



Národný informačný systém podpory výskumu a vývoja v SR  
– prístup k elektronickým informačným zdrojom

NISPEZ



# **Informačné systémy o vede**

## **Integrácia pre otvorený prístup k vedeckým výstupom**

Zborník z medzinárodnej konferencie

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CVTI SR, Bratislava 2014

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# SK CRIS as an Information Resource for Technology Transfer



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*pracuje na Oddelení hodnotenia kvality pracovísk vedy a techniky v rámci Odboru transferu technológií.*

## Introduction

According to figures published in Innovation Union scoreboard 2013<sup>8</sup>, aimed at measuring the impact of the economic crisis on the research and innovation landscape and which provided a comparative assessment of average innovation performance based on a composite indicator built on 2010 and 2011 Eurostat data using 24 indicators for all 27 European Union member states, Slovakia along with eight other states was classified as a moderate innovator. The performance of this group extends from less than 10% to 50% of the EU 27 average innovation performance.

For a brief country profile, Slovakia's innovation performance is below the EU 27 average performance. Its relative strengths are in *Human Resources*. Its relative weaknesses were in *Open, Excellent and Attractive Research Systems* and *Intellectual Assets*. High growth was observed for *New Doctorate Graduates* (the highest growth of all Member States), *PCT Patents in Societal Challenges* and *Community Trademarks*. A strong decline was observed for *Non-R&D Innovation Expenditure* and *Licence and Patent Revenues from Abroad*. Growth Performance in *Human Resources, Finance and Support* and *Intellectual Assets* is above the average and in *Firm Investments* well below the average. The report also concluded that, of the moderate innovators, Slovakia, Italy, Lithuania and Spain had been able to improve their innovation performance since the Europe2020 strategy was launched.

We believe that the National Infrastructure for Supporting Technology Transfer in Slovakia<sup>9</sup> (NITT SK), a national project co-funded by the European Union, will substantially contribute to illustrating an even more optimistic picture of Slovakia in those indicators which are associated with intellectual property and technology transfer.

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<sup>8</sup> THE EUROPEAN UNION. *Innovation Union Scoreboard 13* [online]. The European Union, 2013 [viewed 11 March 2014]. ISBN 978-92-79-27583-8. Available from: [http://ec.europa.eu/enterprise/policies/innovation/files/ius-2013\\_en.pdf](http://ec.europa.eu/enterprise/policies/innovation/files/ius-2013_en.pdf)

<sup>9</sup> <http://nitt.cvtisr.sk>

## National Infrastructure for Supporting Technology Transfer - NITT SK Project

### *Basic facts about NITT SK project*

The NITT SK project is the national project implemented within the European Union's Research and Development Operational Programme with an overall budget of €8,234,571.17 co-financed by the European Regional Development Fund. The principle investigator of the project is the Slovak Centre of Scientific and Technical Information in Bratislava, a state contributory research institution and the project's target group is the academic community in Slovak public higher education institutions (HEI), the Slovak Academy of Sciences (SAS) and public research institutes. The project was launched in June 2010 and concludes in December 2014.

The strategic goal of the NITT SK project is to establish and implement the nationwide system to support application of the R&D results into social and economic practice in order to contribute to development of the knowledge-based society. The project has three specific objectives:

- 1. To establish a Technology Transfer Centre at the Slovak Centre of Scientific and Technical Information so as to ensure systematic support for technology transfer at a national level.**
- 2. To assist the scientific community in the process of technology transfer via utilisation of the existing capacities and resources of the research and development information and communication technology infrastructure.**
- 3. To enhance the effectiveness of the transfer of scientific knowledge and technology into the economy and society through the popularisation of science.**

### *Three pillars of infrastructural technology transfer support*

The nationwide infrastructural support for technology transfer is realised via the National System for Supporting Technology Transfer in Slovakia (NSPTT)<sup>10</sup> the core component of which is the National Technology Transfer Centre (NCTT). The National Portal for Technology Transfer (NPTT)<sup>11</sup> serves by providing information on almost all aspects of technology transfer and being the access point to specialised support services (EPS). These services are divided into two categories:

1. specialist services which deal with intellectual property protection,

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<sup>10</sup> [http://nptt.cvtisr.sk/sk/poskytovane-sluzby-v-procese-transferu-technologie/expertne-podpome-sluzby-v-procese-transferu-technologie.html?page\\_id=509](http://nptt.cvtisr.sk/sk/poskytovane-sluzby-v-procese-transferu-technologie/expertne-podpome-sluzby-v-procese-transferu-technologie.html?page_id=509)

<sup>11</sup> <http://nptt.cvtisr.sk/>

2. specialist services which relate to technology transfer.

To date, the following services have been made available to academics via their institutional technology transfer centres of offices:

- assistance in selecting research outcomes for industrial property protection and assessment of their commercialisation potential,
- advice on strategy for intellectual property protection,
- patent application preparation and filing in SR and abroad, representation at patent offices,
- state-of-the art analyses,
- commercialisation partner search,
- arranging meetings with commercialisation partners,
- IPR commercialisation strategy,
- collaboration in contract-drafting,
- negotiation and accompanying in negotiation meetings,
- technology marketing, partnering, setting up spin-off companies,
- monitoring of licence agreement compliance and of production outside terms of licence,
- preparation assessment of draft agreements,
- consultancy in and preparation of business plan for commercialisation via spin-off,
- assistance in setting up a spin-off company,
- marketing of technologies,
- funding search for development of spin-off company,
- preparation of technical or other type of documentation related to R&D outcomes,
- assistance in formulating requests for support in technology transfer and proposal of realisation of technology transfer.

A more detailed description of these services can be found in the respective section of the NPTT portal. Since the majority of the above services are complex and require special skills (e.g. patent attorneys, lawyers, experts in commercialisation and evaluation of intellectual/industrial property; some of these skills cannot be readily acquired via training but are part of the natural character of an expert) they tend to be costly with an average fee of €1,000 – 1,500 per day or even more depending on the service task. Currently, the ESP services are provided to the public HE and R&D institutions free of charge with more than sixty requests for ESP services being processed over the twelve-month period since they were introduced in 2013.

There appears to be a natural expectation and requirement for the NSPTT system to operate on a principle of sustainability in the future when no funds for this purpose might be available from an EU project, albeit with some income from collaboration with industry or possible royalties from licensing or some form of subsidy from the state to form and sustain a Patent Fund. Especially in the event that the number of costly requests for EPS exceeds the

funding resources, proper selection criteria should be in place, with a methodology<sup>12</sup> to help in decision-making. However, due to the highly specific and complex character of activities related to technology transfer, the selection criteria should be informative rather than decisive.

### ***Competence of HE and R&D institutions***

Selection of the parameters for assessing HE and R&D institutions' performance in R&D, innovation and technology transfer were prepared on the basis of the following pre-conditions:

- no additional information will be requested from R&D institutions (i.e. using the existing data, so that R&D institutions are not exposed to an additional administrative burden)
- use only databases administered by or licensed to the Slovak Centre of Scientific and Technical Information
- prime focus on indicators relating to technology transfer
- two-level aspect (faculty/research institute and research team where no information is available on the former)
- aim of the competence assessment is to provide complementary information for decision-making for funding technology transfer at public HE and R&D institutions

### ***Databases and parameters***

A comprehensive list of parameters was prepared, inspired by e.g. U-Multirank<sup>13</sup>, ARRA<sup>14</sup> reports and Snowball metrics<sup>15</sup>. Each parameter was assigned with an information resource:

- Slovak Current Research Information System<sup>16</sup> – SK CRIS,
- Register of publications of universities classified by categories – CREPČ,
- analytical tool for evaluation based on bibliometric data – InCites,
- Thomson Reuters patent database – Derwent Innovation Index (Derwent II),
- other publicly accessible databases – e.g. categorised publications of R&D institutions other than universities, on R&D-related awards, membership of professional international organisations, etc.

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<sup>12</sup> <http://nitt.cvtisr.sk/>

<sup>13</sup> <http://www.umultirank.org/>

<sup>14</sup> <http://www.arra.sk/>

<sup>15</sup> <http://www.snowballmetrics.com/>

<sup>16</sup> <https://www.skcris.sk/>

## SK CRIS database

### *Data resource on HE and R&D institutions - why and which SK CRIS data?*

In Slovakia, a research and development information system (ISVVP) existed prior to 2002, developed in a collaboration between the Ministry of Education of the Slovak Republic and Infostat (the Institute for Information and Statistics Slovakia) which was administered by the latter. In 2002, administration of this system was transferred to the Slovak Centre of Scientific and Technical Information. In addition, in 2002 the SCSTI, in collaboration with the Section for R&D at the Ministry of Education of the Slovak Republic, developed and launched the website which provided information on the state-funded organisation and management of R&D. At that time, ISVVP and the website existed as two independent software applications up to 2008.

Meanwhile, work on a new R&D information system, R&D Central Information Portal (CIP VVI<sup>17</sup>), was underway. The data from the ISVVP were migrated into this new system and the CIP VVI portal was officially launched in 2008.

A further step in upgrading the R&D information system in Slovakia was taken within the NISPEZ<sup>18</sup> national project with the SCSTI as its principal investigator. The aim was to extend the CIP VVI portal, add new functionalities including inter-connection with other information systems while respecting EU standards, and to render work with the system more efficient. The upgrade led to the development of the SK CRIS system which was officially put into effect in January 2013. The information contents of the database are compliant with Act no. 172/2005 Coll.<sup>19</sup> and related acts<sup>20</sup>.

The data are divided into five main areas with the following information in the SK CRIS database<sup>21</sup>:

- Register of projects
  - SF EU-funded projects
  - R&D state projects
  - R&D stimuli projects
  - Ministries-funded projects
  - APVV agency-funded projects
  - scientific VEGA projects (limited to HE and SAS institutions)
  - cultural KEGA projects (limited to HE and SAS institutions)

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<sup>17</sup> <https://www.vedatechnika.sk>

<sup>18</sup> Národný informačný systém podpory výskumu a vývoja na Slovensku – *prístup k elektronickým informačným zdrojom*, <http://nispez.cvtisr.sk/>

<sup>19</sup> Act no. 172/2005 on the State Support for Research and Development

<sup>20</sup> ZENDULKOVÁ, Danica. Centrálny informačný portál pre výskum, vývoj a inovácie a jeho úloha v oblasti sprístupňovania vedeckých informácií. In: *Zborník príspevkov z XI. ročníka odborného seminára pre pracovníkov knižníc Virtuálna knižnica – knižnica tretieho tisícročia [online]*. Banská Bystrica: ŠVKBB, ©2011, 18 s. [viewed 30 March 2014]. Available from: [http://www.svkbb.eu/zbornik/zbornik2010/data/CIPVVI\\_BB2011.pdf](http://www.svkbb.eu/zbornik/zbornik2010/data/CIPVVI_BB2011.pdf)

<sup>21</sup> ZENDULKOVÁ, Danica. Systém SK CRIS – slovenská veda na dlani. In: *ITLib. Informačné technológie a knižnice. [online]*. Bratislava: Centrum vedecko-technických informácií, 2012, 16(1), 7-10. [viewed 30 March 2014]. ISSN 1335-793X. Available from: [http://itlib.cvtisr.sk/archiv/2012/1/system-sk-cris-slovenska-veda-na-dlani.html?page\\_id=1683](http://itlib.cvtisr.sk/archiv/2012/1/system-sk-cris-slovenska-veda-na-dlani.html?page_id=1683)

At present, this register includes 10,512 projects.

- Register of organisations

In addition to Slovak universities, the Slovak Academy of Sciences and state-subsidised research institutions, information in this register is supplied by private or non-for-profit research organisations which submit through this system their application for evaluation of their competence to perform research. At present, this register includes 1,271 organisations.

- Register of researchers

The basis comprises those experts who review and evaluate projects. Other sources are principal investigators and co-investigators of R&D projects and the CREPČ database, the central register of publications of HEIs in administration of the SCSTI. At present, this register includes 18,178 researchers.

- Records of R&D outcomes

In addition to publications, this includes intellectual property and outcomes of applied research in the form of products and innovations. At present, this register includes 7,492 various outcomes.

- Other information

This comprises financial parameters, laboratory infrastructure, R&D services provided by an HE or R&D institution, events, prizes awarded or various full-text supplements (e.g. curricula of researchers, etc.).

The CRIS SK database content provides the majority of data at institutional and also at individual researcher (teams) levels. The group parameters based on data in the SK CRIS database with brief description of indicators for R&D institutional and team levels are summarised in Table 1.

Table 1. Research and development, innovation and technology transfer group parameters identified in SK CRIS system.

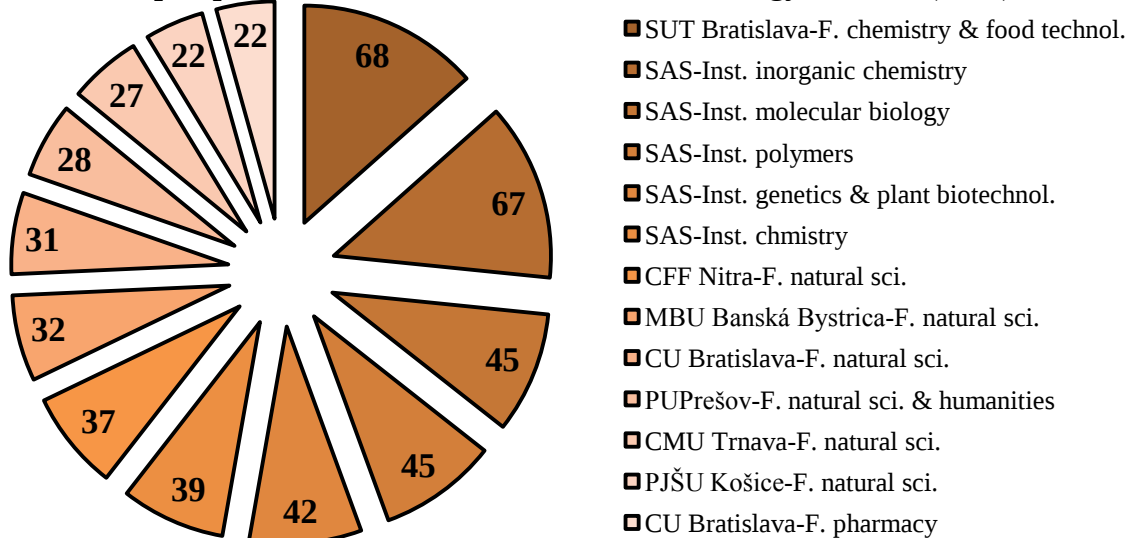
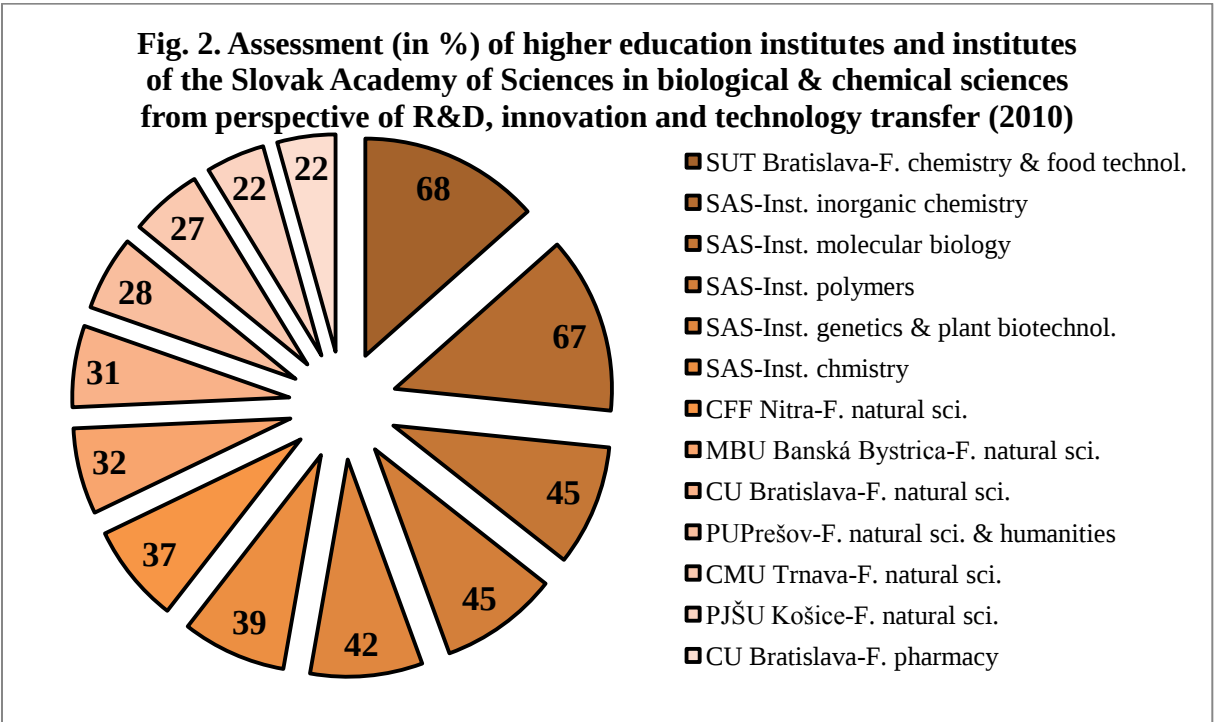
| <b>R&amp;D institutional and/or team level</b> |                                 |                                                                                                                                                                                                              |
|------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Area</i>                                    | <i>Group</i>                    | description                                                                                                                                                                                                  |
| <b>1. Human potential</b>                      | 1.C Formal pre-requisites       | - classification of academics from aspect of research field, expertise, specialisation, research degrees, degrees in education, membership in national, international scientific organisations, awards, etc. |
| <b>2. Cooperation</b>                          | 2.A Projects                    | - domestic and foreign research projects in various scientific fields                                                                                                                                        |
|                                                | 2.B Collaboration               | - involvement of R&D team/institution in national or international collaboration<br><br>- number of Slovak or foreign R&D institutions participating in a project,                                           |
| <b>3. R&amp;D environment</b>                  | 3.A Infrastructure and services | - investment in research facilities, equipment,<br><br>- specific services provided by R&D institutions                                                                                                      |

### ***Example of use of SK CRIS data***

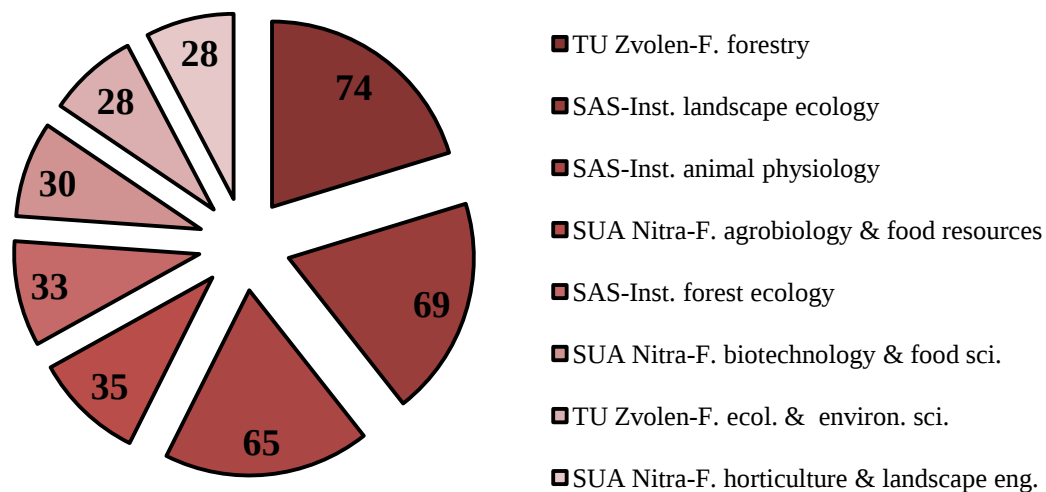
Figures 1 to 4 serve as examples of the practical application of SK CRIS data (along with the data from other databases as mentioned above) in assessment of the competences of selected faculties and institutes of the Slovak Academy of Sciences from the perspective of R&D, innovation and technology transfer for the 2010 period.

**Fig. 1. Assessment (in %) of higher education institutes and institutes of the Slovak Academy of Sciences in technical sciences from perspective of R&D, innovation and technology transfer (2010)**

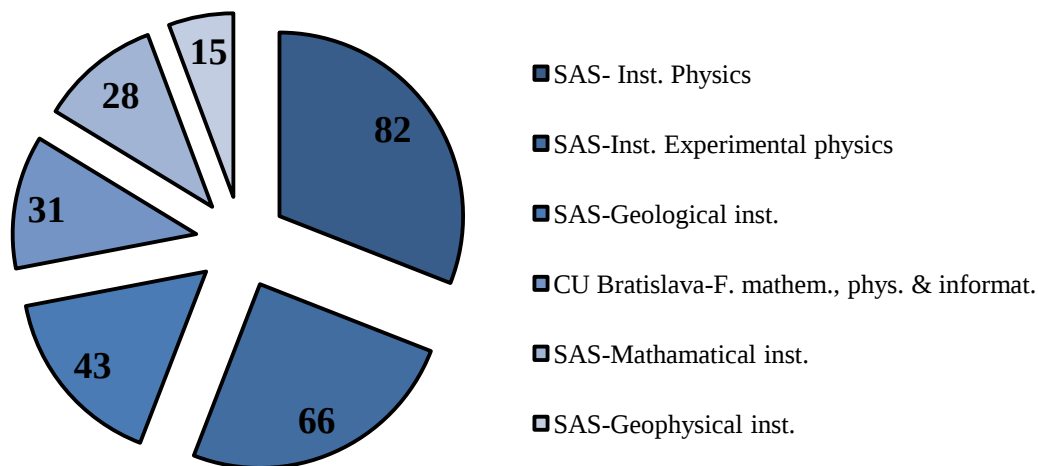
| Institute          | Technical Field                   | Assessment (%) |
|--------------------|-----------------------------------|----------------|
| TU Košice-F.       | manufacturing technol.            | 73             |
| TU Košice -F.      | electrical eng. & informatics     | 48             |
| SAS- Inst.         | infomatics                        | 44             |
| SAS-Insts.         | materials & machine mechanics     | 41             |
| SAS-Inst.          | measurement sci.                  | 39             |
| SAS-Ints.          | geotechnics                       | 32             |
| SAS-Inst.          | electrical eng.                   | 30             |
| ŽU Žilina -F.      | mechanical engin.                 | 29             |
| SUT Bratislava -F. | material technol.                 | 28             |
| ŽU Žilina-F.       | special technology                | 26             |
| TU Košice -F.      | mechanical eng.                   | 24             |
| SAS-Inst.          | construction & architecture       | 23             |
| TU Košice -F.      | metallurgy                        | 22             |
| SUT Bratislava-F.  | electrical eng. & informatics     | 22             |
| ŽU Žilina-F.       | electrical eng.                   | 22             |
| TU Zvolen-F.       | envi & manuf. technol.            | 22             |
| TU Zvolen-F.       | wood sci. & technol.              | 22             |
| SAS-Inst.          | material res.                     | 22             |
| TU Košice-F.       | civil eng.                        | 22             |
| SUT Bratislava-F.  | civil eng.                        | 22             |
| SUA Nitra-F.       | technology                        | 22             |
| TU Košice-F.       | mining, ecol., process control... | 22             |
| TU Košice-F.       | aeronautics                       | 22             |
| ŽU Žilina-F.       | civil eng.                        | 22             |
| SUT Bratislava-F.  | informatics & info technol.       | 22             |
| SUT Bratislava-F.  | architecture                      | 22             |
| TrUAD Trenčín-F.   | special technol.                  | 22             |
| SUT Bratislava-F.  | mechanical eng.                   | 22             |
| TrUAD Trenčín -F.  | industr. technol.                 | 22             |
| TrUAD Trenčín -F.  | mechatronics                      | 22             |
|                    |                                   | 19             |
|                    |                                   | 19             |
|                    |                                   | 18             |
|                    |                                   | 14             |
|                    |                                   | 14             |
|                    |                                   | 13             |
|                    |                                   | 12             |
|                    |                                   | 11             |
|                    |                                   | 11             |
|                    |                                   | 10             |
|                    |                                   | 10             |
|                    |                                   | 9              |
|                    |                                   | 7              |
|                    |                                   | 5              |



**Fig. 3. Assessment (in %) of higher education institutes and institutes of the Slovak Academy of Sciences in agricultural & veterinary sciences from perspective of R&D, innovation and technology transfer (2010)**



**Fig.4. Assessment (in %) of higher education institutes and institutes of the Slovak Academy of Sciences in mathematical sciences & physics from perspective of R&D, innovation and technology transfer (2010)**



## ***Conclusions***

The SK CRIS database is a valuable information resource for the assessment of research and development, innovation and technology transfer at Slovak higher education and R&D institutions:

- the SK CRIS database collects and maintains the most current data on R&D activities of Slovak HE and R&D institutions, whether private or publicly-funded,
- amongst databases administered by the Slovak Centre of Scientific and Technical Information, SK CRIS represents the most complete database (including historical data) on various aspects of research and development covering all publicly-funded, private and not-for-profit R&D institutions,
- at the present stage, some data for assessment purposes have to be searched for and processed manually. However, this issue will be taken into consideration in future upgraded versions of the SK CRIS database. The plan is to generate final evaluation reports for either R&D institutions or teams automatically,
- integration of other related databases with the SK CRIS database will contribute to its huge potential for becoming a complete tool utilised for a variety of purposes,
- corrective measures should be introduced to render the data supply procedure more efficient and complete and to motivate all HE and R&D institutions to provide all information in compliance with legislative requirements.

# SK CRIS as an Information Resource for Technology Transfer – prezentácia z konferencie

Podporujeme výskumné aktivity na Slovensku  
Projekt je spolufinancovaný zo zdrojov EÚ

**SK CRIS as an Information Resource for Technology Transfer**

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**CONTENTS**

- 1. National Infrastructure for Supporting Technology Transfer in Slovakia - NITT SK Project**
  - a) Basic facts about NITT SK project
  - b) Three pillars of infrastructural technology transfer support
  - c) Competence of HE and R&D institutions in R&D, innovation and technology transfer
  - d) Databases and parameters
- 2. SK CRIS database**
  - a) Data resource on HE and R&D institutions - why and which SK CRIS data?
  - b) Example of use of SK CRIS data – pie charts

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**1. NITT SK Project**

Main objective is to propose and put into effect the national infrastructure to support technology transfer, and thus contribute directly to more intensive and efficient state support to research and development.

- \* **Principal investigator:** the Slovak Centre of Scientific and Technical Information in Bratislava
- \* **Operational programme:** R&D
- \* **Co-financed by:** European Regional Development Fund
- \* **Budget:** €8,234,571.17
- \* **Duration:** June 2010 – December 2014
- \* **Target group:** academic community at SK universities, SAS, public research institutes

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**OBJECTIVE 1 NITT SK PROJECT**

Three pillars

- 1. National System for Supporting Technology Transfer in Slovakia (NSPTT)**
- 2. National Technology Transfer Centre (NCTT) - the core component of NSPTT**
- 3. National Portal for Technology Transfer (NPTT)**  
<http://nptt.cvtisr.sk/>

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**OBJECTIVE 1 NITT SK PROJECT**

- 1. National System for Supporting Technology Transfer in Slovakia (NSPTT)**  
specialised support intellectual property rights protection and technology transfer-related services (EPS) via NPTT portal

Expertné služby v procese transferu technológií



Rekreačné služby: Strážba potencionálnych informácií PATLJE v CVTI SR



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**Some examples of specialised EPS services:**

- \* advice on strategy for intellectual property protection,
- \* patent application preparation and filing in SR and abroad, representation at patent offices,
- \* IPR commercialisation strategy,
- \* evaluation of commercial potential,
- \* collaboration in contract-drafting,
- \* negotiation and accompanying in negotiation meetings,
- \* technology marketing, partnering, setting up spin-off companies, etc.

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In case of limited funding for provision of specialised EPServices – methodology for decision making (supplementary character)

**Pre-requisites for parameters selection:**

- no additional information will be requested from R&D institutions (to avoid additional administrative burden)
- use only databases administered by or licensed to the SCSTI
- prime focus on parameters relating to technology transfer
- two-level aspect (faculty/research institute and research team where no information is available on the former)
- aim of the HE and R&D institution competence assessment is to provide complementary information for decision-making for funding technology transfer at public HE and R&D institutions

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**2. SK CRIS database as an information resource**

- Register of projects (#10,512)**
  - SF EU-funded projects
  - R&D state projects
  - R&D stimuli projects
  - ministries-funded projects
  - APVV agency-funded projects
  - scientific VEGA cultural KEPA projects
- Register of organisations (#1,271)**
- Register of researchers (#18,178)**
- Records of R&D outcomes (#7,492)**
- Other information** (infrastructure, services, awards)

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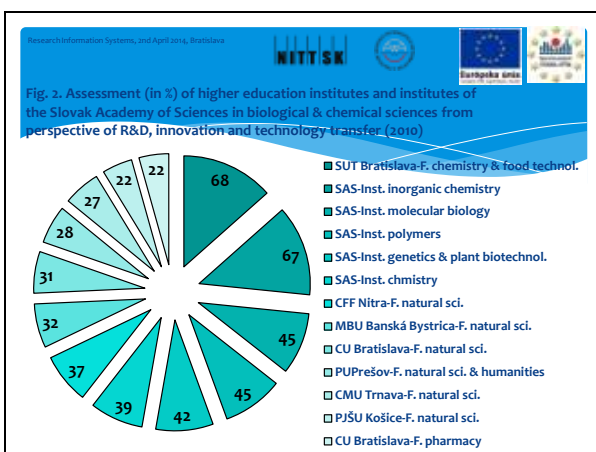
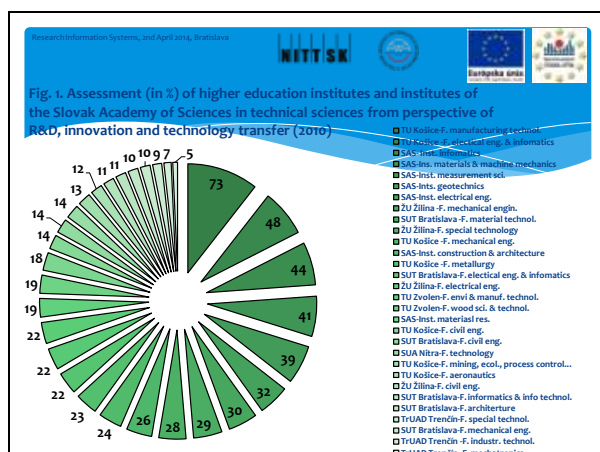
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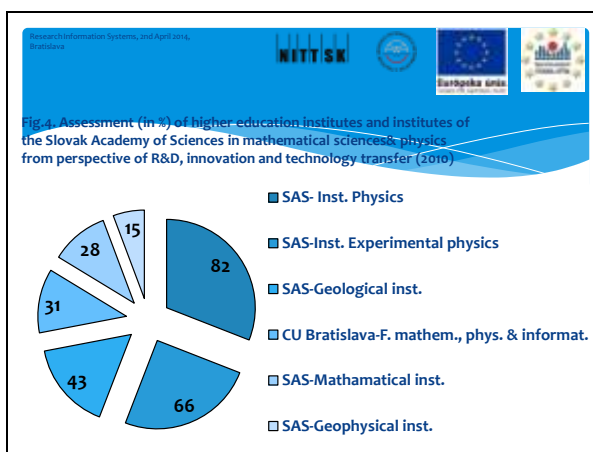
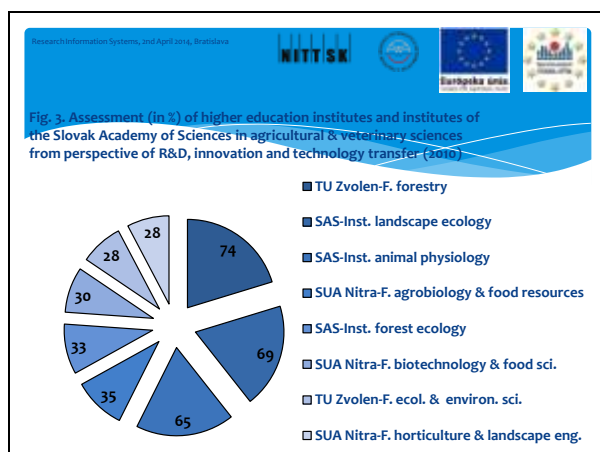
| R&D institutional and/or team level |                                 |                                                                                                                                                                                                                      |
|-------------------------------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Area                                | Group                           | Description                                                                                                                                                                                                          |
| 1. Human potential                  | 1.C Formal pre-requisites       | - classification of researchers from aspect of research field, expertise, specialisation, research degrees, degrees in education, membership in national / international scientific organisations, awards, etc.      |
|                                     | 2.A Projects                    | - domestic and foreign research projects in various scientific fields                                                                                                                                                |
| 2. Cooperation                      | 2.B Collaboration               | - involvement of R&D team/institution in national or international collaboration<br>- number of Slovak or foreign R&D institutions participating in a project,<br>- international exchange of academics (in and out) |
|                                     | 3.A Infrastructure and services | - investment in research facilities, equipment,<br>- specific services provided by R&D institutions                                                                                                                  |

**Example of use of SK CRIS data**

**Four pie charts illustrating competence of Slovak publicly-funded universities (faculties) and institutes of the Slovak Academy of Sciences in R&D, innovation and technology transfer**

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### Conclusions on the SK CRIS system

- \* collects and maintains the most current data on R&D activities of Slovak HE and R&D institutions, whether private or publicly-funded,
- \* amongst databases administered by the SCSTI, SK CRIS represents the most complete database (including historical data) on various aspects of R&D covering all publicly-funded, private and not-for-profit R&D institutions,
- \* at the present stage, some data for assessment purposes have to be searched for and processed manually. However, this issue will be taken into consideration in future upgraded versions of the SK CRIS database. The plan is to generate final evaluation reports for either R&D institutions or teams automatically,
- \* integration of other related databases with the SK CRIS will contribute to its huge potential for becoming a complete tool utilised for a variety of purposes,
- \* corrective measures should be introduced to render the data supply procedure more efficient and complete and to motivate all HE and R&Ds to provide all information in compliance with legislative requirements.

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|                   |                    |
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| Klimentová Eliška | Števková Oľga      |
| Králiková Eva     | Tlstovičová Jana   |
| Kravjar Július    | Zendulková Danica  |
| Kubiš Miroslav    |                    |

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## Thank you very much for your attention

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