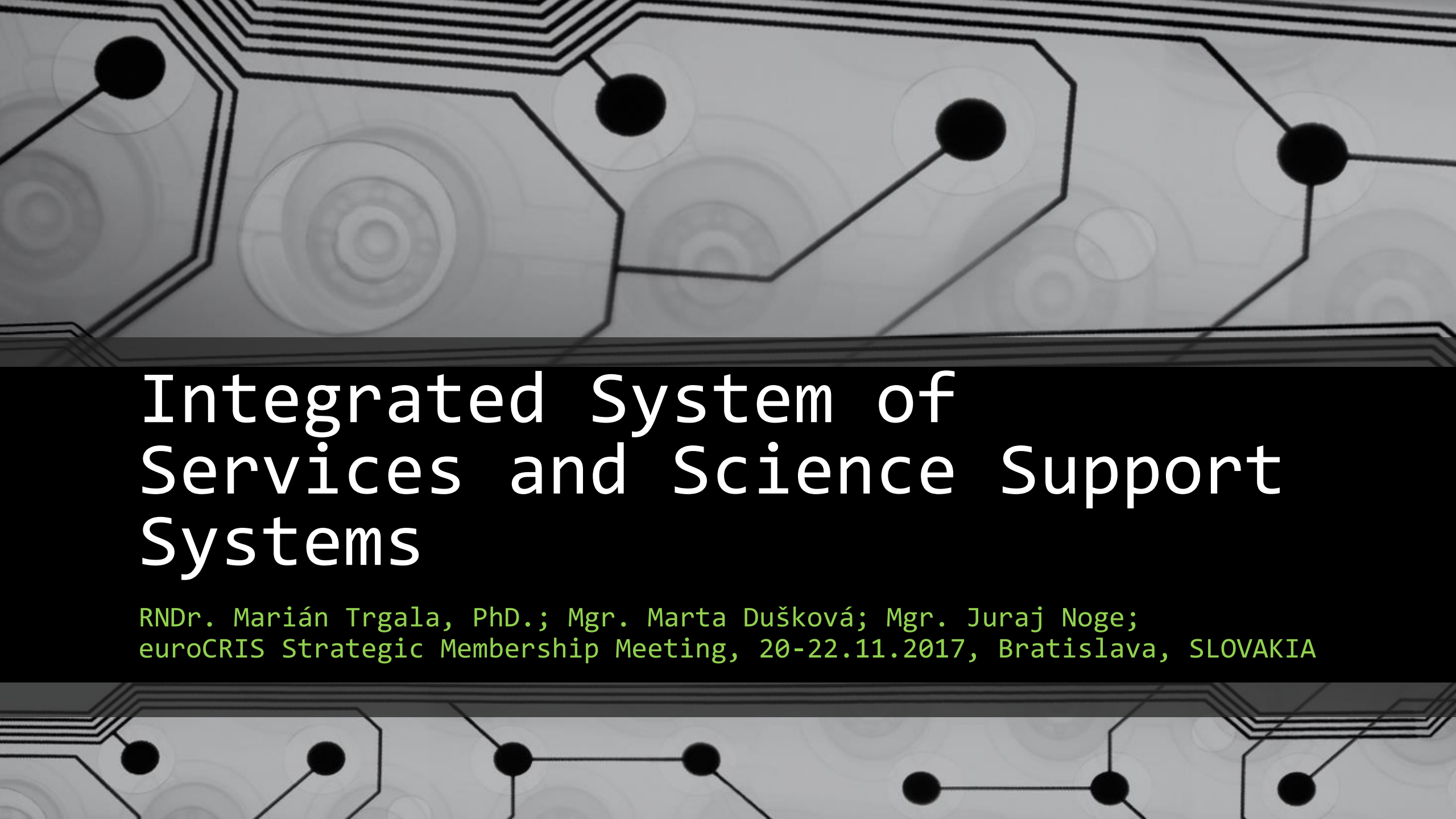




# Integrated System of Services and Science Support Systems

RNDr. Marián Trgala, PhD.; Mgr. Marta Dušková; Mgr. Juraj Noge;  
euroCRIS Strategic Membership Meeting, 20-22.11.2017, Bratislava, SLOVAKIA

# CONTENT

- Integrated System of Services of the Slovak Centre of Scientific and Technical Information (Slovak acronym **ISS CVTI SR**)
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- Centralized National Corpus of Electronic Theses and Dissertations (Slovak acronym **CRZP**) with Plagiarism Detection System (Slovak acronym **APS**)

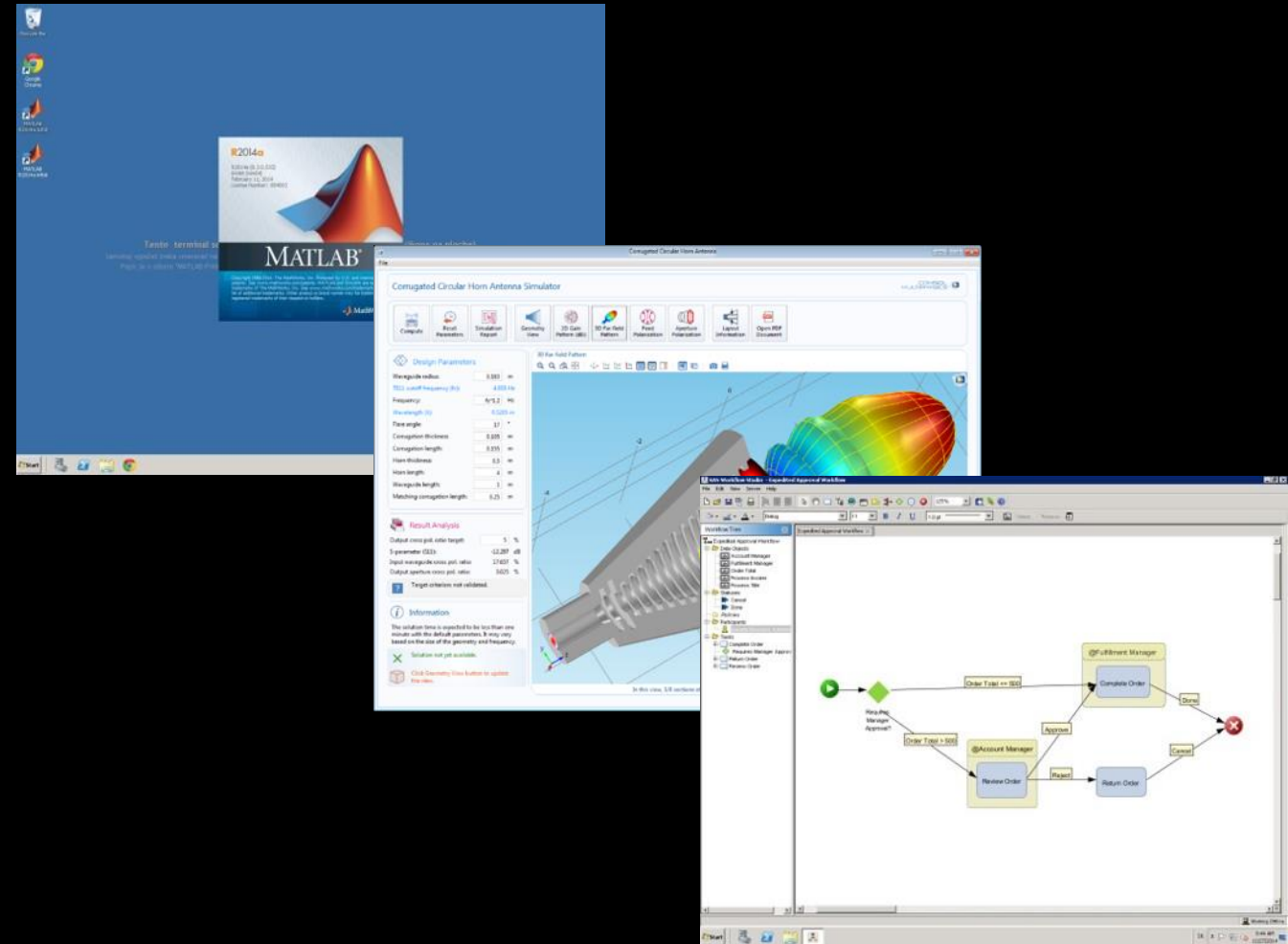
# Integrated System of Services of The Slovak Centre of Scientific and Technical Information (Slovak acronym ISS CVTI SR)

- Established in 2 phases:
  - In **2014** – web portal, AS, MATLAB
  - In **2015** – components of integration platform (ESB, BAM, ...), COMSOL, SAS
- For students and scientific researchers of Slovak universities, research institutes and Slovak Academy of Sciences
- Provide capabilities of Data Centre for Research and Development, support scientific research
  - Access to application software
  - Hosting, Webhosting, workshops, ...



# Integrated System of Services of The Slovak Centre of Scientific and Technical Information (Slovak acronym ISS CVTI SR)

- Registration on <https://iss.cvtisr.sk>
- Private zone:
  - Service orders with management
  - Incident reporting and management
- Creation of user identity in the system
- Propagation through all relevant service systems with approved access
- Provided services:
  - MATLAB, COMSOL, SAS via RDP
  - Batch Mode for MATLAB on cluster = MATRON
  - WebDAV Data Storage
  - Hosting
  - Webhosting
  - Data Back Up & Restore
  - Consultations



# Integrated System of Services of The Slovak Centre of Scientific and Technical Information (Slovak acronym **ISS CVTI SR**)

- Future steps:
  - Single Sign On
  - Web portal re-design
  - Provide more scientific application software for users
  - Infrastructure upgrade for more power efficiency of all system components
  - More efficient process management
  - More institutions and users to support



# Central Register of Artistic Activities (Slovak acronym CREUČ)

- Established in 2008
- Complex-automatized collection and registration of artistic activities of Slovak universities since 2008, which are specialized in artistic study programs
- Creating a unique source of information for professionals and the public which enables the presentation and comparison of results of artistic activities of universities
- Provide a basis for calculation of state subsidy for public universities in Slovakia



# Central Register of Artistic Activities (Slovak acronym CREUČ)

- Operated by SCSTI
- Central Registry of Publication Activity: common portal for both registers at [cms.crepc.sk](https://cms.crepc.sk)
- Publicly available art works, artistic activities and responses are registered



The screenshot shows the web interface of the Central Register of Artistic Activities (CREUČ). The header features the title "Centrálny register evidencie umeleckej činnosti" and the Slovak coat of arms. Below the header, there are two tabs: "Jednoduché" (Simple) and "Rozšírené vyhľadávanie" (Advanced search). The main search area contains a text box with instructions: "Pre úspešné vyhľadávanie je potrebné vyplniť aspoň jednu kolónku. Každý zadaný výraz musí obsahovať minimálne tri znaky, v opačnom prípade sa bude ignorovať." (For successful searching, it is necessary to fill in at least one column. Every entered expression must contain at least three characters, otherwise it will be ignored). Below this, there are several search criteria with input fields and dropdown menus: "Autor:" (Author), "Názov:" (Name), "Podujatie:" (Event), "Inštitúcia:" (Institution), "Univerzita:" (University) with a dropdown menu showing "Všetky univerzity", "Druh umeleckej činnosti:" (Type of artistic activity) with a dropdown menu showing "Všetky umelecké činnosti", "Hlavné druhy um. činnosti:" (Main types of artistic activity) with a dropdown menu showing "Vyberte kategóriu umeleckej činnosti", and "Kategória:" (Category) with a dropdown menu showing "[ ] Vyberte kategóriu". There are also date filters: "Výstup umeleckej činnosti:" (Output of artistic activity) with a dropdown menu showing "Vyberte si výstup", "Od roku:" (From year) with a dropdown menu showing "2017", and "po rok:" (until year) with a dropdown menu showing "2017". A "Hľadať" (Search) button is located at the bottom of the search area. At the very bottom of the page, there is a small text: "Návrh a riešenie SVOP WEBDIZAJN".

# Central Register of Artistic Activities (Slovak acronym CREUČ)

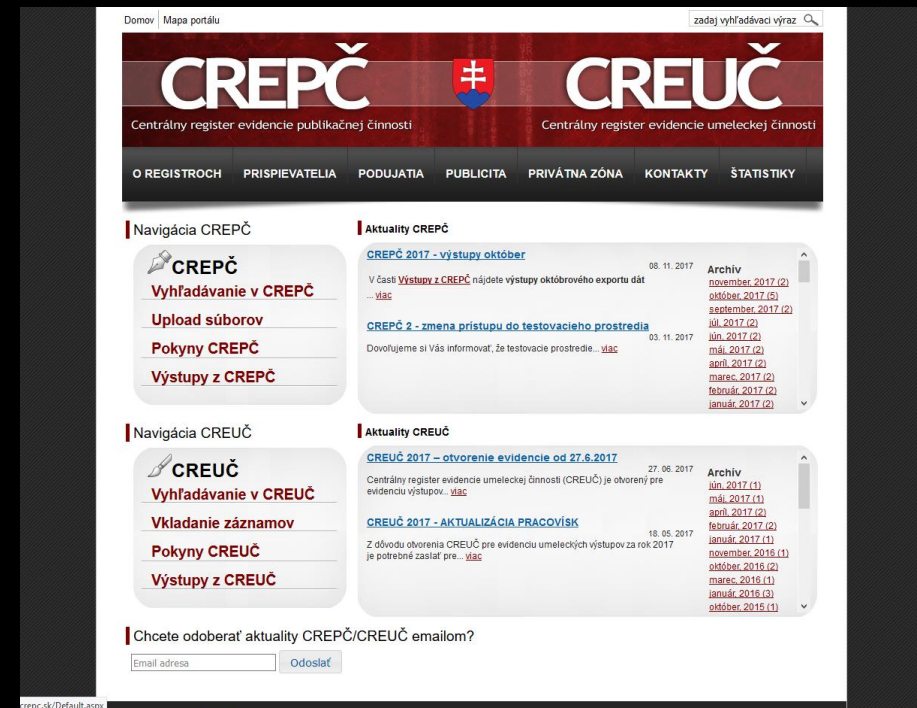
- Subjects of the registration:

- Visual arts
- Design
- Architecture
- Restoration
- Curatorship
- Musical arts
- Performing arts
- Film
- Dance

| Základná (36) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Rozšírená tabuľka (36) |                              |  |  |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------|--|--|
| Identifikátor | Náhrad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Rok                    | PDF                          |  |  |
| EUCA38543     | EUCA38543 - Patrik Illo-Aleksandra Stencel : Meawhile in Secret Garden; DOX - Centrum súčasného umění / ILLO, Patrik (1973), VŠ výtvarných umení v Bratislave, Nemá fakulty, Katedra užitočných umení; Kategória: ZYX; Výstup umeleckej činnosti: Autorský výstup; Druh výstupu: Podujatie; Názov: Patrik Illo-Aleksandra Stencel : Meawhile in Secret Garden (27.10.2017.- 31.1.2018 : Praha, Česká republika); Charakteristika: Výstava autorskej dvojice P. Illo- A. Stencel;; Miera účasti: Samostatná / Sôľistická; Dátum zverejnenia výstupu/výkonu umeleckej činnosti: 27.10.2017.- 31.1.2018; Dokumentácia realizácie výstupu/výkonu: Pozvánka; Web-screenshot-výstava, autori; Web-fotodokumentácia vystavovaných diel;; odkaz na internetový zdroj                                                                                                                    | 2017                   | <a href="#">Stiahnuť PDF</a> |  |  |
| EUCA38206     | EUCA38206 - London Design Fair; London Design Fair / LAŠŠÁK, Marián (1979), VŠ výtvarných umení v Bratislave, Nemá fakulty, Katedra dizajnu; Kategória: ZYX; Výstup umeleckej činnosti: Autorský výstup; Druh výstupu: Podujatie; Názov: London Design Fair (21.9. - 24.9.2017 : Londýn, Veľká Británia); Charakteristika: Festival dizajnu; Miera účasti: Kolektívna / Skupinová; Dátum zverejnenia výstupu/výkonu umeleckej činnosti: 21.9. - 24.9.2017; Dokumentácia realizácie výstupu/výkonu: Pozvánka, web-screenshot stránky- vystavujúci autor, web tlač-o diele;; odkaz na internetový zdroj                                                                                                                                                                                                                                                                           | 2017                   | <a href="#">Stiahnuť PDF</a> |  |  |
| EUCA38082     | EUCA38082 - Zóna bez hraníc : česko-slovenský autorský šperk; Galerie N / CEPKOVÁ, Blanka (1966), VŠ výtvarných umení v Bratislave, Nemá fakulty, Katedra textilnej tvorby; Kategória: ZYX; Výstup umeleckej činnosti: Autorský výstup; Druh výstupu: Podujatie; Názov: Zóna bez hraníc : česko-slovenský autorský šperk (7.11. - 28.11.2017 : Jablonec nad Nisou, Česká republika); Charakteristika: Výstava- kurátorský výber- český a slovenský autorský šperk; Kurátori: Marcela Kindl Steffanová, Terézia Vernerová Volná, Mária H. Nepěšinská;; Miera účasti: Kolektívna / Skupinová; Dátum zverejnenia výstupu/výkonu umeleckej činnosti: 7.11. - 28.11.2017; Dokumentácia realizácie výstupu/výkonu: Pozvánka, Web-screenshot_o výstave, vystavujúci autori, kurátori; odkaz na internetový zdroj ; Ďalšie údaje: Bude vydaný katalóg                                   | 2017                   | <a href="#">Stiahnuť PDF</a> |  |  |
| EUCA38081     | EUCA38081 - Zóna bez hraníc : česko-slovenský autorský šperk; Galerie N / WEISLECHNER, Karol (1957), VŠ výtvarných umení v Bratislave, Nemá fakulty, Katedra užitočných umení; Kategória: ZYX; Výstup umeleckej činnosti: Autorský výstup; Druh výstupu: Podujatie; Názov: Zóna bez hraníc : česko-slovenský autorský šperk (7.11. - 28.11.2017 : Jablonec nad Nisou, Česká republika); Charakteristika: Výstava- kurátorský výber- český a slovenský autorský šperk; Kurátori: Marcela Kindl Steffanová, Terézia Vernerová Volná, Mária H. Nepěšinská;; Bude vydaný katalóg z výstav;; Miera účasti: Kolektívna / Skupinová; Dátum zverejnenia výstupu/výkonu umeleckej činnosti: 7.11. - 28.11.2017; Dokumentácia realizácie výstupu/výkonu: Pozvánka, Web-screenshot_o výstave, vystavujúci autori, kurátori; odkaz na internetový zdroj ; Ďalšie údaje: Bude vydaný katalóg | 2017                   | <a href="#">Stiahnuť PDF</a> |  |  |
| EUCA38044     | EUCA38044 - Vitrum Balticum 2017 : New Stories; Gallery Meno Parkas / ILLO, Patrik (1973), VŠ výtvarných umení v Bratislave, Nemá fakulty, Katedra užitočných umení; Kategória: ZYX; Výstup umeleckej činnosti: Autorský výstup; Druh výstupu: Podujatie; Názov: Vitrum Balticum 2017 : New Stories (4.10. - 27.10.2017 : Kaunas, Litva); Charakteristika: Výstava; Kurátori výstavy: Maja Heuer, Jullija Paclute;                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |                              |  |  |

# Central Registry of Publication Activity (Slovak acronym CREPČ)

- Established in **2007** as a systematic solution for MinEdu (The Ministry of Education, Science, Research and Sport of the Slovak Republic)
- SCSTI – operator and administrator of the system
- Evidence of publication activity from all universities in Slovakia
- Statistics for MinEdu - state budget for universities
- Legislation: MinEdu Directive 13/2008-R (valid until 2012), MinEdu Edict 456/2012 (valid from 2012)



# Central Registry of Publication Activity (Slovak acronym CREPČ)

- Bibliographic database (including data harvesting from universities)
- Evaluation process:
  - evidence – universities
  - formal control – SCSTI dep.
  - content control – MinEdu commission
- System as a source of:
  - Statistics for MinEdu
  - Bibliometrics & Scientometrics analyses
  - Presenting point of author, affiliation, country, ...

The screenshot shows the web interface of the Central Registry of Publication Activity (CREPČ). At the top, there is a blue header with the Slovak coat of arms and the text "Centrálny register Evidencie publikačnej činnosti". Below the header, there is a navigation bar with "Hlavná stránka" and "Vyhľadanie". The "Vyhľadanie" section contains a search form with two tabs: "Jednoduché" (selected) and "Rozšírené". The search form includes several input fields and dropdown menus for search criteria: "Názov", "Názov zdroj. dok.", "Autor", "Rok vydania", "jazyk", "Obsahuje výraz", and "Začína na". There are also buttons for "Výber databázy", "Hľadať", and "Vyčistiť formulár".

# Central Registry of Publication Activity (Slovak acronym CREPČ)

- Categories of publications:
  - Monographs, chapters
  - Articles in journals
  - Papers in proceedings
  - Patent documents, reviews, etc.
- Together 84 categories
- Criteria for publication types:
  - Scientific / Professional / Artistic, National / Foreign, Reviewed / not reviewed, etc.
- Available at [cms.crepc.sk](https://cms.crepc.sk)



# Central Registry of Publication Activity (Slovak acronym CREPČ)

- Future steps:
  - Next development of the system
  - Possibility to work in real time (online database)
  - Possibility of citation evidence
  - Pairing data and information about publications with projects, databases, cooperating institutions, cooperating authors
  - Possible source for evaluation of Slovak science on the national level



# Centralized National Corpus of Electronic Theses and Dissertations (Slovak acronym CRZP) with Plagiarism Detection System (Slovak acronym APS)

- In **2008** after a Slovak Rector's conference focused on issue of plagiarism – MinEdu decided to create national repository of theses and plagiarism detection system
- In **2009**: Higher Education Act amendment - all universities (operating under Higher Education Act) must send each thesis to national repository of theses, each thesis originality must be verified
- Established in **2010**: Central Repository of Theses and Dissertations, Plagiarism Detection System



# Centralized National Corpus of Electronic Theses and Dissertations (Slovak acronym CRZP) with Plagiarism Detection System (Slovak acronym APS)

- Plagiarism detection and prevention
- Before state examination supervisor gets Protocol of Originality Check (must pass criteria)
- After state examination public access to thesis in Central Repository of Theses and Dissertations
- Central Repository of Theses and Dissertations is an information source about grey literature produced at Slovak universities and provides free access
- The comparison corpus consists of bachelor, diploma, rigorous, dissertation and habilitation theses and selected internet resources content

The screenshot shows the CRZP search interface. At the top, there is a header with the Slovak flag and the text "Centrálny register záverečných a kvalifikačných prác" and "CRZP". Below the header, there is a navigation bar with "Hlavná stránka" and "Zoznam záznamov". The main search area includes a search bar with the placeholder "Zadajte text pre hľadanie..." and a "Hľadať" button. Below the search bar, there are several filters: "musí platiť" (must be), "Všetky polia" (all fields), "Voľný text" (free text), "Názov" (name), "Autor" (author), "Začína na" (starts with), and "Jazyk" (language). There are also fields for "Rok odovzdania" (year of submission), "Rozsah rokov" (range of years), "Od..." (from), "Do..." (to), "Študijný odbor" (study field), and "Iba zverejnené práce" (only published works). At the bottom, there is a footer with logos of the Ministry of Education, Science and Sports of the Slovak Republic, the National Repository of Theses and Dissertations, and the European Union, along with the text "Podporujeme výskumné aktivity na Slovensku / Projekt je spolufinancovaný zo zdrojov EÚ" and "Verzia systému: 3.13.2 z 22.09.2017".

# Centralized National Corpus of Electronic Theses and Dissertations (Slovak acronym CRZP) with Plagiarism Detection System (Slovak acronym APS)

- All theses at [www.crzp.sk](http://www.crzp.sk) – free access
- Archived for 70 years (by the law)
- About 550.000 theses in system
- Yearly 70.000 theses added
- The comparison corpus consists of about 20 million documents from the internet and other sources
- In 2013: **European Prize for Innovation in Public Administration highlights vision, excellence and innovation in the public sector** (100.000 EUR for next development)



# Centralized National Corpus of Electronic Theses and Dissertations (Slovak acronym **CRZP**) with Plagiarism Detection System (Slovak acronym **APS**)

- Future steps:
  - Continuous development of the Plagiarism Detection System algorithm
  - Infrastructure upgrade for:
    - more power efficiency of the system
    - shortening the calculation time
    - building a larger and better comparison corpus
  - Implementation of multilingual comparison
  - Use of the system also for other types of documents: publications, projects, seminar thesis, etc.





Thank you  
for your  
attention 😊

Marián Trgala  
Application Software Support  
Department  
SCSTI

