

Centrálny register zaverečných prác a antiplagiátorský systém ako komplexné riešenie na národnej úrovni

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National infrastructure for supporting technology transfer in Slovakia – NITT SK





Central registry of theses and dissertations and the anti-plagiarism system as a comprehensive solution at national level

NRGL seminar, Prague, 23/10/2013

Juraj Noge Marta Dušková

Synopsis

- The idea behind the establishment of the CRTD/APS,
- The stages in the CRTD/APS project,
- The document collection and verification process,
- Technical solutions and operation,
- CRTD/APS benefits and awards,
- Further development plans.



The idea behind the establishment of the CRTD/APS

- The growth in plagiarism since 2000,
- The growth in the numbers of higher education institutions and students,
- A requirement for a central storage space for documents,
- First institutions to check originality:
 - School of Management in Trenčín,
 - Constantine the Philosopher University in Nitra,
 - Comenius University in Bratislava,
- **2006** Slovak Rectors' Conference an effort the remedy the existing situation,
- **2008** The Ministry of Education of the SR decided on the creation of a comprehensive solution at national level,
- **2009** Legislative support (amendment to the Act on Higher Education Institutions).

Management of solutions and organisation



- Constantine the Philosopher University in Nitra (initial cooperation during the creation of the CRTD, analytical activities)
- Slovak Centre of Scientific and Technical Information (organisational management of the implementation of the CRTD/APS, implementation and operation of the CRTD/APS)
- SVOP, spol. s r.o. (technical solution contractor)
- Ministry of Education of the SR (legislative support, financing, system administration)

CRTD/APS project solution stages

- Analytical/conceptual/organisational stage 2008
 (Constantine the Philosopher University, CRTD, SVOP, methodological regulations of the Ministry of Education, technical solution concept)
- **CRTD implementation stage 2009** (implementation of the SW and technical infrastructure of the CRTD, operator SCSTI, preparation of connected instructions, regulations)
- APS implementation stage 2009 2010 (public tender for contractor, implementation of the APS, put into operation 4/2010)
- Migration of the CRTD/APS 2011 (migration of the system to DC RD, making documents available)

Document collection and verification process

- ETDs of higher education institutions as local storage spaces,
- Transfer of metadata to the CRTD in batches,
- Automatic downloading of full-texts of documents,
- Plagiarism comparison,
- Protocols generated and sent to higher education institutions,
- Incorporation of documents into comparison corpus,
- Commission evaluation of material.



Technical solution



Application server

 internet communication, portal services, downloading full texts,

Storage server

 Storage space for original files and plain texts, output protocols, logs, ...

Database server

Operation of MS SQL databases

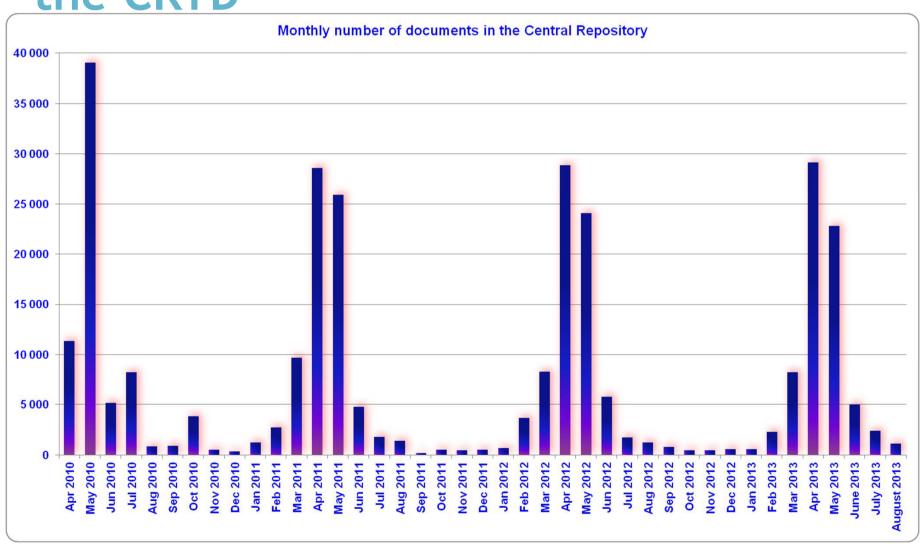
Antiplag server

 Indexing and scanning core of the algorithm

CRTD/APS operation

- 33 higher education institutions involved,
- growth of around **75,000** documents a year,
- total of around **300,000** documents in storage,
- over **5,000,000** documents from internet sources in the corpus, around 2 TB of data,
- Organisational perspective:
 - cooperation with the administrators of local storage spaces at higher education institutions,
 - higher education institution technical support,
 - cooperation with the Ministry of Education.
- Technical perspective:
 - Non-stop operation -24/7,
 - Security and capacity DC RD,
 - Originality Report within 48h,
 - Average time for comparison and protocol generation around 10 seconds.

Monthly increase in documents in the CRTD



CRTD/APS benefits

- CRTD/APS establishment = <u>preventive/behavioural</u> effect
- making the behaviour of both students and pedagogues more responsible,
- increasing students' independence during the document creation process,
- increasing the quality of the theses and dissertations,
- more thorough work with literature, citations of used sources.
- ??? Reduction in plagiarism

CRTD/APS awards



2nd place:

• **2011** – ITAPA conference - competition for the best product in the digitisation of public administration in the "New Services" category

1st place:

• 2013 – European Commission – "European Prize for Innovation in Public Administration" competition in the "Initiatives in Education and Research" category CORK, Ireland - €100,000



Further development plans

- Employment of the winning algorithm in originality checks,
- Expansion of the number of licences for the Antiplag server (accelerating system response),
- Web version of the Originality Report (displaying all the matches in the text),
- Expansion of the comparison corpus with documents in Czech from internet sources,
- Comparison of documents in foreign languages (especially English) directly with internet sources,
- Provision of control services to other institutions (control of outputs from projects financed from public sources, etc.)





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Thank you for your attention.

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