PTCRIS

Connected Research

PTCRIS_OrgID

Portuguese organisation identifiers authoritative system

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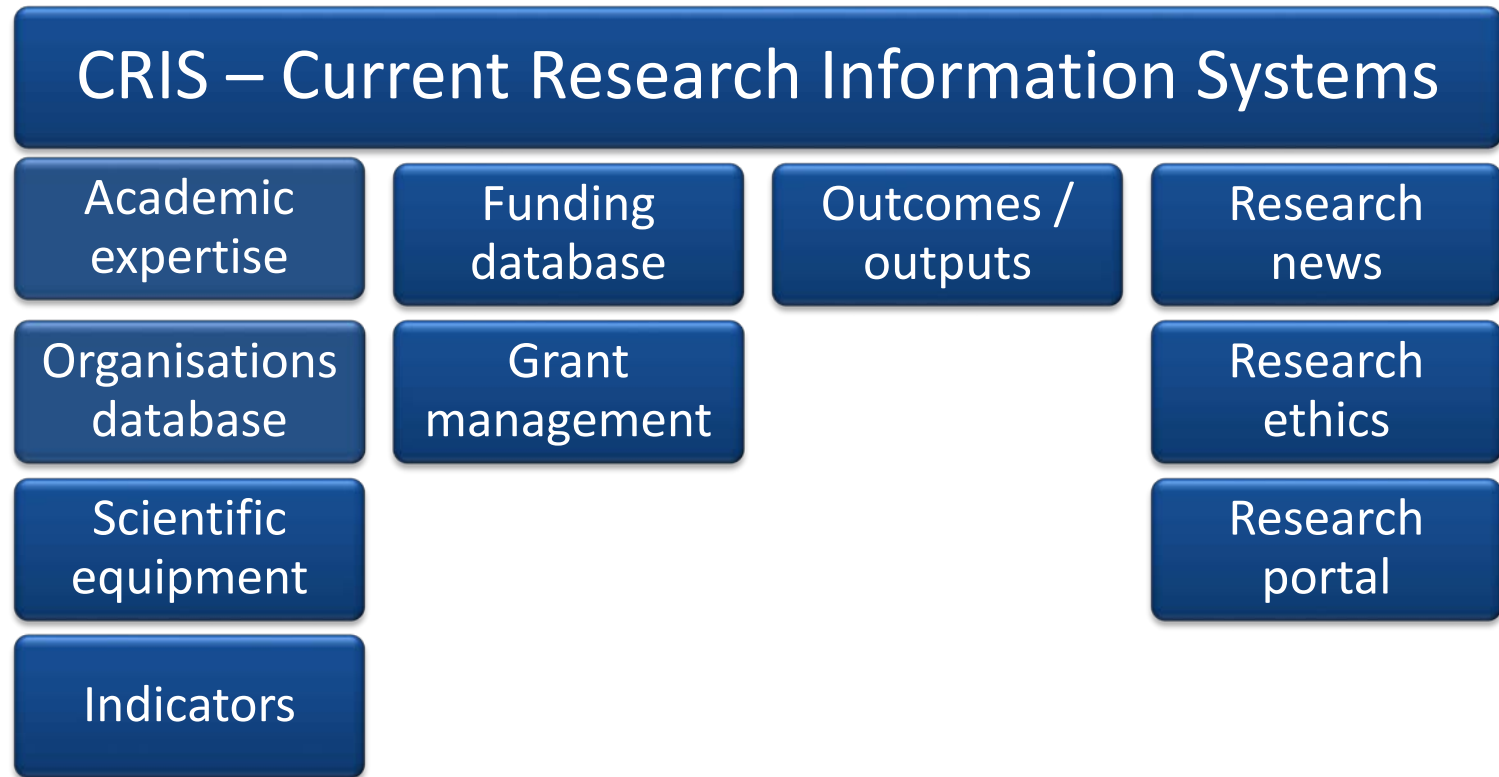
João Duarte, Joaquim Godinho, Luís Quintano
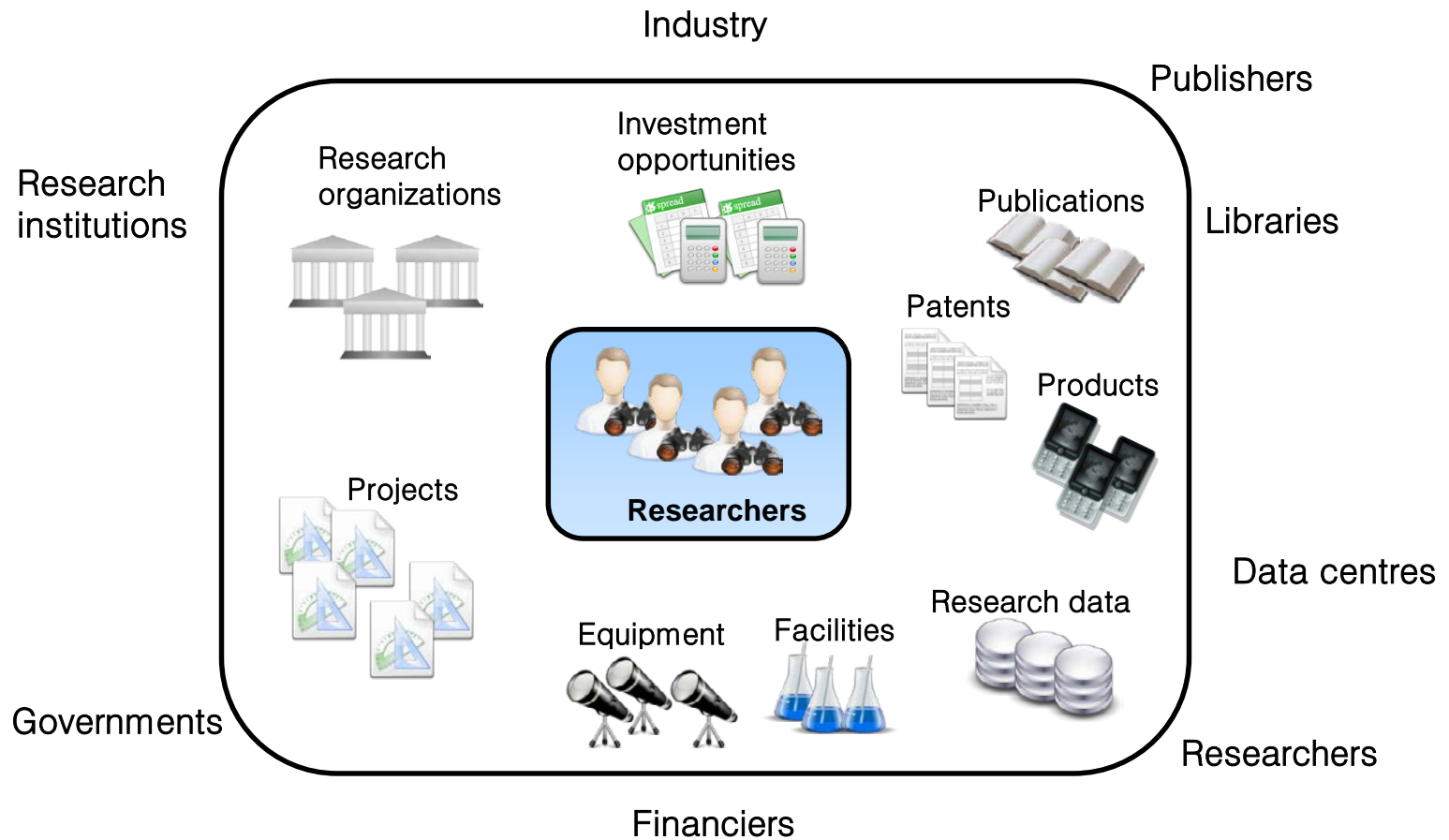
ISCTE **IUL**

UNIVERSIDADE DE ÉVORA

FCT Fundação para a Ciência e a Tecnologia
MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E ENSINO SUPERIOR

GOVERNO DE PORTUGAL | MINISTRO DA CIÊNCIA, TECNOLOGIA E ENSINO SUPERIOR

PTCRIS "ecosystem"

CRIS – Current Research Information Systems

Academic expertise	Funding database	Outcomes / outputs	Research news
Organisations database	Grant management		Research ethics
Scientific equipment			Research portal
Indicators			

What we need to connect?

Industry

Publishers

Research institutions

Libraries

Research organizations

Investment opportunities

Publications

Patents

Products

Projects

Researchers

Data centres

Equipment

Facilities

Research data

Governments

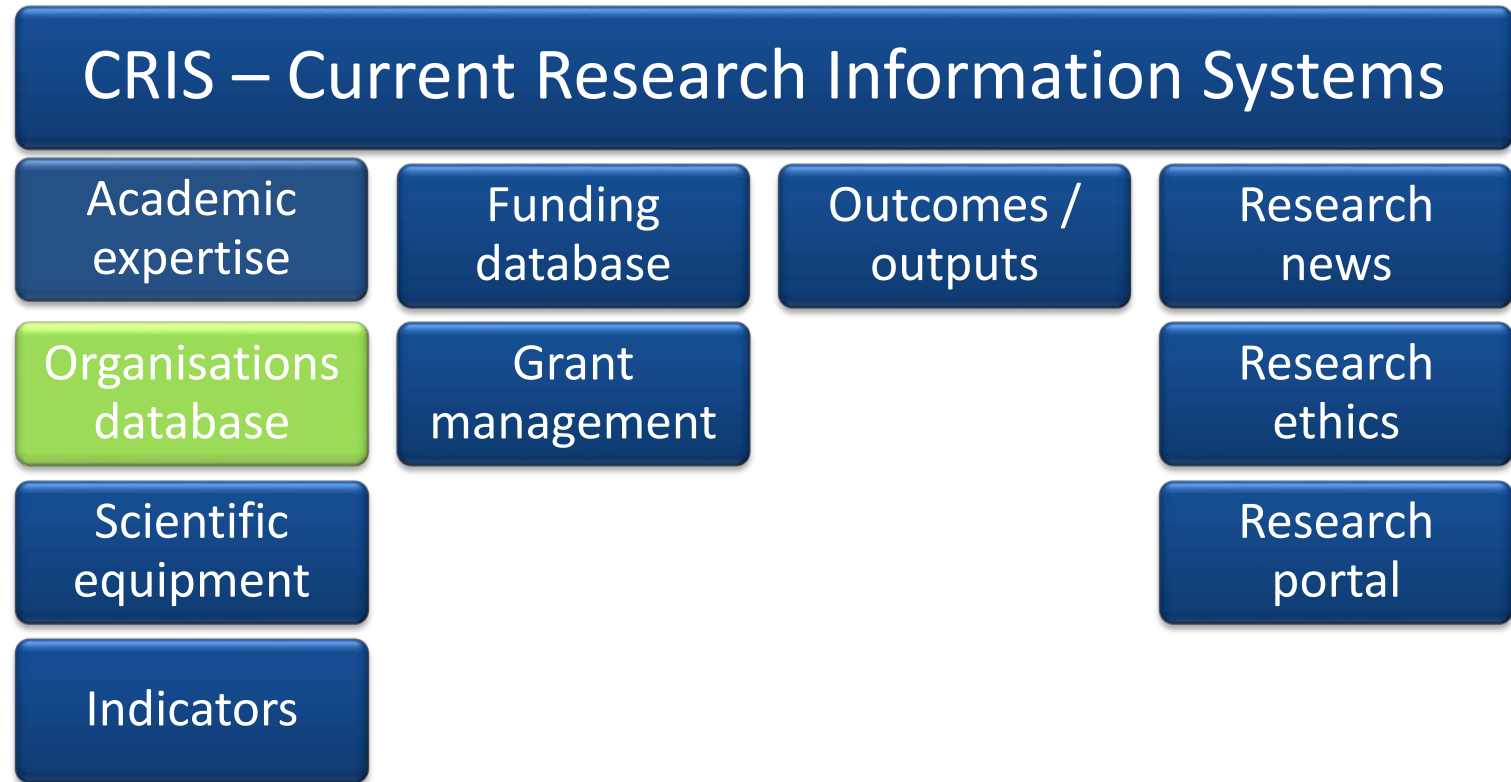Researchers

Financiers

Synchronisation

Depends on unique identifiers

➤ **Individual identifiers**
(ORCiD, ResearcherId…)

➤ **Organisation identifiers**
(ISNI, Ringgold)

➤ **Research output identifiers**
(DOI, Handle, ISBN)

Data quality
Uniqueness
Linking between systems
Deduplication

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Unique identifiers for organisations

Used to:
Disambiguate
Consolidate
Establish hierarchy view

Advantages:
Enforce uniqueness
Eradicate duplication and improve quality of data
Correct identification

Main tasks of this work

1. Create rules, principles and processes regarding registration of organisations in Portugal

2. Build a first version of an authoritative National Organisations Database relying on distinct sources of information:

   Higher Education Institutions
   Research Institutions
   Other organisations involved with the scientific system

3. Develop an organisation reconciliation service

4. Set up a registration system for organisations (PTOrg-IS)

T3 : Reconciliation Service

Reconcile-CSV

- Service to verify the correspondence between two databases

- It works with *fuzzy matching:* works on the approximate correspondence between various segments of text

- To use the Reconcile-CSV reconciliation service it was used Open Refine

- This service was used to reconcile National HEI Database with Ringgold (1st iteration) and ISNI (2nd Iteration)

T4 : PTOrg-IS

Main Goals:

- Fill a gap in our country (no reference system in this area)
- Enable each organisation to manage their own data
- Provide access to data on the web (public) and via an API (public and restricted)
- Synchronise with international reference databases (ISNI/Ringgold)
- Assure that all the data is up to date
- Avoid multiple records for the same organisation

PTCRIS

PTOrg–IS

Architecture

PTOrg-IS

Organisations Management

- Where all the data is processed and stays organised
- Binds together all the modules
- Where all different modules of the system interact

PTOrg–IS

User Management and Access

- Administrator
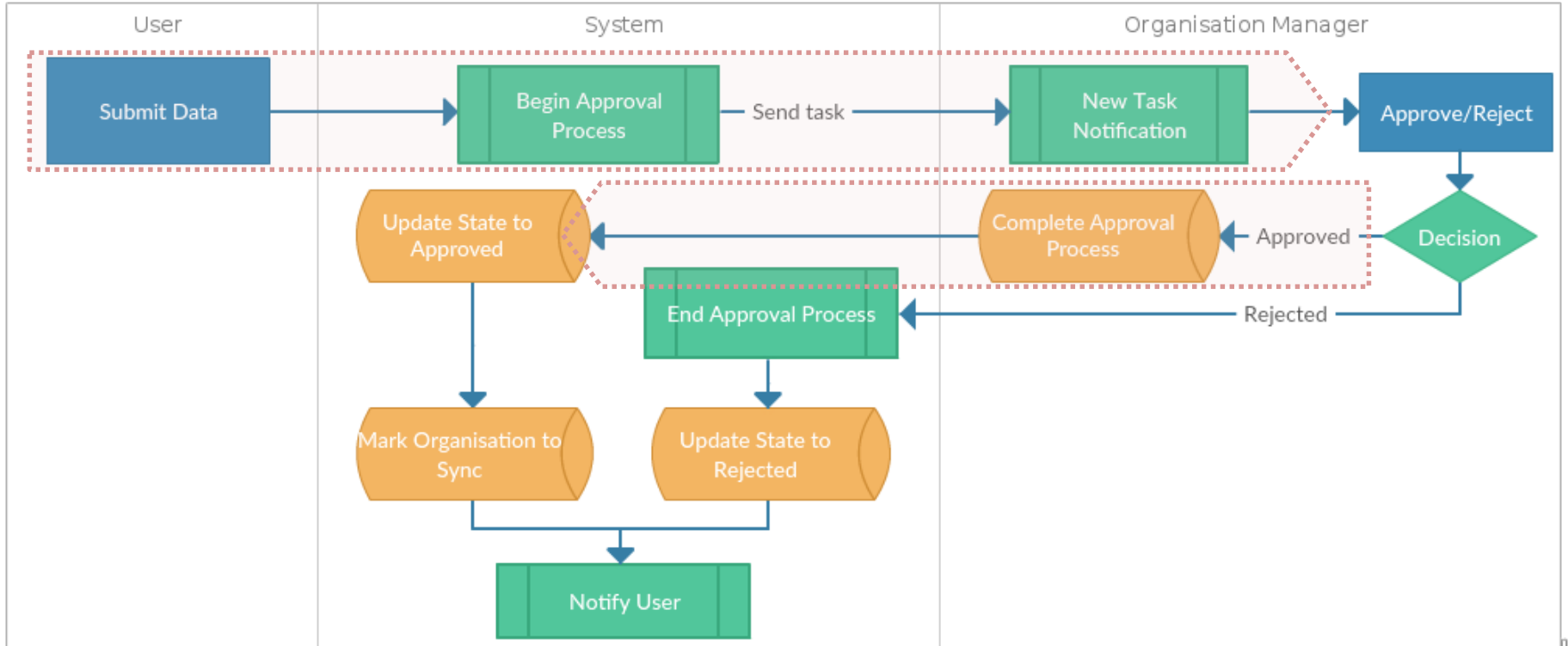- Organisation Manager
- Organisation
- Public
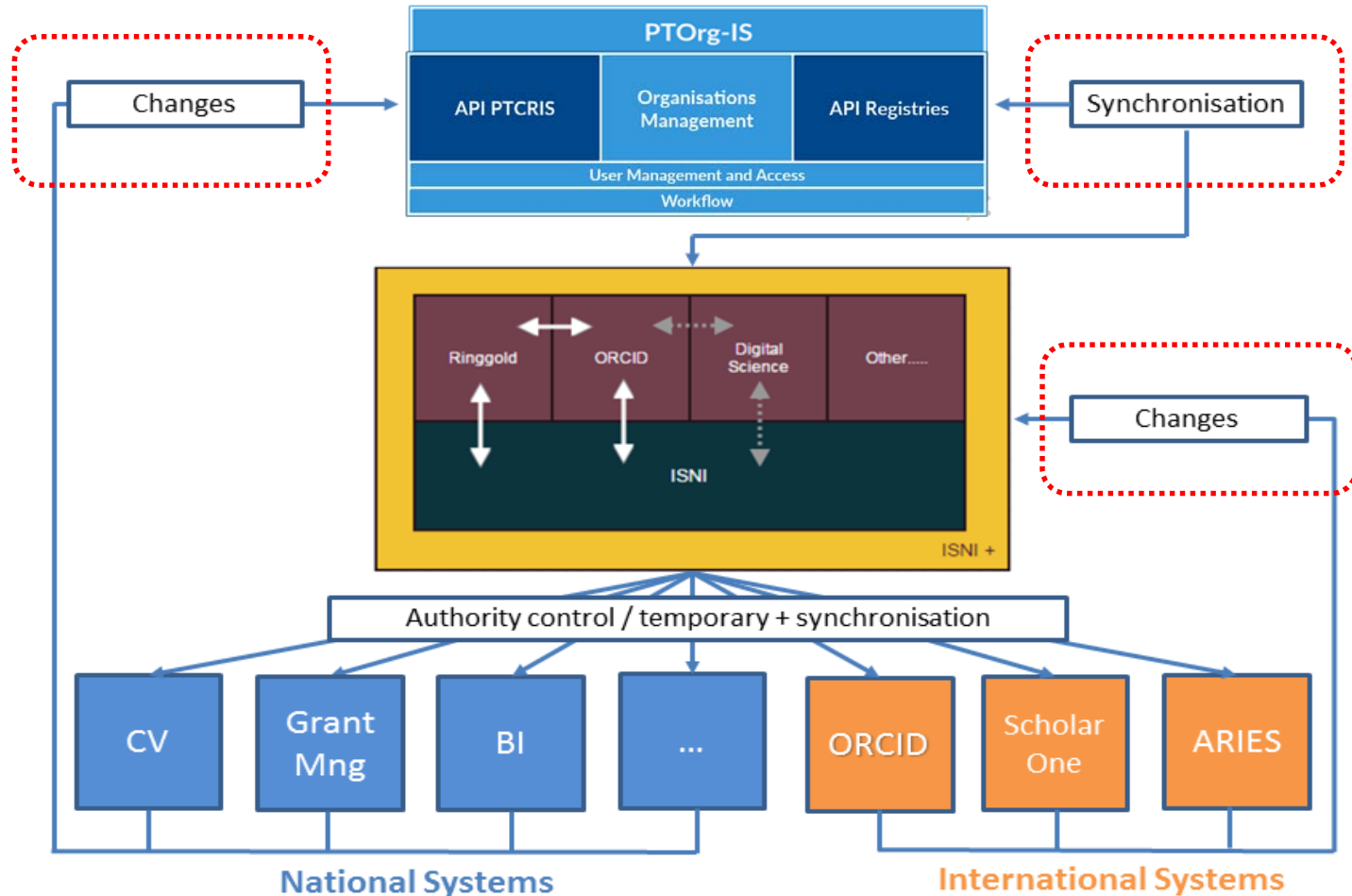
PTOrg–IS

Workflow

PTOrg–IS
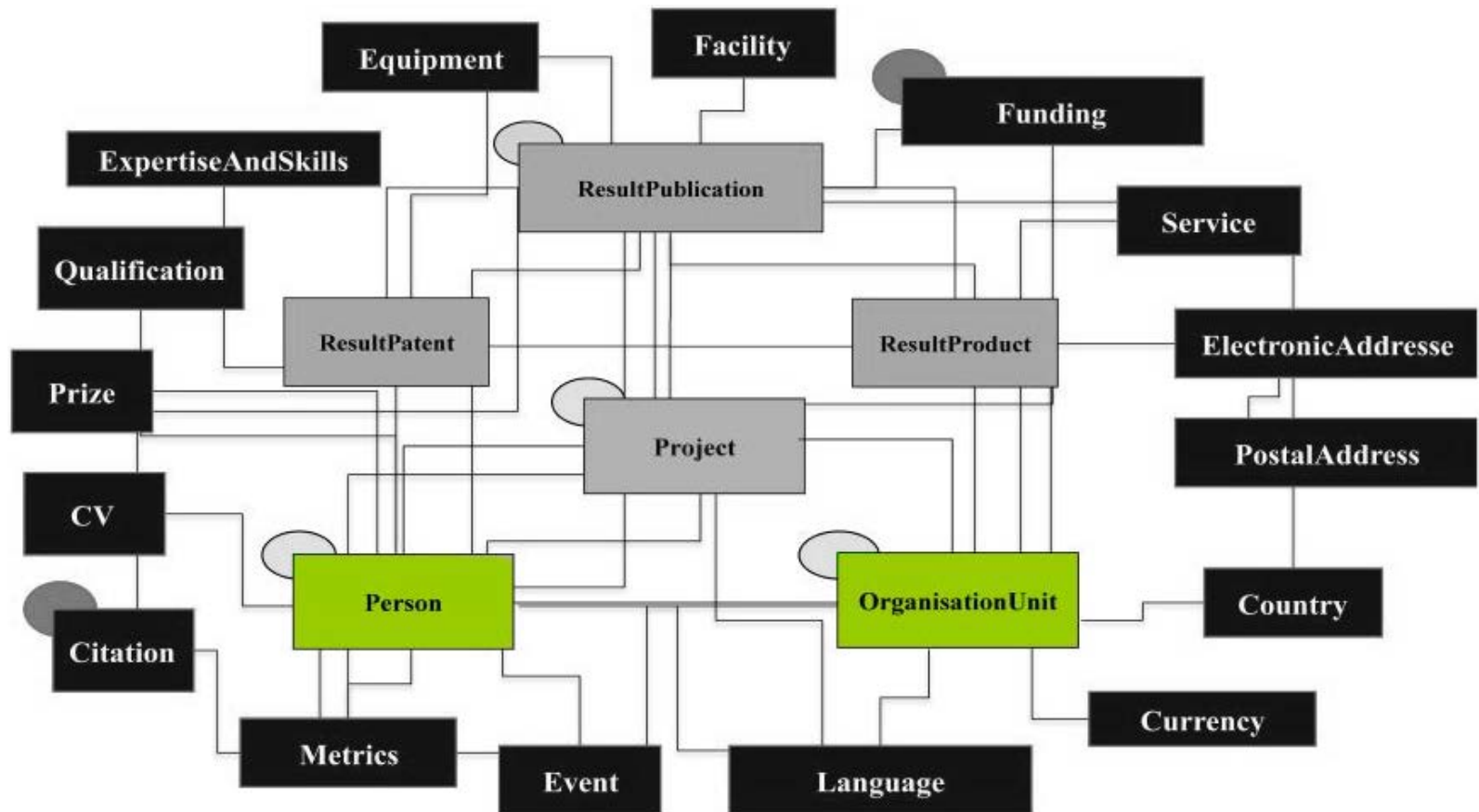
Workflow

PTOrg–IS

API's

PTOrg–IS

Changes & Synchronisation

PTOrg–IS

Database (CERIF)

Thanks!

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