

## **Modul 3 Social relevance**

### **Faculty of Technology**

#### **FORD 2. Engineering and Technology**

##### **Topic 3.2 and 3.3 Applied research project, Contract research**

**Self-evaluation:** In the monitored period, the following most important projects were solved (in addition to these projects, several projects of applied research in the form of innovation vouchers, etc. were solved):

**TA04010579:** Gear pumps of the new generation, Provider: Technologická agentura České republiky, Main contractor: Jihostroj a.s., Investigator: Ing. Jiří Ambrož, Project solution period: 2014 - 2017 (total project budget 25 mil.) - project evaluation according to TAČR: "The output of the solution are new types of gear pumps with increased performance parameters. The solution of the project was implemented at a good professional level, the planned results and outputs were achieved. The usability of the results is assumed at the recipient in the form of output-pump production. It can be stated that the project succeeded according to the assignment. "

**TA04031723:** Methodology for determining the intensity of traffic on urban roads., Provider: TA0 - Technology Agency of the Czech Republic, Main contractor: B&C Dopravní systémy s.r.o., Investigator: Ing. Pavel Beneš, Ph.D., Project solution period: 2014–2016 (total budget 5.9 mil.) - evaluation of the project according to TAČR: "Although the results of the project do not have a highly commercial potential, they are useful especially in terms of determining and predicting the load of transport infrastructure road transport. The benefits of the project results can be seen primarily in the area of societal benefits. "

**LTC17040:** Regional airports in the Czech and Slovak Republics and the impact of their operation on the economic development of the region, Provider: MSM - Ministry of Education, Youth and Sports, Main contractor: Vysoká škola technická a ekonomická v Českých Budějovicích, Investigator: doc. Ing. Rudolf Kampf, Ph.D., Project solution period: 2017 - 2019 - The project aimed to identify the relationship between air transport and economic development of the region in specific regions of the Czech and Slovak Republics and then analyze these links in order to find key factors with positive or negative impact on the region's economy. A database was created including socio-demographic, socio-economic, economic and other data for all NUTS2 regions in the Czech Republic and Slovakia, as well as key data on individual international public airports in the Czech Republic and Slovakia including performance, technical, capacity, economic, economic and other data. The research results are used with regard to the development of the regional airport in České Budějovice

In the monitored period, we also managed to obtain other projects, which began to be solved in the following period. These are mainly projects:

**TH04020055:** Research and development of zinc waste recycling technology in the production of high quality castings from zinc alloys, Provider: TA0 - Technology Agency of the Czech Republic, Main contractor: GD Druckguss s.r.o., Investigator: Ing. Roman Kubeš, Project solution period: 2019–2022 (total project budget CZK 16.8 million)

**FV40346:** Research and development of improved technological processes for the production of ductile iron castings with the implementation of 3D scanning in the quality management process, Provider: MPO - Ministry of Industry and Trade, Main contractor: MOTOR JIKOV Slévárna a.s., Investigator: Ing. Tomáš Prášil, Project solution period: 2019–2022 (total budget 38.4 mil.)

**FV40036:** Research and development of complex technology of production of castings from high quality ductile iron, Provider: MPO - Ministry of Industry and Trade, Main contractor: KOVOSVIT MAS Foundry, a.s., Investigator: Ing. Miroslav Chmiel, Project solution period: 2019–2022 (31 mil.)

**TH04010449:** Research and development of refining technologies to increase the quality of aluminum alloys intended for highly demanding castings, Provider: TA0 - Technology Agency of the Czech Republic, Main contractor: MOTOR JIKOV Slévárna a.s., Investigator: Ing. Tomáš Prášil, Project solution period: 2019–2022 (total project budget CZK 34.8 million)

From the above overview and focus of the project, it is clear that the projects are focused on highly applied research with commercial application. The overview and time of the solution also shows that there is a gradual significant increase in the number of research projects and their volume, and thus the development of the region's competitiveness. At the time of writing, the demand for cooperation in research projects by industrial partners is limited by the capacity of the research organization, which is constantly expanding its infrastructure and staffing.

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Prepare a list of technological development, consulting and further training activities in the main scientific areas.

I don't know exactly how this is meant. The main areas are Engineering, construction, transport, logistics, business economics.

Project TA04031723 - should be described in more detail with regard to the achieved results or the potential of the project for its use.

The aim of the proposed project is to create a certified methodology for determining traffic intensity on urban roads. The basic starting point is the implementation of practical measurements in the selected city. Furthermore, the compilation of basic mathematical tools for determining values in the future using regression linear models.

Project outputs:

SW processing of measured values (2014)

Set of values from realized measurements (2015)

SW for calculation of RPDI (2016)

Certified methodology for determining RPDI in cities by their size (2016)

Project LTC17040 - this project is listed in the TACR database - <https://starfos.tacr.cz/en/project/LTC17040> as the project "Basic research" - can you explain why it is in the list of applied research projects?

There was a mistake here. The projects of the Ministry of Education, Youth and Sports COST are basic research projects. Although it was originally applied research.

You claim that there was an increase of fifty during the reporting period - why such an increase - please provide more information.

I don't understand the question - where do we list fifty? There was a big increase, because we are the youngest school and we did not have a number of fields developed at such a stage 5 years ago, so that we could solve projects for the application sphere on such a scale as today. New laboratories were also built.

You mention Waste Utilization Research - Viscofan - state what kind of waste it is - ferrous or non-ferrous metals, electronics, etc.

This is a waste during production - collagen casing.

#### **Topic 3.4 Revenues from non-public sources (except grants or contract research) from research work**

**Self-evaluation:** These are mainly lifelong learning courses, which were provided to participants in further education with regard to their further professional growth.

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This should include information about the research work. Please explain why you are informing about lifelong learning courses.

Provide a list of lifelong learning courses provided by the faculty in the various fields and the number of participants.

I'm not sure if I've read the question well before. Apparently, there should be information in this area that we carry out various measurements and expert opinions for companies. These are, for example, analyzes of material composition, metallographic cuts, or what was the cause of property damage.

If the information could no longer be supplemented, I suggest the answer that some courses are based on long-term research topics. These are mainly Energy Specialists, where the Department of Civil Engineering focuses on this area. During the course, participants are introduced to these results.

### **Topic 3.5 Results of applied research with existing or potential economic impact on society**

**Self-evaluation:** UVZ - 5188 / CZ (Interior surface treatments to improve air quality and other parameters inside buildings): • The technical solution deals with surface treatments of structures, especially their interior parts, such as ceilings, walls, floors and mobile interior elements, to improve the air and other parameters inside the building - the result is applied in practice. UVZ - 5189/1 / CZ (Lightweight concrete mix) - the result is applied in practice. ITB works with small and medium-sized enterprises and introduces patents in real life. The following are implemented in practice on the basis of license agreements: • PV 2013-202 (WOODEN STRUCTURES, p. R. O.) • PV 2010-336 (KOMI - CB, p. R. O.)

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It is not clear what "UVZ" means. Please explain.

It is a Utility Model - a form of legal protection of intellectual property

Does the faculty have a unit (department) that deals with patents and implementations?

The university-wide workplace of the Vice-Rector for Creative Activities is dedicated to this area. At the same time, there is an internal regulation in this area (Rector's measure).

### **Topic 3.6 Significant results of applied research with non-economic impact on society**

#### **Self-evaluation:**

**TA04031723:** Methodology for determining the intensity of traffic on urban roads. The aim of the project was to compile an accredited methodological tool for evaluating traffic in cities, urban areas or commercial and industrial areas of cities. Road transport I. and II. classes are solved by the methodology of TP 189 and TP 225, which, however, for the generalization and creation of the model work with the time course characteristic for the above-mentioned urban roads. The project was based on real measurements, which were carried out in accordance with the universality of the methodology and worked with tools for modeling future values. The project was conceived for a part of measuring actual values in model cities and for a part of mathematical processing of estimates of future values. The result of the project is a certified methodology "Determination of traffic intensities on urban roads", which has become part of the new technical regulations. Another output of the project is the compilation of software for the implementation of the calculation of RPDI values in accordance with the proposed certified methodology. This calculation is available via a web application.

**LTC17040:** Regional airports in the Czech and Slovak Republics and the impact of their operation on the economic development of the region.

As part of the solution, a database of data on air transport and selected economic indicators of airport operators and selected socio-demographic, economic and socio-economic indicators of individual NUTS2 regions was created with a table of coherences. The data were provided for the solution of the European project H2020 within the COST action ATARD and implemented into the web interface of the project.

Based on research methods of qualitative and quantitative research in order to define direct and indirect relationships between the aviation market and the development of the region,

methodologies were created, which were applied to the analysis of data from the database of indicators:

- methodology for assessing the financial situation of airlines;
- methodology for evaluating the quality of air connections.

At the same time, a case study of scheduled air traffic at the international airport in České Budějovice was created as part of the solution of a partial task, especially in the area of verification of outputs from the application of analytical tools.

Another result of the H2020 project of the COST TU1408 action, which was implemented (in cooperation with a working group of foreign researchers), was the creation of a handbook on the impact of air transport on the socio-demographic, economic and socio-economic development of the region.

As part of the dissemination of results, the researchers presented publication outputs in the form of articles in professional periodicals contained in the Web of Science or Scopus database.

Interreg CENTRAL EUROPE: Rural Mobility in European Regions affected by Demographic Change - RUMOBIL (project aimed at developing public transport in sparsely populated areas).

RUMOBIL (rural mobility in European regions affected by demographic change) was a project of transnational cooperation between public administrations and their local transport entities and research institutions.

The solution of the project was the joint development and testing of new approaches to connecting the rural area of the area particularly affected by demographic changes to local public transport and supra-regional transport routes. A total of eight different pilot actions were set up in different participating countries as part of the RUMOBIL project. The pilot actions touched on various public transport topics. As part of the solution of individual pilot projects, a methodology for the implementation of transport in areas with low population was developed. Part of this methodology is also a statistical survey of the impacts of various degrees of intensity of public transport.

In the project, 2 transport technology studies were also subcontracted.

The project was supported by the European Regional Development Fund (ERDF).

An international project within the grant organization Visegrad Fund entitled "From Horse-drawn Railway to Intermodal Transport" (21710486) mapping the historical development of technologies used in intermodal transport.

As part of the project, an international workshop was organized for researchers and students of logistics-oriented fields of study from universities in the Czech Republic and abroad. The impact of the project was on the V4 countries and the outputs from the workshop and student projects were presented at the international scientific conference LOGI 2017.

**TA04010579:** New generation gear pumps.

Research and development of a new generation of gear pumps has significantly increased the competitiveness of Jihostroj, increased employment, socio-economic conditions of employees and residents of the South Bohemian Region. It brought a higher quality of life in the region and the employment of VŠTE graduates in the company Jihostroj Velešín. The cooperation of VŠTE, and especially the Department of Mechanical Engineering with engineering companies brings students the opportunity to complete professional practice as part of their studies at VŠTE.

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TA04031723 - Project results do not have great commercial potential; they are particularly useful in identifying and predicting congestion on transport infrastructure. The benefits of the project results can be seen mainly in the area of community benefits. - this is information from <https://starfos.tacr.cz/en/project/TA04031723> - can you explain why you think it is important to mention this project?

We believe that the results of the project fulfill the title of the chapter Significant results of applied research with a non-economic impact on society. One of the outputs is the Certified Methodology for Determining RPDI in Cities by Their Size (2016), which was certified by the Ministry of Transport of the Czech Republic. The impact of the Methodology is primarily "society-wide".

LTC17040 - the project name is incorrect - <https://starfos.tacr.cz/cs/project/LTC17040> - this project is listed in the description on the web as "basic research" - can you explain why you mentioned this project in this topic?

We believe that despite the solution in basic research, this project also has an impact on society and the region. The title of the chapter did not specify that only applied research projects should be listed.

Apart from the applied research you present, do private and public organizations not ask you for consultations, technical reports and solutions to construction anomalies?

We often carry out these assessments and measurements. However, their scope is significantly smaller than the above-mentioned projects. Their impact is in most cases of an economic nature (for example, the report addresses the damage in litigation) and therefore these reports do not fall into this chapter, and moreover, they would not fit with regard to the scope of the report.

For some projects, the impact should be more emphasized.

It is not clear which project H2020 you mention in the text - provide additional information regarding the call, topic, project number.

COST - this is the name of the project or COST program (it is not the same as for the H2020 program)

COST (European Cooperation in Science and Technology) is a funding organization for research and innovation networks. Since 1971, COST has received EU funding under the various research and innovation framework programs, such as Horizon 2020.

TU1408 - Air Transport and Regional Development (ATARD)

This Action investigates the relationship between air transport and regional development. The benefits that may be derived from it are both scientific and societal in nature. They include a better understanding of that relationship focusing on Europe; policy recommendations on how air transport infrastructure and service improvements should be made in order to support economic competitiveness and social cohesion; and the constitution of a network of researchers dedicated to air transport and its economic, social and environmental implications aligned with Europe 2020 strategy.

### **Topic 3.7 and 3.11 The most significant interactions of the evaluated unit with the non-academic application / corporate sphere, Recognition by the international R & D & I community**

**Self-evaluation:** The most significant interactions occur when solving joint research projects, when submitting these projects, when solving contract research or when implementing tailor-made training. In addition to this fact, VŠTE is actively involved in professional associations such as:

- Smart region
- Smart cluster
- Regional Innovation Commission
- Czech Society for Mechanics
- Association of Entrepreneurs in Construction
- Auto SAP
- ČKAIT
- Czech Logistics Association
- South Bohemian Chamber of Commerce
- Regional Employment Pact

South Bohemian Science and Technology Park

doc. Ing. Josef Marousek, Ph.D. is a member of the editorial board of the journal Energy Sources, Part A: Utilization, Utilization and Environmental Impacts. Taylor & Francis. United Kingdom. The log is indexed in SCOPUS and WoS.

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Is there any information on whether and how the university identifies the users of the outputs?

Output users are not registered at the university. The only partial registration is through submitted research projects, in which users of research results provide a letter of intent. Furthermore, the involvement of the application guarantor is registered within the project application.

Provide a list of professors who have been involved in interaction with the non-academic and corporate spheres and scientific commissions and organizing commissions of congresses and other scientific events, including these events.

Uvedené se na škole komplexně nesleduje. Sledují se pouze parciální oblasti:

Evidují se smlouvy s praxí.

Eviduje se členství ve vědeckých radách vysokých škol.

Eviduje se členství v redakčních radách časopisů WoS a Scopus.

Were any speakers invited here?

Are there thinking experts from practice? If so, the school had a number of lectures by experts from practice. These included former Škoda Auto director Vratislav Kulháněk, Petr Kužela, President of the Czech Chamber of Commerce, Jan Bureš, chief economist of ČSOB Era, Miroslav Dvořák, CEO of the engineering holding Motor Jikov Group, Zdenek Liška, CEO of the Confederation of Industry and Transport of the Czech Republic and Antonín Šípeka, director of the AutoSAP secretariat - <http://www.vstecb.cz/novinky/na-ekonomicke-konferenci-vste-vystoupi-drabova-kuzel-kulhanek/>

Participants (academics) of the Erasmus and Ceepus programs also give lectures. Namely, the topic of the lecture is not registered either.

In the list of professional associations, use their full names - for example, the names Smart Regions and Smart cluster are incorrect.

We apologize for the inaccuracy

- Smart region South Bohemia - <http://www.jvtp.cz/o-nas/nase-projekty/smart-region-jizni-cechy.html>
- Czech Smart City Cluster - <https://czechsmartcitycluster.com>

**Topic 3.8 System and support of technology transfer and protection of intellectual property (can be extended to the whole university with emphasis on the specifics of the evaluated unit)**

**Self-evaluation:** As mentioned above. In the period of 2014, technical fields at VŠTE only began to be established. With regard to the process of patent proceedings, it is therefore logical that only at the end of the observed period were results emerging that have a commercially interesting potential for application in industry. As a result, several patents and designs have been filed for which we anticipate licensing or sale. In one case, a project was obtained to obtain a European patent for phosphorus recovery from wastewater. In the monitored period, the following utility models and patents were obtained for which we are negotiating commercialization:

- UV 31662 - Interior surface treatment to improve air quality and other parameters inside the building. 2018
- UV 31614 - Lightweight concrete mix. 2018
- Patent: 304271 - Roundabout with warning light device

- Patent: 304705 - Central Island Roundabout

In addition, the following patents were filed during the period under review and subsequently obtained:

Patent No. 308203 - A method of making a dietary supplement containing proanthocyanidins

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Again: Does the university have a university dealing with patents and implementations? If so, there should be a link to the website in HTML format.

The system is described and governed by this directive:

[https://is.vstecb.cz/do/vste/uredni\\_deska/1905433/3690017/SM\\_9\\_2017\\_Komercializace\\_vysledku\\_VaV.pdf](https://is.vstecb.cz/do/vste/uredni_deska/1905433/3690017/SM_9_2017_Komercializace_vysledku_VaV.pdf)

You should describe "System and support for technology transfer and intellectual property protection". There is no information about that.

See previous point.

### **Topic 3.9 Strategies for establishing and supporting spin-off companies or other forms of commercialization of R & D & I results**

**Self-evaluation:** In the mentioned period, the spin-off company ITB Engineering & Production s.r.o. was established, with which several projects of innovation vouchers, contract research and proof of concept projects were subsequently solved.

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Was the spin-off company created from its own people from the university, or did it hire new people?

VŠTE employees themselves.

### **Topic 3.10 The most important individual awards for R & D & I**

**Self-evaluation:** Special award for socially beneficial innovation in the project Czech innovation - doc. Ing. Josef Marousek, Ph.D.

However, we see the greatest success in publications in the area of response to some publications. In 2018, Glory and misery of biochar was one of the 0.1% most cited articles in the industry. It is therefore a Hot Paper according to the Web of Science classification.

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It would be good to prove this HTML award by linking to the page.

<https://www.youtube.com/watch?v=F8kTUlStW5s&feature=youtu.be&fbclid=IwAR3SqZWjr0oPhhgwvQZNIJOkUS0H8Sd8Qt8EkIQM9AxN28i-V4rSYoQLcMY>

Is it really an award? Can you mention any other type of award for your scientists?

If the query relates to Hot Paper. This is an extremely prestigious result in the Web of Science, which is taken into account in a number of national and international methodologies. However, it is true that this result is not accompanied by any award. As the point was not

specified, whether or not to include a similar matter in this point, we introduced it.



1. **Glory and misery of biochar**  
By: Marousek, Josef; Vochozka, Marek; Plachy, Jan; et al.  
CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY Volume: 19 Issue: 2 Pages: 311-317 Published: 2017

Full Text from Publisher View Abstract

Times Cited: 101  
(from Web of Science Core Collection)

Highly Cited Paper

Usage Count

### Topic 3.11 Recognition by the international R & D & I community

**Self-evaluation:** doc. Ing. Rudolf Kampf, Ph.D. is a member of the editorial board of journal Nase More. Veleuciliste in Dubrovnik Collegium Ragusinum. Croatia. The journal is indexed in SCOPUS and WoS.

Sveuciliste near Dubrovnik - not Veleuciliste - please, right!

We apologize for the mistake.

### Topic 3.12 The most important activities in the popularization of R & D & I and communication with the public

**Self-evaluation:** Co-organization of the exhibition in cooperation with CERN (more than 22 thousand visitors)

Organizing the Night of Scientists 2018 - financed from own resources

Organizing the Night of Scientists 2019 - funded by a joint CRP project of universities

Participation in a project popularizing the results of Universitas research - a joint project of CRP universities

Publication of the printed magazine NÁVŠTĚVNÍK, where the most interesting results in the field of research at the university are presented - a printed circulation of over 25 thousand pcs.

Establishment of a Technical and Educational Consortium in cooperation with secondary schools

Organizing an international Olympiad Technical and Educational Consortium

Preparation of a number of press releases in cooperation with companies (eg: <https://www.universitas.cz/spektrum/4420-akademici-vste-spolecne-s-motorem-jikov-slevarna-resi-jak-zdokonalit-technologie-vyroby-odlitku> -from-shaped-cast iron)

Involvement in the Smart Accelerator project in the South Bohemian Region

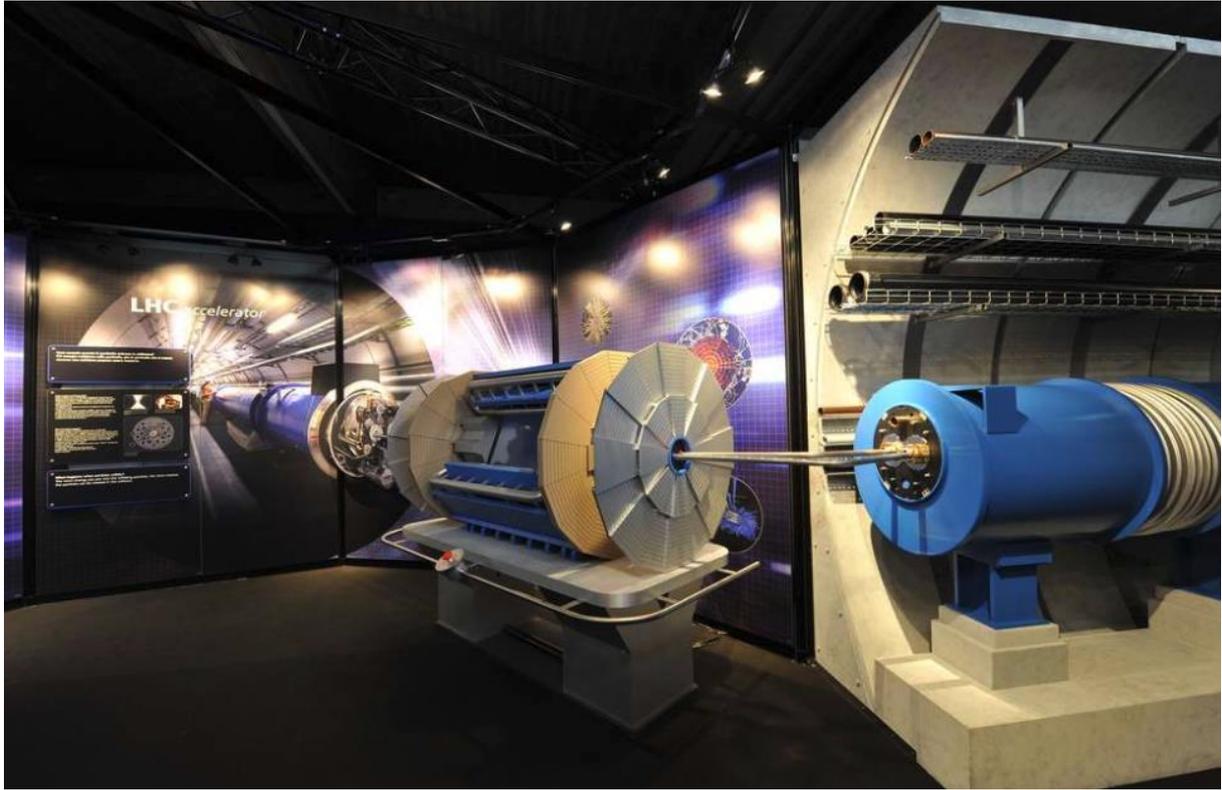
Appearances on regional television on the topic of science (JTV)

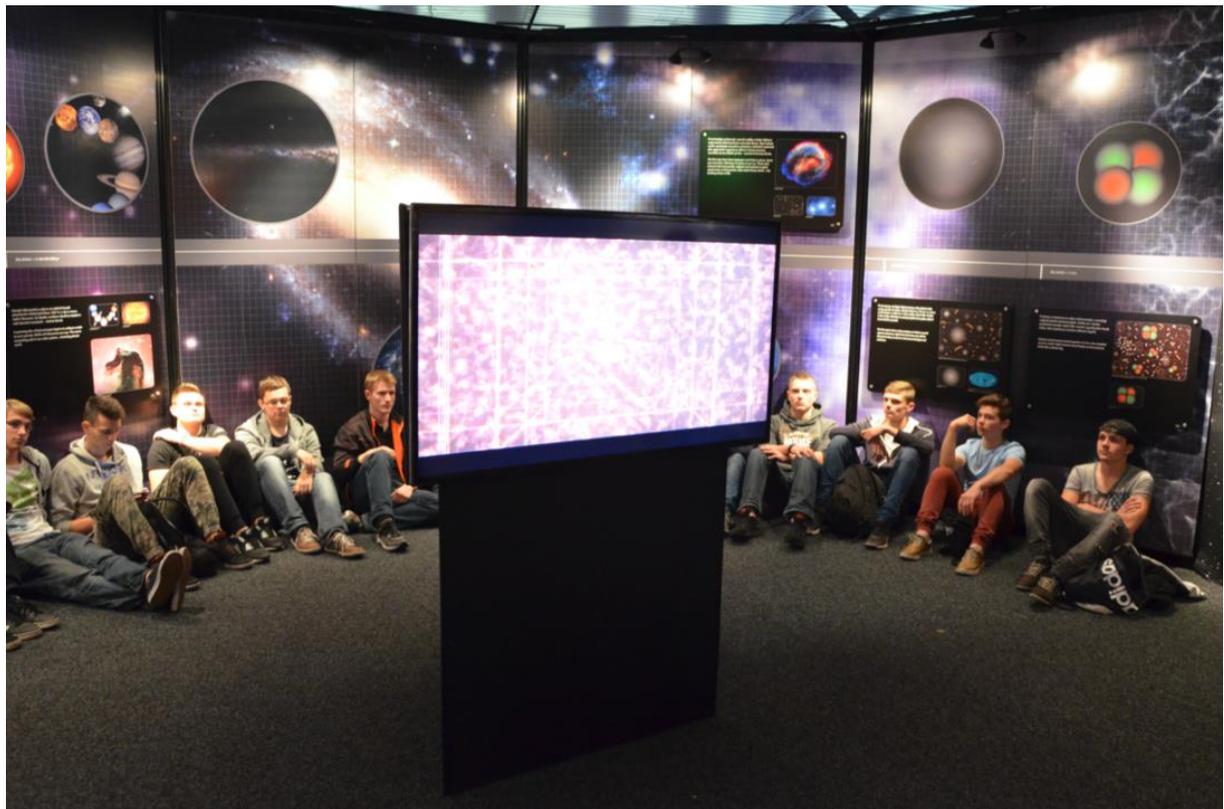
An HTML link should be included - there were probably some photos from Scientists' Night, it would be good to introduce them to us.

<http://www.vystavacern.cz>

<http://nocvedcub.cz/fotogalerie/>

CERN







NOC VĚDCŮ







**Table 3.2.1**

It must be clear whether the project is funded as basic or applied research - Region Regional airports '

3.2.1 Projects supported by a provider from the Czech Republic

| As the beneficiary                   |  |                        |              |              |              |              |
|--------------------------------------|--|------------------------|--------------|--------------|--------------|--------------|
| Provider                             | Project title  | Support (EUR thousand) |              |              |              |              |
|                                      |  | 2014                   | 2015         | 2016         | 2017         | 2018         |
| MINISTRY OF EDUCATION, YOUTH & SPORT | REGIONAL AIRPORTS IN THE CZECH REPUBLIC AND SLOVAKIA AND THE IMPACT OF THEIR OPERATION ON THE ECONOMIC DEVELOPMENT OF THE REGION |                        |              |              | 21,23        | 36,62        |
| <b>Total</b>                         |  |                        |              |              | <b>21,23</b> | <b>36,62</b> |
| As a participant                     |  |                        |              |              |              |              |
| Provider                             | Project title  | Support (EUR thousand) |              |              |              |              |
|                                      |  | 2014                   | 2015         | 2016         | 2017         | 2018         |
| TACR                                 | NEW GENERATION OF GEAR PUMPS   | 16,93                  | 33,83        | 31,74        | 28,6         |              |
| TACR                                 | METHODOLOGY FOR DETERMINATION OF TRAFFIC INTENSITY IN CITY STREETS   | 6,9                    | 7,15         | 7,77         |              |              |
| <b>Total</b>                         |  | <b>23,83</b>           | <b>40,98</b> | <b>39,51</b> | <b>28,6</b>  |              |

**Table 3.2.2**

The assignment is incorrect (RUMOBIL) - the beneficiary (project coordinator) is another institution in Germany - please explain!

The coordinator is an institution in Germany, but VŠTE is a co-investigator with its own budget, ie. Recipient.

3.2.2 Projects supported by a provider from another country

| As the beneficiary |   |                        |      |      |      |              |
|--------------------|---|------------------------|------|------|------|--------------|
| Provider           | Project title   | Support (EUR thousand) |      |      |      |              |
|                    |   | 2014                   | 2015 | 2016 | 2017 | 2018         |
| RUMOBIL            | Rural Mobility in European Regions affected by Demographic Change |                        |      |      |      | 78,66        |
|                    |   |                        |      |      |      |              |
| Total              |   |                        |      |      |      | <b>78,66</b> |
| As a participant   |   |                        |      |      |      |              |
| Provider           | Project title   | Support (EUR thousand) |      |      |      |              |
|                    |   | 2014                   | 2015 | 2016 | 2017 | 2018         |
|                    |   |                        |      |      |      |              |
|                    |   |                        |      |      |      |              |
| Total              |   |                        |      |      |      |              |

**Table 3.6.1**

It should contain significant results of applied research

Please explain why you mention activities such as:

- Organization of a seminar
- Conference organization

Is it possible to download SW for the above?

What does this question relate to?

**Table 3.11.3**

Did this faculty really have any invited speakers or other guests?

Of course, lecturers from practice and other domestic and foreign universities at VŠTE give lectures. Unfortunately, these facts are not registered centrally at school. They are registered only by participants in the Erasmus and Ceepus programs.

3.11.3 The most significant lectures by foreign scientists and other guests relevant to the R&D&I field at the evaluated unit during the 2014–2018 reporting period

| Name, surname and title(s) of the lecturer | Lecturer's employer at the time of the lecture | Invited lecture title |
|--|--|-----------------------|
|  |  |                       |
|  |  |                       |
|  |  |                       |
|  |  |                       |

3.11.3 The most significant lectures by foreign scientists and other guests relevant to the R&D&I field at the evaluated unit during the 2014–2018 reporting period

| Name, surname and title(s) of the lecturer | Lecturer's employer at the time of the lecture | Invited lecture title   |
|--|--|---|
| Prof. Dr. Sean Patrick Sassmannshausen     | Ostbayerische Technische Hochschule Regensburg | The conception of the entrepreneurship in set-up companies, the recovery of competitiveness                     |
| Univ.-Prof. Dr. Wolfgang H. Güttel         | Johannes Kepler Universität Linz               | Heuristics and simple rules: management of competences in turbulent times                                       |
| Dr. Xenia Justus                           | Ostbayerische Technische Hochschule Regensburg | Academic education in business – challenges and present trends  |
| Johann Faltermeier, MBA                    | Ostbayerische Technische Hochschule Regensburg | Entrepreneurial competences in theory and practice – a case study of a professionally oriented tertiary schools |

Note: Relevant solely for the R&D&I field. List a maximum of ten examples.

#### Topic 4.10 Significant cooperation in the field of R & D & I at the national level

**Self-evaluation:** Cooperation is being developed especially with other universities in the Czech Republic. A very important cooperation is the one with BUT Brno - cooperation on projects (for example the project TAČR TL01000349 - software processing), creation of a data warehouse. Within the solved research project TAČR TL01000349 or in the proposals of other projects, the Institute of Expertise and Valuation cooperates with the Association of Small and Medium-Sized Enterprises and Self-Employed Persons of the Czech Republic, the Research Institute for Business and Innovation, z.ú. or with the Regional Association NS MAS CR of the South Bohemian Region. It also cooperates with the Labor Office of the Czech Republic - the Regional Branch in České Budějovice, the South Bohemian Society for Human Resources Development, the Regional Office of the South Bohemian Region and the South Bohemian Chamber of Commerce. They have been cooperating for a long time on the implementation of research strategic plans in the scientific councils of the Institute of Expertise and Valuation (VŠTE). This is a sophisticated interest of external application guarantors in project outputs.

Organizations that have experience in solving research topics participate in this research project, but at the same time they are also practically oriented and have close ties to the business environment of the Czech Republic. Their focus complements them appropriately, which makes it possible to cover a wider range of problems during the project. This is what the high potential of this research team is seen.

Subsidy program of the South Bohemian Region Support of new fields at universities in Jčk, 2nd call for 2018, Reg. number: 463-03-03 / 2018. Preparation of accreditation for the bachelor's program Human Resource Management. The implementation of the project followed the study "Analysis of the need for accreditation of the study program Personnel Management in terms of usability of its graduates for the business sphere of the South Bohemian Region" and the memorandum on mutual cooperation on projects concluded

between the South Bohemian Region and VŠTE. With regard to the need of the South Bohemian Region, the adjoining region and the catchment area, it turned out to be a conceptual solution to accredit a separate study program Human Resources Management at VŠTE. The main goal of the project was the preparation of a professionally oriented bachelor's degree program in Human Resource Management in full-time and part-time form of study. The accreditation process is governed by accreditation standards in higher education and includes, in particular, sufficient staffing with the appropriate qualifications in the program, excellent creative results, material and technical support, or cooperation with practice in the case of professionally oriented programs.

**GD Druckguss s.r.o.** - Research and development of zinc waste recycling technology in the production of high quality castings from zinc alloys (TH04020055)

**City of Milevsko and Chotěboř** - Safe cities for pedestrians and seniors (TL02000559), Project living Milevsko and other consulting activities

**JIKORD (South Bohemian Transport Coordinator)** - joint workplace, a number of smaller projects (innovation vouchers), joint involvement in the international project RUMOBIL, preparation of other projects, cooperation in the creation of strategic documents for the South Bohemian Region

**Jihostroj a.s.** - New generation gear pumps (TA04010579)

**Motor Jikov, a.s.** - Research and development of refining technologies to increase the quality of aluminum alloys intended for highly demanding castings (TH04010449). In 2019, Research and development of improved technological processes for the production of ductile iron castings with the implementation of 3D scanning in the quality management process (FV40346)

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Provide links to the web that describe this collaboration of partner organizations.

<http://www.vstecb.cz/novinky/v-nasich-laboratorich-se-rodí-nové-technologie-pro-motor-jikov/>

<http://www.vstecb.cz/novinky/vste-se-podili-na-vyzkumech-podporených-technologickou-agenturou/>

<http://www.vstecb.cz/en/novinky/successful-recycling-of-zinc-waste-saves-millions-of-crowns-academic-workers-from-our-school-help-vodnany-company-gd-druckguss/>

<http://www.jikord.cz/popis-spoluprace/>

<http://www.vstecb.cz/spolecne-pracoviste-katedry-dopravy-a-logistiky-a-spolecnosti-jikord-s-r-o-1446-htm/>

<https://budejcka.drba.cz/zpravy/vzdelani/25541-akademici-vste-spolecne-s-motorem-jikov-slevarna-resi-jak-zdokonalit-technologie-vyroby-odlitku-z-tvarne-litiny.html>