 36/10 | 0/0 | 162/44 | 0/0 |
| Lifelong | | | | | | | | | | | | |
| Learning | | | | | | | | | | | | |
| courses | 9/0 | 0/0 | 16/0 | 0/0 | 14/0 | 1/0 | 15/0 | 1/0 | 14/0 | 2/0 | 68/0 | 4/0 |
| Total | 45/7 | 2/0 | 65/10 | 2/0 | 72/16 | 3/0 | 72/13 | 4/0 | 76/14 | 5/0 | 330/60 | 12/0 |

Note: For each SP type, enter the number of SPs in Czech language in the first cell and insert the number of SPs in English language after the slash in the same cell (e.g. 15/3), enter the number of professional SPs in Czech language in the second cell and insert the number of professional SPs in English language after the slash. Follow a similar procedure in the last column of the table (Total).

3.1.6 – R&D&I capacities

| R&D&I field | FORD | FORD share [%] | Predominant type of research | Total share of industry group [%] |
|---------------------|--|-------------------|--|-----------------------------------|
| 1. Natural Sciences | 1.1 Mathematics 1.2 Computer and information sciences | 3.60 1.63 | Balanced basic and applied research Applied Research | 13.54 |

¹⁹ Total is the sum of the categories: professor, associate professor, assistant professor, assistant, R&I personnel, researchers in other categories and technical and economic staff.

SELF-EVALUATION REPORT FOR MODULE 3

²⁰ All master's degree students are listed, regardless of the length of their programme of study.

²¹ The total number of study programmes for which admissions have been announced in a given academic year.



| | 1.3 Physical sciences | 1.24 | Applied Research | |
|-----------------------------------|---|-------|-------------------------------------|-------|
| | 1.4 Chemical sciences | 0.17 | Applied Research | |
| | 1.5 Earth and related environmental sciences | 6.72 | Applied Research | |
| | 1.6 Biological sciences | 0.00 | Zvolte položku. | |
| | 1.7 Other natural sciences | 0.18 | Applied Research | |
| | 2.1 Civil engineering | 60.08 | Balanced basic and applied research | |
| | 2.2 Electrical engineering, Electronic engineering, Information engineering | 0.67 | Applied Research | |
| | 2.3 Mechanical engineering | 0.90 | Applied Research | |
| 2. Engineering and | 2.4 Chemical engineering | 0.05 | Applied Research | 78.74 |
| Technology | 2.1 one mean engineering | 0.03 | Balanced basic and | 78.74 |
| | 2.5 Materials engineering | 12.94 | applied research | |
| | 2.6 Medical engineering | 0.03 | Applied Research | |
| | 2.7 Environmental engineering | 2.80 | Applied Research | |
| | 2.8 Environmental biotechnology | 0.00 | Zvolte položku. | |
| | 2.9 Industrial biotechnology | 0.00 | Zvolte položku. | |
| | 2.10 Nanotechnology | 0.05 | Applied Research | |
| | 2.11 Other engineering and technologies | 1.22 | Applied Research | |
| | 3.1 Basic medicine | 0.00 | Zvolte položku. | |
| | 3.2 Clinical medicine | 0.00 | Zvolte položku. | |
| 3. Medical and Health Sciences | 3.3 Health sciences | 0.00 | Zvolte položku. | 0.36 |
| Treattr Sciences | 3.4 Medical biotechnology | 0.36 | Applied Research | |
| | 3.5 Other medical sciences | 0.00 | Zvolte položku. | |
| | 4.1 Agriculture, Forestry, and Fisheries | 1.64 | Applied Research | |
| 4. Agricultural and | 4.2 Animal and Dairy science | 0.00 | Zvolte položku. | |
| veterinary sciences | 4.3 Veterinary science | 0.00 | Zvolte položku. | 1.64 |
| | 4.4 Other agricultural sciences | 0.00 | Zvolte položku. | |
| | 5.1 Psychology and cognitive sciences | 0.11 | Applied Research | |
| | 5.2 Economics and Business | 0.59 | Applied Research | |
| | 5.3 Education | 0.64 | Applied Research | |
| | 5.4 Sociology | 0.01 | Applied Research | |
| 5. Social Sciences | 5.5 Law | 0.23 | Applied Research | 1.96 |
| | 5.6 Political science | 0.00 | Zvolte položku. | |
| | 5.7 Social and economic geography | 0.22 | Applied Research | |
| | 5.8 Media and communications | 0.16 | Applied Research | |
| | 5.9 Other social sciences | 0.00 | Zvolte položku. | |
| | | | Applied Research | |
| 6. Humanities and | 6.1 History and Archaeology | 0.64 | Zvolte položku. | |
| | 6.2 Languages and Literature | 0.00 | Applied Research | |
| | 6.3 Philosophy, Ethics and Religion6.4 Arts (arts, history of arts, performing arts, | 0.01 | Balanced basic and | 3.74 |
| | music) | 2.61 | applied research | |
| | 6.5 Other Humanities and the Arts | 0.48 | Applied Research | |
| | Total | 100 % | - | 100 % |





RECOGNITION BY THE RESEARCH COMMUNITY

3.2 Recognition by the research community

The evaluated unit will briefly comment on its position in the research community. It shall consider individual and other prestigious R&D&I awards, participation of its academic staff in the editorial boards of international scientific journals, elected membership in professional societies, major invited lectures given by the evaluated unit's academic staff abroad or by foreign scientists and other relevant guests at the evaluated unit. Additionally, it will address the involvement of staff in the evaluation of national or European project/programme calls over the period of 2019–2023 based on the data provided in annex tables 3.2.1 to 3.2.5 (max. 10 most relevant items). If necessary, the evaluated unit shall list any additional services to the scientific community that it considers relevant.

Maximum 1000 words.

Self-assessment:

Many faculty members are distinguished experts in various disciplines. This is documented by selected prestigious awards and elected memberships in international organizations and bodies:

- Prof. Jan Vítek has been active in the International Federation for Structural Concrete (fib) since 1995. In the period 2010–2023 he was convenor of the Task Group on Serviceability of Concrete Structures. For the periods 2016-2020 and 2020-2023 he was elected for two 4-year terms as convenor of Commission 2 Analysis and Design. In 2021 he was awarded the title of "Honorary Life Member of fib".
- Prof. Petr Hájek, received the Medal of Merit (2020) from the International Federation for Structural Concrete (fib).
- Prof. František WALD, was elected President of the European Convention for Constructional Steelwork, ECCS Brussels, 2023.
- Prof. Ivan Vaníček, served as the Vice-President for Europe in the <u>International Society for Soil Mechanics and</u>
 <u>Geotechnical Engineering</u> (ISSMGE), 2019-2023.
- Prof. Lena Halounová, has been elected President of ISPRS (International Society for Photogrammetry and Remote Sensing, <u>www.isprs.org</u>), as the first woman and the first citizen from the former Eastern block to hold this important position, 2022-2026.
- Doc. Jan Pruška, represented the Czech Republic in ELGIP (European Large Geotechnical Platform), 2021 2023.
- Dr. Martin Vonka and Mgr. Michal Horáček, working on the theme of factory chimneys as an endangered type of cultural heritage and trying to bring it to the attention of the general public, have won the "Patrimonium pro futuro" award in the presentation and popularization category, awarded by the National Heritage Institute.

Faculty members served on the editorial boards of recognized international scientific journals (>50) and delivered invited lectures at international conferences and institutions (58). At the same time, more than 30 invited lectures were given at our faculty by recognized international experts. Several faculty members received recognition from national funding agencies (GACR, TACR) for excellent projects (8).

Many have participated as evaluators of national or European programme calls (>30), as illustrated by selected examples in Table 3.2.5 below.

The Faculty actively supported the scientific community by organizing several national and international scientific events, including

- IABSE Symposium Prague 2022, jointly organized by the Czech Group of IABSE and FCE, 2022, https://www.iabse.org/prague2022
- iiSBE Forum of Young Researchers in Sustainable Building, organized by FCE under auspices of iiSBE A&R Forum, 2019, 2022, https://cesb.cz/yrsb/
- Central Europe towards Sustainable Building 2019: co-organized by FCE under auspices of iiSBE, 2019, https://19.cesb.cz/
- International Colloquia on Stability and Ductility of Steel Structures 2019, organized by FCE, 2019.
- 14th International Conference on Local Mechanical Properties 2019, co-organized by FCE, 2019, http://lmp-conference.cz/



International Conference on Lightweight Structures Architecture 2020, co/organized by FCE, 2020, https://alk-20.wixsite.com/alk20?lang=en

As a notable service to the research community, faculty members maintain the largest creep and shrinkage database for structural concrete, covering 1,468 creep tests and 3,569 shrinkage tests since 1936. It is used by the community for benchmarking and model calibration (https://doi.org/10.5281/zenodo.8150176).

The Faculty is the publisher of the open-access Civil Engineering Journal (CEJ, ISSN: 1210-4027, indexed in ESCI & SCOPUS), since 2002. This journal serves as a platform for international scientific communication and result dissemination (https://lfgm.fsv.cvut.cz/CivilEngineeringJournal/index.html).

Table 3.2.1 - Prestigious R&D&I awards granted during the evaluation period

| Name, surname and title(s) of the | Name of the award | Awarding institution |
|--|---|---|
| evaluated unit's staff member | | |
| Martin Kružík, prof. RNDr., Ph.D. | Senior Research Fellow (2022) | The Erwin Schrödinger International Institute for Mathematics and Physics (ESI) |
| Martin Doškář, Ing., Ph.D. | CEACM Young Researcher Award for the best Ph.D. thesis (2019) | Central European Association in Computational Mechanics |
| Marek Tyburec, Ing., Ph.D. | Joseph Fourier Prize for Computer Sciences – Special IT4Innovations Prize (2022) | Embassy of France, Atos, IT4 innovations |
| Martin Ladecký, Ing., Ph.D. | DrKlaus-Körper Prize (2023) | German Association of Applied Mathematics and Mechanics (GAMM) |
| Petr Hájek, prof. Ing., CSc. | Medal of Merit (2020) | fib - International Federation for Structural Concrete |
| Jan Vitek, prof. Ing., CSc. | Honorary life member of fib (2021) | International federation for structural concrete (fib) |
| Rostislav Šulc, Ing., Ph.D. | TAČR Award 2023 in the BUSINESS category for cooperation on the Autonomous Robotic Building System project TH04010329 | Technology Agency of the Czech Republic (TAČR) https://tacr.gov.cz/den-ta-cr-2023- veda-neni-sci-fi/ |
| Petr Konvalinka, prof. Ing., CSc., FEng. | Werner von Siemens Gold Medal (2019) | Siemens ČR |
| Martin Vonka, doc. Ing. Ph.D and Michal Horáček, Mgr. | Patrimonium pro futuro (2022) | National Heritage Institute |
| Jiří Cajthaml, prof. Ing., Ph.D. et.al. | Award of the Academy of Sciences of the Czech Republic for outstanding results in research, experimental development and innovation (2019). | Academy of Sciences of the Czech Republic |

Note: Provide up to 10 examples.

Table 3.2.2 Participation of academic staff of the evaluated unit in editorial boards of international scientific journals during the evaluation period

| Name, surname and | Name of scientific journal, ISSN |
|---------------------------|----------------------------------|
| title(s) of the evaluated | |
| unit's staff member | |



| Josef Křeček, doc. Ing., CSc. | International Soil and Water Conservation Research, ISSN: 2095-6339, https://www.keaipublishing.com/en/journals/international-soil-and-water-conservation-research/editorial-board/, IF 7.3 |
|--------------------------------------|---|
| Milan Jirásek, prof. Ing., DrSc. | Cement and Concrete Research., ISSN: 0008-8846, https://www.sciencedirect.com/journal/cement-and-concrete-research/about/editorial-board , IF 10.9 |
| Petr Kabele, prof. Ing., Ph.D. | Cement and Concrete Composites, Print ISSN: 0958-9465 Online ISSN: 1873-393X, https://www.sciencedirect.com/journal/cement-and-concrete-composites/about/editorial-board , IF 10.8 |
| Lena Halounová, prof. Ing., CSc. | ISPRS Journal of Photogrammetry and Remote Sensing, ISSN 0924-2716, https://www.isprs.org/news/newsletter/default.aspx , IF 10.6 |
| Karel Kabele, prof. Ing., CSc. | Energy & Buildings, ISSN 0378-7788 and 1872-6178, https://www.sciencedirect.com/journal/energy-and-buildings/about/editorial-board, IF 6.6 |
| Jaroslav Kruis, prof. Ing., Ph.D. | Advances in Engineering Software, ISSN 0965-9978, https://www.sciencedirect.com/journal/advances-in-engineering-software/about/editorial-board , IF 4.0 |
| František WALD, prof. Ing., CSc. | Journal of Constructional Steel Research, ISSN 2093-6311, https://www.sciencedirect.com/journal/journal-of-constructional-steel-research/about/editorial-board , IF 4.0 |
| Jaromír Dušek, prof. Ing., Ph.D. | Journal of Hydrology and Hydromechanics, ISSN 0042-790X, http://www.uh.sav.sk/jhh/Journal-information/Associate-Editors , IF 2.3 |
| Bořek Patzák, prof. Dr. Ing. | Computers & Structures, Elsevier, ISSN 0045-7949 , https://www.sciencedirect.com/journal/computers-and-structures/about/editorial-board , IF 4.4 |
| Jan Zeman, prof. Ing., Ph.D. | Acta Mechanica, Springer Nature, ISSN 0001-5970, https://link.springer.com/journal/707/editorial-board , IF 2.3 |

Note: Please provide up to 10 examples of academic staff participation in editorial boards of international scientific journals (e.g. editor, editorial board member, etc.).

Table 3.2.3 The most important invited lectures delivered by the academic staff of the evaluated unit at foreign institutions during the evaluation period

| Name, surname and title(s) of the evaluated unit's staff member | Invited lecture title | Name of host institution, or name of conference or event | Year |
|---|---|---|------|
| Martin Kružík, prof. RNDr., Ph.D. | Derivation of von Kármán Plate Theory in the Framework of Three-Dimensional Viscoelasticity | Conference on Calculus of Variations in Schiermonnikoog 2019 | 2019 |
| Michal Jandera, prof. Ing., Ph.D. | Resistance of Eccentrically Connected Gusset Plates in Compression | Structures Congress 2022. Reston, Virginia: ASCE | 2022 |
| Jan Zeman, prof. Ing., Ph.D. | Wang Tiles for Exploring and Manufacturing Modular Metamaterials | ECCOMAS Congress 2022, Oslo, Norway | 2022 |
| Petr Hájek , prof. Ing., CSc. | Changing Climate and Sustainability of Built Environment | IABSE Congress 2023 – Delhi, India | 2023 |
| Pavel Krejčí, doc. RNDr., CSc. | A Tumor Model Represented as a Multicomponent Deformable Porous Medium | PHAse field MEthods in applied sciences PHAME 2022, Rome, Italy | 2022 |
| Ivan Vaníček, prof. Ing., DrSc. | Present Demands on Earth Structures in Transport Engineering in Europe | Chicago - online: 4th Int. Congress on Transportation Geotechnics (Illinois edu) + ISSMGE | 2021 |



| David Stránský, doc. Ing., Ph.D. | Sustainable Stormwater Management – Blue- Green Infrastructure, (on-line) | Lund University, Sweden | 2021 |
|-------------------------------------|---|---|------|
| Lukáš Fiala, Ing., Ph.D. | Application of Zero Cement in Civil Engineering Materials | National Ilan University, Taiwan | 2023 |
| Vojtěch Bareš, Ing., Ph.D. | How Can Urban Water Management Benefit from High Coverage by Cellular Networks? | Symposium on the hydrometeorological usage of data from commercial microwave link networks, Karlsruhe Institute of Technology | 2019 |
| František WALD, prof. Ing., CSc. | Component Based Finite Element Design of Steel Joints | Ernst und Sohn on line seminars, 29 October 2020 www.ernst-und-sohn.de/en/stco- seminar | 2020 |

Note: Provide up to 10 examples.

Table 3.2.4 - The most important lectures by foreign scientists and other guests relevant to R&D&I at the evaluated unit during the evaluation period

| Name, surname and title(s) of the lecturer | Lecturer's employer at the time of the lecture | Invited lecture title | Year |
|--|--|--|---------------|
| Daya Reddy, prof. | University of Cape Town, South Africa | Some mathematical aspects of models of strain-gradient plasticity | 2020 |
| Zdeněk P. Bažant, prof. | Northwestern University, Evanston, USA | Dependence of Fracture Size Effect and Projectile Penetration on Fiber Content of FRC | 2019 |
| Ulisse Stefanelli, prof. | University of Vienna, Austria | Existence results for a morphoelastic model | 2021 |
| Martin Brokate, prof. Dr. | TU München, Germany | Hysteresis Operators (series of 10 lectures) | 2021- 2022 |
| Ippei Maruyama, prof. | The University of Tokyo | Irradiated Concrete | 2023 |
| Pavel Trtík, Assoc. prof. | Paul Scherrer Institute, Switzerland | Experimental Investigation of nonhomogenity of materials using a bundle of a neutrons | 2020 |
| Lorenzo Marchi, Dr., | IRPI, Padova, Italy | Debris flow | 2020 |
| Jan Hensen, prof. | Eindhoven University of Technology, Netherlands | Building Performance Simulation Challenges and Opportunities | 2022 |
| John Schwartz, prof. | University of Tennessee in Knoxville, USA | Stream restoration in USA | 2021 |
| Peter Fiener, prof. | University Augsburg, Germany | Microplastics in soils | 2019 |

Note: Provide up to 10 examples.

Table 3.2.5 - Involvement in the evaluation of national/European research project/programme calls relevant to the R&D&I area at the unit during the evaluation period

| Name, surname and title(s) of | Name of the research project/programme call | Name | of | the | Year |
|-------------------------------|---|----------------------------|----|-----|------|
| the evaluated unit's staff | | contracti | ng | | |
| member | | authority/guarantor of the | | | |
| | | project/programme call | | | |



| Milena Pavlíková, prof. Ing., Ph.D. Tomáš Vogel, prof. Ing., CSc. Michal Dohnal, doc. Ing., Ph.D. Milan Jirásek, prof. Ing., DrSc. Jaroslav Kruis, prof. Ing., Ph.D. Jan Vorel, doc. Ing., Ph.D. Pešková, Zuzana, prof. Ing. arch., Ph.D., prof. Ing. Ph.D. | Evaluation panel members (P104, P105) | Czech Science Foundation (GAČR) | 2019-2023 |
|---|--|--|---------------|
| František WALD, prof., Ing., CSc. Pavel Ryjáček, prof. Ing. Ph.D. Michal Jandera, prof. Ing. Ph.D. David Stránský, doc. Ing. Ph.D. | VEGA Commission for Civil Engineering | VEGA, Slovakia | 2021, 2023 |
| František WALD, prof., Ing., CSc. | RFCS Steel v6, v9 | EU/RFCS | 19-24 |
| František WALD, prof., Ing., CSc. | GRF / ECS | Research Grants Council (RGC), Hong Kong | 20,22,24 |
| Michal Jandera, prof. Ing. Ph.D. | Marie Skłodowska-Curie Postdoctoral Fellowships (MSCA-PF) | European Commission | 2023-4 |
| Václav Matoušek, prof. Dr. Ing. | Vici | Dutch Research Council (Netherlands) | 2021 |
| Petr Kabele, prof. Ing. Ph.D. | ERC-2019-STG | European Commission | 2019 |
| Karel Kabele, prof. Ing., CSc., FEng. | BUS-GoCircular | EU H2020-LC-SC3-2018-2019- 2020 / H2020-LC-SC3- EE-2020-2 | 2021-2023 |
| Jaroslav Kruis, prof. Ing. Ph.D. Jan Zeman, prof. Ing., Ph.D. | National evaluation of research organizations according to Methodology 17+ | Ministry of Education, Youth and Sports | 2020-2023 |
| Petr Bílý, doc. Ing., Ph.D. | Théta, Sigma, OPSEC, Delta, Prostředí pro život, TREND, Doprava 2020+ | Technology Agency of the Czech Republic | 2022- 2023 |

Note: Provide up to 10 examples.

RESEARCH PROJECTS

3.3 Research projects

The evaluated unit shall list at most 10 (considered most significant by the evaluated unit) research projects/activities (regardless of whether they are supported by public funds or based on contract research²²) that it has implemented or participated in during the period of 2019–2023²³. This should be done from the full list in annex tables (Table 3.3.1-3.3.2)²⁴, regarding particularly the results achieved or the application potential of the projects. The unit should also describe how the research projects contributed to the mission and purpose of the evaluated unit. If the evaluated unit has been a participant in listed project, it shall indicate which other entities were involved and describe its contribution to the project. The interdisciplinary aspects of the projects will also be commented on, along with any collaboration with other units of the evaluated HEI.

Maximum 300 words per project.

Self-assessment:

EU H2020 project **Geo-harmonizer**: The EU-wide automated mapping system for the harmonization of Open Data based on FOSS4G and Machine Learning, aimed to reduce problems with national geographic data by using seamless, comprehensive datasets covering the entire EU and harmonizing them using open source software with machine and

²² For the definition of contract research for the purposes of evaluation in the HE segments, see Article 2.2.1 of the Community Framework for State Aid for Research, Development and Innovation 2014/C 198/01.

SELF-EVALUATION REPORT FOR MODULE 3

²³ Regardless of whether the projects are completed or still ongoing, provided that at least part of the project was implemented during the evaluation period.

²⁴ The evaluated unit shall only fill tables that are relevant to it.



deep learning methods. The project was funded by the European Commission under the CEF Telecom programme. FCE coordinated the project, working with other European partners (OpenGeoHub (NL), Mundialis (DE), MultiOne (CRO), Terrasigna (RO)). The main objective was to create a fully automated system for importing and harmonizing geodata, especially in the areas of environmental data, land use and climate change. The project solution involved close collaboration with national authorities and NGOs, including existing EU-funded systems such as Copernicus. New datasets covering the territory of EU Member States, such as land use change between 2000 and 2019, temporally aggregated LUCAS (the Land Use / Cover Area frame Survey) data, climate change indicators, environmental quality maps, or predictions of potential natural vegetation, were created and made available within the project. The created datasets are available as open data. In addition, a geoportal (https://ecodatacube.eu/) has been created to allow easy access to the data through an interactive web mapping application. Another output of the project is the ST_LUCAS system, enabling automated import of LUCAS data, harmonization and spatiotemporal aggregation. The project contributed to the mission of the evaluated unit, especially in the area of open science and support for geodata interoperability. The interdisciplinary aspects of the project included a combination of geoinformatics, remote sensing and environmental sciences. As a result, Geo-harmonizer presented the potential for widespread use of harmonized open geodata in public administration, academia and the private sector, contributing to the further development of open geospatial infrastructure in Europe, 2019-2022, total budget 376k EUR.

The European H2020 project **Achieving Wider Uptake of Water-Smart Solutions** (WIDER UPTAKE), coordinated by SINTEF (Norway), with participants including NTNU (Norway), HIAS IKS, HIAS HOW2O AS, STORM AQUA AS, IVAR IKS, GRONN VEKST AS, SIRKULA IKS, TERRAMARINE AS (Netherlands), TU Delft, STICHTING WATERNET, NPSP BV (Netherlands), FCE CTU, VŠCHT, Prazska vodohospodarska spolecnost (CZ),AS; Universita Degli Studi Di Palermo, AMAP SPA (Italy); Council for Scientific and Industrial Research, Sewerage Systems Ghana (Ghana). CTU focused mainly on testing treated wastewater for irrigation of public greenery through pilot units installed at the central wastewater treatment plant. The results of the project fulfill CTU's mission of environmentally sustainable solutions in water management in urbanized areas. The project addressed water reuse across the sectors of civil engineering (new materials), agriculture (irrigation, nutrient recycling), energy (biochar energy recovery) and environment (closing water and substance cycles), 2020-2024, FCE total budget 624k EUR.

Czech Science Foundation project Non-periodic pattern-forming metamaterials: Modular design and fabrication. The project aimed to create an integrated framework for computational simulation, optimal design, robot-assisted fabrication, and centimeter-scale self-assembly of modular mechanical metamaterials. These non-periodic architectured materials can be assembled from a limited number of repeating blocks (modules), similar to a jigsaw puzzle, to achieve a desired response. This proposal received funding from the Czech Science Foundation (CSF)'s first EXPRO call, launched by CSF in 2018 to support high-risk, high-gain research ideas in the spirit of European Research Council (ERC) grants. The PERFORM team tackled these challenges by developing efficient computational schemes, modular topology optimization for simultaneous module and assembly design, passive centimeter-scale self-assembly via magneto-mechanical principles, and robotic fabrication pipeline validated on optimized samples. The project also pioneered polynomial optimization techniques in structural design and variational methods. The results appeared in 31 leading peer-reviewed journals. Two Ph.D. theses earned international prizes, the first from FCE, and one thesis was co-supervised with TU/e. Post-project funding includes an ERC.cz grant, two CSF projects, and the five-year ROBOPROX project, integrating top Czech researchers in robotics, informatics, optimization, and materials science. Aligned with FCE's scientific mission in integrating simulation and optimization of materials and structures, modeling of multi-physics processes and robotics and automation, PERFORM led to the creation of the Open Mechanics Group (https://openmechanics.fsv.cvut.cz), as a joint effort between the Department of Mechanics and the Experimental Center, and the lab space located at the Czech Institute of Robotics and Cybernetics (CIIRC). This environment proved particularly beneficial to junior team members, from whom four became Assistant Professors at FCE, one at TU/e, and one at the University of Palermo, 2019-2023, FCE total budget 1,354k EUR.

EU H2020 project **Automated Solutions for Sustainable and Circular Construction and Demolition Waste Management** (RECONMATIC). The transition towards a zero-waste construction industry in Europe implies the entire life-cycle of construction and demolition waste (CDW) management. The project aims to design innovative tools, solutions, and techniques to connect CDW prevention and management with the European waste reduction goals. The project is working on an integrated decision-making approach – one that considers all aspects of CDW generation. As such, it develops, tests and demonstrates automated, digital and robotic solutions for construction industry stakeholders' collaboration and waste traceability. RECONMATIC in the first two years assessed existing practices in CDW management, from the prevention and minimization of waste to its effective reuse throughout the life-cycle and identify markets to support supply chains and circular economies. To allow more efficient and automated sorting of mineral waste, an Albased CDW classification software utilizing low-cost sensors' inputs was prepared. In this project task the aim is to use appropriate ML models in combination with variant sensor types to identify solutions to achieve the best possible sorting



of the individual material components, which will allow better use of higher value-added recycling solutions, contributing to the mission of FCE in sustainable life-cycle management. At the same time, attributes that describe the waste and recycling-related aspects of materials, components and other 3D geometry captured within digital models (WASTEie) have been developed to enhance the non-graphical information in BIM models. Coordinated by CTU, bringing together 23 partners from 7 countries (5 EU+UK+China, total budget 6,091k EUR, 2022-2026, https://www.reconmatic.eu/about).

EU H2020 project Engineering barrier 200C: The aim of the project is to critically evaluate the durability of the bentonite barrier of a nuclear waste repository at higher temperatures through a long-term in-situ experiment and accompanying research. So far, the only safe and technically feasible way is to build a deep repository that will safely separate highlevel waste and spent nuclear fuel from the environment for hundreds of thousands of years. The repository system is based on a multi-barrier principle, where the inhibited waste is progressively surrounded by a series of repository casings and a bentonite sealant layer - the so-called engineered barrier. The final barrier is the host environment itself. Safety will be improved through better input to the safety analysis-important insights will be gained into the behavior of both the system and the engineered barrier materials. These insights will be relevant to both current and high-temperature designs. The principal investigator is CTU (FCE) in cooperation with Charles University, Czech Geological Survey and Teramed. The application guarantor of the project is SURAO. The project is multidisciplinary and has seven planned deliverables, including Physical High Temperature Storage Site Model, Operation of an advanced high temperature barrier, Expert study on the mineralogical composition of the bentonite used and its changes during the experiment, Geomicrobiological study of the behaviour of microbial colonisation at high temperatures in a rock environment, Numerical model of the THM behaviour of bentonite, Expert study on the hydro-mechanical properties of used bentonite when exposed to temperatures above 150 °C, Database of material characteristics of bentonite reflecting changes when exposed to temperatures above 150 °C. The project started in 2018 and the in-situ experiment was installed and started in the Josef underground laboratory in autumn 2019 and operated until mid-2024, when it was dismantled, 2018-2025, total budget 945k EUR.

Ministry of Culture project VItava River - changes in the historical landscape due to floods, dam construction and changes in land use with links to cultural and social activities in the vicinity of the river. The project dealt with changes in the historical landscape around the Vltava River in connection with the construction of the cascade of dams. This topic required the elaboration of thousands of old maps, plans, historical photographs and other archival materials and the creation of a comprehensive information system about the old Vltava River. A 3D digital model of the flooded valley was created along the entire length of the river, including models of important buildings around the river. The results were visualized in the form of a 2D and 3D web mapping application. The project also resulted in a highly appreciated book publication (e.g., CTU Rector's Award). At the end of the project, the results were presented in the form of an exhibition, which allowed to visualize the historical Vltava valley in the areas of the Lipno, Orlík and Slapy dams in the form of largeformat physical models (4 by 1 metre), large-format floor prints of the entire historical river course and more than 50 exhibition panels. The application potential of the project lies primarily in the huge amount of processed archival material that can be used by other researchers. In addition to the principal investigator (FCE), the Faculty of Science of Charles University also participated in the project. The resulting informative map portal was awarded the Map of the Year Award of the Czech Cartographic Society in the category of Digital Cartographic Products and Internet Applications. This result is aligned with FCE mission in Geoinformation technologies. CTU's share in the project was approximately 75%, 2018-2022, total budget 704k EUR.

TAČR Epsilon project TH04010329 Autonomous Robotic Construction System. Project coordinated by industrial partner (DEK a.s.) with FCE as a sole partner. The project has developed a working prototype of an autonomous robotic construction system that enables precise and fast construction production with reduced number of construction workers. The solution has been focused on additive manufacturing (load-bearing and non-load-bearing walls), precision mortar masonry (foundations, load-bearing walls and partitions), insulation and surface painting. The autonomous system provides export of the digital building model to the control interface of industrial robots, essentially enabling automated robot planning and production, demonstrating FCE's competence of in digitalization and robotics. The results have been demonstrated on sample objects at realistic 1:1 scale. The winning project of the 2023 TAČR Awards in the Business category, (https://www.youtube.com/watch?v=4XmYAPAaf2M, 2019-2021, FCE total budget 207k EUR.

FCE collaboration with Radioactive Waste Repository Authority (SÚRAO) in the frame of contracted research focused on issues related to the end of the fuel cycle of nuclear fuel and its disposal in a deep repository for radioactive waste. The unique faculty underground workplace, the Josef Underground Laboratory, is used to demonstrate and validate project solutions. These complex tasks are solved in multidisciplinary team, including partners from Faculty of Nuclear Sciences (FJFI), Technical University Liberec (TUL) and commercial subjects. In this activity, basic research questions are addressed, in-situ experimental activities are carried out to support safety verification and support mathematical modelling, but also design activities are carried out. This multidisciplinary work contributes to a construction of a safe and sustainable deep



repository in the Czech Republic and the disposal of the first radionuclides in a deep repository in 2050, aligned with FCE long-term research directions in advanced modeling and life-cycle and environmental management. The total amount of FCE contracted work in period 2019-2023 with SURAO is 1,460k EUR.

FCE contracted research with Road and Motorway Directorate (ŘSD) included Elaboration of Technical Conditions for Pavement design for roads, Design of maintenance and repairs of non-rigid pavements, Paving for road structures and Technical quality conditions for Compacted asphalt layers, Evaluation of immovable property of the Road and Motorway Directorate of the Czech Republic on the basis of price indicators, assessment of the technical solution of cost-important bridge structures in terms of investment intensity and expected operating costs, consultancy services related to use of modified asphalt binders (PMB, CRMB) and recycling of existing ones containing carcinogenic polycyclic aromatic hydrocarbons (PAUs). The total amount of FCE contracted work in period 2019-2023 with ŘSD is 450k EUR.

The FCE maintains a long-established and close collaboration with the Railway Administration of the Czech Republic. Their joint efforts are centered around evaluating existing structures and bridges, relevant regulations, and internal processes, alongside consultation and methodological activities. FCE provides expert services in areas such as new project preparations, the development of expert opinions, and assessments, including identifying the initiation and propagation of structural defects, determining their causes, and offering recommendations for their mitigation. Another significant area is the long-term monitoring of bridges, encompassing both safety monitoring and the evaluation of the interaction between bridges and contactless tracks. The insights gathered from this monitoring are then used to systematically prepare requirements for future high-speed railways in the country. The total amount of FCE contracted work in period 2019-2023 with Railway Administration was 450k EUR.

In Table 3.3.1 we use following shortcuts to indicate provider: Ministry of Education, Youth and Sports (MSM), Ministry of the Interior (MVO), Ministry of Foreign Affairs (MZO), Ministry of Culture (MKO), Czech Science Foundation (GAO), Technology Agency of the Czech Republic (TAO), European Union (EC), European Space Agency (ESA).

Table 3.3.1 Projects supported by public funds

| Iable | 3.3.1 Projects supported by public funds | | | | | |
|---|--|----------|---------|-----------------|---------|---------|
| In th | e role of beneficiary | | | | | |
| Project name Support (in thousands CZK/EUR) ²⁶ | | | |) ²⁶ | | |
| Provider 25 | | 2019 | 2020 | 2021 | 2022 | 2023 |
| | The effect of input data quality and computation method on soil loss determination in rural landscape | 96/3787 | | | | |
| | Application of municipal sewage sludge ash in production of eco- efficient construction materials | 96/3787 | 96/3787 | 96/3787 | | |
| | Compound rejuvenating effects on aged bitumen from reclaimed asphalt material by bio-waste additives | 179/7041 | 5/178 | 5/178 | | |
| MSM | Using UAVs to assess surface runoff and soil erosion | | 82/3235 | 82/3235 | | |
| | Salt transport, storage and crystallization in renovation plasters – combined computational and experimental study | | 60/2367 | 60/2367 | 60/2367 | |
| MSM | UHPRFC for application for severe conditions | | 80/3156 | 56/2209 | 80/3156 | |
| | Acceleration of soil erosion from arable land following climate and land management change | | 84/3314 | 82/3235 | | |
| | The effect of landscape structure and patchiness on soil erosion, sediment transport and retention capacity | | | | 74/2903 | 74/2903 |

²⁵ If the provider is from abroad, please indicate the provider's country of origin in brackets. For the determination of the country of origin of the provider, the place of residence of the provider is decisive.

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²⁶ Indicate the total amount expressed in thousands of CZK and the conversion of the total amount into Euro.



| Progressing understanding of landscape hydrology by ecohydrological modeling in Czech and Austrian watercourse catchments | | | | | 80/3156 |
|---|--|--|--|--|---|
| Advancement and standardization of European rain simulation facilities | | | | | 106/4181 |
| Synergy of multiscale Modelling and machine Learning: Strategy for | | | | | 63/2465 |
| Membership of Czech representative in IWA/IAHR Joint Commitee on | 95/3762 | | | | |
| Ecosystem services of mountain forests in catchments of drinking water reservoirs affected by the acid atmospheric deposition and | | 24.6./4.2.475 | | | |
| The effects of land use changes on soil erosion, sediment transport, | | | | | |
| Connectivity of sediment transport within intensively-used rural | 645/33333 | | | 1780/ | 1736/ 68481 |
| Development of a special cementitious composite suitable for 3D | | | | | 00401 |
| The stain limit for advanced modelling of steel structures – | | 423/10082 | 713/28120 | 770/30373 | 703/27747 |
| The Effect of Chemical Composition of Concrete on Its Long-term | 1220/ | 944/37239 | | | 703/27747 |
| Splash erosion - the initial stage of erosion processes | 46120 | 158/6233 | | | |
| Splash erosion - the initial stage of erosion processes | | | 158/6233 | | |
| | | | | 171/6726 | |
| Soil erosion - threat for our future | | | | | 238/9369 |
| Development and research of validated fire and occupant evacuation models and their practical application in building fire safety assessment | - | | | | |
| Research, development, testing and performance assessment of critical infrastructure parts | 550/21696 | 550/21696 | | | |
| Resistance Improvement of Dams and Reservoirs as Key Elements of Water Infrastructure | 939/37041 | 1643/ 64813 | 1499/ 59132 | 387/15266 | |
| Antecedent saturation and design rainfalls as factors of hydrological | 3210/ 126627 | 3520/ | 3516/ | 3370/ | |
| Interior thermal insulation systems for the architectural-heritage | 3870/ | 2610/ | 130030 | 132333 | |
| Conservation, reparations and monitoring of historical pond dams as | 2608/ | 2535/ | | | |
| Evaluation of stability and technical conditions of the Broumov group | 102000 | 100000 | | | |
| of churches and proposal of remediation of this unique Europe culture heritage | 1567/ 61815 | 1630/ 64300 | | | |
| Documentation, registration, presentation and proposals of | 2140/ | 1713/ | | | |
| industrial monuments in the Czech Republic | I - | - | | | |
| Research and development of materials, processes and techniques for restoration, preservation and strengthening of historic masonry | | | | | |
| structures, surfaces and systems for preventive care of heritage buildings exposed to anthropogenic and natural risks | 4928/ 194406 | 4595/ 181270 | | | |
| Analysis and presentation of the values of modern architecture of the 1960s and 1970s as part of the national and cultural identity of the | | | | | |
| Czech Republic. | 963/37988 | 973/38383 | | | |
| · | | _ | | | |
| Czech Historical Atlas | 1848/ 72899 | 1848/ 72899 | | | |
| · | 1848/ | 1848/ | 2057/ 81152 | 3596/ 141854 | |
| Czech Historical Atlas Methods for ensuring the sustainability of steel bridge structures of industrial cultural heritage Documentation and presentation of technical cultural heritage on the | 1848/ 72899 2454/ 96821 2533/ | 1848/ 72899 2114/ 83402 2212/ | 81152 2283/ | 141854 2313/ | |
| Czech Historical Atlas Methods for ensuring the sustainability of steel bridge structures of industrial cultural heritage | 1848/ 72899 2454/ 96821 2533/ 99921 2639/ | 1848/ 72899 2114/ 83402 2212/ 87258 2649/ | 81152 2283/ 90059 2639/ | 141854 2313/ 91243 4852/ | |
| Czech Historical Atlas Methods for ensuring the sustainability of steel bridge structures of industrial cultural heritage Documentation and presentation of technical cultural heritage on the Elbe-Vltava Waterway Sustainable management of cultural heritage buildings Traditional urban construction and building crafts at the turn of the | 1848/ 72899 2454/ 96821 2533/ 99921 2639/ 104103 3104/ | 1848/ 72899 2114/ 83402 2212/ 87258 2649/ 104497 3351/ | 81152 2283/ 90059 2639/ 104103 3635/ | 141854 2313/ 91243 4852/ 191400 4128/ | |
| Czech Historical Atlas Methods for ensuring the sustainability of steel bridge structures of industrial cultural heritage Documentation and presentation of technical cultural heritage on the Elbe-Vltava Waterway Sustainable management of cultural heritage buildings Traditional urban construction and building crafts at the turn of the 19th and 20th centuries | 1848/ 72899 2454/ 96821 2533/ 99921 2639/ 104103 | 1848/ 72899 2114/ 83402 2212/ 87258 2649/ 104497 3351/ | 81152 2283/ 90059 2639/ 104103 | 141854 2313/ 91243 4852/ 191400 | |
| Czech Historical Atlas Methods for ensuring the sustainability of steel bridge structures of industrial cultural heritage Documentation and presentation of technical cultural heritage on the Elbe-Vltava Waterway Sustainable management of cultural heritage buildings Traditional urban construction and building crafts at the turn of the | 1848/ 72899 2454/ 96821 2533/ 99921 2639/ 104103 3104/ | 1848/ 72899 2114/ 83402 2212/ 87258 2649/ 104497 3351/ | 81152 2283/ 90059 2639/ 104103 3635/ | 141854 2313/ 91243 4852/ 191400 4128/ | |
| Methods for ensuring the sustainability of steel bridge structures of industrial cultural heritage Documentation and presentation of technical cultural heritage on the Elbe-Vltava Waterway Sustainable management of cultural heritage buildings Traditional urban construction and building crafts at the turn of the 19th and 20th centuries Development of a progressive rehabilitation procedure for the restoration and conservation of military fortress buildings from the | 1848/ 72899 2454/ 96821 2533/ 99921 2639/ 104103 3104/ 122446 | 1848/ 72899 2114/ 83402 2212/ 87258 2649/ 104497 3351/ 132189 2768/ 109191 | 81152 2283/ 90059 2639/ 104103 3635/ 143393 | 141854 2313/ 91243 4852/ 191400 4128/ 162840 | |
| FISH LEVEL OF THE FISH STATE OF LEVEL STATE OF THE STATE | acilities Synergy of multiscale Modelling and machine Learning: Strategy for piomedical sciences and battle against cancer Membership of Czech representative in IWA/IAHR Joint Commitee on Jrban Drainage Cosystem services of mountain forests in catchments of drinking vater reservoirs affected by the acid atmospheric deposition and climate change. 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| МКО | Tools for the preservation of historical values and functions of arch and vaulted bridges | | 2883/ 113728 | 3402/ 134201 | 3126/ 123314 | |
|-------|---|--------------------|-----------------|-----------------|-----------------|-----------------|
| МКО | Building stone surface topography and its application in the field of | | 1492/ | 1909/ | 1779/ | |
| | stone features restoration | | 58856 | 75306 | 70178 | |
| МКО | Historical cultural landscape in danger and vision of its development in the context of current landscape changes | | | | | 1634/ 64458 |
| МКО | Restoration of hard-plaster facades from the first half of 20th century | | | | | 4177/ |
| | , | | | | | 164773 |
| МКО | Two centuries of railways in the Czech lands. Cultural, socio-economic | | | | | |
| | and transport technical aspects of the development of Czech (Czechoslovak) railways | | | | | 1272/ 50178 |
| МКО | Vitava II – transformations of historical landscape, the river as a | | | | | 1079/ |
| | connection and a barrier | | | | | 42564 |
| МКО | Active preservation of the immovable industrial heritage by new reuse | | | | | 2959/ |
| МКО | Architectural and festive lighting in the context of historic buildings | | | | | 116726 2323/ |
| IVIKO | and spaces | | | | | 91637 |
| МКО | Boundaries as a cultural-historical phenomenon. Analysis, | | | | | 2361/ |
| | specification, comparation and interpretation | | | | | 93136 |
| МКО | Historical Architectural Member Design and Proportioning Procedures reconstruction and application | | | | | 622/24536 |
| ОТН | MOVPD - Determination of technology and methodology for rapid | | | | | 022/24330 |
| | runway/RWY repairs after attack by anti-surface conventional tactical | | | | | 3314/ |
| | munitions, including assessment of available assets and materials | 1110/ | | | | 130730 |
| GAO | Modelling and experimental verification of the effect of freeze-thaw cycles on the degradation of porous building materials | 1418/ 55937 | | | | |
| GAO | Thermal insulation composites containing waste plastic fillers | 1080/ | | | | |
| | | 42604 | | | | |
| GAO | Cement composite for radionuclide encasement | 2224/ | | | | |
| GAO | Performance of concrete subjected to blast and subsequent fire | 87732 1283/ | | | | |
| GAO | loading | 50611 | | | | |
| GAO | Kinetic energy of rainfall as driving force of soil detachment and | 2121/ | | | | |
| 640 | transport | 83669 | | | | |
| GAO | Research into possibilities of utilizing micronized recycled concrete to be used as filler with binding capacity | 1118/ 44103 | | | | |
| GAO | Analysis of the relations between the microstructure and macroscopic | 1408/ | | | | |
| | properties of ultra-high performance concretes | 55542 | | | | |
| GAO | Nonlinear stability and strength of slender structures with nonlinear properties. | 928/36607 | | | | |
| GAO | Quantification of hydrological variables from microwave propagation | 2154/ | | | | |
| | in cellular networks in atmospheric boundary layer | 84970 | | | | |
| GAO | Analysis of the impact of explosions in enclosed and semi-enclosed | 004/0000 | | | | |
| GAO | spaces Reliable two-scale Fourier/finite element-based simulations: Error- | 991/39093 2408/ | | | | |
| GAO | control, model reduction, and stochastics | 94990 | | | | |
| GAO | Small-scale fracturing of amorphous and crystalline materials assessed | 2427/ | | | | |
| 640 | with nanoindentation and FIB | 95740 | | | | |
| GAO | Water flow and solute transport in structured soils | 1598/ 63037 | | | | |
| GAO | Interior plasters with enhanced moisture accumulation capabilit | 1227/ | 1275/ | | | |
| | · | 48402 | 50296 | | | |
| GAO | Properties, durability and performance of lightweight mortars with | 2086/ | 2086/ | | | |
| GAO | mineral admixtures Comprehensive study on physicochemical interaction and related | 82288 | 82288 | | | |
| | phenomena between bitumen and mineral aggregate by advanced | 1621/ | 1544/ | | | |
| | experimental methods | 63945 | 60907 | | | |
| GAO | Probabilistic material identification of transport parameters based on non-invasive experimental measurements | 1920/ 75740 | 1920/ 75740 | | | |
| GAO | Fire resistance of glued laminated timber beams including | 1471/ | 75740 1471/ | | | |
| | uncertainties | 58028 | - 1 | | | |
| GAO | Mechanical characteristics of polymer adhesive joints in civil | 000/00:5- | 764/26::- | | | |
| GAO | engineering applications Multilevel modelling of mechanical properties of heterogeneous | 823/32465 | 764/30118 | | | |
| 370 | materials and structures on PC clusters | 795/31361 | 795/31361 | | | |
| GAO | Unfired and rammed clay for construction | 1061/ | 1051/ | | | |
| | | 41854 | 41460 | | | |



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|-------|---|----------------|----------------|--------------------|--------------------|----------------|
| GAO | Bacterial induced calcification for self-healing of cementitious composites | 1586/ 62564 | 1548/ 61065 | | | |
| GAO | The effects of methylxanthine-based biocides on the properties of | 1351/ | 1391/ | 1486/ | , | |
| GA0 | constructional timber | 53294 | 54872 | 58619 | | |
| GAO | Effect of Biofilms on Hygrothermal Performance of Building Facades | 1020/ | | 1011/ | / | |
| | Materials | 40237 | 995/39250 | | 2 | |
| GAO | Influence of fillers on the structure and properties of calcium sulphate composites | 975/38462 | 987/38935 | 1000/ 39448 | 8 | |
| GAO | High performance concrete with enhanced self-healing capability | 1032/ 40710 | 1013/ 39961 | 988/38974 | ļ | |
| GAO | Non-periodic pattern-forming metamaterials: Modular design and | 6505/ | 7405/ | 7765/ | 10989/ | 7860 |
| | fabrication | 256607 | 292110 | 306312 | 433491 | 310059 |
| GAO | Concrete slurry - hazardous waste or secondary raw material? | 1598/ 63037 | 1623/ 64024 | 1635/ 64497 | 7 | |
| GAO | Design and advanced modelling of forced-entry and bullet resistant glass structures | 1938/ 76450 | 1880/ 74162 | 1824/ 71953 | | |
| GAO | Compression tests with confinement for analysis of concrete columns | 1385/ 54635 | 1310/ 51677 | 1297/ 51164 | / | |
| GAO | Time dependent behavior of thermoset polymers with application to | 1681/ | 1679/ | 1677/ | | |
| | anchor | 66312 | 66233 | 66154 | ļ l | |
| GAO | Shrinkage-induced deformations and microcracking in structural | 1362/ | 1302/ | 1290/ | 1 | |
| | concrete - monitoring, modeling and identification | 53728 | | 50888 | | |
| GAO | Modelling of intense collisional sediment transport with turbulent suspension | 2125/ 83826 | 2100/ 82840 | 2075/ 81854 | | |
| GAO | Performance of structures with timber fire protection – multi-physics | 1536/ | 1794/ | 1783/ | | |
| G/ (O | modelling | 60592 | 70769 | 70335 | | |
| GAO | Characterization of composite materials based on surface-modified | | 1347/ | 1415/ | | |
| | rapeseed straw and environmentally-friendly adhesives | | 53136 | | | |
| GAO | Application of fuzzy control theory in thermal design of residential | | 1278/ | 1233/ | - 1 | |
| CA 0 | buildings | | 50414 | 48639 | | |
| GAO | Hydration stoppage techniques for cement, lime and gypsum | | 1130/ 44576 | 1117/ 44063 | 1123/ 44300 | |
| GAO | Controlled modification of mineralogical composition of ceramic body | | 1323/ | 1371/ | | |
| | for improvement of its utility properties | | 52189 | 54083 | | |
| GAO | Analysis of influence of electromagnetic field on behaviour of fibre | | | | 1364/ | |
| | reinforcement in cementitious composite | | | 928/36607 | | |
| GAO | Underrepresented processes affecting the water balance of forest | | 1236/ 48757 | 1260/ | 2468/ | |
| GAO | catchments in headwater areas of temperate zone Physical and chemical processes in low-cement heat-resistant | | 1986/ | 49704 1911/ | | |
| GAO | i nysicarana chemicar processes in low cement heat resistant | | 78343 | 75385 | | |
| GAO | Fungal growth on the surface layer of wood-based materials under dynamic boundary conditions | | 1021/ 40284 | 1034/ 40789 | - | |
| GAO | Spatial rainfall estimates using improved observations from | | 1606/ | 1699/ | | |
| | commercial microwave links and statistical data fusion | | 63361 | | | |
| GAO | Process modeling for 3D printing and other additive technologies | | 1544/ | 1656/ | | |
| GAO | Upgrade in Design of Energy Dissipators for Spillways | | 60907 | 65325 | | |
| GAO | Hysteresis modeling in mathematical engineering | | 1483/ | 945/37278 1471/ | 945/37278 2026/ | |
| GAO | rrysteresis modelling in mathematical engineering | | 58501 | 58028 | - 1 | |
| GAO | Global analysis methods for slender structures of stainless steels and | İ | 1264/ | 1511/ | 1 | |
| | other steels with non-linear stress-strain diagram | | 49862 | 59606 | 862/34004 | |
| GAO | Characterization of modified isocyanate-based adhesives for engineered wood products | | | 945/37278 | 1963/ 77436 | 1914, 75503 |
| GAO | Chemical and physical interactions of basalt-based reinforcement with | | | 1197/ | 1269/ | 1215 |
| | cementitious matrix | | | 47219 | 50059 | 47929 |
| GAO | Experimental and computational analysis of transport, accumulation | | | 1206/ | - | 2366 |
| C A O | and crystallization of salts in non-hydrophobic plaster mortars | | | 47574 | | 93333 |
| GAO | Thermo-hygro-mechanical model of concrete pavements | | | 1126/ 44418 | 1837/ 72465 | 1795, 70809 |
| GAO | Lattice discrete particle model for thermoset polymers used in rebar | | | 1930/ | | 1930 |
| | connections and heavy-duty anchoring | | | 76134 | - 1 | 76134 |
| GAO | Charring of timber under fully developed natural fire – stochastic | | | 1067/ | 1408/ | 1231 |
| | modeling | | | 42091 | | 48560 |
| GAO | Microstructural investigation and simulation of coupled physical fields | | | 1358/ | 3252/ | 3242 |
| GAO | in concrete due to electromigration treatments Polynomial optimization in the design of globally optimal frame | | | 53570 | 128284 2936/ | 127890 4221 |
| 370 | structures under dynamic loads | | | | 115819 | 166509 |



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| 1348 1545 1556 1579 | GAO | Utilization of water sediments for building materials design | | | | | |
| 1444 1462 | GAO | · | | | | 1418/ | 1454/ |
| Separation Sep | | · | | | | 55937 | 57357 |
| Accordance Acc | GAO | · · · · · · · · · · · · · · · · · · · | | | | | 1462, 57673 |
| 1837 1933 1935 | GAO | Microbiologically induced calcite precipitation for production of | | | | 2362/ | 2627, |
| Dodding | GΔO | | | | | 1 | |
| semantic intercoperability and multi-criteria optimization. All Advanced approaches for determination and understanding of asphalt in fatigue behavior All Advanced procedures of the control of the co | GAO | | | | | 1 | |
| Advanced approaches for determination and understanding of asphalt | GAO | | | | | | 2556, 100828 |
| 350 341-driven calibration and validation of critical state constitutive models for soils and associated uncertainties 10270 10217 1 | GAO | | | | | | 1742 |
| models for soils and associated uncertainties 102170 102176 | 640 | | | | | 1 | |
| For special construction applications 40000 894/3526 | GAU | | | | | 1 | |
| SAO Experimental study and advanced modelling of multilayer glass panels exposed to explosely basis and ballistic impact and some control of the explose of | GAO | · | | | | | 004/25266 |
| Exposed to explosive blasts and ballistic impact S040 S0350 S030 | | | | | | | |
| reinforcement in concrete AND Alternatives of thermally activated lower grade clays as a partial cement replacement cement replacement (activated soils) (a | GAU | | | | | | , |
| Alternatives of thermally activated lower grade clays as a partial cement replacement replacemen | GAO | . , | | | | 1 | 3042/ |
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|------|--|------------------|----------------|----------------|--------------------|----------------------------|
| TAO | Influence of small water reservoirs on the groundwater level and | | 2884/ | 1948/ | 1 | |
| | hydrological balance with emphasis on dry periods | 683/26941 | 113769 | 76844 | 775/30568 | 538/21224 |
| TAO | Method of determining the value of non-residential buildings in the government sector. | | 1199/ 47278 | | | |
| TAO | Use of higher amounts of reclaimed material in asphalt mixtures with PmB bitumen | | 788/31065 | 788/31065 | 2353/ 92824 | 2447, 96524 |
| TAO | Land administration in time and space | | | 1388/ | 3095/ | 3032 |
| TAO | Utility and risk of irrigation over the Czech Republic in changing climate | | 902/35582 | 54753 | 122091 2242/ | 2574 |
| | | | 495/19539 | 678/26754 | 88427 | 101530 |
| TAO | Using remote sensing to assess negative impacts of rainstorms | | 469/18510 | 810/31960 | 2281/ 89995 | 2295, 9051 ² |
| TAO | Development of chemical admixtures for concrete incorporating energy by-products | | 1411/ 55641 | 2194/ 86564 | | |
| TAO | Development of Coupling Details for Concrete Containers for Radwaste | | | 1822/ | 1031/ | |
| | and Spent Fuel and Modeling of Their Long-Term Performance | | 948/37396 | 71874 | 40688 | |
| TAO | Mobile recycling line for processing construction waste from mineral thermal insulation materials and use of recycled material including | | | 1449/ | 2088/ | |
| | possibility of direct application on construction | | 704/27771 | 57164 | 82359 | |
| TAO | Long-term monitoring of track construction at tram crossings focusing | | | 1202 | , | |
| | on shallow crossings in order to optimize their maintenance and | | 610/24422 | 1303/ | 999/39413 | |
| TAO | reduce noise Design of advanced stainless steel structures | | 619/24423 | 1105/ | | |
| IAO | | | 766/30229 | 43602 | | |
| TAO | Shape optimization of the hydraulic structures using parametric models of structures and CFD | | 495/19518 | 1189/ 46886 | 785/30978 | |
| TAO | Advanced methodology for static modelling of scaffolds made of | | | | | |
| | prefabricated components | | 364/14376 | 513/20234 | 245/9655 | |
| TAO | Development of efficient tools to minimize production of construction and demolition waste, its monitoring and reuse | | | 1325/ 52249 | 4835/ 190720 | 3633 <i>/</i> 143331 |
| TAO | Partial improvement of navigation conditions on the regulated Elbe | | | 32249 | 190720 | 143331 |
| 170 | between Ústí nad Labem and the state border of the Czech Republic / Germany | | | 1059/ 41760 | - | |
| TAO | Adaptation of the French method of evaluation of track substructure | | | 1600/ | | 2410/ |
| 1710 | for high-speed lines into the Czech Republic conditions | | | 63116 | - | 95069 |
| TAO | Increased reliability and | | | 1803/ | 1883/ | 1883/ |
| | tunnel lining lifetime by using information models and new approaches | | | 71116 | | 74272 |
| TAO | Deep-Learning-Enabled On-Demand Design of Composite Microstructure: Application to Mechanical Metamaterials | | | 1597/ 62983 | 5223/ 206034 | 3802 <i>/</i> 149987 |
| TAO | The enhancement of the fatigue strength of the high strength steel | | | 02303 | 2168/ | 3400/ |
| TAO | welded details for new and temporary bridges and their renovation | | | | 85523 | 134122 2950/ |
| IAU | Materials for circular economy - industrial waste based geopolymers composites with hybrid reinforcement | | | | 1759/ 69385 | 116364 |
| TAO | Effective design control of stormwater management systems in urban | | | | | 1071/ |
| TAO | areas Intelligent acquisition methods and analysis of digital data for bridge | | | | 985/38854 8748/ | 42249 |
| | inspections | | | | 345091 | |
| TAO | Substances depleting the ozone layer and fluorinated greenhouse gases in the construction sector of the Czech Republic. | | | | | 535/21089 |
| TAO | Research and development of innovative methods and materials for fire safety design of tunnel structures | | | | | 2799/ 110422 |
| TAO | Centre for Effective and Sustainable Transport Infrastructure (CESTI) | 19767/ | | | | 110422 |
| EC | Concepts of the Building faculty of CTU for Prague 2017 | 779775 10593/ | 9542/ | | | |
| EC | Innovation of the existing doctoral programme in Architecture and Civil | 417883 1866/ | 376417 | | | |
| | Engineering and creation of new architectural programmes | 73604 | 982/38737 | | | |
| EC | Development of a research-oriented study programme in Physical and Materials Engineering | 691/27263 | 164/6486 | | | |
| EC | Support for the accreditation of the research-oriented study programme Civil Engineering | 1385/ 54634 | | | | |
| EC | Development of research-oriented study programmes in the field of | 54054 | 307/144/9 | | | |
| | water and environmental engineering | 675/26608 | | | | |
| EC | Risk management and safety of complex technological objects | 2046/ 80711 | 1215/ 47939 | | | |
| EC | Smart equipment for the Postgraduate Student Incubator | 1067/ | 39039/ | | | |
| | | 42103 | 1540004 | | | |



| Physical and Materials Engineering 6:533.3 179/7058 | | | | | | | |
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| Example Comparison of research infrastructure for the needs of the newly accredited modified Geodey and Cartography programme 148829 768/30310 | EC | Establishment of infrastructure for an innovative doctoral programme | 1657/ | 170/7050 | | | |
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| E. Renovation of the laboratory infrastructure of the CTU Faculty of Civil 33295/ 2367/1 1475/ | | | | • | | | |
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| EC Renewal and optimisation of the location of remote sensing infrastructure 62865 314/12384 2/91 | | 1 | 1 | - | - | | |
| EC Strengthening of existing masonry buildings 2513/ 99132 27474 27474 2871834 27474 2871834 28718 | EC | ŭ ŭ | | | | | |
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| Advanced structures design - fire safety guideline for V4 336/13254 | EC | | 12222/ | | E022/ | 28/1834 | 16005 |
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| Coperating towards Advanced MAnagement ROutines for land use impacts on the water regime in the Danube river basin, CAMARO-D | EC | Opportunistic Precipitation Sensing Network | | | | · · · · · · · · · · · · · · · · · · · | |
| Impacts on the water regime in the Danube river basin, CAMARO-D 57160 39724 23347 23 | ОТЦ | Connecating towards Advanced MAnagement Poutines for land use | 1440/ | 1007/ | | 104142 | /1440 |
| Sako-Ceský management povodňových rízik II | ОІП | ' 5 | 1 | | | | |
| Strengthening professional capacities in the field of hydropower 2021 1239/ 48873 1239/ 48970 | ОТН | - | 37100 | | | | |
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| Project name Support (in thousands CZK/EUR) 2019 2020 2021 2022 2023 MSM Mathematical Frontiers in Large Strain Continuum Mechanics 12/473 12/473 11/450 MSM Hysteresis in hypo-plastic models MSM Research Infrastructure for Geothermal Energy 202/7968 MSM Fire effects on soils Application of brick microparticles at the building Application of brick microparticles at the building MPO Intelligent composite anchor At 1120/ 44181 MPO Research and development of mobile protective and ballistic barrier made up of composite board and water infill MPO Database of Digital Material Microstructures for Additive Manufacturing MPO Lightweight masonry materials based on micro-milled mineral byproducts with controlled utility properties MPO Application of high-value cement composites for the reconstruction of concrete buildings MPO Recycled eco-bricks based on mineral materials and admixtures from MPO Recycled eco-bricks based on mineral materials and admixtures from Support (in thousands CZK/EUR) 2027 2021 2022 2023 2024 2025 2027 2027 2027 2027 2027 2027 2027 2027 2027 2027 2027 2027 2027 2027 2027 2027 2028 202/7968 3/119 95/3747 202/7968 441/29231 955/37673 923/36410 341/1345: 441/1345: 441/29231 955/37673 923/36410 341/1345: 441/1345: 441/29231 955/37673 923/36410 341/1345: 441/1345: 441/29231 955/37673 923/36410 341/1345: 441/1345: 441/29231 955/37673 923/36410 341/1345: 441/29231 955/37673 923/36410 341/1345: 441/1345: 441/29231 955/37673 923/36410 341/1345: 441/29231 955/37673 923/36410 341/1345: 441/1345: 441/1345: 441/29231 955/37673 923/36410 341/1345: 441/ | 1014 | | 10036564 | | | 9148979 | 5883124 |
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| MSM Mathematical Frontiers in Large Strain Continuum Mechanics 12/473 12/473 11/450 MSM Hysteresis in hypo-plastic models 3/119 95/3747 MSM Research Infrastructure for Geothermal Energy 202/7968 MSM Fire effects on soils 741/29231 955/37673 923/36410 341/1345: MPO Application of brick microparticles at the building Application of brick microparticles at the building MPO Intelligent composite anchor 1120/ 44181 MPO Research and development of mobile protective and ballistic barrier made up of composite board and water infill MPO Database of Digital Material Microstructures for Additive Manufacturing MPO Lightweight masonry materials based on micro-milled mineral byproducts with controlled utility properties MPO Application of high-value cement composites for the reconstruction of concrete buildings MPO Recycled eco-bricks based on mineral materials and admixtures from 1875/ | er ²⁷ | | | | | | |
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| MSM Mathematical Frontiers in Large Strain Continuum Mechanics 12/473 12/473 11/450 MSM Hysteresis in hypo-plastic models 3/119 95/3747 MSM Research Infrastructure for Geothermal Energy 202/7968 MSM Fire effects on soils 741/29231 955/37673 923/36410 341/1345: MPO Application of brick microparticles at the building Application of brick microparticles at the building MPO Intelligent composite anchor 1120/ 44181 MPO Research and development of mobile protective and ballistic barrier made up of composite board and water infill MPO Database of Digital Material Microstructures for Additive Manufacturing MPO Lightweight masonry materials based on micro-milled mineral byproducts with controlled utility properties MPO Application of high-value cement composites for the reconstruction of concrete buildings MPO Recycled eco-bricks based on mineral materials and admixtures from 1875/ | õ | | | | | | |
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| MPO Research and development of mobile protective and ballistic barrier made up of composite board and water infill 42036 MPO Database of Digital Material Microstructures for Additive 1500/ 1140/ 59172 44970 MPO Lightweight masonry materials based on micro-milled mineral byproducts with controlled utility properties 42998 MPO Application of high-value cement composites for the reconstruction of concrete buildings 59172 750/29586 600/23669 MPO Recycled eco-bricks based on mineral materials and admixtures from 1875/ | MADO | Intelligent composite anchor | | 842/33215 | | | |
| MPO Research and development of mobile protective and ballistic barrier made up of composite board and water infill 42036 MPO Database of Digital Material Microstructures for Additive 1500/ 59172 44970 MPO Lightweight masonry materials based on micro-milled mineral by-products with controlled utility properties 42998 MPO Application of high-value cement composites for the reconstruction of concrete buildings 59172 750/29586 600/23669 MPO Recycled eco-bricks based on mineral materials and admixtures from 1875/ | IVIPU | intelligent composite anchor | 1 | | | | |
| made up of composite board and water infill A2036 MPO Database of Digital Material Microstructures for Additive Manufacturing MPO Lightweight masonry materials based on micro-milled mineral by-products with controlled utility properties Application of high-value cement composites for the reconstruction of concrete buildings MPO Recycled eco-bricks based on mineral materials and admixtures from MPO Recycled eco-bricks based on mineral materials and admixtures from | MPO | Research and development of mobile protective and ballistic barrier | | | | | |
| Manufacturing 59172 44970 MPO Lightweight masonry materials based on micro-milled mineral by-products with controlled utility properties 42998 MPO Application of high-value cement composites for the reconstruction of concrete buildings 59172 750/29586 600/23669 MPO Recycled eco-bricks based on mineral materials and admixtures from 1875/ | L | <u>'</u> | - | | | | |
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| concrete buildings 59172 750/29586 600/23669 MPO Recycled eco-bricks based on mineral materials and admixtures from 1875/ | MDC | | | | | | |
| MPO Recycled eco-bricks based on mineral materials and admixtures from 1875/ | IVIPU | | 1 | 750/29586 | 600/23669 | | |
| | MPO | | | . 55, 25500 | 300, 23003 | | |
| | • | l · | - | | | | |

²⁷ Ibid.



| MPO | Development of a passporting and monitoring system for geotechnical risk management | 1775/ 70020 | - | 1160/ 45759 | | |
|-------|---|------------------|-----------------------------|--------------------|-----------------|-----------------|
| MPO | Possibilities of utilization of coal-ash from power stations stored at | 1445/ | 1445/ | 43733 | | |
| MPO | stock piles The application of the magnetoelastic method for increasing the reliability and durability of existing and newly built prestressed | 57002 | 57002 | | | |
| | concrete structures. | | 554/21854 | | | |
| MPO | Plasterboard recycling towards production of materials with added value | 1313/ 51795 | 862/34021 | | | |
| MPO | Utilization of recycled tires for the production of acoustic insulating elements | 720/28387 | 1330/ 52481 | 1320/ 52087 | 1310/ 51692 | |
| MPO | Innovation of the production technology of lightened brick body for thin-walled brick blocks | 817/ 32229 | 1502/ 59250 | 1502/ 59250 | 1482/ 58462 | |
| MPO | Expansion of Management System Product "Intelligent House" | 1950/ 76923 | 2050/ 80868 | 2020/ 79684 | 2000/ 78895 | |
| MPO | Control and optimization of selected wastewater treatment units based on inline rheological properties of batch measurement focused | | 3,700 | | | |
| | on the development of innovated thickening and dewatering equipment | 305/12032 | 610/24063 | 610/24063 | 610/24063 | |
| MPO | Knowledge transfer in the field of dental implants | 408/16098 | 1059/ 41793 | | | |
| MPO | Analysis and optimization of technology for automatic collection of road communication 3D data with extremely high global height accuracy together with securing the strictest security standards for the | , | | | | |
| 141/0 | road transport | 645/25425 | | 4075 | 10004 | |
| MVO | The advanced technology of rapid determination of bridges deformation by radar interferometry and its use in diagnostics | 505/19908 | 1020/ 40251 | 1075/ 42420 | | |
| MVO | Protection of soft targets in the Czech security environment | 228/8995 | 429/16905 | 440/17339 | 401/15820 | |
| MVO | Innovation and development tools in the field of cause of fire investigation | | 2006/ 79138 | 2006/ 79138 | 1874/ 73930 | 1847/ 72846 |
| MVO | Autonomous vehicle for conducting pyrotechnic exploring in extremely dangerous areas | | | | 7142/ 281742 | 7142/ 281742 |
| MZO | Development of automated tools for optimizing monitoring erosion of agricultural land using remote sensing methods | 875/34517 | | | | |
| MZO | Creation of a national database of parameters of the mathematical | 873/34317 | | | | |
| | simulation model Erosion 3D and its standardization for routine use in | 040/22452 | 040/22452 | 900/21012 | | |
| MZO | the Czech Republic Ways of soil erosion protection on the farm level after glyphosate ban | 985/38856 | 848/33452 1080/ 42604 | 1083/ 42722 | | |
| MZO | Use of new soil protection technologies in agricultural practice | 303/30030 | 12001 | 12722 | 1235/ 48718 | 1235/ 48718 |
| MZO | Assessment of the share of sediments in the eutrophication of reservoirs and the possibility of corrective measures | | | | 995/39250 | 1005/ 39645 |
| МКО | A Transformation of Rural Architecture with Emphasis on the | 704/00055 | 564 (22422 | | 993/39230 | 39043 |
| МКО | Development of the 19th and 20th Centuries Identification and presentation of heritage potential of historic cultural | | 561/22130 | | | |
| MKO | landscapes in the Czech Republic Water towers - identification, documentation, presentation, new use | | 945/37278 | 2358/ | 1477/ | |
| IVINO | water towers - identification, documentation, presentation, new use | 1656/ 65325 | 1861/ 73412 | 93018 | - 1 | |
| МКО | VISKALIA – Virtual open air museum of the vernacular architecture | | 1064/ 41972 | 1177/ 46430 | 1166/ 45996 | |
| МКО | Practical approaches to territorial conservation of historical cultural landscape | | 1045/ 41223 | 1222/ 48205 | 1167/ | |
| GAO | Research and development of high performance composites containing biomass ash | 874/34477 | 71223 | 40203 | 40030 | |
| GAO | Function Spaces and Approximation | 461/18185 | 255/10059 | | | |
| GAO | Monastic settlement as a socio-economic phenomenon in early Islamic Northern Mesopotamia | 563/22209 | - | | | |
| GAO | Reactive magnesia cements-based composites with selected admixtures and additives | 13245/ 522485 | 1276/ | 1276/ 50335 | | |
| GAO | Geopolymers for smart applications in civil engineering | 1011/ 39882 | 1036/ | | | |
| GAO | Alkali activated aluminosilicate composites based on ceramic | 1216/ | 1216/ | 998/39369 1216/ | | |
| GAO | precursors Efficient computational methods for limit analysis and plastic collapse | 47968 | | | | |
| | in geotechnical applications | 494/19487 | 506/19961 | 518/20434 | · | |



| GAO | Experimental and computational analysis of salt transport, | | | | | |
|-------|---|--------------------|----------------|--------------------|----------------|----------------|
| | accumulation, and crystallization in non-hydrophobized rendering | | | | | |
| | mortars | | 996/39290 | 996/39290 | 996/39290 | |
| GAO | Heat transfer in the surface boundary layers of building envelopes and its effect on the energy performance of buildings | | | | 1108/ 43708 | 1094, 43156 |
| GAO | Inactivation of mould growth on surfaces of building materials using | | | | 1218/ | 1290 |
| | low temperature atmospheric plasma | | | | 48047 | 50888 |
| GAO | Advanced lithium silicate sealers: on the way to sustainable building | | | | 726/20024 | coo/2co2/ |
| GAO | materials Thermoelectric properties and energy harvesting ability of electrically | | | | 736/29034 | 680/26824 |
| G/ (O | enhanced alkali-activated aluminosilicates | | | | 665/26233 | 862/34004 |
| GAO | Effect of surface treatments on the performance of silicon-based | | | | | 1229, |
| TA 0 | secondary materials in cementitious composites | 4700/ | | | | 48481 |
| TAO | Development and industrial optimisation of manufacturing process of construction materials from coal ash for transport construction | 1708/ 67363 | | | | |
| TAO | Integrated bentonite sealing for prevention of negative effect of | | | | | |
| | hydrogelogical wells on underground water | 870/34320 | 346/13649 | | | |
| TAO | Hierarchical additive fabrication of composite components with | 1467/ | | | | |
| TAO | functionally oriented filling Design of technical measures for slopes stabilization and soil erosion | 57857 1892/ | 1892/ | | | |
| 1710 | prevention | 74635 | 74635 | | | |
| TAO | Advanced design of strengthening of steel structures under loading | 1008/ | | | | |
| T40 | Made land to the second Continuous and the Continuous and the second | 39763 | | | | |
| TAO | Modular external fixation apparatus for electronic distraction and continuous biomechanical stimulation accelerating the new bone | | | | | |
| | tissue formation | 870/34320 | 902/35582 | | | |
| TAO | Response of reinforced and prestressed concrete structures of WWER | | | | | |
| | 1000 units to extreme dynamic actions for selected scenarios of severe | | | | | |
| TAO | accidents Strengthening competitiveness by increasing features of prefabricated | 39448 | | | | |
| 1710 | components made of Ultra-High Performance Concrete | 812/32032 | | | | |
| TAO | Significant economic and material savings in the construction of | | | | | |
| | underground line structures due to incorporating fly ash and secondary | | 1116/ 44024 | | | |
| TAO | waste into the concrete tunnel lining Airfield concrete panel | 46391 1616/ | 44024 | | | |
| | | 63748 | 236/9310 | | | |
| TAO | Application of image analysis for geotechnical purposes | 1468/ | | | | |
| TAO | CeSTaR - Computer simulation and experimental validation - complex | 57898 | | | | |
| IAU | service for flexible and efficient design of pre-cast concrete columns | 1500/ | | | | |
| | with innovative multi-spiral reinforcement | 59172 | | | | |
| TAO | ConSlag - research and verification of construction applications with | / | | | | |
| TAO | increased added value in case of steel slag Industrial research facilities for the treatment of Morbus Peyronie | 526/20753 1428/ | 1543/ | 1428/ | | |
| 170 | industrial research facilities for the treatment of Morbus regionie | 56331 | - | - | | |
| TAO | Extending service life of concrete road pavements using mineral | 1350/ | 1400/ | | | |
| | admixtures and blended cements | 53254 | 55227 | | | |
| TAO | Research and development of 3D printers for use in construction industry | 287/11334 | 673/26542 | | | |
| TAO | Hidden Connection of Laminated Glass Panes | | | | | |
| TAO | Numerical modelling and laboratory characterization of bentonite | 295/11645 | 289/11408 | | | |
| 1710 | barrier in nuclear waste repositories in the Czech Republic | 895/35318 | 895/35318 | 889/35066 | 392/15465 | |
| TAO | Technology for the permanent disposal of non-solid radioactive waste | | 2939/ | 2939/ | 2939/ | 2939/ |
| TA 0 | A tour on a Palastic P. Helion C. atour | 980/38650 | | | 115950 | 115950 |
| TAO | Autonomous Robotic Building System | 1723/ 67962 | 1759/ 69382 | 1759/ 69382 | | |
| TAO | Nano insulating materials for automotive, aviation and aeronautics. | | | | 060/27970 | |
| TAO | Waste clay composite as a substitute for tamponage mixtures for low- | 960/37870 | 900/3/8/0 | 960/37870 1170/ | 960/3/8/0 | |
| | potential heat pumps | 883/34832 | 947/37357 | 46154 | 588/23195 | |
| TAO | Research and development of a high-load bearing deformation block | 1539/ | | 1539/ | | |
| TAC | and its production process in order to increase the traffic safety | 60715 | - | 60715 | | |
| TAO | 3D PRINTER FOR BUILDINGS AND PREFABRICATED COMPONENTS FOR CONSTRUCTION 4.0 | 1131/ 44615 | 1065/ 42012 | 840/33136 | | |
| TAO | Innovative technology for the use of inorganic industrial waste | 1020/ | 1020/ | 2.3,33130 | | |
| | materials or by-products | 40237 | 40237 | | 876/34556 | |
| TAO | System for permanent monitoring of material degradation in civil | 1538/ | 1538/ | 1538/ | | |
| | structures | 60667 | 60667 | 60667 | | |



| TAO | Silent tunnels | 2028/ | | | | |
|-----|---|-----------|-----------------|-----------------|-------------------------|------------|
| | | 80000 | 810/31953 | 513/20237 | | |
| TAO | Innovative design of compact Kaplan micro-turbine | 475/18737 | 475/18737 | 453/17869 | | |
| TAO | Recreational purposes of Vltava river cascade and its economical | | | | | |
| T40 | potential under the climate change | 357/14070 | 395/15595 | 385/15169 | 346/13644 | |
| TAO | Development of Tools and methods improving Estimation of annual EvaporatioN balance | 296/11657 | 512/20197 | 207/8166 | | |
| TAO | Energy Efficiency of Buildings and Housing Affordability Regarding Its | | | | | |
| | Economics and nZEB Implementation | 480/18932 | | 414/16316 | | |
| TAO | Advanced and innovative processing technologies for strategic | | 3549/ 139995 | 3549/ 139995 | 3549/ 139995 | |
| TAO | utilization and storing of coal combustion products (CCPs) Microstructural modifications of self-compacting concrete to reduce | | 1904/ | 1904/ | 1904/ | |
| | formwork pressures | | 75089 | 75089 | | |
| TAO | Development of fibre optic measurement instruments for | | 1914/ | 2284/ | 2351/ | 2351/ |
| TAO | underground constructions and retaining structures Reducing material demands and enhancing structural capacity of multi- | | 75483 | 90079 | 92742 | 92742 |
| IAO | spiral reinforced concrete columns - advanced simulation and | | 2500/ | 2500/ | 2500/ | ł |
| | experimental validation | | 98619 | 98619 | 98619 | |
| TAO | Advanced design of structural joints/members by machine learning | | 1845/ | 1845/ | 1845/ | |
| TAO | Floor coverings on geopolymer basis | | 72781 1007/ | 72781 1283/ | 72781 1215/ | 72781 |
| 170 | Thou coverings on geopolymen basis | | 39719 | 50592 | 47929 | |
| TAO | Non-hazardous surfaces originated from recycled rubber granulate | | 1388/ | 1581/ | 1581/ | |
| | | | 54734 | 62377 | 62377 | 258/10158 |
| TAO | Machine Learning Approach Using Cloud Computing and Water Quality Prediction to Reduce Emmisions to the Water Ecosystems | | 657/25931 | 979/38613 | 958/37804 | |
| TAO | Water research center | | 037/23331 | 1408/ | 3350/ | |
| | | | 518/20414 | 55554 | 132160 | |
| TAO | Modelling the significance of pollution sources by phosphorus and | | | | | |
| | proposals for effective measures to meet the objectives of the Nutrient Reduction Strategy for the Elbe River Basin | | | 1100/ 43393 | 1200/ 47337 | - |
| TAO | Criterial method for evaluating the noise emission of expansion joints | | | 1438/ | 1463/ | |
| | after installation | | | 56706 | 57692 | 56706 |
| TAO | Optimization of bridge construction and durability, using new | | | | | |
| | composite solution for UHPC and conventional concrete, mineralized admixtures and secondary materials | | | 2150/ 84813 | 2230/ 87968 | |
| TAO | Recycling and transformation of construction plasterboard waste into | | | 1575/ | 1721/ | 1609/ |
| | new products for construction and value-added applications | | | 62130 | 67899 | 63462 |
| TAO | Development and research of advanced materials for the protection | | | 671/26460 | 676/26692 | 602/27240 |
| TAO | and repair of concrete structures Measures for reducing microbial contamination of the indoor | | | 6/1/26460 | 676/26682 | 693/27348 |
| | environments of low-energy and passive residential buildings and | | | | 1266/ | 1254/ |
| | extending their durability | | | 821/32396 | | |
| TAO | New generation sandwich constructions for increasing the safety of critical infrastructure objects | | | 2697/ 106402 | 2697 <i>/</i> 106402 | |
| TAO | Drywalls with high resistance to mechanical damage | | | 1518/ | 1613/ | 1575/ |
| | | | | 59893 | 63621 | |
| TAO | Development of sound-absorbing concrete for interior applications | | | 1425/ | 1414/ | |
| TAO | Integration of the monitoring system into protective barriers BALBAR | | | 56213 1778/ | 55779 1727/ | |
| 170 | and increase of their resistance | | | 70118 | | |
| TAO | KIDDON - A therapeutic combined disability children's wheelchair for | | | 2545/ | 2545/ | 2545/ |
| | 24/7 use in wide spectra of activities | | | 100385 | 100385 | 100385 |
| TAO | Diagnostics and quality evaluation of railway substructure with the help of georadar | | | 143/5632 | 796/31396 | 650/25636 |
| TAO | Extension of the HiStruct platform by optimisation of global stability | | | 2.0,0002 | . 55, 51550 | 355, 25550 |
| | and analysis of design combinations | | | | 675/26627 | 675/26627 |
| TAO | Development of pavement construction layers with optimized | | | | 670/26420 | 670/26420 |
| TAO | gradation to replace deficient aggregate fractions Use of mathematical methods for optimization of computational | | | | 070/20430 | 670/26430 |
| Ĺ | procedures for determining the capacity of spiral roundabouts | <u> </u> | <u> </u> | | 322/12702 | 368/14517 |
| TAO | Analysis of changes in the water regime | | | | | |
| | of land and watercourses in the territory of the Krkonoše National Park caused by the network | | | | | |
| | of land roads | | | | 95/3743 | 258/10183 |
| TAO | Implementation of a new technology of monolithic tunnel lining with | | | | 2408/ | 2533/ |
| | TBM in civil engineering | | | | 94970 | 99901 |



| TAO | Implementation of new methodological procedures in soil protection against erosion | | | | 450/17751 | 450/17751 |
|-----|--|-----------------|--------------------|-----------|--------------------|------------------------------|
| TAO | Updating concept of the tolerable soil loss from arable land | | | | | 855/33728 |
| TAO | System for defect and collapse state mitigation for line structures based on fiber-optic sensors | | | | 833/33720 | 2173, 85729 |
| TAO | Identification and monitoring of progressive corrosion and non- corrosion deterioration of steel bridges using IoT platform | | | | | 4654) 183606 |
| TAO | New generation carbon lamellas with enhanced fire resistance to reinforce existing structures | | | | | 1995, 78714 |
| TAO | Development of composite dowel bars combining a basalt core and polymer outer layer along with design guidelines of their applications in concrete payements | | | | | 2237, 88228 |
| TAO | Optimization of variable speed PAT | | | | | 2583, 101874 |
| TAO | Universal transport packaging with safety structures for the transport of radioactive waste, including non-solid ones | | | | | 1773, 69946 |
| TAO | Virtual prototyping for green concrete structural design–new multi- spiral reinforced concrete column and steel beam structures | | | | | 185, 7283 |
| TAO | Digital twin of Temelín NPP containment for aging management within LTO | | | | | 1020, 40237 |
| TAO | The use of solid alternative fuels to reduce the burden on the environment in the production of heat and electricity in traditional sources | | | | | 2751, 108510 |
| TAO | Research and development of a pontoon hydraulic modular system and a universal electric drive system for a pontoon system | | | | | |
| TAO | Adaptation of urban areas to flash floods and droughts | | | | | 960/37862 |
| TAO | Residents Owned Heat Cooperatives To Push Urban Decarbonisation | | | | | 185/7283 |
| TAO | Smart Regions - Buildings and Settlements Information Modelling, Technology and Infrastructure for Sustainable Development | 4721/ 186233 | | | | |
| EC | Ultralight load-bearing structure of the wheelchair for severely disabled children | 348/13745 | 485/19129 | | | |
| EC | New generation vibrating tables | 530/20907 | 161/6366 | | 1156/ 45609 | |
| EC | Research and development of new effective structural systems for ensuring stability of earth bodies | | | 582/22970 | | |
| EC | Ground Radar Interferometry for ensuring the critical energy infrastructure of the Czech Republic | | 131/7332 | 610/24071 | | 1614, |
| EC | Composite materials for the production of tempered paving elements with NOx degradation capability | | | 010/240/1 | | 543/21408 |
| EC | Development and optimization of a robust navigation system for | | | | | |
| EC | automated differential road milling using low-cost GNSS equipment Research and development of UHPC application for main structural elements of civil engineering structures in traffic | | | | 348/13/45 | 762/30040 5117, 201851 |
| EC | Development of complete software for design optimization and assessment of roof and ceiling structures. | | | | 000,000 | 1237, 48783 |
| EC | Development and Demonstration of monitoring strategies and technologies for geological disposal | | 677/26706 | | | 10700 |
| EC | Cement-based materials, properties, evolution, barrier functions | 431/17002 | 2136/ 84260 | | | |
| EC | Quality management for building performance - improving energy | 431/17002 | | | | |
| EC | performance by life cycle quality management Advanced Networking for Nuclear Education and Training and Transfer | | 143/5641 | 45/4044 | | |
| EC | of Expertise Multi-scale Composite Material Selection Platform with a Seamless Integration of Material Models and Multidisciplinary Design | | 340/13412 2060/ | 46/1811 | | |
| EC | Framework Innovative training schemes for retrofitting to nZEB-levels | | _ | 445/17564 | | |
| EC | Bentonite Mechanical Evolution | 1533/ | 169/6667 | | 225 15 | |
| EC | Soil Hydrology research platform underpinning innovation to manage | 60473 | 3120/ | | 900/35503 | 1740, |
| EC | water scarcity in European and Chinese cropping systems Setting up national qualification and training scheme for craftsmen in the Czech Republic and developing the further offer of training courses | | 123077 | | 918/36213 | 68639 |
| EC | in Slovakia, Austria and Bulgaria European Joint Programme on Radioactive Waste Management | | 1847/ | 1907/ | 260/10256 2596/ | 13920, |
| | , | | 72860 | 75236 | | |



| 5.0 | A CHUEVIANO MUDED LIDTAVE OF MATER CAMART COLLUTIONS (MUDED | | 0206 | | 4755 | 1604 |
|------|--|-----------|-----------|-----------|-----------|-----------|
| EC | ACHIEVING WIDER UPTAKE OF WATER-SMART SOLUTIONS (WIDER | | 9386/ | | 4755/ | 1684/ |
| | UPTAKE) | | 370256 | | 187574 | 66430 |
| EC | Towards effective radiation protection based on improved scientific | | 2008/ | | 1576/ | |
| | evidence and social considerations - focus on radon and NORM | | 79211 | | 62170 | |
| EC | Towards Improved Assessment of Safety Performance for LTO of | | 3810/ | | 1839/ | / |
| | Nuclear Civil Engineering Structures | | 150296 | | 72544 | 855/33728 |
| EC | Macro and Microplastic in Agricultural Soil Systems | | | 4251/ | | |
| | | | | 167700 | | |
| EC | An experimentally-validated multi-scale materials, process and device | | | | | |
| | modeling & design platform enabling non-expert access to open | | | 4508/ | | 2281/ |
| | innovation in the organic and large area electronics industry | | | 177823 | | 89980 |
| EC | Constructionskills project on EE with Circular Construction Skills as a | | | | | |
| | Driver | | | 915/36090 | | 115/4536 |
| EC | Transforming Unsustainable management of soils in key agricultural | | | | | |
| | systems in EU and China. Developing an integrated platform of | | | 8324/ | | 4148/ |
| | alternatives to reverse soil degradation | | | 328383 | | 163629 |
| EC | The Integrator-centric approach for realising innovative energy | | | | 4280/ | |
| | efficient buildings in | | | | 168836 | |
| EC | Build up Skills (BUS) initiative in CZ and SK - Rebooting the National | | | | | |
| | qualification platforms and Roadmaps towards implementation of | | | | | |
| | nearly Zero Energy Buildings and support for Renovation Wave | | | | 462/18225 | 772/30454 |
| EC | Valorisation of knowledge for European pre-QUALified steel JOINTS | 604/04645 | | 404/7406 | | |
| | | 624/24615 | | 181/7126 | | |
| EC | Steel cladding systems for stabilization of steel buildings in fire | 1546/ | | 1001/ | | |
| | | 60986 | | 39484 | | |
| EC | Valorisation of knowledge for FREE from DAMage steel connections | | 444/17515 | 92/3646 | | 451/17791 |
| EC | Mitigation of the risk of progressive collapse in steel and composite | | , | • | | , |
| | building frames under exceptional events | | 235/9270 | 5/209 | 314/12387 | |
| EC | Fire and Seismic performances of Hybrid fire WALLs in case of single- | | ,- | | , | |
| | storey industrial and commercial steel buildings | | | 667/26326 | | 451/17791 |
| EC | Accompanying measure for Dissemination, Valorisation and | | | 001/20020 | | .01/17701 |
| | Collaborative Exploitation of circularity of constructional steel products | | | | | 357/14083 |
| ESA | Support for Galileo/EGNOS Performance Monitoring Activities | | | | | |
| | | | | | | 218/8600 |
| ОТН | EGNOS Service Performance Monitoring Support | | | | | 299/11795 |
| ОТН | Soil erosion in Austria - from mean to extreme | | | | | 68/2682 |
| ОТН | Metrology for multi-scale monitoring of soil moisture | | | | | 803/31677 |
| | | | | | | 555/510// |
| Tota | .l | 87875/ | 98382/ | 98041/ | 99935/ | 3051063/ |
| 1010 | | 3434227 | 3880966 | 3867490 | 3942206 | 120357527 |

Table 3.3.2 - Contract research activities

| Client ²⁸ | Activity name | Revenue (i | evenue (in thousands CZK/EUR) | | | | |
|----------------------|--|------------|-------------------------------|-----------------|-----------------|-----------------|--|
| | | 2019 | 2020 | 2021 | 2022 | 2023 | |
| SÚRAO | Engineering barriers - fillings, plugs - long-term research in deep storage | | | | 6885/ 271583 | 3667/ 144636 | |
| SÚRAO | Interactive physical models in-situ in PVP Bukov | 1935/ | | | 2695/ | 3395/ | |
| | | 76331 | 443/17493 | 298/11759 | 106327 | 133914 | |
| Správa | Diagnostics and static assessment of bridges with prestressed | | 3904/ | 3926/ | | | |
| železnic | load-bearing structures in the district of Prague Municipal Office | | 154005 | 154870 | | | |
| SÚRAO | Dismantling in-situ experimentu MOCK-UP-JOSEF | | | | | 5470/ | |
| | | | | | 229/9015 | 215793 | |
| Správa | Diagnostics and static assessment of bridges with overstressed | 2607/ | 2883/ | | | | |
| železnic | supporting structures | 102833 | 113735 | | | | |
| PBS GROUP | Bezděkov Castle near Klatovy | 1295/ | 3515/ | | | | |
| | | 51088 | 138652 | | | | |
| Správa | Safety monitoring of the bridge at km 3.706 on the track section | | 1501/ | | 1348/ | | |
| železnic | Prague Vyšehrad-Vyšehrad | | 59226 | 822/32421 | 53166 | 220/8672 | |
| AKIT | Development of FFP2 respirators with an emphasis on material properties and ergonomics | | | 3798/ 149840 | | | |

 $^{^{\}rm 28}$ If the client is from abroad, indicate in brackets the country of origin of the client.



| Správa | Diagnostic survey and access to critical points on the bridge - | 1 | _ | _ | | 1 |
|--|---|----------------|----------------|------------|-----------|----------------|
| železnic | railway bridge at km 3.706 on the Prague Vyšehrad-Vyšehrad | | | | | 3600/ |
| zelezilic | railway section | | | | | 142004 |
| PDC Group | Development of composite materials using recycled waste (PET) | | | 3513/ | | 142004 |
| BPC Group | Development of composite materials using recycled waste (PET) | | | 138580 | | |
| Cnráva | Monitoring, diagnostics and static assessment of the bridge ev. | | | 1151/ | 1075/ | 1244/ |
| Správa železnic | km 35,529 on the line Brno - H.Brod | | | 45409 | 42405 | 49069 |
| | , | | | | | 49009 |
| Hlavní | Analysis of the Botič area with a significant flood risk within the | | | 1360/ | 2048/ | |
| | territorial jurisdiction of Prague | | | 53636 | 80794 | |
| SÚRAO | DOPAS - EPSP experiment, extension of operation | | 1101/ | 1287/ | | |
| | _ | | 43432 | 50769 | 124/48/2 | 507/19984 |
| GEOSAN | Expert survey | | 3000/ | | | |
| GROUP | | | 118343 | | | |
| STRABAG | Modernization of the Veselí n.L. line - Doubí u Tábora, 2nd stage | | | | 2398/ | |
| RAIL | Soběslav - Doubí | | | | 94614 | 173/6810 |
| | Construction and testing of a physical model to evaluate actual | | | | | |
| | surf wave function | | | 2500/ | | |
| (USA) | | | | 98619 | | |
| ProSpon | Device for controlled lengthening of long bones | | | 722/28481 | 900/35512 | 745/29393 |
| Letiště | Construction technology. assessing the resistance of buildings | | | | | |
| Václava | from the point of view of statics and the dynamic effect of the | | | 1688/ | | |
| Havla Praha | shock wave | 373/14723 | 46/1825 | 66571 | | |
| Tilian | Prague voucher for IP - Comprehensive system of manual | | | 2003/ | | |
| | purchase and selection of logs | | | 78996 | | |
| S20 DESIGN | Construction and testing of a physical model to evaluate actual | | | | | |
| | surf wave function | | | 1900/ | | |
| (USA) | | | 100/3961 | 74935 | | |
| Hlavní | Creation of a document - Standardization of rainwater | | 1320/ | | | |
| | management in the metropolitan area. of Prague | | | 660/26032 | | |
| Technická | Material and production analysis of bonded and steel welded | | 32003 | 000, 20002 | | |
| správa | and bolted structures on bridge structures according to the | | | | | 1963/ |
| komunikací | contract | | | | | 77420 |
| SÚRAO | MOCK-UP-JOSEF experiment - continuous monitoring and | | 1932/ | | | 77420 |
| BONAC | evaluation of in-situ loaded bentonite layer | 0/0 | | | | |
| Ředitelství | Bělov lock - physical hydraulic model research of the lock | 0,0 | 70134 | | | |
| vodních cest | | | | | | 1653/ |
| ČR | | | | | 256/10085 | 65205 |
| GEOSAN | Revision assessment of final thesis | | | | 230/10083 | |
| | Revision assessment of final triesis | | | | | 1899/ |
| GROUP | Discounting and a sector letter and following the best first transfer to the | | | | | 74911 |
| Správa *-li- | Diagnostics and recalculations of strategic bridging in the district | | | | 440/46170 | 1430/ |
| železnic | of the Ostrava Regional Office - I. stage | 076/04560 | 004/06440 | | 410/16179 | 56405 |
| SÚRAO | Design and production of a mixture of bentonite pellets 2 | 8/6/34563 | 924/36443 | | | |
| Technická | Conducting a diagnostic survey of the Čech bridge | | | | | |
| správa | | | | 1281/ | | |
| komunikaci | | | 514/20291 | 50518 | | |
| ALIMEX | Centralized integrated automated system of online continuous | | | 1239/ | | |
| S.R.O. | long-term monitoring of building objects | | 511/20148 | 48885 | | |
| Ředitelství | D47(motorway) fault analysis Skrečoň - Bohumín bypass | | | | | |
| silnic a | | | 1633/ | | | |
| dálnic | | | 64418 | | | |
| Velvyslanect | Embassy of Japan reconstruction project | | | | | 1626/ |
| ví Japonska | | | | | | 64149 |
| Technická | Analysis of the condition of steel riveted bridges and structures | | | | | |
| správa | TSK Praha | | | | | |
| komunikací | | | 631/24898 | 964/38021 | | |
| | Development of the methodology for the static design and | | | | | |
| Ředitelství | | 4560/ | | | | |
| Ředitelství silnic a | assessment of the underground work - tunnel section | 1563/ | | | | |
| | | 1563/ 61665 | | | | |
| silnic a | | - | | | | |
| silnic a dálnic | assessment of the underground work - tunnel section | - | 1550/ | | | |
| silnic a dálnic Technická | assessment of the underground work - tunnel section Hlavakaś bridge in Prague - assessment of the effect of | - | 1550/ 61144 | | | |
| silnic a dálnic Technická správa | assessment of the underground work - tunnel section Hlavakaś bridge in Prague - assessment of the effect of temperature and recommendations for the reconstruction project | 61665 | | | | 1499/ |
| silnic a dálnic Technická správa komunikací | assessment of the underground work - tunnel section Hlavakaś bridge in Prague - assessment of the effect of temperature and recommendations for the reconstruction | 61665 | | | | • |
| silnic a dálnic Technická správa komunikací GEOSAN | assessment of the underground work - tunnel section Hlavakaś bridge in Prague - assessment of the effect of temperature and recommendations for the reconstruction project Final thesis no. 340-23 - FN Motol, Modrý pavilon - price changes and effects of the event | 61665 | | | | • |
| silnic a dálnic Technická správa komunikací GEOSAN GROUP | assessment of the underground work - tunnel section Hlavakaś bridge in Prague - assessment of the effect of temperature and recommendations for the reconstruction project Final thesis no. 340-23 - FN Motol, Modrý pavilon - price changes | 61665 | 61144 | | 488/19234 | 1499/ 59132 |
| silnic a dálnic Technická správa komunikací GEOSAN GROUP | assessment of the underground work - tunnel section Hlavakaś bridge in Prague - assessment of the effect of temperature and recommendations for the reconstruction project Final thesis no. 340-23 - FN Motol, Modrý pavilon - price changes and effects of the event Research on the biodegradation of asphalt concrete in the | 61665 | 61144 | 968/38197 | 488/19234 | |



| COO DECICNI | Woodfin Whitewater Ways on the French Dread Diver | 1 | 1 | ĺ | Ì | í I |
|--------------------|--|----------------|-----------|-----------|-------------|--------------|
| AND ENGIN. | Woodfin Whitewater Wave on the French Broad River | | | | | |
| (USA) | | | | | 952/37568 | 474/18684 |
| · ' | Static calculations of railway bridge structures in the area of the | | | 1407/ | 332/37300 | 17 1/ 1000 1 |
| | Brno Regional Office | | 5/193 | 55492 | | |
| GEOSAN | Kladno General Hospital - reconstruction of block C2 | | | | | 1400/ |
| GROUP | | | | | | 55227 |
| | Verification of SMA technology for strengthening the bridge - | | | | | |
| | Desná in the village of Petrov nad Desnou | 1376/ | | | | |
| dálnic | | 54284 | | | | |
| | Advanced solution for steel halls | | | | | |
| ENGINEERIN G | | | | /21/17007 | 889/35064 | |
| | Reconstruction of the bridge at km 21,502 of the Rumburk | | | 431/17007 | 889/33004 | |
| železnic | (outside)-Sebnitz (DBAG) line | | | 699/27594 | 402/15876 | 124/4891 |
| PONTEX | Carrying out diagnostics of bridges serial no. DO-2051, DO- | | | 033/2703 | 102/100/0 | 1055/ |
| | 2052, DO-2071 and DO2072 | | | | 156/6164 | 41600 |
| PONTEX | Řehlovice Bridge | | 215/8486 | 991/39108 | | |
| Krajská | Děčín Hospital - new Emergency pavilion | | | | | 1190/4694 |
| zdravotní | | | | | | 3 |
| RČVUT | Research support for deep storage project solution - ZL010 | | 1141/ | | | |
| | | 27/1075 | 44992 | | | |
| | ocessing of an expert opinion on the issue of the load capacity of | | | | | |
| | the bridge SO A210 Prackovick flyover on the construction site | | | | 574 /005 40 | / |
| dálnic | D8 0805 | | | | 5/1/22543 | 579/22822 |
| | Independent expert opinions on individual investment actions implemented within the NPO | | | | 191/7120 | 922/36390 |
| | d1(motorway) - detailed diagnostic survey of the bridge item no. | | 1100/ | | 101//129 | 922/30390 |
| PRAHA | D-147(motorway) | | 43393 | | | |
| Inženýring | Expert opinion | | 13333 | | | |
| dopravních | | | | 1090/4301 | | |
| staveb | | | | . 8 | | |
| Povodí Ohře | Study of complex water management. balance of heating | | | | | |
| | residual pits after the end of brown coal mining in the Ústí | | | | | |
| | Region | 46/1826 | 986/38884 | | | |
| | Operation of the MOCK-UP-JOSEF experiment and provision of dismantling cooperation | | | | 1015/4003 | |
| Technická | Technical cooperation for the use of UHPC in the reconstruction | | | | , | |
| | of the Barrand bridge | | | | | |
| komunikací | | | | | 680/26821 | 320/12627 |
| | Preparation of sheets of measure A sites of agricultural pollution | 994/39210 | | | | • |
| Velvyslanect | Feasibility study for the renovation of the embassy building | | | | | |
| ví Japonska | | | | | 994/39199 | |
| OHLA ZS | Modernization of the line Sudoměřice - Votice, SO 73-20-10, 13, | | | | | |
| | 14 | | | 314/12394 | 256/10089 | 423/16685 |
| Správa | Contract for work | | - 1- | | | |
| železnic | | | 0/0 | 990/39045 | | |
| SÚRAO | Ensuring the operation of the Experiment for the necessary time | | | | 005/20044 | |
| Povodí | and providing the necessary cooperation | | | | 985/38844 | |
| Vltavy | Determining the extent of the Úhlava floodplains | 956/37695 | | | | |
| | Research support for security evaluation of technical solutions of | | | | | |
| OJV NCZ | deep storage | | | | 245/9656 | 688/27140 |
| ADELARDIS | Processing of project documentation at the level of DSP, PDPS | | | | 2 13/3 030 | 000,272.0 |
| | for the implementation of the repair of the North-South bridge | | | | | |
| | in the area of PZ Škoda in Pilsen | | 448/17688 | 464/18288 | | |
| POHL CZ | Opatovice-bridge, Waagner Biro - experimental and expert | | | | | |
| | activity | | | | | 899/35480 |
| GEOSAN | Expert evidence | | | _ | | |
| GROUP | | | | 890/35108 | | |
| | Evaluation of the real estate of the ŘSD CR on the basis of price | | | | | |
| silnic a | indicators | | | | 002/24702 | |
| dálnic Správa | Long torm monitoring of the treet colution of the builder of the | | | | 882/34793 | |
| Správa železnic | Long-term monitoring of the track solution of the bridge at km 32.544 on the line Ostrava Kunčice - Ostrava Vítkovice | | | | 124/4001 | 756/29835 |
| | VD Hostivař, capacitation of the safety overflow, physical model | | | | 124/4301 | 130123033 |
| město Praha | | 864/34084 | | | | |
| coto i iuila | | 1 22 1/ 2 7004 | | <u> </u> | | |



| TSK | Expert activity in the framework of the design of the |] | | | | |
|---------------------|--|-----------|-----------|------------------------|-----------|-------------|
| | strengthening of the supporting structure of the Bridge in ul. | | | | | |
| | Průmyslové X512.3, no. action 1000107 | | | | | 853/33667 |
| - | Děčín Hospital - new Emergency pavilion including operating | | | | | |
| | theatres, sterilization center and ICU | | | | | 810/31949 |
| | Reconstruction of the bridge Kaštice - Kadaň | | | 000/21015 | | |
| SERVIS ČEZ | Research on the stability conditions of the slopes of the residual | | | 809/31915 | | |
| | pit and the future lake | | | | | |
| produkty | pit and the luture lake | | | 263/10357 | 537/21201 | |
| Sweco | Dam Pařížov, reconstruction of lower dike outlets + MVE | | | 203/10337 | 337/21201 | |
| | reconstruction and modernization | | 800/31558 | | | |
| Centrum | Diagnostic survey of the Ostrovské bridge in Karlovy Vary | | | | | |
| dopravního | | | | | | |
| výzkumu | | | | 800/31542 | | |
| FIRESTA- | Static and dynamic load test of the bridge | | | | | |
| Fišer | | | 795/31361 | | | |
| Správa | Diagnostics and static assessment of bridges at the Ústí nad | | | | | |
| železnic | Labem Municipal Office 2021 | | | 0/0 | 787/31026 | |
| | Research and consulting services in the development and | | | | | |
| | implementation of the production of 3E asphalt mixture | | | | | |
| E BOHEMIA | | 520/20513 | 250/9862 | | | |
| ÚJV ŘEŽ | Exp. assessment of gas permeability of deep storage engineering | 770/2025 | | | | |
| VALALIE | barriers | 770/30356 | | | | |
| KNAUF INSULATION | Durability testing of adhesive tapes | | | 759/20000 | | |
| | Exptert evidence | | | 758/29909 750/29586 | | |
| | A study of the economic benefits of linking Lake Libous and the | | | 730/23360 | | |
| Sweco | Nechranice reservoir | | | | | 744/29330 |
| Škoda Auto | Evaluation of microclimatic conditions | 735/28974 | | | | 711/23330 |
| Česká | Methodology for calculating the unit price of typified types of | 700/2007 | | | | |
| | buildings and indexation values for selected purpose-built | | | | | |
| | buildings | | | | 670/26430 | 60/2367 |
| Česká | Assessment of the crack width of the wall of the cooling tower | | | | | |
| geologická | and the storm water ditch in Bruntálsk | | | | | |
| služba | | | 5/209 | 175/6906 | 550/21682 | |
| | Shell element for solving plastic containers | | | | | |
| ENGINEERIN | | | | | | |
| (DEU) | English to the terms and of the destruction | | 714/28172 | | | |
| SUDOP | Expert activity in the framework of the design of the reconstruction of arched bridges SO 201 and SO 202 | | | | | 702/27707 |
| Statutární | Measurement and analysis of the contribution of vibrations from | | | | | 702/27707 |
| město | the tram line at ul.28. October in Ostrava | | | | | |
| Ostrava | | | | 700/27613 | | |
| ČEZ | Hydraulic conditions in the forefield of the inlet to the suctions | | | | | |
| | of reversible systems | | | | | 692/27298 |
| GEOSAN | expert activity | | | | | |
| GROUP | | | | 691/27254 | | |
| Správa | Static recalculation and determination of the load capacity of the | | | | | |
| | bridge - line Hanušovice - Staré město | | | 0/0 | 670/26430 | |
| GEOSAN | Project Modernization D1(motorway), section 12 | | | | | |
| GROUP | | 650/25641 | | | | |
| STRABAG | Long-term monitoring SO 91-20-01 Railway bridge over the Elbe | | | | 422/4040 | E4.C /202E3 |
| RAIL | Water management solutions for the ČSA and Vršany residual pit | | | | 123/4849 | 516/20357 |
| Povodi Onre | sites in relation to other residual pits | | | 47/1960 | 586/23125 | |
| RFB | Impact assessment carried out at VD Ružbašská Milava | 625/24641 | | 47/1803 | 360/23123 | |
| | Support for water retention in the landscape - ponds and water | 023/24041 | | | | |
| zemědělství | | 5/196 | 283/11150 | 329/12959 | | |
| | Experimental tests | -, 250 | , | , | | |
| Enineered | | | | | | |
| Prod.(NLD) | | | | | | 609/24013 |
| | Research and development of a modular mobile diagnostic | | | | | |
| | station for the installation and testing of aircraft components | | | | | |
| G | | | | | 512/20210 | |
| | Physical model research of the lock - Kamýk nad Vltavou | | | 600/23669 | | |
| STRABAG ČR | Multifunctional football stadium Hradec Králové |] | | | | 600/23665 |



| DELABOS Diagnostic survey - North-South bridge in the area of PZ Sodal in Piles on Historia of Part of | Povodí Labe | Krounka, Kutřín, polder construction - verification of the basic properties of concrete | 599/23625 | | | | |
|--|--------------|---|-----------|-----------|-----------|-----------|------------|
| pictival elerinic ele | ADELARDIS | Diagnostic survey - North-South bridge in the area of PZ Škoda in | | | | | |
| elezric unnest, long-term monitoring and data evaluation 531/20951 39/1558 EZZ Assessment of analysization conditions by mathematical modeling after the implementation of the plan "Modernization of EOR TG-1 TG-8" 557/21964 South of the property of the many state of the plan "Modernization of EOR TG-1 TG-8" 557/21964 South of the property of the prop | Správa | | 332,2333 | | | | |
| after the implementation of the plan "Modernization of EOR TG-T-Ga" | železnic | | | | 531/20951 | 39/1558 | |
| TIGLITGA** Word of Morawy Machine Systems of VD Skalička variant evaluation Morawy Machine Systems of VD Skalička variant evaluation Systems of Systems of VD Skalička variant evaluation Systems of Systems | ČEZ | Assessment of navigation conditions by mathematical modeling | | | | | |
| Nouticriteria analysis of VD Skalička variant evaluation 5/180 54/2127 497/19587 1. | | after the implementation of the plan "Modernization of EOR | | | | | |
| Morawy spert evidence plopravinish carbon manifering polyments tave by the precision control of the process of | | | | | | 557/21964 | |
| Despire vidence logical control of the bridge in Loket state of the indoor summing pool kuriah Brassage with a | Povodí | Multicriteria analysis of VD Skalička variant evaluation | | | | | |
| loprawnich atweb FESIA Static recalculation of railway bridges 2021 SESIA SESIA STAYER File Static static with and establishment of erosion monitoring of target odonhospod locations Fisky STAYER SESTAVER SESTAVER SEPORT evidence SESIA SESTAVER SESTAVER SESTAVER SESTAVER SEQUENCY SESTAVER SESTAVER SESTAVER SEQUENCY | Moravy | | 5/180 | 54/2127 | 497/19587 | | |
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| out a diagnostic survey 483/19053 | železnic | | | | 485/19132 | | |
| | TSK | | | | | | |
| [SK Carrying out a diagnostic survey of the bridge X-5141,2 (Zelivka) 478/18856 | | | 483/19053 | | | | |
| | TSK | Carrying out a diagnostic survey of the bridge X-5141,2 (Želivka) | | 478/18856 | | | |



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|------------------------------|--|-----------|-----------|-----------|-----------|-----------|
| | Diagnostics and recalculations of strategic bridging in the area of the OŘ Prague - Stage II | | | | | 476/18770 |
| Metrostav Infrastuctur | Monitoring WT - highway D2 - repair of Ladná rest stop - left | | 136/5356 | 340/13394 | | |
| AirView | Development of an online software application for working with data | | 130/3330 | 475/18745 | | |
| ČEZ | Revision of technical calculations, summary reports for EDS locations, ESL methods of flow measurement, consultation | | | • | 470/18540 | |
| TSK | Conducting major bridge inspections of bridges after repair | 469/18501 | | | | |
| TSK | V-028 bridge to Císařská louka, carrying out a diagnostic and corrosion survey | · | 463/18264 | | | |
| ÚJV Řež | Transport of radionuclides from storage-Transport3 | 456/17996 | | | | |
| TSK | X540 Wilsonova - assessment of the load capacity and condition of the anchor seats of VO masts | | 452/17830 | | | |
| G L ARCHITE | Verification of the shape solution of the pools of the Arctic | | 432/17030 | | | |
| KTI | Exposition of the Prague Zoo | 450/17751 | | | | |
| Kanska | Multi-generation inactive trackers | | 448/17683 | | | |
| TSK | Carrying out extraordinary inspections of bridges according to the contract | | | 444/17507 | | |
| WATRAD | Multi-generation inactive trackers | 440/17357 | | | | |
| The Steel | Structural tests of stainless steel profiles | | - | | | |
| Constructio n Inst. (GBR) | | | | 15/585 | 424/16738 | |
| AQUATIS | VD Kryry - pre-project preparation | | | | 430/16963 | |
| TECHTEST | Footbridge at the Švihov reservoir | | | | 20/799 | 405/15994 |
| Fakulta | Processing of an expert opinion on the FD's expert opinion | | | | | |
| dopravní ČVUT | | | | | 422/16663 | |
| | Amendment of TKP SSD Chapter 18 - Concrete bridges and | | | | , | |
| železnic | structures | | 0/0 | 420/16568 | | |
| | Design work - North-South bridge in the area of PZ ŠKODA in | | | | | |
| TINTĚRA | Pilsen | | | 410/16174 | | |
| LIKAL | Design and development of quality control of composite mandrels - defectoscopic part of the line verifying the uniformity | | | | | |
| | of the coating on the steel core of the mandrel | | | | | 409/16115 |
| FUTTEC | Professional consultation - 3D photogrammetric scanning of holes, proposals for structural solutions | | 405/15975 | | | |
| ČEZ | Analysis of the Gibson method at the Dlouhé stráně and Slapy power plants | | · | 400/15779 | | |
| Sweco | Project documentation of the Arctic - polar bears exhibition | | | 400/13773 | | 400/15779 |
| | Revision expert examination - time to move the date of | | | | | 400/13773 |
| | handover of the construction Exposition of lions, gibbons and ungulate macaques | | | | | 399/15740 |
| Hlavní | expert evidence | | | | | 333/13740 |
| město Praha | expert evidence | | 398/15700 | | | |
| | Professional expertise - assessment and answering of the range | | - | | | |
| | of questions according to the assignment | | | | | 398/15700 |
| | Surveys - Tram garage Strešovice - ships II, III and IV | | | | | 396/15611 |
| ROECHLING ENGINEERIN | Creation of Work and License Agreement | | | | | |
| ENGINEERIN (DEU) | | 394/15555 | | | | |
| FIRESTA | Repair of bridge structures on the Brno-Jihlava line, bridge at km | 394/13333 | | | 200/45206 | |
| cı´up | 56,462 Evaluation of the effect of a forced ventilation system with an | | | | 390/15396 | |
| SÚJB | enthalpy heat exchanger on the value of the volume activity of | 204/45460 | | | | |
| SÚRAO | radon in buildings | 384/15160 | | 202/15050 | | |
| | Ensuring the operation of the MOCK-UP-JOSEF experiment Diagnostic survey of the footbridge at the Podebrady power | | | 382/15058 | | |
| ı. elektrárensk , | , | | | 200/4422 | 0.4/0.50 | |
| a C4D | December 1 and 1 a | | | 280/11062 | 94/3698 | |
| G4D | Prague voucher for Innovation projects - Creation of 3D virtual models | | | 370/14596 | | |
| GISAT | Development of the satellite radar interferometry method for | | | | | |
| | the detection of distributed reflectors from time series of satellite measurements | | | 368/14517 | | |
| | | | | ,-131/ | | |



| NEN (NLD) | Development of new Eurocodes "Grant Agreement |] | | | | |
|---|--|------------|-----------|-----------|-----------|-----------|
| , | SA/CEN/GOW/EFTA/515/2017-08" | 50/1954 | 14/556 | 301/11859 | | |
| Skanska | Conducting tests - verification of new cements for CBK concretes | | | | 77/3037 | 287/11307 |
| Považská | Demonstration of increased fire resistance of H-CEMENT for fire | | | | | |
| cementáreň | P. | 363/14317 | | | | |
| S20 DESIGN | Construction and testing of a physical model to evaluate actual | | | | | |
| AND ENGIN | surf wave function | | | | | |
| (USA) | | | 360/14201 | | | |
| SUPER- | geodetic survey of the bridge and forecourt, DSPS, ML, HMP | | | | | |
| KRETE | | | | | | |
| CZECH | | 28/1085 | 333/13116 | | | |
| ÚJV Řež | Research support for safety assessment of deep. storage- | | | | | |
| | Transport 8 | 350/13795 | 10/391 | | | |
| SUDOP | Construction engineering survey for recalculation of existing | | | | | |
| PRAHA | steel bridges | | | 357/14085 | | |
| PROSPON | Application - dental | 351/13846 | | | | |
| VPÚ DECO | Diagnostic survey - I/26 Sulkov | 0.47/40676 | | | | |
| PRAHA | T. D. 147 | 347/13676 | | | | |
| Povodi Ohre | The Dam Křímov - 3rd operational closure SV DN 800 - | | | | | |
| | processing of hydrotechnical calculations - measurement curve | | | | | 244/12570 |
| Challaddan' | of safety overflows and broth function - top-up | | | | | 344/13570 |
| Statutární | Expert opinion on the construction and technological state of the | | | | | |
| město Liberec | municipal swimming pool in Liberec | | | | 338/13318 | |
| Euro GV | Prague voucher for Innovation projects - Measurement in the | | | | 338/13318 | |
| Euro Gv | field, implementation of data into BIM | | | 338/13314 | | |
| TSK | Y 509 Bohdalec - carrying out an extraordinary bridge inspection | 0/0 | 337/13294 | 330/13314 | | |
| Ústav | Analysis of retention curves of delivered samples for pedological | 0/0 | 337/13234 | | | |
| výzkumu | probes from the Želivka basin | | | | | |
| glabální | probes from the Zenvka basin | | | | | |
| změny | | | | 333/13138 | | |
| Kloknerův | Diagnostic survey of bridges | | | 333/13130 | | |
| ústav | and the second s | | 325/12821 | | | |
| Krajská | Engineering and consulting activities | | 0 - 0 / 0 | | | |
| správa silnic | | | | 323/12730 | | |
| FIRESTA | Revision expert examination - embankment in Ostrava | | | • | | 320/12623 |
| DIPONT | Reconstruction of the bridge at km 118,121 - Stará Paka - Liberec | | | 1/32 | 319/12575 | |
| DIAMO | expert evidence | | 319/12584 | , | | |
| FIRESTA | Exploratory and static works - reconstruction of the bridge in km | | | | | |
| | 21.502 of the Rumburk - Sebnitz line | | 314/12370 | | | |
| PONTEX | Diagnostics and recalculations of strategic bridging in the district | | | | | |
| | of OŘ Plzeň - II. phase | | | | | 310/12224 |
| KERAMOST | Testing the Bentonite product PressBent | | | | 304/11992 | |
| Letiště | Geological survey and static assessment of the APC facility, | | | | | |
| Václava | Prague Ruzyně Airport | | | | | |
| Havla Praha | | | | 300/11834 | | |
| Správa | Complex search processing | | | | | |
| železnic | | | | | 300/11834 | |
| TechSim.Lab | Providing knowledge to support the development of software for | | | | | |
| S | monitoring production machines | | | 300/11834 | | |
| GEOSAN | Expert opinion - FN Plzeň project, construction of a new | | | | | |
| GROUP | Psychiatric Clinic pavilion | | | | 300/11826 | |
| Povodí | Processing of maps of hydrotechnical characteristics of Úhlava | | | | | |
| Vltavy | | 299/11795 | | | | |
| Povodí | Update of ZU Mladoticky stream in km 0.0-12.9 | | 004/::== | | | |
| Vltavy | | 5/205 | 294/11590 | | | |
| | expert evidence | | | | | |
| Centrum | | | 200/4472 | | | |
| sdíl.služeb | DXX/- I/V/D | | 299/11787 | | | |
| Povodí Labe | | | 298/11740 | | | |
| | Elaboration of a study of the use of hydropower potential of | | | | | |
| | waterworks facilities | | | | | 207/11712 |
| spol. | Mossurement and avaluation of conflict and avaluation | | | | | 297/11712 |
| PIPELIFE | Measurement and evaluation of capillary systems | | | 205/11627 | | |
| CZECH | Study of water management measures - Spa forests of Karlovy | | | 295/11637 | | |
| Statutární město | , | | | | | |
| mesto Karlovy Vary | Vary | | | 21/1210 | 264/10418 | |
| kanovy vary | <u> </u> | <u> </u> | | 31/1219 | 204/10418 | |



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| Škoda Auto BRAND 2022 TH bei optimal.Steuerung 240/9448 | | | | | | | |
| | | | | 4-U/ 3434 | | 240/9449 | |
| | | Analysis of steel samples from V450 and V052 line masts | | | | 239/9424 | |



| Röchling Implementation of the RITA-CHOLMOD inte | | | | | | |
|---|------------------------|----------|------------|----------|----------|----------|
| Industrial SE | itace | | | | | |
| (DEU) | | | | | | 238/9389 |
| TSK Carrying out a diagnostic survey to verify the concrete of the bridge deck slab - Křížová | e condition of the | 238/9389 | | | | · |
| Ředitelství D11(motorway) 1108 Jaroměř - Trutnov sec | urity audit | | | | | |
| silnic a dálnic | | | 235/9282 | | | |
| Sweco Assessment of the SVL distribution facility in ÚČOV - reconstruction of the existing water | | | | 235/9269 | | |
| Ředitelství Technical inspection of roads I/33 and I/37 i | n connection with | | | | | |
| silnic a the opening of the D11 highway dálnic | | | | 235/9254 | | |
| TENSAR Measurement of laboratory models of a me | chanically stabilized | | | | | |
| INTERNATIO layer with geogrids NAL | | | 233/9191 | | | |
| Ředitelství D11 (motorway)1109 Trutnov - state border | · CR/PR security audit | | | | | |
| silnic a | | | 224 (24.22 | | | |
| dálnic VP The dam Křímov - reconstruction and capaci | | | 231/9103 | | | |
| Projekting waste trough and Img profile | | | | 93/3663 | 137/5410 | |
| Agentura Study - method of determining the retention | n potential of water | | | | | |
| ochrany retention measures in the landscape přírody a | | | | | | |
| krajiny | | | | | | 230/9073 |
| TENSAR Measurement of railway construction with r | nultiaxial geogrid | | | | | , |
| INTERNATIO NAL | | | | 230/9073 | | |
| TENSAR Measurement of Geogrid 190L sample | | | | 230/30/3 | | |
| INTERNATIO NAL | | | | 230/9073 | | |
| TENSAR Measurement of the railway structure without | out a geogrid under | | | | | |
| INTERNATIO the track bed NAL | | | | | 230/9073 | |
| TENSAR Measuring railway structure and NXLA geog | rids under the track | | | | • | |
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| TENSAR Measuring railway structure and NXLA geog | rids under the track | | | | | |
| INTERNATIO bed | | | | | | |
| NAL | Dlavih é akué a ¥ | | | | 230/9073 | |
| ČEZ Revamping of the mathematical flow model power plant | | | | 225/8876 | | |
| Jan Šinták MVE Liběchov - measurement of water beha with evaluation | | | | | 225/8876 | |
| Ředitelství Assessment of cost-significant bridge object | s of construction D35 | | | | | |
| silnic a Staré město - Mohelnice dálnic | | | 224/8840 | | | |
| Vodohosp. Territorial study of the landscape - Pilsen | | | , | | | |
| rozvoj a | | | | | | |
| výstavba | l. 550 0700 | 224/8836 | | | | 224/222 |
| AFRY CZ Research support - update of findings relate PONTEX Measurement of 3D deformations in a trio of | | | | | | 224/8830 |
| Nebozízek locality | 00 | | 32/1256 | 64/2513 | 64/2513 | 64/2513 |
| Stavby Expert opinion statetech. state of the bridgmostů Prackovice | ge structure - | | | 220/8679 | | |
| Ředitelství Consulting and advisory activities in the field | d of design, | | | | | |
| silnic a implementation and operation of roads dálnic | | | | | 219/8619 | |
| Ředitelství Independent control and supervision I/29 Po | odolsko, bridge ID no. | | | | -, 5025 | |
| silnic a 29-003 | , | | | | | |
| dálnic | | 0/0 | 25/990 | 89/3516 | 47/1838 | 57/2238 |
| Ministerstvo Processing and evaluation of the physical be pro místní building | havior of the model | | | | | |
| rozvoj | | | | | | 207/8166 |
| TSK X005 footbridge Královka - carrying out a co | rrosion survey, | | | | | |
| recalculation of load capacity | | | 207/8166 | | | |



| University of | Numerical solver for particle models | | ĺ | ĺ | ĺ | ĺ |
|--|---|----------|----------|----------------------|----------------------|----------|
| Natural Res. | ivalifier car solver for particle models | | | | | |
| (AUT) | | | 206/8145 | | | |
| Ústav | Collection of spatial geodata on energy properties of buildings | | , . | | | |
| informatiky | , , , , , , , , , , , , , , , , , , , | | | | | |
| AV ČR | | | 206/8121 | | | |
| GEOSAN | expert activity, ZP no. 303-19 | | | | | |
| GROUP | | 200/7890 | | | | |
| Ředitelství | Reference project of bridge SO 201, I/27 Plasy - bypass | | | | | |
| silnic a | | | | | | |
| dálnic | | | | | | 200/7890 |
| Ředitelství | D11 (motorway) 1109 Trutnov - st. border of the Czech | | | | | |
| silnic a | Republic/PR opposing opinion of the geotechnical monitoring | | | | | |
| dálnic | project | | | | | 200/7890 |
| Rezidenční | expert evidence | | | | | |
| park | | | | | | |
| Baarova | | 200/7890 | | | | |
| REMING | Modernization of the Púchov - Žilina railway line | · | | | | |
| CONSULT | · | | | | | |
| (SVK) | | 199/7850 | | | | |
| TENSAR | Static and dynamic board test | | | | | |
| INTERNATIO | 1 | | | | | |
| NAL | | | 199/7850 | | | |
| P3 | Inspection and consulting activities - P3 Parks Lovosice | | , | | | |
| LOVOSICE | g | | | | | |
| PARK | | | 198/7823 | | | |
| Povodí | Sport culverts | | , | | | |
| Vltavy | | | | | | 197/7787 |
| FIRESTA | Removal of the emergency condition of the bridge at km 142.475 | | | | | 20171101 |
| 20171 | on the Břeclav - Brno line, implementation of SZZ on the arches | | | | | 197/7773 |
| Plzeňský kraj | Price analysis for the event - Křimická-Karlovarská urban circuit | | | | | 23.70 |
| i izerioky kraj | section | | | | | 197/7771 |
| Škoda Auto | Architectural solution of the ŠKODA AUTO area | | 197/7771 | | | 137/1771 |
| | D10 (motorway) modernization, exit 0 - exit 46, PK security audit | | 13////1 | | | |
| silnic a | - 1st phase | | | | | |
| dálnic | - 13t phase | | | 195/7700 | | |
| | Prague voucher for Innovation Projects | | 195/7692 | 193/7700 | 1 | |
| Stat. město | Diagnostic survey of the Long Bridge, ID No. CB-002 | | 193/7092 | | | |
| České | Diagnostic survey of the Long Bridge, 10 No. CB-002 | | | | | |
| Budějovice | | 195/7692 | | | | |
| | Expert activity in the framework of the design of the | 133/7032 | | | 1 | |
| REALACTIVA | construction solution of icebreakers and swimming pool - MOLO | | | | | |
| | Lipno Bazén | | | | | 195/7683 |
| Vadabasa | Analysis of areas with a significant flood risk, PPO proposals | | | | | 193/7003 |
| | Analysis of areas with a significant flood risk, PPO proposals | | | | | |
| rozvoj a výstavba | | 191/7546 | | | | |
| | Expert opinion | 191/7540 | | | | |
| lékárenský | Expert opinion | | | | | |
| velkoobcho | | | | | | |
| 4 | | | | 190/7495 | | |
| Contrum | Diagnostic survey - Most ev. no. no. 230-014 near Třebele | | | 190/7493 | | |
| Centrum | Diagnostic survey - Most ev. no. no. 230-014 hear Trebele | | | | | |
| dopravního výzkumu | | | | | | 186/7349 |
| | Determination of the level househouse and the second of | | | | | 180/7349 |
| Povodí | Determination of the lower boundary condition for the needs of assessing the safety of VD Štěchovice during the passage of | | | | | |
| Vltavy | | | | | | 100/7227 |
| CENTRAL | Q10000 | | | | | 186/7337 |
| CENTRAL | technical study of the feasibility of an underpass under the railway line - ul. Mlýnská, Prague 6 | | | | 105/7300 | |
| | | | | | 185/7298 | |
| GROUP | · | | | | | |
| ERGON | technical study of the feasibility of an underpass under the | | | | 105/7300 | Į. |
| ERGON | technical study of the feasibility of an underpass under the railway line - ul. Mlýnská, Prague 6 | | | | 185/7298 | |
| ERGON MGR. | technical study of the feasibility of an underpass under the railway line - ul. Mlýnská, Prague 6 technical study of the feasibility of an underpass under the | | | | 185/7298 | |
| ERGON MGR. Jindřich | technical study of the feasibility of an underpass under the railway line - ul. Mlýnská, Prague 6 | | | | | |
| ERGON MGR. Jindřich Kukačka | technical study of the feasibility of an underpass under the railway line - ul. Mlýnská, Prague 6 technical study of the feasibility of an underpass under the railway line - ul. Mlýnská, Prague 6 | | | | 185/7298 185/7298 | |
| ERGON MGR. Jindřich Kukačka | technical study of the feasibility of an underpass under the railway line - ul. Mlýnská, Prague 6 technical study of the feasibility of an underpass under the railway line - ul. Mlýnská, Prague 6 Field measurement and mapping of beaver dams in the | | | | | |
| ERGON MGR. Jindřich Kukačka SNP šumava | technical study of the feasibility of an underpass under the railway line - ul. Mlýnská, Prague 6 technical study of the feasibility of an underpass under the railway line - ul. Mlýnská, Prague 6 Field measurement and mapping of beaver dams in the Křemelná basin | | | | | 185/7298 |
| ERGON MGR. Jindřich Kukačka SNP šumava SUDOP EU | technical study of the feasibility of an underpass under the railway line - ul. Mlýnská, Prague 6 technical study of the feasibility of an underpass under the railway line - ul. Mlýnská, Prague 6 Field measurement and mapping of beaver dams in the Křemelná basin Reconstruction of the track in the section Kyjice - Chomutov | | | 182/7179 | | 185/7298 |
| ERGON MGR. Jindřich Kukačka SNP šumava | technical study of the feasibility of an underpass under the railway line - ul. Mlýnská, Prague 6 technical study of the feasibility of an underpass under the railway line - ul. Mlýnská, Prague 6 Field measurement and mapping of beaver dams in the Křemelná basin | | | 182/7179 182/7172 | | 185/7298 |



| výzkumu | | | | | | |
|---------------|--|----------|----------|----------|----------|----------|
| výzkumu | | | 180/7101 | | | |
| , | Complementary assessment of the geological and tectonic conditions in the area where the LVR-15 reactor is located | | | | | |
| Řež | conditions in the drea where the EVN 15 reactor is located | | | | | 180/7101 |
| | Areas with significant flood risk - Vltava | 178/7010 | | | | , |
| | Most, V013, ČECHůV MOST, Čechův, PRAGUE 1 - processing of a | | | | | |
| | single-stage PD for the replacement of handrail consoles | | | | 177/6974 | |
| TOP CON | Diagnostic survey - bridge over riverOhře in Cheb | | | | | |
| SERVIS | | 175/6915 | | | | |
| PONTEX | Diagnostics and static assessment of bridges with a prestressed | | | | | |
| | supporting structure | | 175/6903 | | | |
| SUDOP | Experimental verification of blasting and corrosion removal | | | | | |
| PRAHA | methods on the bridge under Vyšehrad | 172/6793 | | | | |
| | Assessment of barriers - Research support for the safety | | | | | |
| | assessment of the technical solution of deep storage VVZ 354205 | | | | 168/6622 | 4/164 |
| | Collection of spatial geodata on energy properties of buildings | | | | | |
| informatiky | | | | | | |
| AV ČR | | 170/6719 | | | | |
| | Static and dynamic monitoring of bridge structures-tech. Help | 169/6664 | | | | |
| | Static and dynamic load test - railway bridge 003B, analysis of | | | | | |
| | the bridge using an exciter | | | 168/6607 | | |
| STRABAG | Static and dynamic load test - railway bridge 003B, simulation of | | | | | |
| | system operational failures | | | 168/6607 | | |
| BM | RDS Čechova mostu - railing | | | | | |
| CONSTRUCT | | | | | | |
| ION | | | | 166/6564 | | |
| SÚJB | Study of the applicability of anti-radon measures on heritage- | | | | | |
| | protected buildings | | | | | 165/6520 |
| UK | Isotope analyzes of hydrogen and oxygen in water samples | | | | | |
| Přírod.fakult | | | | | | |
| a | | | | 165/6520 | | |
| BORABELA | Bearing capacity of connections of cold-formed steel profiles | | | 165/6515 | | |
| VaK Mladá | Monitoring rain gauge campaign - Luštěnice, Chotětov | | | | | |
| Boleslav | | | | 165/6509 | | |
| Ústav | Collection of spatial geodata on energy properties of buildings | | | | | |
| informatiky | and their surroundings | | | | | |
| AV ČR | | | | 163/6410 | | |
| Povodí | A comprehensive water management solution for anti-flood | | | | | |
| Vltavy | measures in the Klabavy basin | | | | | 162/6396 |
| NKÚ | Evaluation of bids submitted by bidders in the procurement | | | | | |
| | procedure for the selection of the contractor for the | | | | | |
| | construction of the SAO headquarters | | 160/6292 | | | |
| VODNI DILA- | Stability assessment of the ZAHESI concrete gravity dam | | | | | |
| TBD | | | | | 159/6273 | |
| Povodí | Štvanice waterworks - interactive model | | | | | |
| Vltavy | | | 159/6260 | | | |
| Povodí | Water management solution of the multi-purpose reservoir | | | | | |
| Vltavy | Klabava na Klabava | | | | | 158/6249 |
| Městská | Use of rainwater in Královka park - study | | | | | |
| část Praha 6 | | | 158/6215 | | | |
| PREDITEST | Tensometric measurement of the tension forces in the ropes of | | | | | |
| | the flare at the construction of Basrah? Iraq | | | 155/6121 | | |
| Považská | Tests of cement with a higher content of belite | | | | | |
| cementáreň | | | | | 28/1085 | 126/4989 |
| GEMA ART | Expert consulting for the client's monument projects in Iraq, | | | | | |
| Internationa | studies, architectural designs | | | | | |
| l | | 154/6059 | | | | |
| Povodí Ohře | Water management solutions for sites of residual pits after | | | | | |
| | brown coal mining for the expected termination of mining in | | | | | |
| | 2030 and 2038 | | | | 154/6059 | |
| | I/9 - Revision of performed diagnostic surveys | | | | | |
| silnic a | | | | | | |
| dálnic | | 154/6059 | | | | |
| Vinařství | Evaluation of the isotopic hydrological situation of natural waters | | | | | |
| LUDWIG | in the locality of the streams of South Moravia | | | 153/6031 | | |
| | | | | | | |
| | Diagnostic survey - SŽDC Pilsen bridges | | l | ı | ı | |



| Státní fond | Determination of limits for determining reasonable operating |] | | I | | |
|-------------------------|---|----------|----------|----------|----------|----------|
| podpory | costs for the purposes of the calculation model for the maximum | | | | | |
| investic | amount of support in the Rental housing program | | | | | 152/6015 |
| ADELARDIS | Technical supervision of the investor - the North-South bridge in | | | | | |
| | the area of PZ Škoda in Pilsen | | | 151/5940 | | |
| ELZACO | Research and development of spiral Kaplan turbine | | | 150/5917 | | |
| Hlavní | Clarification of doubts raised by the participant in the | | | | | |
| mesto Prana | proceedings regarding the plan - Construction of a water supply system for the boiler room of the New Town Hall | | | | | 150/5017 |
| Hlavní | Professional cooperation in the creation of films/videos on the | | | | | 150/5917 |
| | topic of rainwater management in the territory of the capital. m. | | | | | |
| incsto i rano | of Prague | | | | | 150/5917 |
| L. Klíma | Carrying out a CFD analysis of water flow in the sub-reservoir | | | | | 200,002, |
| | under specified boundary conditions | | | | | |
| mlýny | · | | | | | |
| Křesín- | | | | | | |
| Libochovice | | | 150/5917 | | | |
| Ředitelství | Assessment of the condition of the bridge before the start of | | | | | |
| silnic a | construction modifications, I/12-most 12-020d | | | | | |
| dálnic | | 150/5917 | | | | |
| Ředitelství | expert evidence | | | | | |
| silnic a | | | | | | |
| dálnic | Constitution of facilities and an institution of the line Bose BX- | 150/5917 | | | | |
| TESIA | Supervision of facilities - Modernization of the line Brno - Přerov, | | | | | |
| speciální tech.práce | Blažovice-Vyškov, Vyškov-Nezamyslice | | | | 150/5917 | |
| SKANSKA | Long term manitering of Whitetenning | | | | 103/4081 | 46/1825 |
| Ředitelství | Long-term monitoring of Whitetopping Assessment of bridge variants - I/42 Brno, MÚK Ostrava radial | | | | 103/4061 | 40/1023 |
| silnic a | Assessment of bridge variants - 1/42 birlo, Work Ostrava radial | | | | | |
| dálnic | | | | 149/5893 | | |
| Správa | Diagnostics of bridges in the district of OŘ Brno - track section | | | | | |
| železnic | 2001 | 149/5878 | | | | |
| Jihomoravsk | Processing of the study - Hevlín - wetland on Černá Strouza | , | | | | |
| ý kraj | , | | | 148/5838 | | |
| ČAS | Adoption of the technical standard by translation of task no. | | | | | |
| | 73/0100/21 | | | | 147/5799 | |
| | D47, building I/67 Skrečoň - Bohumín bypass, SO 201 - | | | | | |
| silnic a | supervision of the repair project | | | | | |
| dálnic | | | 3/109 | 143/5650 | | |
| | MVE Terezín - feasibility study | 146/5752 | | | | |
| Povodí | New Greek rafts - evaluation of the influence of proposed | 145/5720 | | | | |
| Vltavy Povodí | manipulations Water management solutions for the Římov water reservoir and | 145/5720 | | | | |
| Vltavy | the prospective Chlum water reservoir | | | 142/5586 | | |
| Lankhorst | Experimental tests | | | 142/3360 | | |
| Enineered | Experimental tests | | | | | |
| Prod.(NLD) | | 141/5547 | | | | |
| OHLA ŽS | Tests of shotcrete | | | | 140/5523 | |
| TSK | X 672 Underpass at Hl.N Sokolská - load capacity recalculation | 140/5523 | | | ., | |
| FIRESTA | I/38 Havlíčkův Brod, bypass - SO 209, SO 211 | -, | | | | 139/5479 |
| LUPOFYT | Study of the main tank | 135/5325 | | | | • |
| Povodí | Water management solution of the Hracholusky reservoir. | | | | | |
| Vltavy | | | | | 134/5302 | |
| VUT BRNO | Advanced materials to improve grounding in lightning and surge | | | | | |
| | protection systems | 134/5302 | | | | |
| Komerční | DPK measurement with the Krab measuring truck on the line | | | | | |
| železniční | Prague hl.nPrague Běchovice | | | | | |
| výzkum | | | | 133/5260 | | |
| Ústav | Analysis of retention curves on supplied samples | | | | | |
| výzkumu glabální | | | | | | |
| giabaini změny | | | 133/5249 | | | |
| TSK | SO28 European - execution of an extraordinary inspection | 129/5089 | 133/3249 | | | |
| 11.315 | DOZO EULODEGII - EXELUTION OLGII EXHIGUIUNIGI V INSDELLION | 123/3089 | | | | |
| | | | | | | |
| Ústav | Analysis of data from external long-term experiments | | | | | |
| Ústav výzkumu | | | | | | |
| Ústav | | | | | 129/5086 | |



| Povodí Ohře | VD (waterworks) Křímov - 3rd operational closure SV DN 800 - | | ĺ | | [| |
|---------------------------|--|----------|----------|-----------|-----------------|----------|
| | processing of hydrotechnical calculations of lower outlets | | | | 128/5049 | |
| Letiště | Measurement of PVV RWY's in 2021 and 2022 | | | | | |
| Václava | | | | 74/0705 | 57/225 <i>6</i> | |
| Havla Praha | Areas with significant flood risk. Ohro | 127/5026 | | 71/2785 | 57/2256 | |
| Sweco JEAN PAUL | Areas with significant flood risk - Ohře Production of test plates from UHCP manufactured according to | 127/5026 | | | | |
| | the recipe of patent no. 304478 | | | | | |
| LE | and recipe of patentino. 30 1170 | | | | 127/5011 | |
| Lankhorst | Experimental tests | | | | | |
| Enineered | | | | | | |
| Prod.(NLD) | | 47/1839 | 80/3160 | | | |
| PONTEX | Boreholes for control monitoring-Petřín Cable Car | 127/4999 | | | | |
| OBEC SRBSKO | Diagnostic survey of the footbridge over Berounka | | | 125/4936 | | |
| Česká | Derivation of design rainfall maxima for surface water bodies | | | 123/4330 | | |
| zemědělská | bettvation of design runnan maxima for surface water bodies | | | | | |
| univerzita | | | 125/4931 | | | |
| SUDOP | Double-tracking of the Branický most - Praha Krč line - inspection | | | | | |
| PRAHA | and measurement on the bridge facility | | | | 123/4868 | |
| | The quality of the indoor environment in a family home | | | | | |
| GER Š. W. J / | 5 C | | | 123/4845 | | |
| Ředitelství silnic a | Safety audit - D35 Úlibice - Hořice, update | | | | | |
| dálnic | | | | 123/4832 | | |
| | Urban planning solution Starý závod ŠA | | | 123/ 1032 | 120/4734 | |
| TPA ČR | Tests to determine the residual strengths of fiber concrete - with | | | | · | |
| | a notch | | | | | 120/4734 |
| Ústav | Collection of landcover spatial geodata for the model domain in | | | | | |
| informatiky | the wider vicinity of the capital city. of Prague | | | 400/4704 | | |
| AV ČR | Links and a miner and other Change of condition | | | 120/4734 | 110/4004 | |
| | Urban planning solution Starý závod ŠA Feasibility Study - 2 Paperwork | | | | 119/4694 | |
| ví Japonska | l easibility Study - 2 rapel work | | | | 40/1596 | 75/2964 |
| ČAS | Adoption of an international standard | | | 18/724 | 45/1787 | 52/2040 |
| Povodí Ohře | Modernization of PAT TG4 - MVE Jesenice - stage I - study | | | , | , | 115/4536 |
| Ředitelství | Expert study of materials for anti-noise walls | | | | | |
| silnic a | | | | | | |
| dálnic | Talk at the construction Construction | | 115/4536 | | | |
| Statutární město Plzeň | Faltus House - Corrosion Survey | 115/4536 | | | | |
| STRABAG | Static and dynamic load test - railway bridge 003B | 113/4330 | | | | |
| RAIL | and any animo issue test runna, anage sees | | 115/4536 | | | |
| Ředitelství | I/9 - Revision of performed diagnostic surveys | | - | | | |
| silnic a | | | | | | |
| dálnic | | 114/4497 | | | | |
| | Use of gray water in the project - Sustainable water supply Škoda | | | | | |
| ženýrské služby | Auto plant Kvasiny | | 114/4497 | | | |
| Vodohosp. | Territorial study of the landscape - Hradec Králové | | 114/4437 | | | |
| rozvoj a | Territorial study of the landscape Thadee Malove | | | | | |
| výstavba | | 113/4440 | | | | |
| Škoda Auto | Processing of the study - IC hub | 112/4418 | | | | |
| Státní fond | Evaluation of loan applications according to Government | | | | | |
| podpory | Regulation no. 284/2011 Coll. as amended | 40/754 | 44/420 | 60/0700 | 42/400 | |
| investic STYL 2000 | Performing laboratory tests on the supplied samples - VIBRO S2K | 19/754 | 11/420 | 69/2739 | 12/489 | |
| 511L 2000 | RAIL PU2 | | | 111/4359 | | |
| SUDOP | Optimization of the line section Děčín výchád-Děčín-předření | | | | | |
| PRAHA | Žleb | 1/52 | 109/4303 | | | |
| EXPECT-IT | Provision of experimental data and consultation | | | | 109/4319 | |
| ÚJV Řež | Pilot corrosion experiment in PVP Bukov | | | 0/0 | 10/384 | 99/3903 |
| | Support for flood prevention V, program 129,500 - activity of a | | | | | |
| | strategic expert | | | | | 108/4246 |
| ENGINEERE | Experimental tests | | | | | |
| D (NLD) | | 2/82 | 105/4144 | | | |
| Lafarge | Cooperation in the field of research | 107/4219 | | | | |
| | | | | | | |



| DOOSAN | Evaluation of the exploitability of the soil on the CPG | [| I | ĺ | ĺ | ĺ |
|----------------------|---|----------|-----------|--------------|----------|----------|
| BOBCAT | Evaluation of the exploitability of the son of the er o | | | | | |
| EMEA | | | 42/1657 | 52/2049 | 12/487 | |
| Městská | Technical study of the feasibility of an underpass under the | | | | | |
| | railway. track - Mlýnská street, Prague 6 | | | 105/4142 | | |
| Nadace | Analysis of existing approaches to fire safety solutions for | | | | | |
| dřevo pro | wooden buildings in selected countries | 404/4400 | | | | |
| život | Desired shades of a leader to the City of | 104/4100 | | | | |
| Vodohosp. | Regional strategy of adaptation measures of the Pilsen region for | | | | | |
| rozvoj a výstavba | retaining water in the landscape | | | 83/3272 | 21/818 | |
| | PPO ZOO Prague and Bubeneč - analysis of costs and benefits | | | 03/32/2 | 21/010 | |
| a rozvoje | 110 200 1 Tague and Basenee analysis of costs and serients | | | | | |
| hl.m.Prahy | | | | 103/4063 | | |
| DP | Material tests of multifunctional silicate composite MSK | | | · | | |
| hl.m.Prahy | · | | 100/3945 | | | |
| DP | Development of the design and verification of mixtures in the | | | | | |
| hl.m.Prahy | rehabilitation of failures of concrete elements and structures - | | | | | |
| | metro Prague | | | | 100/3945 | |
| FILAMOS | Tests of shotcrete | 100/3945 | | | | |
| Monika | expert evidence | | | | | |
| Hoffmanová | | | | | 100/3945 | |
| | Expert valuation of real estate, Holečkova 440/15, Prague 5 | | | | | |
| František | | | | | | 100/2045 |
| Pospíšil | Possibilities of using calcium salt in the technology of | | | | | 100/3945 |
| F | preparation of inorganic binders | | 100/3945 | | | |
| Stavby | Technical assistance in tension measurement of tie rods - road | | 100/3343 | | | |
| mostů | bridge across the Elbe between Valy and Mělice | | 100/3945 | | | |
| TENSAR | Conducting experimental penetration tests on structures | | 200,00 .5 | | | |
| INTERNATIO | | | | | | |
| NAL | | 100/3945 | | | | |
| VŠCHT | Measurement of mechanical properties of corrosion products | | | | | |
| | using the nanoindentation method | | | | | 100/3945 |
| | Assessment of cost-significant bridge objects of construction I/44 | | | | | |
| silnic a | Zábřeh - bypass | | | | | |
| dálnic | | | 100/3929 | | | 22/22/2 |
| | MVE Jesenice - modernization of TG4 - technical proposal | | | | | 99/3918 |
| Ředitelství | Processing revision TKP7 - Compacted asphalt layers | | | | | |
| silnic a dálnic | | | | 99/3914 | | |
| BACH | Static load test of the ceiling | | | 39/3314 | | |
| KVALITE | Static load test of the telling | | 99/3905 | | | |
| Město | Aguapark Příbram - total reconstruction | | 33,3303 | | | |
| Příbram | | 99/3886 | | | | |
| | Expert opinions on 40 individual projects included in milestone | , | | | | |
| zemědělství | | | | | | 98/3883 |
| | Short-cut concrete recipe for the application of workout parks, | | | | | |
| | mechanical tests. properties | 98/3866 | | | | |
| Oblastní | Didactic water model of a lock | | | | | |
| muzeum v | | | | | | |
| Děčíně | | 98/3866 | | | | |
| Považská | Demonstration of increased fire resistance of H-CEMENT for fire | | | | | |
| cementáreň | li . | | | 97/3833 | | |
| PSG | Independent assessment of the extension of the deadline for the | | | | | |
| ION | completion of the work due to defects in the project documentation | | | | | 97/3826 |
| | Water management balance of lakes Libous and Bilina in the | | | | | 97/3820 |
| . ovoui Onie | operating mode enabling their flow - Istage | | | | 96/3787 | |
| Povodí | Water management solution for the storage function of the | | | | 30/3/3/ | |
| Vltavy | Klíčava reservoir in Klíčava | | | 96/3787 | | |
| BM | Technical assistance in solving railings - Čechův most | | | 2 2, 3 . 3 / | | |
| CONSTRUCT | 300.00 | | | | | |
| ION | | | | | 40/1578 | 55/2178 |
| Institut plán. | Expert opinion - solution for an underground tram line as part of | | | | | |
| a rozvoje | tram.tandenta in the section Mazurská-Pod Hrachovkou in | | | | | |
| hl.m.Prahy | Prague | | | | 95/3748 | |
| | | | | | | |



| Těrlicko the T pavilion Ředitelství Determination of the real distribution of the non-stationary silnic a temperature field - I/27 Alžbětín, most ev. no. 27-117 dálnic 95/3748 TENSAR Model 02/2023 INTERNATIO NAL Topketshop Nanotechnological protection of bridge concrete structures 93/3657 MATTONI Project - Hydropower plants, OS220 1873 Povodí Water management solution of the water reservoir Nýrsko na Vltavy Úhlava ATELIER Road diagnostic surveys for 2022 PROMIKA Centrum Recalculation of bridge load capacity 421-012 dopravního výzkumu 99/3550 | 91/3598 | 95/3748 94/3717 92/3629 |
|--|---------|-------------------------------|
| silnic a dálnic temperature field - I/27 Alžbětín, most ev. no. 27-117 95/3748 TENSAR Model 02/2023 INTERNATIO NAL TopKetshop Nanotechnological protection of bridge concrete structures 93/3657 MATTONI Project - Hydropower plants, OS220 1873 Povodí Water management solution of the water reservoir Nýrsko na Últavy Úhlava ATELIER Road diagnostic surveys for 2022 PROMIKA Centrum Recalculation of bridge load capacity 421-012 | | |
| dálnic TENSAR INTERNATIO NAL TopKetshop Nanotechnological protection of bridge concrete structures MATTONI 1873 Povodí Water management solution of the water reservoir Nýrsko na Vltavy Úhlava ATELIER Road diagnostic surveys for 2022 PROMIKA Centrum dopravního Model 02/2023 93/3657 93/3657 MATTONI hyropower plants, OS220 Water management solution of the water reservoir Nýrsko na Vltavy Uhlava ATELIER Road diagnostic surveys for 2022 | | |
| TENSAR INTERNATIO NAL TopKetshop Nanotechnological protection of bridge concrete structures 93/3657 MATTONI Project - Hydropower plants, OS220 1873 Povodí Water management solution of the water reservoir Nýrsko na Vltavy Úhlava ATELIER Road diagnostic surveys for 2022 PROMIKA Centrum Recalculation of bridge load capacity 421-012 | | |
| INTERNATIO NAL TopKetshop Nanotechnological protection of bridge concrete structures 93/3657 MATTONI Project - Hydropower plants, OS220 1873 Povodí Water management solution of the water reservoir Nýrsko na Vltavy Úhlava ATELIER Road diagnostic surveys for 2022 PROMIKA Centrum Recalculation of bridge load capacity 421-012 | | |
| TopKetshop Nanotechnological protection of bridge concrete structures MATTONI Project - Hydropower plants, OS220 1873 Povodí Water management solution of the water reservoir Nýrsko na Úhlava ATELIER Road diagnostic surveys for 2022 PROMIKA Centrum Recalculation of bridge load capacity 421-012 | | |
| MATTONI Project - Hydropower plants, OS220 1873 Povodí Water management solution of the water reservoir Nýrsko na Vltavy Úhlava ATELIER Road diagnostic surveys for 2022 PROMIKA Centrum Recalculation of bridge load capacity 421-012 dopravního | | 92/3629 |
| 1873 Povodí Water management solution of the water reservoir Nýrsko na Vltavy Úhlava ATELIER Road diagnostic surveys for 2022 PROMIKA Centrum Recalculation of bridge load capacity 421-012 dopravního | | 92/3629 |
| Povodí Water management solution of the water reservoir Nýrsko na Vltavy Úhlava ATELIER Road diagnostic surveys for 2022 PROMIKA Centrum Recalculation of bridge load capacity 421-012 dopravního | | 92/3629 |
| Vitavy Úhlava ATELIER Road diagnostic surveys for 2022 PROMIKA Centrum Recalculation of bridge load capacity 421-012 dopravního | | |
| ATELIER Road diagnostic surveys for 2022 PROMIKA Centrum Recalculation of bridge load capacity 421-012 dopravního | | |
| PROMIKA Centrum Recalculation of bridge load capacity 421-012 dopravního | 90/3550 | |
| Centrum Recalculation of bridge load capacity 421-012 dopravního | 23,000 | |
| | | |
| výzkumu 90/3550 | | |
| | | |
| ČAS Adoption of the technical standard by translation of task no. | | |
| 73/0105/20 90/3550 | | |
| EXPECT-IT Provision of experimental data and consultation 90/3550 | | |
| MM Expertní posudek nemovitosti - posouzení památkové hodnoty, Akademie Strašnice | | |
| Polná | 90/3550 | |
| Pražské Calibration of 15 rain gauges | | |
| vodovody a | | |
| kanalizace 90/3550 | | |
| TSK Conducting tours-B 002 Podolské embankment, 003 Neklan's old | | |
| vault, B 004 Neklan's new vault 90/3550 | | |
| Ústav Pilot application of incineration cinders in road construction - chemických Zevo Malešice | | |
| procesů AV | | 90/3550 |
| Komíny Determination of ventilation intensity and indicative noise | | , |
| Schiedel measurement in a demonstration family house 90/3550 | | |
| Povodí Assessment of the protective function of the Žichlínek polder | | |
| Moravy 90/3535 | | |
| Tým Assessment of bridge-track interaction on the bridge TÚ 2071 dopravního Žďár nad Sázavou-Tišnov | | |
| dopravního Žďár nad Sázavou-Tišnov inženýrství 90/3535 | | |
| LANKHORST Experimental tests | | |
| ENGINEERE | | |
| D (NLD) | | 89/3518 |
| Architektoni Residential project Jeseniova 38, update no. 2 | | |
| cký ateliér | 00/2511 | |
| Aleš ÚJV Řež Research support for safety assessment of deep. storage- | 89/3511 | |
| Microbial corrosion 88/3490 | | |
| ČEPS Evaluation of steel samples 88/3487 | | |
| REMING Modernization of the Púchov - Žilina raylway line | | |
| CONSULT | | |
| (SVK) 88/3471 | | |
| Město Expert assessment of DZS - Škorna campus Vodňany 88/3459 | | |
| Vodňany 88/3459 VRV Territorial study of the landscape - Nový Bydžov 87/3442 | | |
| Letiště Measurement of runway anti-skid properties | | |
| Václava | | |
| Havla Praha 87/3440 | | |
| Povodí Study of the modernization of MVE Luhačovice | | |
| Moravy | | 87/3432 |
| Povodí Assessment of the number of inhabitants at risk and potential | | |
| Vltavy damage in the area at risk of special floods VD Kamýk 87/3432 Šinták Jan VD Josefův Důl - hydrotechnical calculations of pipelines 87/3432 | | |
| Povodí Water management solution for the storage function of the | | |
| Vltavy reservoir Švihov na Želivce 86/3408 | | |
| Povodí Water management solution for the storage function of the | | |
| Vltavy Žlutice na Střele reservoir 86/3408 | | |
| STATOTEST Construction of two GNSS receiver prototypes for static | Ι., Τ | 7 |
| measurement | 86/3395 | |



| CHLÁDEK & TINTĚRA | Expert opinion | | | | 06/2200 | |
|----------------------|---|---------|---------|---------|---------|---------|
| AF- | | | | | 86/3388 | |
| AF- CITYPLAN | Support for the processing of the project, construction of the bridge ID no. 16-045a | 86/3387 | | | | |
| KORADO | Concept study of technical solutions for heating and ventilation | | or/2252 | | | |
| Ďím f | systems using the KORADO product | | 85/3353 | | | |
| Řím.f. u kostela | Exp. opinion on the proceedings on the proposal to register a cultural monument - the Church of Our Lady of Peace in Prague | | | | | |
| Panny Marie | · · · · · · · · · · · · · · · · · · · | | | | | |
| | | | | | | |
| Královny | | | | 05/2252 | | |
| míru | | | | 85/3353 | | |
| TUFA | Study of restoration of water supply for agricultural irrigation in the Lipno - Markvarec area | | 85/3353 | | | |
| , | Architects Documentatiion and Activities | | | | | / |
| ví Japonska | | | | | | 85/3353 |
| VITRABLOK | Verification of load-bearing structures made of Vetropieno glass blocks | 3/118 | 82/3235 | | | |
| Správa | Framework contract - performance of expert and laboratory | | | | | |
| železnic | activities during the implementation of constructions | | | | | 84/3332 |
| SATRA | PS 2-Update of the life cycle schedule of the deep repository in | | | | | |
| | connection with the adoption of the terms of the Taxonomy | | | | | 84/3318 |
| PONTEX | Theoretical modal analysis of the footbridge over ul. Ocelkova | 84/3314 | | | | • |
| PVK | Calibration of PVK rain gauges | 0.,001. | | | | 84/3314 |
| | Expert opinion on PD for the construction of the new Judicial | | | | | 04/3314 |
| | Complex in Ústí nad Labem | | | | | |
| spraveumos | Complex in Osti nad Labern | | 83/3254 | | | |
| الاعطاء | As autos autinos incorpation of the Linea builded | | 03/3234 | | | |
| Úřad pro | An extraordinary inspection of the Lipno bridge, a | | | | | |
| zast.st. ve | comprehensive proposal for a diagnostic survey | | | | | |
| věcech | | | / | | | |
| majet. | | | 83/3254 | | | |
| Centrum | Cooperation on the project Critical analysis of new materials and | | | | | |
| | shapes of soundproof walls | | | | | |
| výzkumu | | | 82/3224 | | | |
| Lankhorst | Experimental tests | | | | | |
| Enineered | | | | | | |
| Prod.(NLD) | | | | | | 82/3219 |
| TENSAR | Model 01/2023 | | | | | |
| INTERNATIO | | | | | | |
| NAL | | | | | | 82/3215 |
| Ministerstvo | SE reviews for assessing PPO-program 129260 | | | | | |
| zemědělství | | 81/3190 | | | | |
| VUT BRNO | Carrying out a fatigue test on reinforced test beams | | | 80/3160 | | |
| ADVAMDEN | Design of gyroid structure solution and its mechanical and | | | | | |
| TAL | micromechanical tests | | 80/3156 | | | |
| AVERS | Expert opinion on the event - SZ Krásný Dvůr - restoration of the | | | | | |
| | Neo-Gothic temple | | | 80/3156 | | |
| Kraj | expert evidence | | | | | |
| Vysočina | | 80/3156 | | | | |
| Libštejnské | expert evidence | | | | | |
| lesy | | | 80/3156 | | | |
| METROPROJ | Expert assessment - reconstruction of the dispatch building in | | | | | |
| EKT PRAHA | České Budějovice | | | | 80/3156 | |
| Národní | Background study - measurement and evaluation of the visual | | | | | |
| kult.památk | comfort of the visitor in the existing lighting of the NKP Vyšehrad | | | | | |
| a Vyšehrad | , | | | | 80/3156 | |
| , Letiště | Measurement of PVV characteristics of RWY's 2023 | | | | , | |
| Václava | | | | | | |
| Havla Praha | | | | | | 79/3131 |
| Vinařství | Consultation and measurements for the description of the | | | | | -, |
| LUDWIG | isotopic hydrological situation of natural waters in J. Moravia for | | | | | |
| _05 ***10 | the years 2020/2021 | | | | 79/3130 | |
| Sweco | Creating an assessment of the economic effectiveness of flood | | + | | 13/3130 | |
| SWELU | | | | | | 70/2110 |
| الد دلارًا | protection Neratovicko | | | | | 79/3116 |
| Úřad | Experimental tests | | | | | |
| městské | | | | 70/2100 | | |
| části Praha 7 | | | - | 79/3109 | | |
| L. | Design of the operational background of Bohumil Hrabal's | | | | 70/000 | |
| kraj | cottage in Kersk | | | | 79/3097 | |



| Lesy ČR | Assessment of plans on the Měkynecká stream for the municipalities of Bílinsko and Měkynec - flood prevention | | | | | |
|-------------------------|---|---------|---------|---------|---------|------------|
| | program | | | | | 78/3093 |
| Ředitelství | Assessment of bridge variants - 139-I/11 Oava Komárov, | | | | | |
| silnic a | southern bypass | | | 70/2000 | | |
| dálnic FIRESTA | Odstranění havarijního stavu mostu v km 142,475 na trati | | | 78/3089 | | |
| IINLSTA | BřRemoval of the emergency condition of the bridge at km | | | | | |
| | 142.475 on the Břeclav - Brno line, evaluation of the SZZ on the | | | | | |
| | archeseclav - Brno, vyhodnocení SZZ na klenbách | | | | | 78/3077 |
| Agentura | Evaluation of the sedimentation of the Dobroměřické Pond | | | | | |
| ochrany | | | | | | |
| přírody a | | 77/2022 | | | | |
| krajiny AFRY CZ | PPP Feasibility Study - Nemanicee-Ševětín Project | 77/3032 | | | | 75/2959 |
| FORTIS | expert evidence | | | | | 73/2333 |
| BOHEMIA | | | | | 75/2959 | |
| JACOBS | Assessment of the impact of erosion, sediment deposition and | | | | • | |
| CLEAN | the occurrence of flood sediments on the Hněvkovice Watershed | | | | | |
| ENERGY | and the Kořensko discharge facility | | | | 75/2959 | |
| | Reconstruction of the Imperial Baths | | 75/2959 | | | |
| IVIETROSTAV | Identification of the location of the seepage of the VD Orlík construction pit by the ADCP method | | | | | 75/2959 |
| Ředitelství | 123 Vladislav, bypass - assessment of bridge variants | | | | | 73/2333 |
| silnic a | assessment of small contains | | | | | |
| dálnic | | | 75/2947 | | | |
| Ředitelství | I/34 Tower - Skála | | | | | |
| silnic a | | | | | | |
| dálnic Šadinatat í | Assessment of the decision and the control of the decision of | | | 75/2947 | | |
| Ředitelství silnic a | Assessment of technical solutions of cost-important bridge objects from the point of view of investment demands-I/50 | | | | | |
| dálnic | Bučovice bypass | | | 75/2947 | | |
| | Construction and technical survey of the fencing of the sidewalk | | | 73/2317 | | |
| , | along the BENAR park | | | | 74/2919 | |
| VUT BRNO | Compilation of specific methods for basic testing of materials for masonry sewer shafts | 74/2916 | | | | |
| Centrum | Processing of the diagnostic survey of the bridge: III/34526 | | | | | |
| dopravního výzkumu | Bezlejov - bridge ID no. 34526-2 | | | | 74/2903 | |
| Vodohosp. | Territorial study of the landscape - Nová Paka | | | | 74/2303 | |
| rozvoj a | Territorial study of the landscape Word Faka | | | | | |
| výstavba | | 74/2899 | | | | |
| Ředitelství | D1109 Rest areas Bernartice and Královec - safety audit | | | | | |
| silnic a | | | / | | | |
| dálnic | Diagnostic surroy of the bridge at low E7 2EE (Maskana & flyover) | | 73/2872 | | | |
| SUDOP EU STRABAG | Diagnostic survey of the bridge at km 57.255 (Vrskmaň flyover) Scanning and evaluation of the imperfections of the NK beam | | 72/2856 | | | |
| RAIL | bearining and evaluation of the imperfections of the fax bearin | | | | | 72/2856 |
| | Static load test of the ceiling of ZŠ Smidary | | | | 72/2842 | , |
| JEAN PAUL | Production of test plates from UHCP manufactured according to | | | | | |
| | the recipe of patent no. 304478 | | | | | |
| LE | | | | | 72/2836 | |
| Město Vimpork | Expert opinion - Water sports complex Vimperk | | 70/2760 | | | |
| Vimperk Krajská | Engineering and consulting activities | | 70/2768 | | | |
| správa silnic | and consuming activities | | | | 70/2761 | |
| LHOTKA | Assessment of the proposed method of securing the foundation | | | | -, | |
| LIVING | pit - apartment building in Lhotka | | 70/2761 | | | |
| Povodí Labe | Expert opinion for determining the accounting reserve for the | Т | Т | T | T | |
| | costs associated with the implementation of insurance. work | | | | | 70/2761 |
| Povodí | during floods Expert opinion of the accounting reserve for the costs associated | | | | | 70/2761 |
| Moravy | with the implementation of insurance, work during floods | | | | | 70/2761 |
| | Expert opinion for determining the accounting reserve for the | | | | | . 5, 2, 51 |
| | costs associated with the implementation of insurance. work | | | | | |
| Ī | during floods | | | | | 70/2761 |



| Povodí Ohře | Expert opinion for determining the accounting reserve for the | ĺ | | | | |
|--------------------|---|---------|---------|---------------|---------|---------|
| i ovodi onic | costs associated with the implementation of insurance. work | | | | | |
| | during floods | | | | | 70/2761 |
| Povodí | Expert opinion for determining the accounting reserve for the | | | | | |
| Vltavy | costs associated with the implementation of insurance. work | | | | | |
| | during floods | | | | | 70/2761 |
| Muzeum | Architectural study of improvements to the area of the Museum | | | | | |
| Českého | of the Czech Karst | | | | | |
| krasu | | | | | | 69/2714 |
| PORR | Measuring the width of cracks in the bridge item no. D1-2020, | | (| | | |
| | right and left bridge | | 69/2705 | | | |
| | Isotope analyzes of hydrogen and oxygen in water samples | | | | co/2cc0 | |
| LTD (GEO) Město | DDO Norstaviele, undete of the technical and economic colution | | | | 68/2669 | |
| Neratovice | PPO Neratovick - update of the technical and economic solution | | 67/2643 | | | |
| SKANSKA | CBK monitoring on the construction site D137 Přerov - Lipník nad | | 07/2043 | | | |
| SKANSKA | Bečvou | | | 0/0 | 67/2641 | |
| STRABAG | Securing underpass heights on the Vltava waterway Ia. Stage: | | | 0/0 | 07/2041 | |
| RAIL | Vraňansko - Hořínský canal | | | | | 67/2639 |
| AMPeng | Computer simulation of the movement of people for the Horácká | | | | | 07/2033 |
| Aivii Ciig | multifunctional arena | | | 66/2608 | | |
| ОМ | Thermal imaging of the electrical wiring of the Cube and DHL | | | 00,2000 | | |
| | buildings in the CTPark Cheb area | | | | | |
| G | 6 | | | | | 66/2604 |
| DHI | Determination of the amount of sediments captured in the | | | | | |
| | cascade of small water reservoirs in the Amálie locality | 65/2569 | | | | |
| Česká | Determination of the amount of sediments captured in the | | | | | |
| zemědělská | cascade of small water reservoirs in the Amálie locality | | | | | |
| univerzita | | | | | 65/2564 | |
| Krajská | Assessment of the repair of the bridge No. 125-034 over the Elbe | | | | | |
| správa a | in Kolín | | | | | |
| údržba silnic | | | | 65/2564 | | |
| LIBERTY | Making an assessment of mine steel reinforcement | | | | | |
| Ostrava | | | | | | 65/2564 |
| Ředitelství | D11 SSÚD Strítež - security audit | | | | | |
| silnic a | | | (| | | |
| dálnic | | | 65/2564 | | | |
| ÚJV Řež | Research support for safety assessment of deep. Repository- | C4/2E40 | | | | |
| Městská | Final Report Project management and professional supervision of the | 64/2540 | | | | |
| | contracting authority within the project "River of sidewalks in | | | | | |
| Cast Frana / | Janovského Street, Prague 7! | 39/1542 | 25/982 | | | |
| PKB | Provision of a software application to optimize the repair of | 33/1342 | 23/302 | | | |
| | asphalt layers | | 64/2525 | | | |
| TSK | Most X540, Wilsonova - bridging Masaryk station | | , | 64/2525 | | |
| Ředitelství | D35 Sadová - Plotiště, Strězetice rest area - security audit | | | 0 1,7 = 0 = 0 | | |
| silnic a | | | | | | |
| dálnic | | 64/2513 | | | | |
| DEKONTA | Conducting hydrophysical analyzes of substrate samples for | | | | | |
| | green roofs | | | | 64/2509 | |
| SUDOP EU | Diagnostic survey of the bridge at km 59,483 | | 63/2472 | | | |
| SUDOP | I/20 Chválenice, construction overlay - DÚR + IČ | | | | | |
| PRAHA | | | | 26/1026 | 34/1339 | 2/84 |
| PVK | Static rain gauge calibration and 10 dynamic rain gauge | | | | | |
| | calibrations | | | 62/2446 | | |
| SKANSKA | Concrete temperature measurement test | | | | | |
| TRANSBETO | | | | | | |
| N Tr | | | | | 62/2446 | |
| | Geophysical survey for the needs of archaeological research - | | | | | |
| á univerzita | Landscape as knowledge | | | 62/2445 | | |
| v Plzni | Canalization to to | | | 62/2445 | | |
| AGC GLASS | Conducting tests | | | | | |
| EUROPE | | 62/2420 | | | | |
| (BEL) | Accessment of water vapor from the water surface in | 62/2426 | | | | |
| GMF AQUAPARK | Assessment of water vapor from the water surface in Aquaoalace Praha | | | | | |
| PRAGUE | riquadulace i i alia | 61/2417 | | | | |
| INAGUE | | 01/241/ | | | | |



| | le | i | ĺ | ĺ | i | I |
|-----------------------------------|--|----------|--------------|---------|---------|-----------|
| Advokátní kancelář | Expert assessment and consultation on the issue of the price of multiple works on the sewage system project | | | | | |
| Němec, Bláh | inditiple works on the sewage system project | | | | | |
| a a | | | | | | |
| Navrátilová | | 60/2367 | | | | |
| AVERS | expert evidence | 60/2367 | | | | |
| DIAMO | Expert opinion - Feasibility study of house repairs - Dolní Pochlovice | 60/2367 | | | | |
| Brod | Professional expertise - static assessment of the former school in Vyšší Brod | | | | | 60/2367 |
| Nemocnice Třinec | Implementation of the construction time model Rehabilitation of the T pavilion | | | | | 60/2367 |
| PUDIS | I/27 Klatovy, bridge ID no. 27-094, replacement of elastomer bearings - DSP+IČ, PDPS, AD | | | 60/2367 | | 00/2307 |
| Česká zemědělská univerzita | Analysis of elements in liquid samples of surface runoff by the method of atomic absorption spectrometry | | 60/2364 | 00/2307 | | |
| OHLA ŽS | Long-term monitoring of railway bridges SO 73-20-10, SO 73-20- 13, SO 73-20-14 after damage by underfilling | | 00/2301 | | | 60/2360 |
| Městská část Praha 6 | Preparation of a verification study of the functional use of the territory of the Císařské mlýn and the grounds of the Provost's | | | | | 00/2000 |
| | Court for educational purposes | | | | 60/2356 | |
| Nad.fond Svatovítské | Measurement of deformations in the area of the western kruchta sv. Welcome to Prague Castle | | | | (| |
| varhany PRVNI | Building technical survey - Opatovská garage | | | | 60/2347 | |
| STATICKA | | | | 59/2336 | | |
| Česká zemědělská univerzita | Special subsequent analysis of biochar - isotopic analysis of hydrogen and oxygen | | 59/2323 | | | |
| PROMSTAL | Carrying out tests and evaluating the bearing capacity of steel | | 00, 2020 | | | |
| ENGINEERIN G | hinges in accordance with ČSN EN 1990 | | | | 58/2297 | |
| VÚ | Amendment TP 53 - anti-erosion measures on road slopes - | | | | | |
| _ | processing of chapter 4 | | | | | |
| a ochrany půdy | | | | | | 58/2288 |
| Správa | Measuring the platform surface with a pendulum - Ústí nad | | | | | 30/2200 |
| železnic | Labem, Jaroměř | | | 58/2285 | | |
| STRABAG | Fitting and measuring with strain gauges the deformation of the | | | | | F0/2200 |
| RAIL Centrum | HNK bridge Diagnostic survey of the bridge ID no. 210-002 behind the village | | | | | 58/2280 |
| dopravního výzkumu | of Krsy | | | | | 57/2249 |
| | Documentation of historic objects, targeting with a laser scanner | | | | | , |
| INTERNATIO N | and photogrammetrically creating 3D models | | | | | 56/2220 |
| Správa | Assessment of the condition and bearing capacity of dynamic | | | | | |
| národního parku | barriers in terms of fire damage | | | | | 56/2193 |
| Centrum | Processing of the diagnostic survey of the bridge: III/34520 | | | | | , |
| dopravního výzkumu | Jeřišno - bridge ID no. 34520-1 | | | | 55/2178 | |
| Jan Brodský | Estimation of the usual market value of real estate - plot no. 345/1 and 345/2 in the cat. area Krč, Prague | | | | | 55/2170 |
| JRD | Measurement of temperature and relative air humidity at several points in the space at the same time in both apartments | EE /3470 | | | | |
| | and outdoors Development of static tables for TR85 | 55/2170 | | | | |
| CONSTR. | | | | | | E 4 /2420 |
| (SVK) DHI | Measurements on soil samples | | 54/2119 | | | 54/2130 |
| Krajská | Carrying out an expert assessment of the PDPS documentation | | J 7/ Z I I J | | | |
| správa silnic | of the bridge 290-023 Poniklá | | 53/2103 | | | |
| TENSAR | Testing the propagation of shock waves in the environment of | | | | | |
| NAL | aggregates 8-31.5 mm | | 53/2091 | | | |
| | | | | | I | |



| Ast Praha 7 the Revitalization of Ovenecká Street project 34/1331 19/752 Past Time 7 the Revitalization of Ovenecká Street project 34/1331 19/752 Past Time 7 the Revitalization of Ovenecká Street project 34/1331 19/752 Past Time 7 the Revitalization of Steel Supporting tructures of bridges on the supplied samples 52/2063 Past Time 8 the State 10 the Steel Supporting structures of bridges elevatic 10 the Steel Supporting structures of bridges 15/2013 Past Steel Steel Supporting structures of bridges 15/2013 Past Steel Steel Supporting structures of bridges 15/2014 Past Steel Steel Steel Supporting structures of bridges 15/2014 Past Steel Stee | | | | | | | |
|--|--------------|--|-------------|---------|---------|---------|---------|
| ASTINGO and in tension under bending according to CSN EN 12390-5 and in tension under bending according to CSN EN 12390-5 and in tension under bending according to CSN EN 12390-5 and in tension under bending according to CSN EN 12390-5 and in tension under bending according to CSN EN 12390-5 and in tension under bending according to CSN EN 12390-5 and in tension under bending according to CSN EN 12390-5 and in tension under bending according to CSN EN 12390-5 and in tension under bending according to CSN EN 12390-5 and the supplied samples. BCR ETROSTAV Set expulibrium moisture, hydroscopicity of dried sample, according to CSN EN 12390-5 and the sample to CSN EN 12390-5 an | Městská | Project management and expert supervision of the client within | | | | | |
| and in tension under bending according to CSN EN 12390-5 on the supplied samples S32/207 SZECH PAN Static load tests of I-OSB beams Inspection of Steel supporting structures of bridges lecraic BG Tests - equilibrium moisture, hydroscopicity of dried sample, AEROSTAN/determination of volcanic and desorption curve, relationship BR. O. and Sinták New retention tank at WMTP + EXV Seer, Prague airport SRCELORMI Processing of profile bearing capacity tables TAL ONSTR. SVK) SURJ SURJ TAL ONSTR. SVK) SURJ URJ | část Praha 7 | • • | 34/1331 | 19/752 | | | |
| the supplied samples | CASTINGO | · | | | | | |
| Image: Common Static Coad tests of HOSB beams S2/2063 | | and in tension under bending according to ČSN EN 12390-5 on | | | | | |
| pravia inspection of steel supporting structures of bridges elecnic BG Tests - equilibrium moisture, hydroscopicity of dried sample, AETROSTAV determination of volcanic and desorption curve, relationship 51/2012 BG Tests - equilibrium moisture, hydroscopicity of dried sample, AETROSTAV determination of volcanic and desorption curve, relationship 51/2012 BG Tests - equilibrium moisture, hydroscopicity of dried sample, AETROSTAV determination of volcanic and desorption curve, relationship 51/2012 BG Tests - equilibrium moisture, hydroscopicity of dried sample, and State 1 BG Tests - equilibrium moisture, hydroscopicity of dried sample, and State 1 BG Tests - equilibrium moisture, hydroscopicity of dried sample, and State 1 BG Tests - equilibrium moisture, hydroscopicity of dried sample, and State 1 BG Tests - equilibrium moisture, hydroscopicity of dried sample, and State 1 BG Tests - equilibrium moisture, hydroscopicity of dried sample, and State 1 BG Tests - equilibrium moisture, hydroscopicity of dried sample, and State 1 BG Tests - equilibrium moisture, hydroscopicity of dried sample, and State 1 BG Tests - equilibrium moisture, hydroscopicity of dried sample, and State 1 BG Tests - equilibrium moisture, hydroscopicity of dried sample, and State 1 BG Tests - equilibrium moisture, hydroscopicity of dried sample, and State 1 BG Tests - equilibrium moisture, relationship BG Tests - equilibrium relation of the design of the concept of a simple representation of the sample relationship BG Tests - equilibrium relation of the ballistic protection of the large BG Tests - equilibrium moisture, relationship BG Tests - equilibrium moisture, relationship BG Tests - equilibrium | | the supplied samples | | | | | 53/2071 |
| eleznic BG Tests - equilibrium moisture, hydroscopicity of dried sample, AETROSTAV determination of volcanic and desorption curve, relationship BG Tests - equilibrium moisture, hydroscopicity of dried sample, AETROSTAV determination of volcanic and desorption curve, relationship BC Detween gravimetric and CM method an Sinták New retention tank at WWTP + CKV Sever, Prague airport BCELORMI Processing of profile bearing capacity tables TAL OUNSTR. SVK) LIZACO Technical consultation in the design of the concept of a simple propeller turbine with a fixed radial distributor in a fountain arrangement akultni expert evidence emocnice tize BEGSAN expert evidence BEGSAN expert evidence BEGSAN expert evidence BESTOPADA BILANTI BILANT | CZECH PAN | Static load tests of I-OSB beams | 52/2063 | | | | |
| BG Fests - equilibrium moisture, hydroscopicity of dried sample, ALTROSTAV determination of volcanic and desorption curve, relationship B.R.O. between gravimetric and CM method an Sinták New retention tank at WWTP + ČKV Sever, Prague airport SO/1981 SIRCELORMI Processing of profile bearing capacity tables TAL ONSTR. SWK) LIZACO Technical consultation in the design of the concept of a simple propeller turbine with a fixed radial distributor in a fountain arrangement expert evidence separate vidence separate vi | Správa | Inspection of steel supporting structures of bridges | | | | | |
| ### AFTROSTAV determination of volcanic and description curve, relationship between gravimetric and CM method and Sinták Mew retention tank at WWTP + CKV Sever, Prague airport | železnic | | | | | | 51/2017 |
| AETROSTAV determination of volcanic and desorption curve, relationship R.R.O. between gravimetric and CM method and Sintiak New retention tank at WWTP+ČKV Sever, Prague airport S0/1981 | TBG | Tests - equilibrium moisture, hydroscopicity of dried sample, | | | | | |
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Note: List and describe contract research activities with a revenue in a given calendar year, regardless of the amount of financial revenue.

3.4 Research results with existing or prospective impact on society

The evaluated unit shall briefly comment on a maximum of 10 (considered most significant by the evaluated unit) research results already applied or realistically heading towards application during the period of 2019–2023, based on the overview annex table 3.4.1 (it is recommended to indicate results with a link to projects listed in indicator 3.3). The evaluated unit must demonstrate in its description that the research results have led or will soon lead to positive impacts²⁹, on society (e.g. description of how the results are used by various users, the range of persons/institutions for which

²⁹ See Terms definition.



the result is relevant, measurable economic impacts, etc.). The evaluated entity shall indicate in its commentary whether the gender dimension is considered in these results and discuss the impacts of the results regarding sustainability.

Maximum range 300 words/result.

Self-assessment:

VLTAVA Changes in the Historical Landscape, 2022, ISBN 978-80-01-07084-0.

The book documents the changes in the historical landscape around the Vltava River in a unique and systematic way. It provides an interpretation of the various aspects of landscape transformation, whether in the form of physical changes, or in the form of socio-economic impacts on the population living around the river. The individual phenomena associated with the Vltava - timber floating, the transport function of the river, tourism and tramping are described. New information is revealed and presented using new methods such as unmanned aerial vehicle surveys and sonar measurements of the river bottom. The book also includes a section dedicated to specific extinct sites around the Vltava. In terms of social relevance, the impact of the book is mainly in the areas of society and culture, and partly in the environmental field. Knowledge of changes in the historical landscape is essential for understanding the processes associated with major interventions such as the construction of the Vltava Dam Cascade or the displacement of the German population. The book is supplemented with a series of maps and photographs. The book is unique in its comprehensive treatment of the historical landscape surrounding the river. Such a treatment is unique even on the world scale. The uniqueness also lies in the cooperation of several experts in technical fields and social sciences. Maintaining information about the old landscape is one of the key issues in today's river revitalisation and improvement. Locating sites and individual phenomena on maps and historical photographs helps society realize the symbiosis of man and landscape. The book has been very well received in the geographic and cartographic community and is almost sold out.

European Design Guide for the Use of Weathering Steel in Bridge Construction, Brussels: ECCS European Convention for Constructional Steelwork, 2021. ISBN 978-92-9147-171-3.

On 86 pages, this comprehensive guide book covers the latest state-of-the-art knowledge and includes results of the latest research in the area of weathering steel. The importance of weathering steel is rising because of the increasing demands for sustainable materials with low maintenance and circular solutions for bridges. The weathering steel can be used without painting during the life cycle. If properly done, designs that exploit weathering steel can strongly reduce emissions from the painting and blasting of coating (usually done 4x in the bridge lifetime), reduce the emissions from traffic restrictions during bridge paintings, and thus significantly contribute to sustainable development (see, for example, http://www.designlife-cycle.com/corten-steel-1). The author team comprises 22 well-known experts in the area, who bring in the experience of the European bridge community. Nowadays, this book is the most recent document on the use of weathering steel in practice. It is promoted and cited on the websites of most of the steel research institutes, such as ECCS, Constructalia, Stålbyggnadsinstitutet, SSAB, librosingenieria, Teräsrakenneyhdistys.

Czech historical atlas (<u>Český historický atlas</u>), Software, 2020.

The web map portal Czech Historical Atlas (https://cha.fsv.cvut.cz) provides a comprehensive view of Czech history in the context of Central Europe in the form of interactive maps, using almost 200 map applications. The portal is unique on the global level, because historical maps are usually presented only in their static form. The processing of the maps has been very well prepared by erudite experts in the fields of history and historical geography. Cartographically, the maps are processed in the form of web map applications in Czech and English versions. The use of new web mapping technologies, such as the use of time sliders or object interactivity, provide new perspectives on historical events and can better shape the view of Czech history. From a professional point of view, the portal shows how historical information can be transferred to the web and presented appropriately. In 2020, the web map portal was awarded the Map of the Year prize in the Digital Cartographic Products category by the Czech Cartographic Society (https://geomatics.fsv.cvut.cz/en/cesky-historicky-atlas-ziskal-titul-mapa-roku-2020/). It is a unique project that enables society to better understand history and allows visualization of previously unpublished phenomena. The social impact of such a portal on society is thus enormous. The portal has had more than 80 thousand unique accesses on the Internet in the last 3 years, of which approximately 10 thousand are foreign.

Methodology for the evaluation and protection of buildings from the second half of the 20th century (with a focus on the architectural heritage of the 1960s and 1970s) regarding their (possible) monument protection, 2020.

The methodology approved by the Ministry of Culture (MK 25708/2020 OVV) was the main result of the project DG16P02R007, implemented within the NAKI II programme, funded by the Ministry of Culture of the Czech Republic. The aim was to establish a methodological procedure for research, identification, documentation, registration and evaluation of architecture of buildings and building units designed and constructed in the second half of the 20th century in the Czech lands of the former Czechoslovak Socialist Republic. The methodology is based on research into the architecture of the 1960s and 1970s, but its basic procedures are generally applicable to 20th century architecture. The aim is to contribute to general



awareness of the values of the hitherto overlooked architectural heritage in the Czech Republic and to general information about the possibilities of its protection. The methodology builds on the project database of buildings and complexes examined, together with an expert interactive map, publicly accessible in the open application of the Monument Catalogue within the Integrated Information System for Monument Protection (PK IISPP) of the National Monument Institute where, through keywords, address, fulltext or map searches, experts as well as the general public can obtain essential information and use it in the evaluation of selected buildings and building complexes. The intended users are the staff of the monument care in both the professional and executive components, i.e., employees of the professional institution National Heritage Institute and officials of the monument care units of regional authorities and municipalities with extended competence. https://www.yumpu.com/cs/document/read/65069406/metodika-hodnoceni-a-ochrany-staveb-2-poloviny-20-stoleti.

Benchmark cases for advanced design of structural steel connections - Third extended edition, Prague, CTU Publishing House, 2019. ISBN 978-80-01-06565-5.

This publication describes, on 245 pages, the newly developed Component-based method of finite element design. This method combines analytical models of components, bolts, welds and anchor bolts with finite element analysis of steel plates. It allows users to simulate the behaviour of steel structures using a model of joints with shell elements with reasonable accuracy. Open section joints are solved by material nonlinear analyses with imperfection using the assumption of small strains, while the analyses of hollow section joints consider large strains. The method is used in 86 countries and, due to its generality, replaces the previous analytical models. Implementation of FEA models allows one to properly analyze and design generally loaded joints with complex geometries. Engineers can thus quickly and accurately assess the buildability and safety of steel projects, regardless of the complexity of steel connections. Benchmark cases for validation and verification procedures of structural steel joints are described in the last chapters. The validation and verification hierarchy is prepared for welded and bolted connections as well as for column bases. Each benchmark case starts with a task description and includes results of prediction by an analytical model according to EN 1993-1-8, references to experiments, a validated model and numerical experiments, results of prediction by Finite Element Analyses described in terms of global behavior, and verification of resistance. The readers can check their calculations for benchmark cases prepared for particular joints. This publication is used worldwide to teach the new design method and by at least five software manufacturers to prepare their programs and verify their appropriate use. The readers are structural engineers and fabricators involved in steel projects.

Open-source, multi-physics, parallel finite element code OOFEM.

OOFEM, originally developed and actively maintained at FCE, has advanced and unique features, including state-of-the-art models for nonlinear fracture and damage mechanics of quasi-brittle materials, advanced models for linear and nonlinear statics and dynamics, stationary and transient (linear and nonlinear) heat transfer and coupled heat and mass transfer problems and transient incompressible flow analyses. The code is used worldwide in many academic and research organizations (e.g., Chalmers University, VUT Brno, Northwestern University, University of Glasgow, University of British Columbia, University of Sassari) and has been applied to commercial problems (CEZ – long term analysis of NPP containment, HILTI – anchor design, Metrostav – condensation in tunnels, FKS BVBA – design of steel profiles, Lafarge – prediction of hydration kinetics, European Space Agency – throttle design). Developed and actively maintained since 1993 with more than 600 registered users on the OOFEM user forum, 2019-2023, www.oofem.org.

Heritage procedure for diagnostics, inspection and assessment, renovation and strengthening of industrial heritage bridges. Procedure for the survey, assessment, repair and strengthening of industrial heritage bridge structures, which provides a common platform for communication between the professional professions and the heritage authorities. It is intended for designers who propose diagnostic methods necessary for the structural assessment of a historic bridge, methods for bridge repair and reconstruction, and for heritage professionals who supervise survey, design and implementation work on listed buildings. It provides designers with information on the basic principles of decision-making in conservation. For conservationists, it presents an overview of diagnostic methods and procedures for repairing and strengthening historic steel bridge structures, including information on their capabilities and limitations. The goal is to find survey procedures and methods that ensure the highest quality of information obtained about the structure and its materials while minimizing the negative impact on its heritage value. The heritage procedure respects the heritage values of historic metal bridges and provides procedures leading to minimal intervention on the structure during the diagnostic survey and a basis for restoration design, thereby helping to preserve these heritage assets for future generations. The economic impact resulting from the extension of service life is in the order of tens of millions of CZK. The gender dimension can be estimated as balanced. The procedure was created in 2022 with the support of the Ministry of Culture of the Czech Republic within the Programme for Support of Applied Research and Experimental Development of National and Cultural Identity within the project "Methods for Ensuring Sustainability of Steel Bridge Structures of Industrial Cultural Heritage" with reg. no. DG18P02OVV033.

Regulation for Building Information Modeling (BIM) for transport infrastructure - Data standard. The regulation is used in the preparation and implementation of road, railway and waterway constructions provided by the departmental investor organisations (Railway Administration, Waterways Directorate) on selected construction sites. In the years 2021-2023, there



were about 35 projects with an investment value of over 1 billion EUR. The regulation is used to digitalize these projects, i.e. to streamline the preparation and implementation of infrastructure constructions, including their environmental impact. The Code has been used by the ministerial investor organisations as part of the terms of reference for the selection of designers or contractors. This regulation was issued by the State Fund for Transport Infrastructure and certified by the Central Commission of the Ministry of Transport. The code was also approved in two rounds by the so-called Technical Drafting Team and the SFDI BIM Council, where practitioners are represented through associations such as CACE, SVS, SPS and ARI. The Rules of Procedure and the Certified Code itself are publicly available (https://sfdi.gov.cz/bim/) and therefore for use by the general professional public. The use of the regulations can be traced on the publicly available contracting authority portals for specific projects and framework contracts. A number of suppliers have implemented the Code in their software for the preparation of digital models of buildings (e.g. AutoCAD Civil 3D, Benteley Road and Rail Designer and Roadpac). The text of the regulation avoids gender stereotypes and uses language that respects gender equality. The regulation is intended to improve the quality of infrastructure construction projects and to make the preparation and implementation of such projects more efficient through digitalization.

Certified methodology for protecting soil from erosion through climate - and environmentally friendly agricultural practices, 2021. The methodology is based on more than 400 measurements of soil loss by erosion using a rain simulator on the most common crops and their cultivation technologies in Czechia. It evaluates methods of erosion control on farms that will be effective and feasible without the use of glyphosate and that will not compromise the competitiveness of Czech agriculture. In line with the objectives of the Common Agricultural Policy, the anti-erosion effect for the most widespread technologies was evaluated. A comprehensive compilation of the vegetation protection factor values as well as a list of verified crops with intermediate values of the sediment removal ratio is provided. In practice, the erosion hazard assessment is part of all land improvement projects and is a necessary component in the subsidy applications from EU programmes. The outputs are useful both for policy setting and as an advisory tool, as the continuous pattern of vegetation protection factor values allows the determination of the soil protection effect depending on the time of sowing, harvesting and the occurrence of hazardous rainfall according to the real conditions. Currently, the maximum soil loss in the Czech Republic is estimated at approximately 21 million tonnes of topsoil annually, which can be expressed as a loss of at least 170 million EUR per year. It should be stressed that this is not a quantification of property damage, but only a financial expression of soil loss based on the price of the soil. If these costs are also included, the damage is estimated to be up to 400 million EUR per year (Ministry of Agriculture). Therefore, reducing erosion damage leads to significant savings.

Stone Prague. Stoneworking of Historical Buildings of the Capital City of Prague.

The publication, covering almost 680 pages, presents unique results of fifteen years of research on the stone surface working in the historical area of Prague. It captures the thousand-year history of the development of the stonemason craft and puts it in the worldwide development context. The monograph was written by 14 experts in various fields, ranging from technical and natural sciences to historical sciences, which makes the publication unique. Besides the identification of the tool traces on about 600 stone blocks and artifacts made of it, the stonemason's tools used have been identified on the basis of traceological analysis and the working procedure has been described for each of them. All the results obtained about the tools used and the individual working stages are illustrated. Each stone element has its own unique detailed card describing its location in the object and how it was created. In the text part of the book, the individual historical objects are briefly introduced by describing their construction and historical development, and each stone element is characterized in terms of material composition, with an indication of its current state. It also documents the available sources of building stone in a given historical period. Traces of historic working methods are an integral part of the value of any monument, evidencing the story of its origin. This publication is therefore a unique tool for workers of monument care, from building historians to restorers, who can use it routinely in their practice. At the same time, the book is also enriching in its content for the general reader, as it presents aspects that an ordinary person misses when visiting monuments and brings a new perspective on their perception,

(https://www.researchgate.net/publication/369998112_Praha_kamenna_Kamenicke_opracovani_historickych_staveb_Hlav niho mesta Prahy).

Table 3.4.1 - Overview of research results in the period under evaluation

| Type of result ³⁰ | Year of application | Name |
|------------------------------|---------------------|---|
| Book | 2022 | VLTAVA Changes in the Historical Landscape (VLTAVA proměny historické krajiny), ISBN 978-80-01-07084-0. |

³⁰ Specify the specific type of result. Add rows as needed.

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| Design guide | 2021 | European Design Guide for the Use of Weathering Steel in Bridge Construction, Brussels: ECCS European Convention for Constructional Steelwork, ISBN 978-92-9147-171-3. |
|-----------------------|-----------|--|
| Software | 2020 | Czech historical atlas (https://cha.fsv.cvut.cz/en/) |
| Approved Methodology | 2020 | Methodology for the evaluation and protection of buildings from the second half of the 20th century (with a focus on the architectural heritage of the 1960s and 1970s) with regard to their (possible) monument protection. |
| Book | 2019 | Benchmark cases for advanced design of structural steel connections - Third extended edition, Prague, CTU Publishing House, ISBN 978-80-01-06565-5. |
| Software | 2019-2023 | Open-source, multi-physics, parallel finite element code OOFEM (<u>www.oofem.org</u>). |
| Heritage procedure | 2022 | Heritage procedure for diagnostics, inspection and assessment, renovation and strengthening of industrial heritage bridges |
| Data standard | 2021 | Regulation for Building Information Modeling (BIM) for transport infrastructure - Data standard |
| Certified methodology | 2021 | Certified methodology for protecting soil from erosion through climate- and environmentally-friendly agricultural practices. |
| Book | 2022 | Stone Prague. Stoneworking of Historical Buildings of the Capital City of Prague. |

Note 1: Please list and describe the results already applied in practice or heading towards application in practice with existing or prospective impact on the society (e.g. domestic or foreign patents, sold licenses, spin-offs, prototypes, varieties and breeds, methodologies, significant analyses, surveys, expert outputs for policymaking or other forms of non-publication outputs, etc.). Indirect results of research, development and creative activities with documented societal impact, e.g. expert activities, services to the public/government/scientific community, may also be reported.

TRANSFER OF RESULTS INTO PRACTICE

3.5 Transfer of results into practice



The evaluated unit shall briefly describe its system for transferring results into practice. It shall also indicate up to five of the most typical users of its results, whether in the university environment or in the non-university application/corporate sphere, detailing how it collaborates with them and how it seeks out new users (using a maximum of five specific examples).

It will also indicate whether and how it commercialises R&D&I results (e.g. selling licences, setting up start-up or spin-off companies, etc.)³¹, providing brief description of the commercialisation methods used. The effectiveness of the transfer of results and the commercialisation of R&D&I results will be described using a selection of results (max. five) listed in annex table (Table 3.4.1).³²

Additionally, the evaluated unit shall briefly comment on the funds received during the period of 2019–2023 from non-public, non-grant sources (e.g. licences sold, spin-off revenues, donations, etc.). A full summary shall be provided in annex table (Table 3.5.1).

Maximum 500 words plus 200 words for each provided example of finding a new user of results and commercialization.

Self-assessment:

The faculty has a well-structured system for technology transfer. This system combines services provided at the university level with local services to support the transfer of knowledge and scientific results into practical applications. Here are some key components:

- The University Centre for Technology Transfer provides specialized services and support in the realm of Intellectual Property (IP) and its commercialization. It assists with IP management, protection, and application both within the Czech Republic and internationally.
- The InQbay Incubator offers a range of services to support startups and spin-off companies, including Legal, Accounting, Marketing and Consultation services.
- Faculty Services include an Advisory Board for Commercialization that assists with business and legal aspects, a patent search service, and a dedicated technology transfer support office.
- The Motivation System encourages and recognizes authors of successful technology transfers.

FCE has fostered enduring collaborations and partnerships with various sectors, including major construction firms, national organizations, and small to medium-sized enterprises. The unit actively engages in and hosts numerous networking events and platforms to identify industry needs and provide tailored solutions. Through these efforts, in addition to personal connections, the comprehensive multidisciplinary expertise and resources offered by FCE and CTU play a pivotal role in the acquisition of new clientele. These partnerships often commence with joint research projects that deliver applied outcomes aligned with client requirements. Typical beneficiaries of FCE's work include construction companies of all scales (via licensing) as well as national and municipal authorities (through methodologies, standards, etc.).

A common scenario involves outcomes stemming from collaborative projects with industrial partners. These joint results are then utilized by the industrial partner, generating future license fees. However, FCE possesses numerous results with commercial potential, which are not yet at a sufficient Technology Readiness Level (TRL) for direct commercial application. To bridge this gap, additional effort and funding are required, which FCE finds challenging to support through its own resources. Additionally, there is a shortage of companies or institutes that can serve as a bridge between academia and industry to facilitate this transition.

The most substantial contributions (gifts) within a reporting period have been provided by industrial partners such as Hochtief CZ (59k EUR) for student activities, competitions, support for gifted students, and teaching room equipment. Metrostav, a.s. (53k EUR) supports science and education, while VINCI Construction CS, a.s. (22k EUR) also contributes to student activities, competitions, support for gifted students, and teaching room equipment. Syner s.r.o. (16k EUR) supports student activities and competitions.

Selected examples of successful commercialization of R&D&I results include

SELF-EVALUATION REPORT FOR MODULE 3

³¹ In the case of military HEIs, their specific position is taken into account when evaluating the commercialisation/evaluation of R&D&I results.

³² If the commercialisation of R&D&I results is carried out in this way.



- License "Hybrid beam made of glass and steel", sold to OGB, s.r.o. (8k EUR),
- Research and development of a "Mobile protective and ballistic barrier consisting of a composite plate and water filling" for STRIX Chomutov (6.1k EUR),
- License "Multifunctional high-value cementitious composite with increased impact resistance" sold to Stachema CZ (4.0k EUR),
- License "Ultra-high strength fiber concrete" sold to JEAN PAUL WHITECASTLE, spol. s r.o. (2.9k EUR).

The Faculty is registered expert institution providing expert assessment in the following fields: Civil Engineering, Geodesy and Cartography, Economics, and Design. The Faculty has been a long-standing member of the Chamber of Court Experts of the Czech Republic.

Through this membership, the Faculty is part of the multinational organization EuroExpert (https://euroexpert.org/), which brings together more than 50,000 forensic specialists, experts, and professionals from the EU. During the evaluation period, the GEOSAN Group represented the main client, both in terms of frequency and volume of assignments.

Additionally, the FCE **Accredited Testing Laboratory** provides a wide range of accredited commercial testing services. The most important client for the laboratory in the period in question is the Road and Motorway Directorate. The laboratory carried out a number of evaluations during the period, both on structures (bridges, tunnels, retaining and frame walls) and materials (concretes, asphalt mixtures, ashes, aggregates, soils).

Table 3.5.1 - Summary of non-public revenues received during the period under evaluation

| Type of revenue | Revenue (in thousands CZK/EUR) | | | | | | |
|-------------------------------|--------------------------------|--------------|--------------|-------------|--------------|--|--|
| | 2019 | 2020 | 2021 | 2022 | 2023 | | |
| | | | | | | | |
| Gifts | 1261/49744 | 314/12387 | 411/16213 | 1041/41065 | 1141/45009 | | |
| Licences sold | 151/5957 | 70/2761 | 121/4773 | 38/1499 | 40/1578 | | |
| Accredited Testing Laboratory | | | | | | | |
| | 6445/254240 | 7866/310296 | 7893/311360 | 6572/259250 | 8251/325483 | | |
| Expert Assessments | 1440/56805 | 5525/217949 | 2861/112860 | 1493/58895 | 8350/329388 | | |
| Total | 9297/366745 | 13775/543392 | 11286/445207 | 9144/360710 | 17782/701460 | | |

Note: Enter funds raised for R&D&I from non-public sources besides grants or contract research (e.g. licences sold, spin-off company revenues, donations, etc.) in the calendar year.

POPULARIZATION OF VAVAI

3.6 The most important activities in the field of popularization of R&D&I and communication with the public

The evaluated unit shall briefly describe its main activities related to the popularisation of R&D&I and communication with the public (e.g. popularisation lectures, citizen science initiatives, etc.) during the period of 2019–2023 and provide up to 10 examples that it considers the most significant.

Maximum 500 words plus 200 words for each example given.

Self-assessment:

FCE is dedicated to popularizing, disseminating, and communicating knowledge in the field of civil engineering. Popularization and Dissemination Activities include Public Seminars and Workshops, where FCE regularly organizes public seminars and workshops that focus on various civil engineering topics. These events provide opportunities for the public to learn about the latest advancements, research, and best practices in the field. The faculty hosts popularization events, such as open days and public lectures, aimed at increasing awareness and interest in civil engineering among the general public.

FCE also actively participates in large-scale public events, such as science festivals and exhibitions. These events allow faculty to showcase its research, projects, and innovations to a broader audience.

FCE actively cooperates with secondary schools to promote civil engineering education and FCE competencies. This cooperation includes organizing educational programs, workshops, and lectures for students. FCE is a partner school of the Secondary school of Civil Engineering in Dušní Street in Prague.



FCE engages in the University of the Third Age (U3V), offering courses and activities for senior citizens who are interested in continuing their education. These programs cover various civil engineering topics and aim to make lifelong learning accessible to older adults.

FCE actively engages with the media to disseminate information about its research, projects, and events. This includes the posting of press releases, conducting interviews, and working in collaboration with journalists to ensure that the public is informed about the latest developments in civil engineering.

Selected examples of the popularization of R&D&I and communication with the public:

- Hall of the Year FCE has been organizing this competition since 1986. The task of competitors is to design and produce
 a model of the building structure according to a specific assignment and to subject it to a load test. Since 2007, high
 school students have also competed in the special Junior category, and since 2023, the international Advanced category
 for doctoral students has been opened. The competition is supported by many industrial partners, including Hochtief,
 Wienerberger, Saint-Gobain, Gemo, Syner, and the Directorate of Roads and Highways.
 (https://halarokuakademik.fsv.cvut.cz/en/).
- Inspireli Awards FCE is a founding member and active organizer of Inspireli Awards competition, the world's largest
 global student contest in Architecture, Urban Design and Landscape, and Interior Design, with participants from more
 than 40 countries (https://www.inspireli.com/en/).
- FCE Technical Thursdays regular, open events for the public, students, professionals to meet over unique projects, implementations and technologies with invited guests. The recordings are also available online on YouTube and Facebook.
- FCE Participation in Children's University The aim of this project is to arouse children's interest in technical fields.
 Children will have the opportunity to experience the university way of education and get acquainted with various technical fields in an engaging way. We believe that the activities within the university will motivate children to take further interest in STEM subjects and later to pursue university education in this area.
- FCE annual participation in World Water Day targeted at the professional public, offering presentations of FCE researchers dealing with water about their projects and results, and providing guided tours of FCE unique facilities and running experiments at FCE Water Management Experimental Centre (https://www.fsv.cvut.cz/den-vody-na-fakulte-stavebni-cvut-2024/).
- National Construction Centre (NSC 4.0) plays a key role in bringing the latest technologies in the construction industry closer to the general public and professionals. With its emphasis on digitization, sustainability and automation, it helps popularize modern construction technologies such as BIM modeling, 3D printing in construction and the use of artificial intelligence. NSC connects academia with industry, supporting the transfer of innovations to the real environment. In terms of communication with the general public, NSC 4.0 has many activities for the general public, such as Building Literacy, influence awareness of modern construction through public presentations, conferences or media coverage of research results. FCE is a founding member of this platform (https://www.ncs40.cz/).
- GISDAY As part of the annual Global GIS Day, FCE is organizing a series of lectures and presentations on GIS
 applications in diverse fields with an informal atmosphere, open to the general and professional public
 (https://www.fsv.cvut.cz/gisday-2024/).
- FCE Gallery, founded in 2018 and accessible to the general public, is located in the central area of the faculty, where students, teachers and visitors to the faculty pass. The gallery's program includes exhibitions from various art disciplines, art photography, architecture and design. Exhibitions of professional artists alternate with exhibitions of talented young authors, and students of the faculty also find opportunities here. The gallery thus contributes to the education of young technical experts into personalities with a broad general and cultural outlook, but at the same time welcomes all other fans and lovers of architecture and art. A total of 31 public exhibitions took part in the evaluation period (https://galerie.fsv.cvut.cz/).

IMPLEMENTATION OF RECOMMENDATIONS

3.7 Implementation of the recommendations in Module 3

The evaluated unit will briefly describe how it has implemented the recommendations for Module 3 from the previous evaluation period, if applicable.

Maximum 1000 words.



Recommendation: A greater percentage of high-level research projects, funded e.g. by the ERC, would be beneficial to the international reputation of the Faculty of Civil Engineering. It is recommended to reduce the number of small industrial projects. At the same time, efforts should be made to attract larger projects. This would give more freedom to stimulate more research-oriented activities. It is also recommended to increase the percentage of revenues from EU-funded projects. The level of this percentage is frequently used as an indicator of the quality of research.

Since the last evaluation, FCE has significantly increased its involvement in EU and other international research projects. The number of projects with FCE as a beneficiary has risen from 6 to 22, while its role as a participant has risen from 13 to 37. This growth has led to a significant increase in international project funding, from 2.74M EUR in the previous reporting period to 51.86M EUR in the current period (as a sum of the relevant records in Tables), which represents an almost 19-fold increase.

A key achievement during the current period was the FCE's transition to a coordinating role for larger projects. While no EU research projects were coordinated in the previous evaluation period, FCE has since coordinated two H2020 projects (Geoharmonizer and RECONMATIC). In addition, one ERC Starting proposal progressed to the second evaluation round and, after receiving a final score of "B," secured two years of equivalent national funding through the ERC.cz scheme.

In direct response to the recommendations of the previous evaluation committee, FCE has adopted three strategic incentives to attract more high-level projects:

- <u>Personalized grant support</u>: Since 2022, FCE has provided an individual, long-term mentoring program to help researchers prepare competitive project proposals. As of 2024, this initiative has already helped early-career researchers secure 1.5M EUR in funding.
- "What will my next project be about?" initiative: Launched in 2023, this program offers weekly informal meetings to
 foster the development of research ideas and to refine existing proposals. Initially a faculty-level activity of FCE, it has
 now been extended to the entire CTU.
- <u>FCE initiation fund</u>: This funding scheme directly supports young researchers in preparing high-impact project proposals by covering personnel costs, grant preparation services, and networking with internationally recognized researchers.

Through these focused initiatives, FCE has broadened its funding sources and enhanced its competitiveness for highly selective local and global grants.

Recommendation: Starting already from a high level, the output would further increase in the coming years if the research profile was further sharpened by defining clear research foci. A necessary condition for this is a close link to industry, including fundamental research activities, serving as the basis for future application-oriented research.

The FCE's strategic plan outlines the faculty's key research directions, as detailed in Section 3.1, in a top-down manner. These directions are strategically aligned with national priorities and address the evolving needs of industrial partners, ensuring a strong connection between fundamental research and application-driven innovation.

At the same time, FCE cultivates a dynamic bottom-up research culture to encourage the development of independent and emerging research topics. This goal is primarily supported by the above-mentioned targeted initiatives for early-stage researchers and young scientists, allowing them to explore transformative research ideas that could serve as the basis for future industry-driven applications.

Recommendation: The revenues from licences increased by a factor of about 2. The overwhelming majority of revenues from non-public sources in the period 2014-2018 comes from gifts. Altogether, these revenues are not very significant. Efforts are required to improve this situation. The output of filed and granted patents in the reported time period is very good. However, no spin-offs were launched in this time period. Moreover, the amount of revenues from sold licences is not known. It is recommended to develop a strategy for stimulating spin-offs from applied research activities.

Since the last reporting period, CTU has established a Technology Transfer Unit (TTU) to enhance support for commercialization, industrial cooperation, and spin-off development. While CTU has one registered spin-off (Mob-bars, s.r.o., 2016) operated by FCE staff, no additional spin-offs have been launched since 2016. However, CTU is now providing targeted consultancy and support services, which are expected to improve this situation in the upcoming evaluation period.



Regarding technology transfer income, FCE's income from sold licenses rose from 6.8k EUR to 16.5k EUR. However, absolute revenues remain modest, and further efforts are required to scale up licensing activities. A key obstacle is the absence of intermediary institutions or industry partners that can bridge academia and commercial applications.

To partially address these challenges, the CTU has established an incentive system for researchers contributing to successful technology transfers.

Recommendation: The better the quality of the research carried out by the evaluated research unit, the greater the probability of an increase in acknowledgments. In connection with this, personal acquaintances, made at international congresses and conferences, play a great role. The average duration of doctoral studies should be reduced. The same should be done with the involvement of researchers in administrative activities.

To enhance the efficiency of doctoral studies, the CTU has internally set the maximum duration to six years, as a reduction of the national limit of seven years. Additionally, FCE has incentivized PhD supervisors whose students finish their studies in four years or less, to promote the timely completion of Ph.D. training.

FCE actively supports international networking to increase research visibility, foster collaborations, and enhance recognition. During the reporting period, FCE co-organized and participated in numerous international events, for instance:

- Six major international conferences, including the iiSBE Forum of Young Researchers in Sustainable Building (2019) and the IABSE Symposium Prague (2022).
- 16 national conferences and workshops, fostering collaboration between the academic and industrial communities.
- 10 additional international events, further strengthening global research connections.

FCE established the Project Administration and Support Department in 2022 to reduce the administrative burden on researchers. This department provides comprehensive project management support, covering proposal preparation up to sustainability phases. It manages more than 45 projects, including 13 international projects (8 Horizon Europe and 5 other international projects) and large national-scale research initiatives.

A LIST OF SUPPORTING DOCUMENTS/LINKS FOR MODULE 3

| Document name | No. criteria | Location (link in HTML) |
|---|-----------------|--|
| Bibliometrical Report, Research, Development and Innovation Council | 3.1 | https://hodnoceni.rvvi.cz/hodnoceni2023/biblio-obory |
| QS World University Ranking by Subject 2025 | 3.1 | https://www.topuniversities.com/subject-rankings |
| International Society for Soil Mechanics and Geotechnical Engineering | 3.2 | https://www.issmge.org/ |
| International Society for Photogrametry and Remote Sensing | 3.2 | www.isprs.org |
| IABSE Symposium Prague | 3.2 | https://www.iabse.org/prague2022 |
| iiSBE Forum of Young Researchers in Sustainable Building | 3.2 | https://cesb.cz/yrsb/ |
| Central Europe towards Sustainable Building 2019 | 3.2 | https://19.cesb.cz/ |



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|--|-------|--|
| International Conference on Local Mechanical Properties 2019 | 3.2 | http://Imp-conference.cz/ |
| International Conference on Lightweight Structures Architecture | 3.2 | https://alk20.wixsite.com/alk20?lang=en |
| largest creep and shrinkage database for structural concrete | 3.2 | https://doi.org/10.5281/zenodo.8150176 |
| Civil Engineering Journal | 3.2 | https://lfgm.fsv.cvut.cz/CivilEngineeringJournal/index.htm |
| TAČR Award 2023 in the BUSINESS category | 3.2.1 | https://tacr.gov.cz/den-ta-cr-2023-veda-neni-sci-fi/ |
| International Soil and Water Conservation Research | 3.2.2 | https://www.keaipublishing.com/en/journals/international-soil-and-water-conservation-research/editorial-board/ |
| Cement and Concrete Research | 3.2.2 | https://www.sciencedirect.com/journal/cement-and- concrete-research/about/editorial-board |
| Cement and Concrete Composites | 3.2.2 | https://www.sciencedirect.com/journal/cement-and- concrete-composites/about/editorial-board |
| ISPRS Journal of Photogrammetry and Remote Sensing | 3.2.2 | https://www.isprs.org/news/newsletter/default.aspx |
| Energy & Buildings | 3.2.2 | https://www.sciencedirect.com/journal/energy-and- buildings/about/editorial-board |
| Advances in Engineering Software | 3.2.2 | https://www.sciencedirect.com/journal/advances-in- engineering-software/about/editorial-board |
| Journal of Constructional Steel Research | 3.2.2 | https://www.sciencedirect.com/journal/journal-of- constructional-steel-research/about/editorial-board |
| Journal of Hydrology and Hydromechanics | 3.2.2 | http://www.uh.sav.sk/jhh/Journal-information/Associate- Editors |
| Computers & Structures | 3.2.2 | https://www.sciencedirect.com/journal/computers-and- structures/about/editorial-board |
| Acta Mechanica | 3.2.2 | https://link.springer.com/journal/707/editorial-board |
| Geo-harmonizer project | 3.3 | https://ecodatacube.eu/ |
| Roboprox project | 3.3 | https://roboprox.eu/ |
| the Open Mechanics Group | 3.3 | https://openmechanics.fsv.cvut.cz |
| RECONMATIC project | 3.3 | https://www.reconmatic.eu/about |
| Autonomous Robotic Construction System demo | 3.3 | https://www.youtube.com/watch?v=4XmYAPAaf2M |
| Czech historical atlas, Software, 2020. | 3.4 | https://cha.fsv.cvut.cz |
| Map of the Year prize in the Digital Cartographic Products category by the Czech Cartographic Society | 3.4 | https://geomatics.fsv.cvut.cz/en/cesky-historicky-atlas- ziskal-titul-mapa-roku-2020/ |
| OOFEM: open source FE solver | 3.4 | www.oofem.org |



| Rules of Procedure and the Certified Code | 3.4 | https://sfdi.gov.cz/bim/ |
|---|-------|--|
| Stone Prague. Stoneworking of Historical Buildings of the Capital City of Prague. | 3.4 | https://www.researchgate.net/publication/369998112 Pr aha kamenna Kamenicke opracovani historickych stave b Hlavniho mesta Prahy |
| Czech historical atlas | 3.4.1 | https://cha.fsv.cvut.cz/en/ |
| OOFEM software | 3.4.1 | www.oofem.org |
| Euroexpert | 3.5 | https://euroexpert.org/ |
| Hall of the year competition | 3.6 | https://halarokuakademik.fsv.cvut.cz/en/ |
| Inspireli award | 3.6 | https://www.inspireli.com/en/ |
| World Water Day | 3.6 | https://www.fsv.cvut.cz/den-vody-na-fakulte-stavebni- cvut-2024/ |
| National Construction Centre | 3.6 | https://www.ncs40.cz/ |
| GIS days | 3.6 | https://www.fsv.cvut.cz/gisday-2024/ |
| FCE gallery | 3.6 | https://galerie.fsv.cvut.cz/ |
| Personalized grant support | 3.7 | https://portal.fsv.cvut.cz/en/vvc/pp.php |
| "What will my next project be about?" initiative | 3.7 | https://roboprox.eu/news/seminar-what-will-my-next-project-be-about/ |
| FCE initiation fund | 3.7 | https://portal.fsv.cvut.cz/vvc/projekty/inicfond.php |