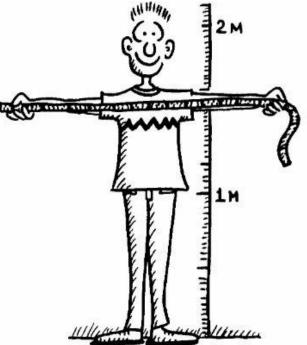
# The current state and future perspectives of research information infrastructure in Croatia

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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, 2<sup>nd</sup> 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	<ul> <li>no integral database about projects</li> <li>Svibor (database about MSES projects from 1990 until1996) (MSES)</li> <li>z-projects (MSES projects from 1996 until 2014) (MSES)</li> <li>Croatian Science Foundation projects database (CSF)</li> <li>data about projects in CROSBI and FULIR (RBI)</li> <li>data about Croatian projects in OpenAIRE's projects API (RBI)</li> </ul>

## 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

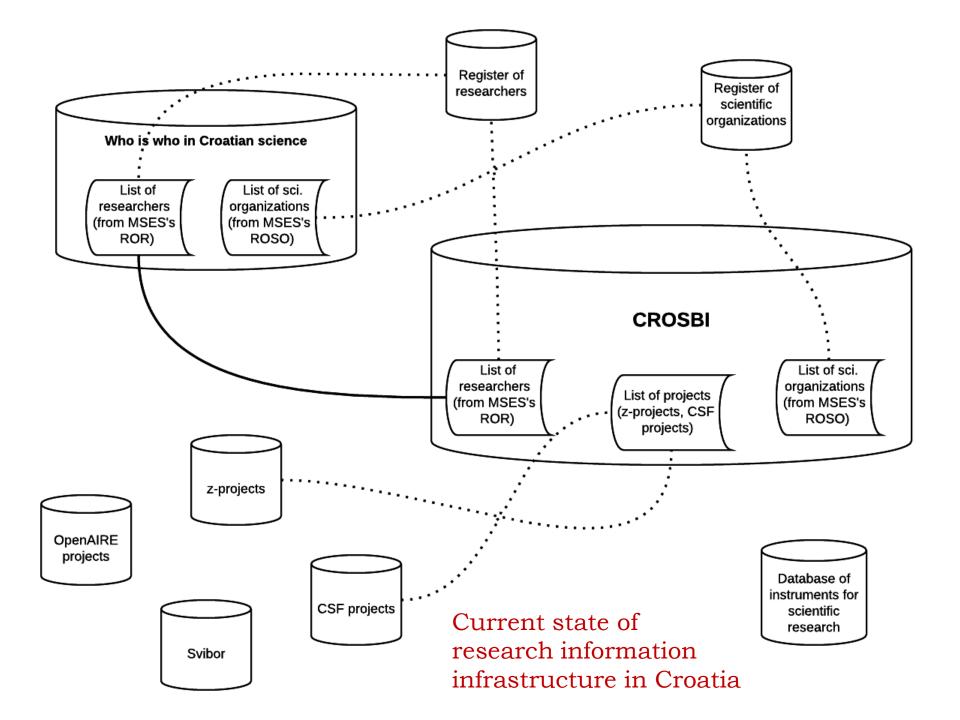
## Database about scientific equipment

## 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

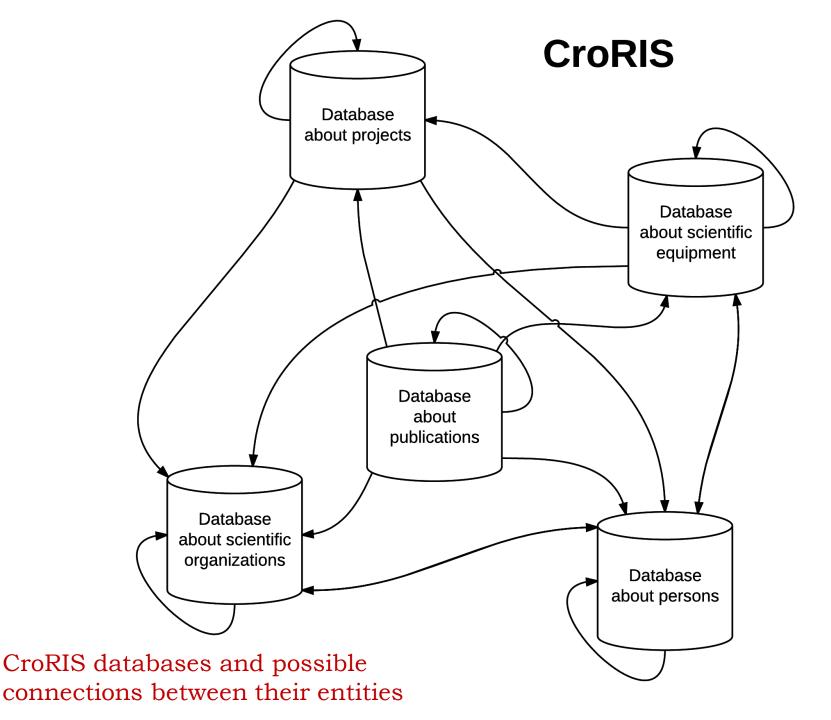


## Future perspectives of Croatian RIS -CroRIS

- 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

