



Creating Croatian National CRIS

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Croatia

- 4,2 M people
- ~30.000 researchers
- ~200 institutions
- 9 universities
 - University of Zagreb, 34 faculties and academies
 - University of Zadar, 1396 AD
- ~150.000 students
- Many known scientists and inventors
- ...and many different research information data sources :)



University Computing Centre - Srce



- founded in 1971, part of the University of Zagreb
- is heart of Croatian academic and research e-infrastructure
- is one of the key subjects in planning, designing, construction and maintenance of the advanced computing, communication and information systems and services for A&R community in Croatia
- ensures connection of Croatian A&R e-infrastructure with related European and global e-infrastructures
- provides consulting, expert and educational support in the field of ICT to all subjects of the academic and research community
- promotes, fosters and supports innovative usage of ICT in education and research
- ~140 employees
- 2 data centers



The "Science and Technology Foresight" Project

<i>Holder:</i>	Ministry of Science and Education
<i>Partner:</i>	University Computing Centre
<i>Label:</i>	KK.01.1.1.03.0001
<i>Total worth:</i>	2.08M€
<i>EU funding:</i>	1.77M€
<i>Period:</i>	<i>Dec 2017 to Oct 2022 (expected)</i>

The project is co-financed by the European Union from the European Regional Development Fund



Europska unija
Zajedno do fondova EU



STF

1. Legislative
framework on
RIM data

2. CroRIS

3. Mapping
and foresight

4. Education
and training



University Computing Centre in STF Project

- CroRIS
 - Planning
 - Development
 - Implementation
 - Promotion
 - User education and training
- Cooperation on legislative framework
- Cooperation on mapping
- Further maintenance and continuous development of the system, after the initial phase



Current state of research information in Croatia (1)

- Partially connected “islands of information”
- Ministry of Science and Education
 - Official registers (old and in need of complete re-implementation)
 - Register of the institutions
 - Register of the researchers
- Ruđer Bošković Institute
 - CROSBI - publications
 - Šestar - equipment
 - database of projects
- Agency for Science and Higher Education
 - Accreditation system - researches, projects, ...



Current state of research information in Croatia (2)

- University Computing Centre
 - ISVU - Croatian Higher education information system
 - Dabar - Digital archives and repositories
- Croatian Science Foundation
 - Projects
- National and University Library
 - Publications
 - Citations
- Ministry of Economy
 - Projects
- Croatian Intellectual Property Office
 - Patents
-



A Survey about RIM in Croatia

- We created a survey about the state of research information management
- Each institution needed to fill the survey once
- 45 questions regarding:
 - Basic questions about research activities in the institution
 - RIM
 - Interoperability and identifiers used
 - Institutional repositories
 - Open access
 - Expectations from CroRIS
- ~50% of institutions completed the survey
- The results of the analysis are publicly available (in Croatian only) [here](#)

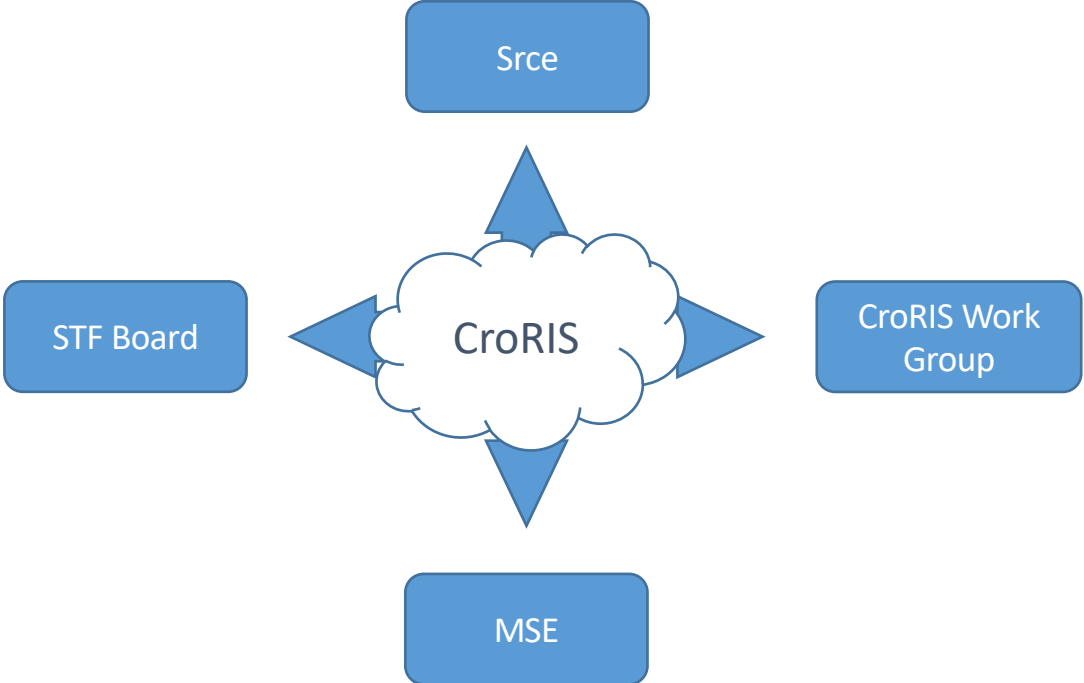


Survey: where does the institution keeps RIM data

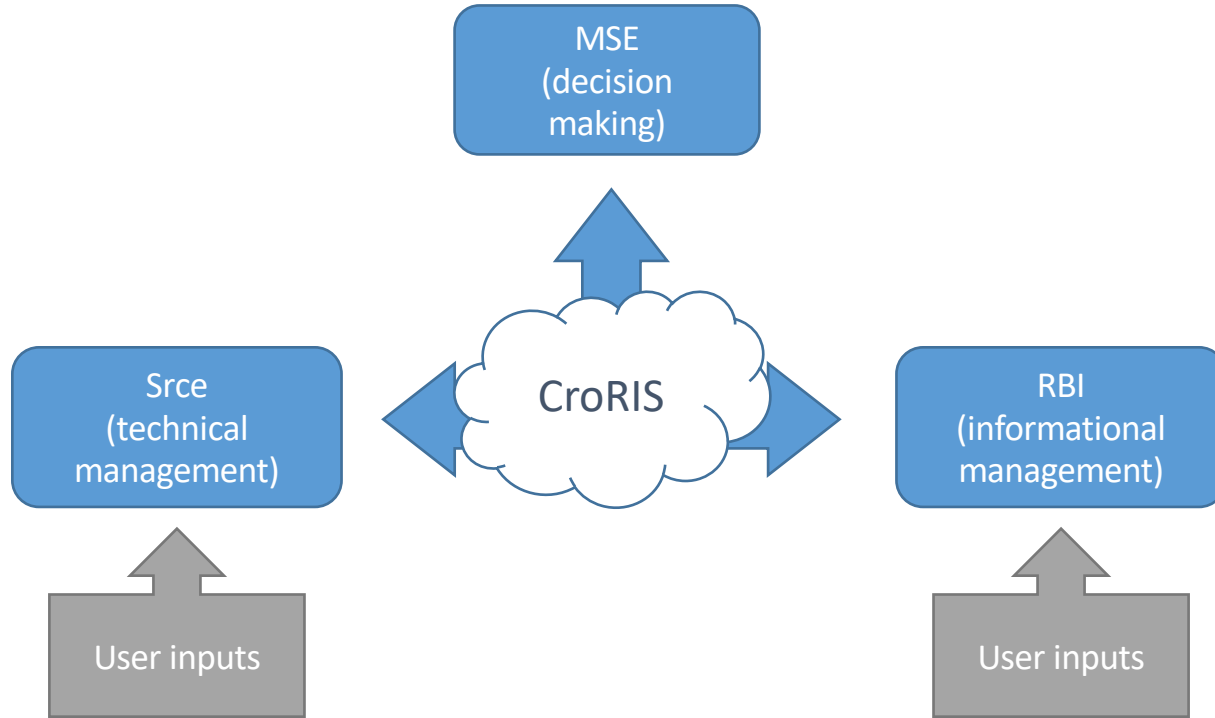
spreadsheets and text files	44
local information system	25
local repository	19
system used by more than one institution	13
simple, not connected apps (e.g. HR)	13



Management and decision making during the project



Management and decision making after the project (TBD)



Our Vision of CroRIS

CroRIS will

- provide comprehensive, complete and reliable (accurate) RI in Croatia
- be the foundation for decision making on all levels
- facilitate and promote open science
- support the business needs of
 - MSE and other government institutions regarding research and science
 - institutions
 - researchers
- be open and interoperable with other systems in Croatia and abroad



Future interactions

Universities

Higher education

Institutes

Individuals

Management / administrators / researchers / libraries / repositories

Ministry of Science and Education

National Council for Science ...

National and University Library

Croatian Science Foundation

Croatian Employment Institute

Ministry of Public Administration

Agency for Science and Higher Education

Agency for Mobility and EU Programmes

Croatian Intellectual Property Office

Croatian Bureau of Statistics

Ministry of Economy

CroRIS

ORCID

Crossref

OpenAIRE

WoS

Scopus

...

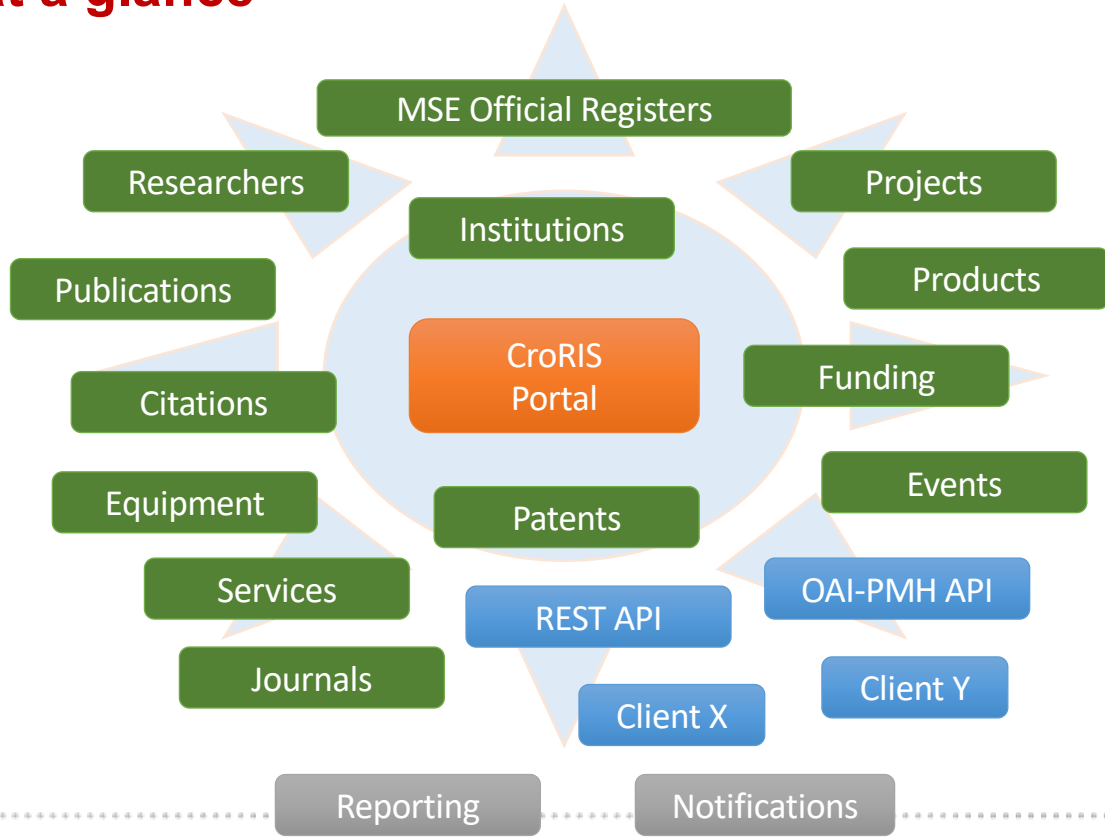
Other national A&R systems and repositories

Srcce

RBI



CroRIS at a glance



What needs to be done?

- Create a plan of the system (describe the concept and future implementation)
- Set up development, testing and production environments
- Define a database model (extend / modify CERIF)
- Develop all the web applications:
 - great deal of data will be publicly available
 - data insert / update enabled for registered users
 - users will have different roles
 - reports and dashboards
 - APIs
- Initial import of data from various sources, data curation
- Set up:
 - Clients for periodic import and curation of data from outside sources
 - Helpdesk
 - System-wide data administration
- Plan of further enhancements and maintenance



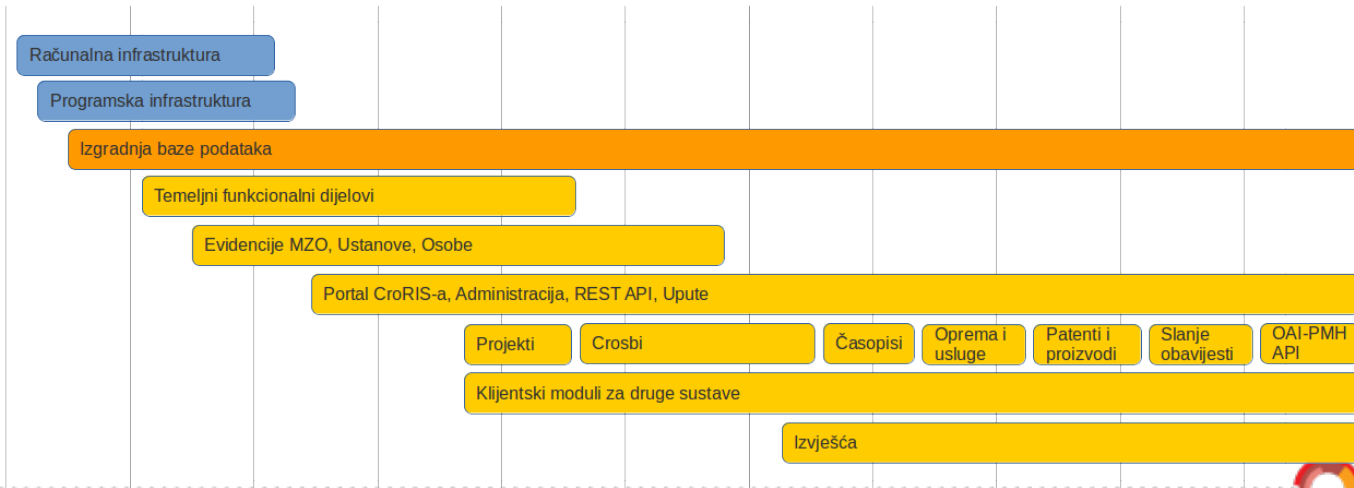
What we've done so far?

- Performed a survey about RIM in Croatia
- Analyzed current state of RI, talks with all stakeholders
- Created two key documents describing the system:
 - Concept of the CroRIS (in Croatian: [here](#))
 - CroRIS implementation plan (in Croatian: [here](#))
- Set up development, testing and production environments
- Defined a database model
- Started working on some applications:
 - MSE Official Registers
 - Institutions
 - Researchers
 - Portal



Our Plan

- The system will gradually be put in production
- First step is the steepest
- Each part of the system that goes live immediately needs to talk to other systems as well



Creating Croatian National CRIS

- Thank you :)
- Questions, comments, ideas, ...

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