Tempus Kisek project {

    at **FER**

    and **HrOpen**

} Competence Center;

kolaborativna
internacio
nalizacija
programskog
inženjerstva
u hrvatskoj

University of Zagreb
Faculty of Electrical
Engineering and Computing

Computer Systems and
Processes group

Croatian Society for Open
Systems and Internet

HrOpen Expert group

We are both @ FER

University of Zagreb

Faculty of Electrical Engineering and Computing

What we research…

- ☐ Web technologies
- ☐ Education enhancement
- ☐ Embedded computing
- ☐ Java world

Using…

- ☐ Software engineering
- ☐ Open systems

What is an open system?

☐ A system that implements sufficient **open specifications**

- for interfaces

- services and

- supporting formats

Why open systems?

Open system

Closed system

But roller-coaster looks *cooler*...

- ☐ Does it?
  - portability
  - interoperability
  - user portability
  - choice of vendor

Who needs open systems?

- ☐ Individuals

- ☐ Companies

- ☐ Public and government bodies

Individuals

- ☐ Quick bug-fixing, big user community
- ☐ Easy learning and insight in software creation
- ☐ Longer life of a sofware product
- ☐ Lower costs of buying

Companies

- ☐ Insight in the software product

- ☐ Prolonged life of a software product

- ☐ Lower costs of

  - – licenses

  - – employment, training and specialization

  - – maintenance and support

Public bodies (and companies)

☐ Vendor independence

 – it is relatively easy to change the product and the vendor

☐ Direct consequences... Vendor:

 – improves the level of service (positive competition)

 – offers the products at a "decent" price

 – lowers the possibility of a blackmail from one of the offerers

It looks promising, but who is using it?

☐ Maybe once:

  – Computer science students

  – Software enthusiasts

☐ Today:

  – Goverments

  – Private sector

  – Public sector

Example: UN and Open source

UN recommends open source

*The United Nations has recommended its members use open source software, particularly in areas related to **health, education and international commerce**, UN inspector Dominique Ouredrago said during a speech at the II international open source conference in Spain.*

*According to Ouredrago, in two of its reports the **UN considers open source as the most appropriate vehicle for the development of its members**.*

[February 20, 2006]

http://www.tmcnet.com/usubmit/2006/02/20/1389065.htm

Croatia and open systems

- ☐ Open source software policy
  - – The Government of the Republic of Croatia shall promote...
    - ...software development based on the open source...
    - ...integration of open software and open standards...
    - ...use of open software and open standards...
    - ... integrating the knowledge related to the software solutions based on the open source into educational programmes...
  - – ...In the process, contents on the open and proprietary software shall be presented equally...

GOVERNMENT OF THE REPUBLIC OF CROATIA

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za · programsko · inženjerstvo
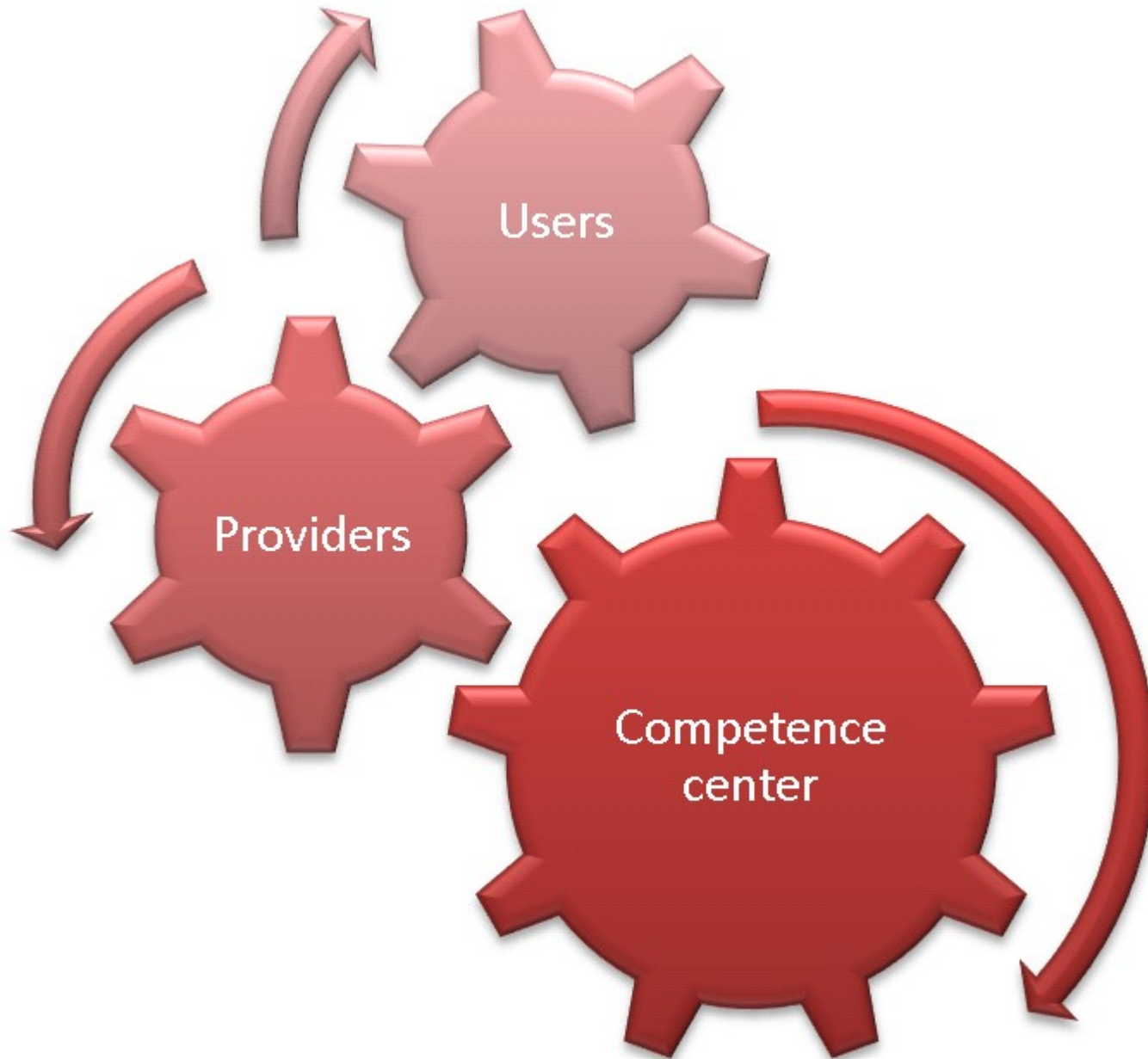u · otvorenim · sustavima

*Competence center for **software engineering** in **open systems***

Goals

☐ Best-practice transfer from EU to Croatia

    – standards

    – open concepts and technologies

☐ Showing importance of the open systems to the relevant groups

☐ Spreading knowledge in Croatia about the open systems

Target groups

Project partners

- ☐ **FER** – Faculty of Electrical Engineering and Computing
  - **ŠORA** – School of open computing, already existing at FER
- ☐ **HrOpen** – Croatian society for open systems and Internet
- ☐ **e-Croatia** - Central state administrative office for e-Croatia
- ☐ Others?

Activities I

☐ Lectures and round tables to inform and educate the audience in the field of software engineering in open systems

Activities I - examples

☐ **DORS / CLUC**

- Biggest and oldest open source conference in the region

- Lasts for three days and includes:

  - Invited world renominated guest speakers

  - Speakers from Croatian government, private and public sector

  - Speakers from neighbouring countries

  - Workshops

  - Hands on lab experience

☐ **Invited speakers - "Open Friday event"**

- One day, one or two speakers event

  - Round table discussion on current open systems topics

Activities II

☐ Gathering information and open educational content, content creation and localization

Activities II - examples

☐ Translation of:

– Moodle translation marathon – translation to Croatian language of the best known open source Learning management system

☐ Books and manuals (acquiring ISBN):

– "Moodle"

– "PHP"

– "GNU/Linux"

 • All in Croatian under Creative Commons licence

Activities II - examples

☐ **Books and manuals (in writing):**

  – Open computing

   • University textbook about open systems and technologies (for compulsory course at FER)

  – Open databases systems

   • first Creative commons manual in Croatian for well known open database systems PostgreSQL and MySQL

  – Creating web pages

   • creative Commons manual in Croatian for creating web pages using advanced techniques like CSS and JavaScript

Activities III

☐ Lectures and workshops for acquiring new knowledge and skills in software engineering, with an emphasis on open systems and technologies

Activities III - examples

☐ Workshops and materials for teachers of primary and secondary schools:

– SE using open technologies

– supporting SE education with open systems

– All Croatian major regions

- Zagreb
- Osijek
- Rijeka
- Split

Activities IV

☐ Enabling students to work on "real-life" projects in the software engineering field

Activities IV – examples

☐ Distributed Software Development course

– a joint, **project based** course of two Kisek partners:

- MdH
- FER

– a cooperation with industry partners from Kisek project

- Ring Datacom
- others who are interested?

Themes I

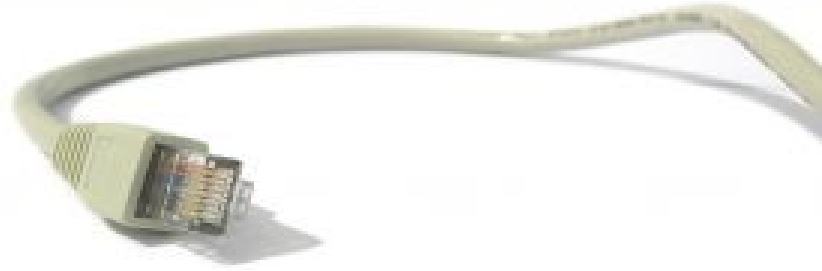
Managing process

Quality assurance

Measuring quality when looking for products

Enhancing team efficiency

Themes II

Importance of standards	Free/libre software
Advanced specialization and certification	Basic knowledge and skills

Contact

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