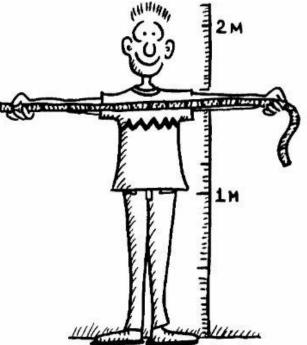
The current state and future perspectives of research information infrastructure in Croatia

PubMET 2015, 24-25 September 2015, Zadar, Croatia

dr. sc. Bojan Macan, senior librarian Ruđer Bošković Institute Library bmacan@irb.hr



database or information system which stores and manages data about research conducted by the community for which it is implemented

RISs usually contain information about:

- persons
- research institutions
- projects and funding
- results (publications and patents)
- scientific equipment and facilities
- events



Common European Research Information Format (CERIF)

- developed in 1987 with support by the European Commission
- standard research information data exchange format
- maintained by the not-for-profit organization euroCRIS
- recommended by the EC to the member states
- Current Research Information System (CRIS) = RIS based on CERIF
- conceptual CERIF model consists of a number of entities (base, result, 2nd level, link and infrastructure entities) and functionalities (multiple language features, semantics)

Current state of research information infrastructure in Croatia

Database type	Existing database in Croatia
INSTITUTIONS	- Register of scientific organizations (MSES)
PERSONS	- Register of researchers (MSES) - Who is who in Croatian Science (RBI)
PUBLICATIONS	- Croatian scientific bibliography – CROSBI (RBI)
SCIENTIFIC EQUIPMENT	- Database of instruments for scientific research – Šestar (RBI)
PROJECTS	 no integral database about projects Svibor (database about MSES projects from 1990 until1996) (MSES) z-projects (MSES projects from 1996 until 2014) (MSES) Croatian Science Foundation projects database (CSF) data about projects in CROSBI and FULIR (RBI) data about Croatian projects in OpenAIRE's projects API (RBI)

Register of scientific organizations

- official register maintained by the MSES
- underlying legislative which regulates procedures of collecting and administrating required data
- data gathered via written forms; MSES administrator creates new record in the register
- record updating via paper forms
- intention of gathering data which change over time (number of employees, data about scientific equipment etc.)
- not publicly available
- no information about organizational subunits

Databases about persons - 1

- Who is who in Croatian science (<u>http://tkojetko.irb.hr/en/</u>)
 - publicly available profiles of active Croatian scientists in Croatia and abroad (7.000 public profiles)
 - data about Croatian scientists, their interests, expertise, activities etc.
 - new profiles created by administrators on requests
 - scientists are responsible for updating of their profile
 - Ink to researcher's bibliography in CROSBI



Databases about persons - 2

Register of researchers

- official register of following persons in Croatia which are conducting scientific activities:
 - research associates, senior research associates and research advisors,
 - assistant professors, associate professors and full professors. In addition to the above, the following persons are entered in the register:
 - external associates assistant professors and senior assistant professors,
 - persons with a doctoral degree and persons who have successfully defended a master's degree thesis pursuant to the regulations effective prior to the Scientific Research and Higher Education Act coming into force (NN 72/04)
- assigning of identification numbers for Croatian scientists
- record creation and its changes upon request via written form
- not publicly available



Database about publications

- Croatian scientific bibliography CROSBI
 - Croatian national online scientific bibliography
 - created in 1997
 - based on self-archiving by researchers
 - centralized administration
 - mini RIS system
 - Ist of researchers (from the MSES Register of researchers)
 - list of scientific organizations (from the MSES Register of scientific organizations)
 - Ist of projects (MSES's z-projects, Croatian science foundation projects)
 - list of journals
 - issue with incompleteness and trustworthiness of data

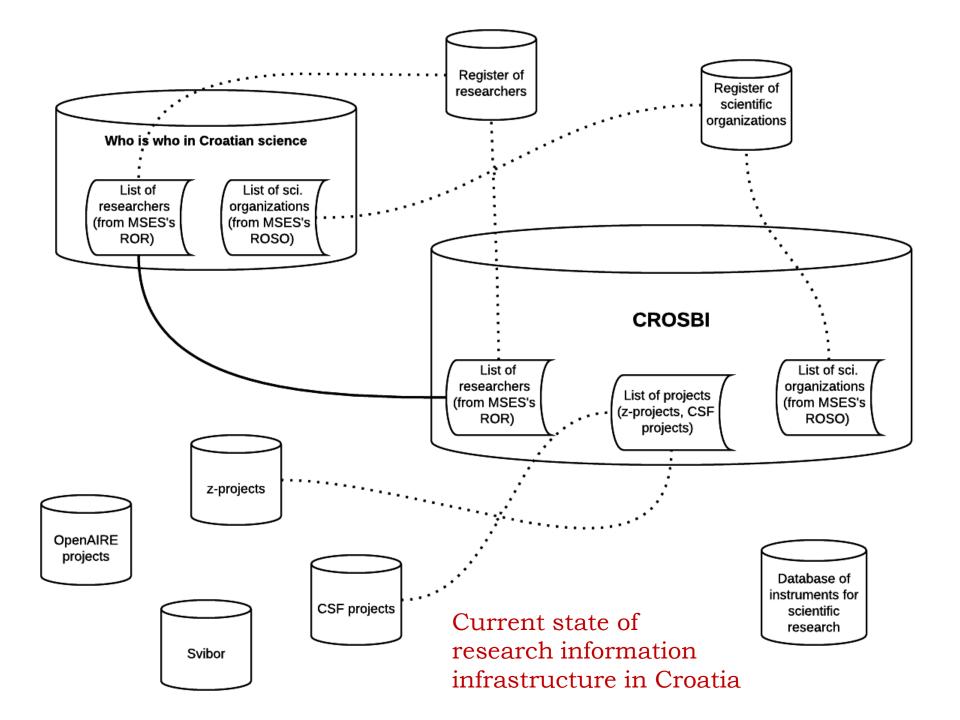
Database about scientific equipment

Database of instruments for scientific research – Šestar (<u>http://sestar.irb.hr</u>)

- detailed description of instruments for scientific research
- new records of scientific equipment created by researchers (AAI@EduHr)
- centralized administration
- used only by the RBI (partly by the University of Rijeka)
- possibility of reservations of scientific equipment

Databases about projects

- there's no integral database about scientific projects of Croatian organizations
- there are isolated database about projects of certain founders:
 - z-projects data about projects financed by the Ministry of Science, education and sports (MSES) from 1996. until 2014
 - Svibor data about projects financed by the MSES from 1990 until 1996
 - Database of Croatian science foundation projects newly developed databases of projects financed by the CSF
 - CROSBI authority lists of projects (MSES z-projects, CSF, EC (FP6, FP7, H2020) projects)
 - List of Croatian national projects (MSES z-projects, CSF projects) for the purpose of OpenAIRE central project API service

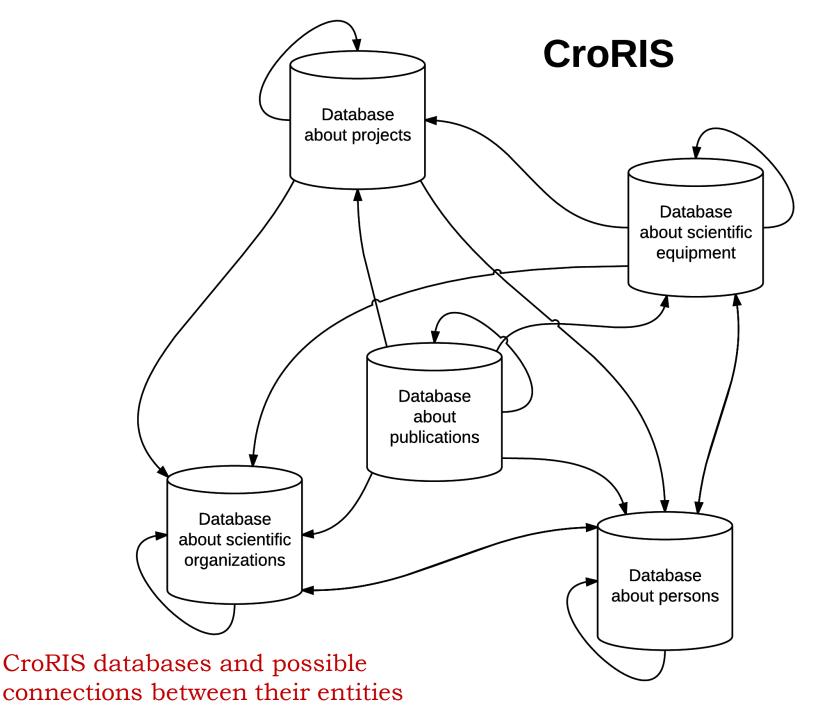


Future perspectives of Croatian RIS -CroRIS

- improve usable parts of existing research information infrastructure
- develop parts that are missing
- interconnect all databases
- CERIF compliance
- define administration procedures
 - the need of global, central administration, but also local administration at the institutional levels
- adopt legislation

CroRIS

- databse about people
 - combination of the Registry of researchers and Who is who in Croatian science
- database about scientific organizations
 - expanded functionalities of the Registry of scientific organizations inclusion of organizational subunits and possibly other types of organizations
- database about publications
 - improvements and modifications of CROSBI
- database about scientific equipment
 - improvements and modifications of Šestar
- database about projects
 - creation of central database about Croatian projects (domestic projects + international projects with Croatian partner/coordinator)



Conclusion

- (C)RIS systems can be useful for the evaluation purposes if the containing data are complete and trustworthy
- Croatia doesn't have an interoperable research information infrastructure at the moment, but there is a potential in existing databases
- absence of legislation and prescribed procedures
- implementation of CroRIS model and adoption of needed legislation would result with a system usable for various research evaluation as well as decision and policymaking purposes

