SK CRIS as an Information Resource for Technology Transfer

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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
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
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/
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
Some examples of specialised EPServices:

* 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.
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
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 KEGA 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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<tr>
<th>Area</th>
<th>Group</th>
<th>Description</th>
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<tr>
<td>1. Human potential</td>
<td>1.C Formal pre-requisites</td>
<td>- classification of researchers from aspect of research field, expertise, specialisation, research degrees, degrees in education, membership in national / international scientific organisations, awards, etc.</td>
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<td>2. Cooperation</td>
<td>2.A Projects</td>
<td>- domestic and foreign research projects in various scientific fields</td>
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|                              | 2.B Collaboration      | - involvement of R&D team/institution in national or international collaboration  
- number of Slovak or foreign R&D institutions participating in a project,  
- international exchange of academics (in and out)                                |
| 3. R&D environment           | 3.A Infrastructure and services | - investment in research facilities, equipment,  
- 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.
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)
Fig. 2. Assessment (in %) of higher education institutes and institutes of the Slovak Academy of Sciences in biological & chemical sciences from perspective of R&D, innovation and technology transfer (2010)

- SUT Bratislava-F. chemistry & food technol.
- SAS-Inst. inorganic chemistry
- SAS-Inst. molecular biology
- SAS-Inst. polymers
- SAS-Inst. genetics & plant biotechnol.
- SAS-Inst. chemistry
- CFF Nitra-F. natural sci.
- MBU Banská Bystrica-F. natural sci.
- CU Bratislava-F. natural sci.
- PUPrešov-F. natural sci. & humanities
- CMU Trnava-F. natural sci.
- PJŠU Košice-F. natural sci.
- CU Bratislava-F. pharmacy
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)

- TU Zvolen-F. forestry
- SAS-Inst. landscape ecology
- SAS-Inst. animal physiology
- SUA Nitra-F. agrobiology & food resources
- SAS-Inst. forest ecology
- SUA Nitra-F. biotechnology & food sci.
- SUA Nitra-F. horticulture & landscape eng.
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)

- SAS- Inst. Physics
- SAS-Inst. Experimental physics
- SAS-Geological inst.
- CU Bratislava-F. mathem., phys. & informat.
- SAS-Mathematical inst.
- SAS-Geophysical inst.
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&DIs to provide all information in compliance with legislative requirements.
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