

# ANTIPLAG: plagiarism detection system

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**Organisation:** Slovak Centre of Scientific and Technical Information (CVTI SR)

**Country:** Slovak Republic

**Level of government:** Central government

**Sector:** General public services

**Type:** Data, Digital, Public Service

**Launched in:** 2010

**Link to the innovation's website**

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# Description

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ANTIPLAG is a nationwide electronic central repository of theses and dissertations (T&D) and a nationwide plagiarism detection system (PDS) in Slovakia, obligatory for all higher education institutions operating under the Slovak legal order. The program has meant a positive breakthrough in the fight against plagiarism in Slovakia. In 2009, only three higher education institutions used PDS and now all of them do. The originality protocol for higher education institutions is created by uniform methodology.

ANTIPLAG is a tool contributing to a higher level of education and R&D, supporting creativity, autonomy, academic ethics and morale of the students. It increases the transparency of T&D that are under the public scrutiny ([www.crzp.sk/crzpopacxe](http://www.crzp.sk/crzpopacxe)). It helps to increase copyright and intellectual property rights awareness, improves the work of students with literature, Internet, and quotes. ANTIPLAG changed the Slovak internet/media: there are significantly more texts concerning plagiarism on the Internet/media and the number of searches for the term plagiarism significantly increased. The public is now better informed on the issue.

Strategies and responses to plagiarism in Slovakia, pp. 201-215.

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## Why the innovation was developed

Before the implementation of ANTIPLAG, we witnessed a “breeding ground” of the spread of plagiarism in written papers at higher education institutions caused by: (1) Low awareness of copyright, intellectual property rights, academic ethics combined with a growing number of Internet users, higher education institutions, students and disproportionate increase in the number of teachers. (2) Sporadic efforts of higher education institutions to check the originality of theses and dissertations; a lack of a systemic tool to fight plagiarism; only three higher education institutions used plagiarism detection systems in 2009. (3) Uninformed public; a lack of access to T&D from one place (Internet site) by the public.

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## Objectives

Enhance public trust, Enhance transparency, Improve effectiveness

- To build a nationwide barrier to thriving plagiarism at Slovak higher education institutions.
  - To prepare the necessary infrastructure, to implement and to operate a systemic tool to fight plagiarism at national level.
  - To build up the nationwide central repository of T&D.
  - To set an obligation of originality check of every T&D from all higher education institutions before the defence.
  - To raise up awareness in the area of copyright, intellectual property rights and academic ethics.
  - To prepare for the public the central access point to all T&D for inspection.
  - To better inform the public about plagiarism issues.
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## Main beneficiaries

Academia, Civil Society, Government bodies, Students

- Academic community (250 000).
- General public (5 400 000).
- Educational system.
- Ministry of Education, Science, Research and Sport of the Slovak Republic.
- Slovak economy.

# Results

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## Efficiency

The operation of the central repository and plagiarism detection system acts preventively in the academic community.

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## Effectiveness

- Improved the work of students with literature, Internet, and quotes contributing to a higher quality of theses and dissertations.
  - Increased copyright and intellectual property rights awareness and academic ethics.
  - A positive breakthrough in the fight against plagiarism.
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## Service quality

### Accessibility:

The public itself is able to verify suspected theses from one place, i.e. an Internet site.

### Responsiveness:

The Originality check protocol is delivered in requested time.

### Reliability:

The system is consistent for all higher education institutions.

### Other:

Students and teachers are forced to be more responsible.

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## Other improvements

The public is better informed.

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## Evaluation

Yearly we have about 70-75 000 theses and dissertations in Slovakia. The configuration of the system is scalable and today it is prepared to process 15 000 theses and dissertations daily.

The implementation of the system was evaluated in the media by higher education institutions officials - they agreed that system contributed to:

- Increased responsibility of students and teachers.
- Greater student autonomy in the creation of papers.
- Improvement in the quality of papers.
- A higher level of citations.

Implementation consequences: the increased number of searches of the word plagiarism and bigger number of texts concerning plagiarism on the internet and in the media.

[http://archive.plagiarismadvice.org/documents/conference2012/finalpapers/Kravjar\\_fullpaper.pdf](http://archive.plagiarismadvice.org/documents/conference2012/finalpapers/Kravjar_fullpaper.pdf)

# Development

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## Design

Opinions of higher education institution representatives on the use of plagiarism detection system (PDS) varied initially. The Slovak Rectors Conference (SRC) plenary approved two documents of national importance in 2006: "Measures to Eliminate Plagiarism" and "Code of Ethics for higher education institutions Employees." These two documents did not change the status quo. In 2008, SRC requested the Ministry of Education to acquire PDS for Slovak higher education institutions. The Ministry of Education decided to acquire the central repository of T&D and the plagiarism detection system.

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## Testing

CVTI SR was commissioned by the Ministry of Education to define system requirements, procure the necessary software, implement the system, operate, and maintain it and to prepare its further development.

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## Partnerships

### Ministry of Education and central repository of theses and dissertations

Other Public Sector

The Ministry of Education, Science, Research and Sport of the Slovak Republic (Ministry of Education) decided to acquire the nationwide plagiarism detection system for all Slovak higher education institutions together with the central repository of theses and dissertations. Our institution - CVTI SR - was commissioned by the Ministry of Education to define the system requirements, procure necessary software, implement the system, operate it, maintain it and to prepare its further development. The Ministry of Education is the owner of the system and has financed the operation and development of the ANTIPLAG project.

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### SVOP company

Private sector

The SVOP company (software development company) prepared the solution based on the defined requirements and is preparing the further development of the system in cooperation with CVTI SR.

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# Lessons Learned

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## Lessons Learned

- In case there is a consensus in society on the matter of combating plagiarism at higher education institutions, the realisation of a nationwide antiplagiarism system can be a matter of 18-36 months.
  - A very important thing that contributed to the implementation success was the Higher Education Act Amendment, where the obligation of originality check before the defence is determined.
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## Conditions for success

- Consensus in the society, vision and courage of decision-makers, the will, responsible professionals and resources, legal framework, ICT and human infrastructure.
  - Clear goals and milestones, reliable partners.
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## Other information

Well defined metadata provides additional value - different analyses and views are possible.

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