



From Traditional Librarian Services to Complex Support of Science and Technology in Slovakia



Ľubomír BILSKÝ



Little bit from history ...

- 1938 – Central Library of Slovak Technical University in Kosice established
- 1948 – changing name to: Slovak Technical Library
- 1996 – changing name to: Slovak Scientific and Technical Information Center (SSTIC)
- 2007 – moving to current premises in Bratislava, transformation towards new services (EU funds)



MISSION



- National information centre and specialized scientific library
- Operation of state systems and registries in the field of science (SK CRIS, Publication Activity, Antiplagiarism system, ...)
- National centre for science and technology promotion
- Technology transfer centre with nation-wide operation
- Patent Library Bratislava – PATLIB, dep. library of OECD, EBRD & WIPO
- National Point of Reference for OpenAccess to Scientific Information
- Information and prognoses in education
- Network of National Contact Points for HORIZON 2020
- Slovak Liaison Office for R&D in Brussels (SLORD)





HORIZON 2020



MINISTERSTVO ŠKOLSTVA,
VEDY, VÝSKUMU A ŠPORTU
SLOVENSKEJ REPUBLIKY



NCPs for HORIZON 2020

<http://ncp.cvtisr.sk>

Slovak NCPs Office for HORIZON 2020

Since January 2014

MISSION

- Horizon 2020 awareness raising
- Assistance in setting-up of competitive international project consortia
- More project applications with Slovak participants
- Better success rates of applications with Slovak participants
- More project coordinators from Slovakia
- Increase of excellence in applications with Slovak participants
- Higher funding scores for Slovak participants in Horizon 2020
- Improvement of Slovak participation rates in Horizon 2020

Slovak Liaison Office for Research and Development

Rue du Luxembourg 3, 1000 Brussels

MISSION

- Communication with European institutions in the field of research, development and innovations
- To develop communication with other organizations based in Brussels
- Communication with international research and innovation community
- To improve flow of information between European institutions and Slovak researchers and innovators
- Support of Slovak participation in the European Research Area
- To create a base for Slovak R&D institutions in Brussels
- Identification of potential partners and cooperation
- Providing of consultations for Slovak researchers



CENTRAL REGISTRIES AND SYSTEMS



MINISTERSTVO ŠKOLSTVA,
VEDY, VÝSKUMU A ŠPORTU
SLOVENSKEJ REPUBLIKY



SK CRIS | 1

SK CRIS contains following registries

- R&D organisations
- R&D projects supported from public funds
- R&D personnel (more than 22.000 people, incl. database of experts)
- R&D infrastructure
- RTD results (publications, patents, projects, innovation)

Added value

- Coherent information on Slovak science, integration of all R&D data
- Interoperability with other research systems in the SR and Europe (based on CERIF standards)
- User friendly environment and interface for data input and searching



SK CRIS | 2

The screenshot displays the SK CRIS website interface. At the top, there are navigation links for 'Create new account / password reset', 'Sign In', and 'SKCRIS portal'. The main header features the SK CRIS logo and a search bar. Below the header, there are four main navigation tabs: 'Homepage', 'Registry of researchers', 'Registry of organizations', and 'Results R&D'. The 'Homepage' tab is currently selected.

The main content area is divided into two columns. The left column contains a sidebar with the following links: 'HOME PAGE', 'About portal', 'Data collection', 'Project calls', and 'CREPC portal'. The right column displays search results for the query 'semiconductor'. The search results are summarized in four statistics boxes:

- At the date 20. 4. 2015 is registered **22 183** researchers
- At the date 20. 4. 2015 is registered **12 955** projects
- At the date 20. 4. 2015 is registered **1 353** organisations
- At the date 20. 4. 2015 is registered **119 021** results of R&D

The search results table shows the following entries:

Name
A Self Consistent Approach to IV-Measurements on Rectifying Metal-Semiconductor Contacts
Advanced X-ray diffraction imaging techniques for semiconductor wafer characterisation.
Advanced x-ray imaging for semiconductor wafer characterization. In: SIMC-XII.
Application of 2,6-bis(5'-heavy-2,2'-bithiophene-5-yl)naphthalene for Organic Semiconductor Devices
Application of OVOS technique in calculations of small semiconductor cluster
Application of OVOS technique in calculations of small semiconductor clusters
Born approximation versus the exact approach to carrier-impurity collisions in a one-dimensional semiconductor: Impact on the mobility
Determination of generation parameters in semiconductors by Metal-Oxide-Semiconductor
Determination of plutonium isotopes in seawater samples by Semiconductor Alpha Spectrometry, ICP-MS and AMS techniques
Distribution and Burgers vectors of dislocations in semiconductor wafers investigated by rocking-curve imaging.

At the bottom of the page, there is a footer with the following text: '© Center of Scientific and Technical Information SR', 'Help | Contact | FAQ | E-mail info | Sitemap | Legal information', and 'Supporting research in Slovakia / The project is co-financed by EU funds'.



Central Registry of Publication Activity | 1

www.crepc.sk

- Centralised evidence of publication activity of Slovak universities
- Currently covers 30 universities (public, state and private)
- Bibliographic database contains 321.662 entries from the period 2007 – 2013
- Processing and verification of data, control of formal description of bibliographic records and correctness of their assignment to individual categories
- Information on publication activity is used for presentation, comparison, and mapping of R&D and scientific activity of universities;
- Data is used also as a basis for annual calculation of state subsidies to public universities



Central Registry of Publication Activity | 2

www.crepc.sk

Centrálny register Evidencie publikačnej činnosti

Parameter hľadania: (FREETEXT("Energetika")) | Počet nájdených záznamov: 197 / 197

[← Naspäť](#) | [Hlavná stránka](#) | [Košík \(0\)](#) | [Tlač](#)

Výsledky vyhľadávania

| [Do košíka](#) | Počet záznamov na stránku: 10 ▾

Tabulkový zápis Rozšírený zápis

č.	ID	kategória	autor	názov	rok	zdrojový dokument
<input type="checkbox"/> 1	SPU.Nitra.096280	AAB	Maga Juraj	Komplexný model využitia biomasy na energetické účely	2008	---
<input type="checkbox"/> 2	EU.Bratislava.0090310	AAB	Baláž Peter	Alternatívy vývoja európskej integrácie	2009	---
<input type="checkbox"/> 3	EU.Bratislava.0072637	AAB	Kosír Igor	Energetická bezpečnosť Slovenskej republiky v podmienkach členstva a v Európskej únii	2008	---
<input type="checkbox"/> 4	TU.Košice.70481	AAB	Horbaj Peter	Využitie bioplynu	2008	---
<input type="checkbox"/> 5	ŽU.Žitina.PC022471	AAB	Jandačka Jozef	Biomasa ako zdroj energie. Potenciál, druhy, bilancia a vlastnosti palív	2008	---
<input type="checkbox"/> 6	EU.Bratislava.0059649	AAB	Baláž Peter	Energia a jej vplyv na hospodársky rast vo svetovej ekonomike	2007	---
<input type="checkbox"/> 7	ŽU.Žitina.PC022473	AAB	Jandačka Jozef	Technológie pre prípravu a energetické využitie biomasy	2008	---
<input type="checkbox"/> 8	ŽU.Žitina.PC022474	AAB	Jandačka Jozef	Technológie pre zvyšovanie energetického potenciálu biomasy	2008	---
<input type="checkbox"/> 9	EU.Bratislava.0073765	AAB	Baláž Peter	Energy and its impact on economics growth in the world economy	2008	---
<input type="checkbox"/> 10	TU.Zvolen.0006657	ADC	Orlowski Kazimierz A.	Sawing frozen wood with narrow kerf saws: energy and quality effects	2009	Forest products journal. - ISSN 0015-7473. - Vol. 59, no. 3 (2009), p. 79-83.



Central Registry of Theses and Dissertations | 1

www.crzp.sk

- Creation initiated by the Ministry of Education with aim to ensure collection and archiving of theses, qualification works and dissertations from and create a corpus for Antiplagiarism system
- The registry operation started in April 2010 and currently contains more than 300.000 records from all HEIs
- Theses and dissertations submitted after 1.9.2011 are according to novelisation of Act on Higher Education publicly accessible
- **ANTIPLAGIARISM SYSTEM** – all theses and dissertations are compared with other works in registry and with selected internet resources (originality check)



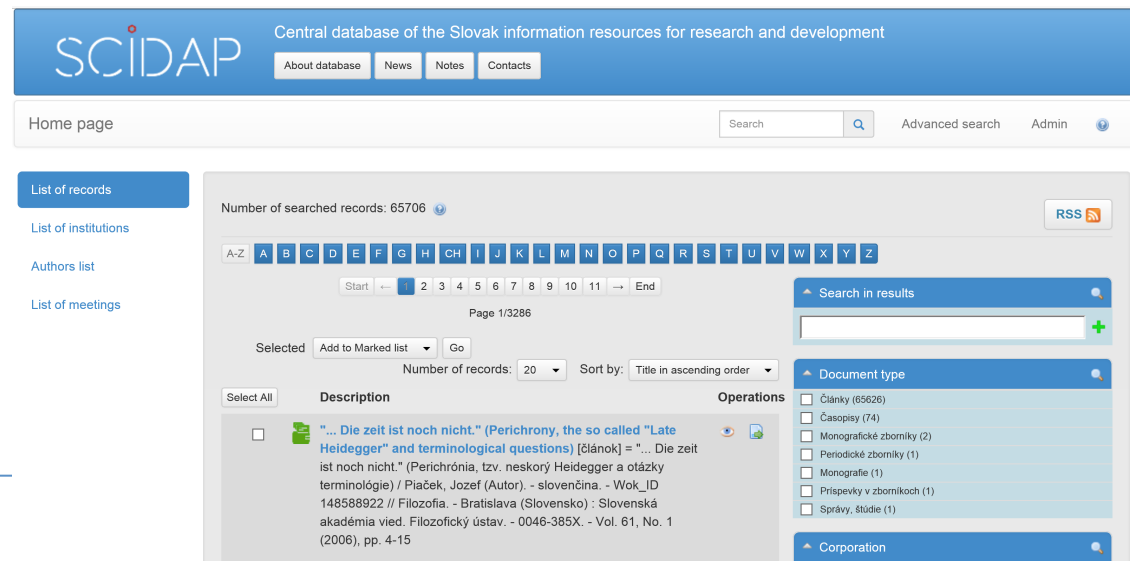
Central Registry of Theses and Dissertations | 2

www.crzp.sk

- **European Prize for Innovation in Public Administration**
 - Initiatives for Education and Research
- Announced on 6 June 2013 during the Week of Innovative Regions Europe Conference (WIRE IV)
- € 100.000 for further development and promotion of the system



- Central database of Slovak information resources for R&D
- SciDAP will be the central access point to full texts of Slovak OpenAccess scientific publications
- Currently offers bibliographic records on OA titles and articles with links to source documents
 - 74 journals
 - 65 626 articles



The screenshot displays the SciDAP web interface. At the top, the header includes the SciDAP logo and the text "Central database of the Slovak information resources for research and development". Navigation links for "About database", "News", "Notes", and "Contacts" are visible. Below the header, there is a search bar and a "Home page" link. The main content area shows a search results page with 65,706 records. A sidebar on the left contains navigation options: "List of records", "List of institutions", "Authors list", and "List of meetings". The search results table includes columns for "Description" and "Operations". A sample record is shown with the title "... Die zeit ist noch nicht." (Perichrony, the so called "Late Heidegger" and terminological questions) [článok] = "... Die zeit ist noch nicht." (Perichronia, tzv. neskorý Heidegger a otázky terminológie) / Piaček, Jozef (Autor). - slovenčina. - Wok_ID 148588922 // Filozofia. - Bratislava (Slovensko) : Slovenská akadémia vied, Filozofický ústav. - 0046-385X. - Vol. 61, No. 1 (2006), pp. 4-15. The "Document type" sidebar on the right lists categories such as "Články (65626)", "Časopisy (74)", "Monografické zborníky (2)", "Periodické zborníky (1)", "Monografie (1)", "Príspevky v zborníkoch (1)", and "Správy, štúdie (1)".



NATIONAL PROJECTS

... EU structural funds ...



National information system promoting research and development in Slovakia – *Access to electronic information resources*



<http://nispez.cvtisr.sk>

OBJECTIVE

Provision of access to R&D-related electronic information resources for the science community and university students in Slovakia

IMPLEMENTATION

DEC 2008 – DEC 2015

BUDGET

€ 30 millions

 ACM / Association for Computing Machinery	 Art Museum Image Gallery	 Gale Virtual Reference Library: Art	 IEEE/ET Electronic Library (IEL)
 Knovel Library	 ProQuest Central	 REAXYS (pôvodne Beilstein-CrossFire Direct)	 ScienceDirect
 SCOPUS	 SpringerLink	 Web of Knowledge – Current Contents Connect	 Web of Knowledge – Essential Science Indicators
 Web of Knowledge – Journal Citation Reports	 Web of Knowledge – Web of Science	 Web of Knowledge – Web of Science with Conference Proceedings	 Wiley InterScience



Supporting research in Slovakia / Project co-financed from the EU funds

Data centre for research and development



<http://dc.cvtisr.sk>

OBJECTIVE

Building the ICT infrastructure that will store, process and provide high access to information needed for R&D activities

- ***Digitizing work station at SSTIC as part of the project***

IMPLEMENTATION

June 2009 – June 2015

BUDGET

33 133 963,58 €



Supporting research in Slovakia / Project co-financed from the EU funds

National infrastructure for technology transfer support in Slovakia – NITT SK



<http://nitt.cvtisr.sk>

OBJECTIVE

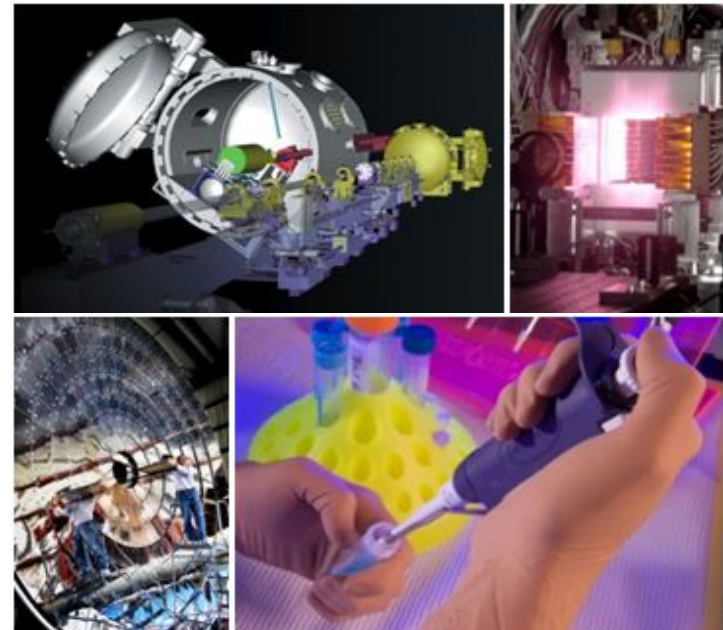
Creation and implementation of national system for support of RTD results application in social and economic praxis

IMPLEMENTATION

June 2010 – December 2014

BUDGET

8 234 571,17 €



PATLIB in the SCSTI since May 2003

- In co-operation with the Industrial Property Office of the SR

PATENT INFORMATION SERVICES

- Patent research and state-of-the-art searching services
- Information on IP-related issues and IPR protection
- Organisation of specialized seminars and trainings

EPO pilot project for PATLIB reorientation (2010 – 2013)



INDUSTRIAL PROPERTY OFFICE
OF THE SLOVAK REPUBLIC



PopVaT – Promotion of Science and Technology in Slovakia

**Pop
VaT**

<http://popvat.cvtisr.sk>

OBJECTIVE

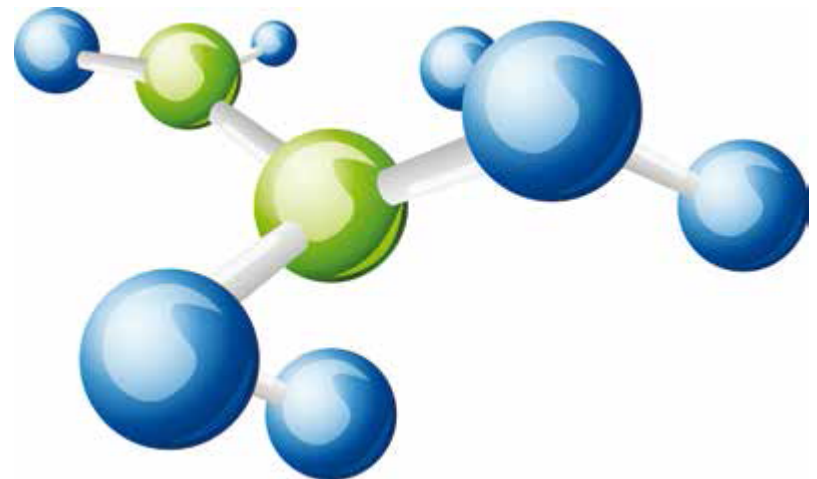
The aim of the project is to improve the perception and status of science in society through the promotion of science and technology towards the wider public, including the youth.

IMPLEMENTATION

April 2013 – November 2015

BUDGET

14 949 307,90 €



Supporting research in Slovakia / Project co-financed from the EU funds

OBJECTIVE

Creation and development of National Business Centre (NPC) as an interface between industry and academia

PARTNER

Slovak Business Agency

IMPLEMENTATION

06/2014 – 10/2015

BUDGET

9 989 602,86 €



NPC

NATIONAL
BUSINESS
CENTRE



SPACE FOR YOUR IDEAS AND CREATIVITY

Open platform for designers, artists, students and general public, offering the space for working with technologies of XXI, century.

FAKULTA INFORMATIKY
A INFORMAČNÝCH TECHNOLOGIÍ
STU BRATISLAVA
Ilkovičova 2
Bratislava

www.fablab.sk

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INSTITUT
FRANÇAIS

AMBASSADE DE FRANCE
EN SLOVAQUIE

STU
FIIT

BRATISLAVA



NPC
NACIONALNE
PODNIKATEL'SKE
CENTRUM

Slovak Scientific and Technical
Information Centre

French institute in Slovakia

Faculty of Informatics and
Information Technologies STU

Bratislava municipality



Higher education institutions – driving force for a knowledge-based society

OBJECTIVE

Adjusting the higher education to real needs of knowledge-based society by creating a pilot system linking universities with business practice (cooperation network)

IMPLEMENTATION

05/2013 – 11/2015

BUDGET

17,072 mil. EUR



Modern education – digital education for subjects in general education



www.digitalnevzdelavanie.sk

OBJECTIVE

Content conversion of education at primary and secondary schools using innovative teaching forms and methods and introduction of digital technology in education (digital learning objects)

IMPLEMENTATION

03/2013 – 11/2015

BUDGET

19,564 mil. EUR



Európska únia
Európsky fond regionálneho rozvoja



Modern education for knowledge society / The project is co-funded by the EU

INTERNATIONAL PROJECTS

- **FORT** www.project-fort.com
 - Fostering Research and Technology Application
- **SEE Science** www.seescience.eu
 - Science Sentres Development in SEE region



- **SmartNet** www.twinstars.eu
 - Technology Centres Network



- **CentralCommunity** www.central-community.eu
 - Life Science Innovation

- **SEE Technology** www.seetechnology.eu
 - Science Parks Development



- **HORIZON 2020**
 - 7 running projects (Cosmos; IdealIST; NCPsCaR; ERN; Net4Society; OpenAIRE; VIP4SMEs)

PUBLISHING

QUARK *Science and technology magazine*



ITlib. Information technologies and libraries



TTb Technology transfer bulletin



SK Scientific kaleidoscope





CONTACT

CVTI SR

Lamacska cesta 8/A
811 04 Bratislava, Slovakia

Ing. Ľubomír BILSKÝ
director of science support
section

Tel: +421 2 69253 103
Fax: +421 2 69253 180
E-mail: cvti@cvtisr.sk

