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

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National infrastructure for supporting
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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

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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 to 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



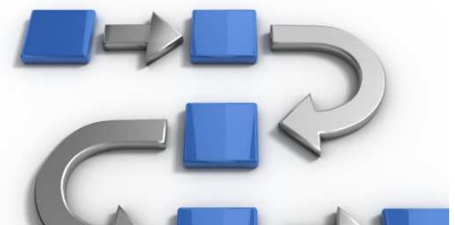
- **Constantine the Philosopher University in Nitra** (initial cooperation during the creation of the CRTD, analytical activities)
- **Slovak Centre of Scientific and Technical Information** (organisational management of the implementation of the CRTD/APS, implementation and operation of the CRTD/APS)
- **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



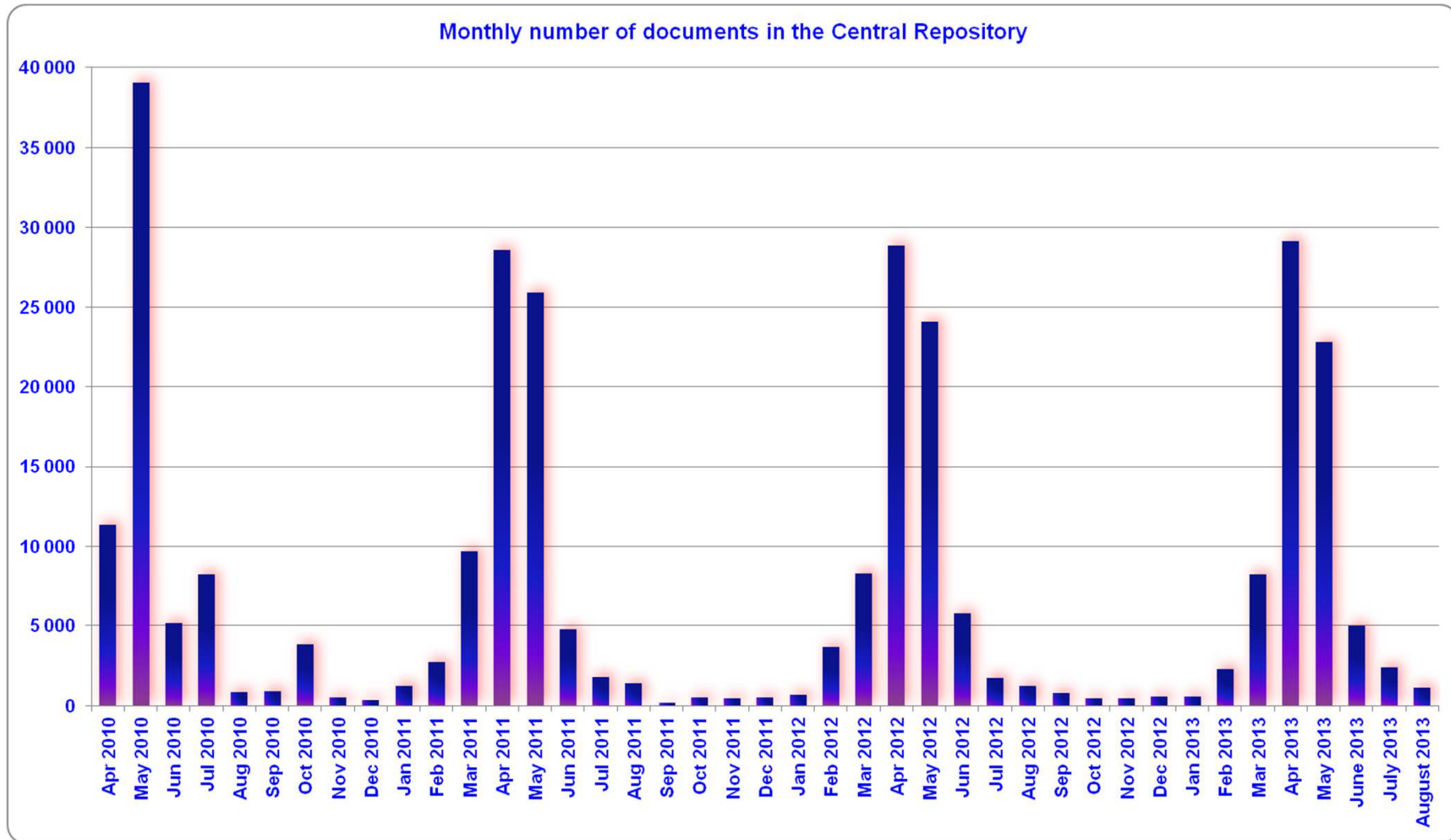
- **Application server**
 - internet communication, portal services, downloading full texts,
- **Storage server**
 - Storage space for original files and plain texts, output protocols, logs, ...
- **Database server**
 - Operation of MS SQL databases
- **Antiplag server**
 - Indexing and scanning core 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 = preventive/behavioural 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.

NRGL seminar, Prague, 23/10/2013

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