The European Commission's science and knowledge service
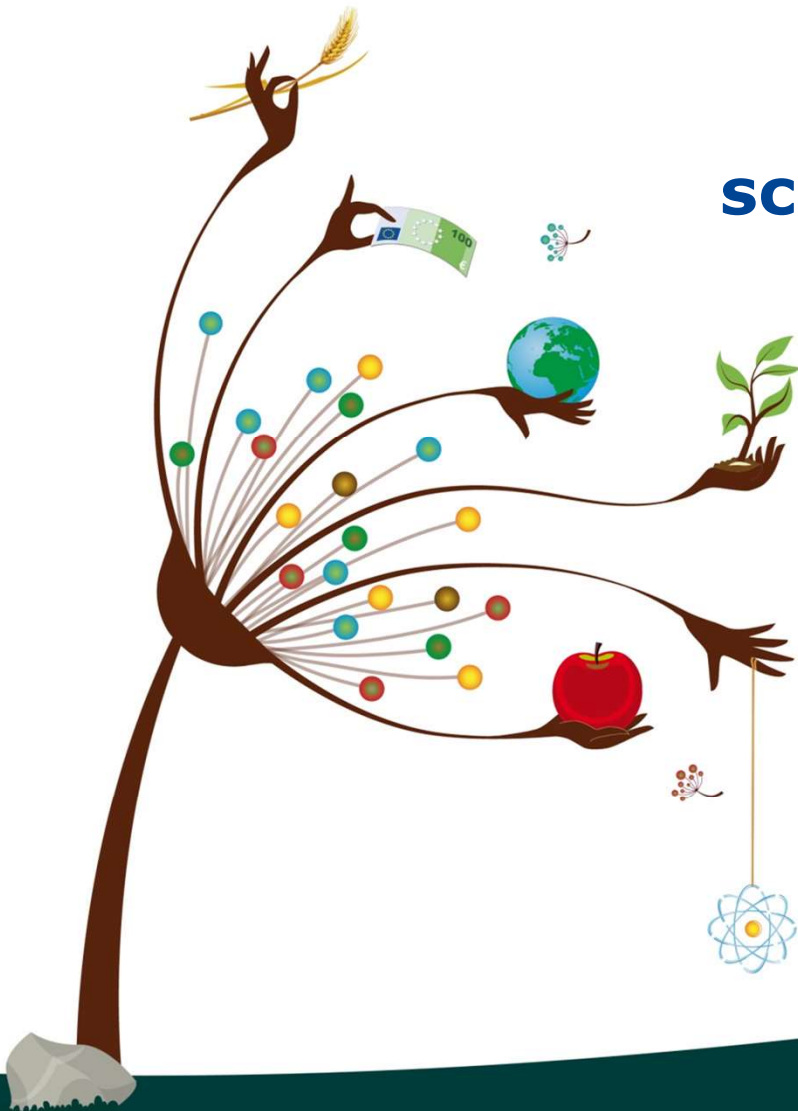
Joint Research Centre

Sharing datasets for Citizen Science: a JRC project

Lorenzino Vaccari
Sven Schade

Thanks to:

- Anders Friis-Christensen
- Andrea Perego
- Chrisa Tsinaraki
- Max Craglia

Joint Research Centre

Why sharing scientific datasets

- Because of legal constraints
- Because of the transparency
- Because of science reproducibility
- Because of the economic growth
- ...
- Because of citizen science

Unless you're using evidence-based procedures, I can't hear a word you're saying.
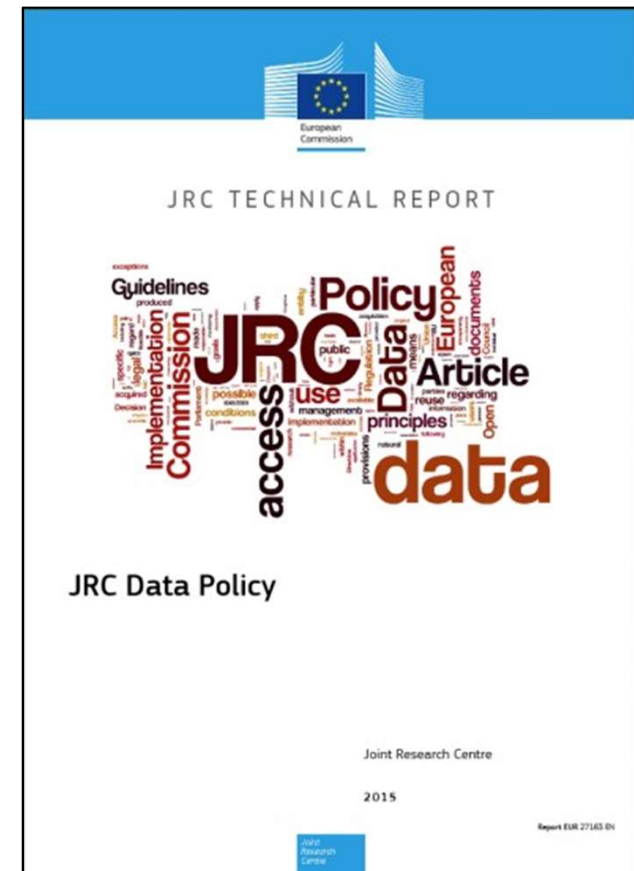
JRC Data Policy

Publication of data **is mandatory** for EC staff **according to the reuse decision (2011/833/EU)**
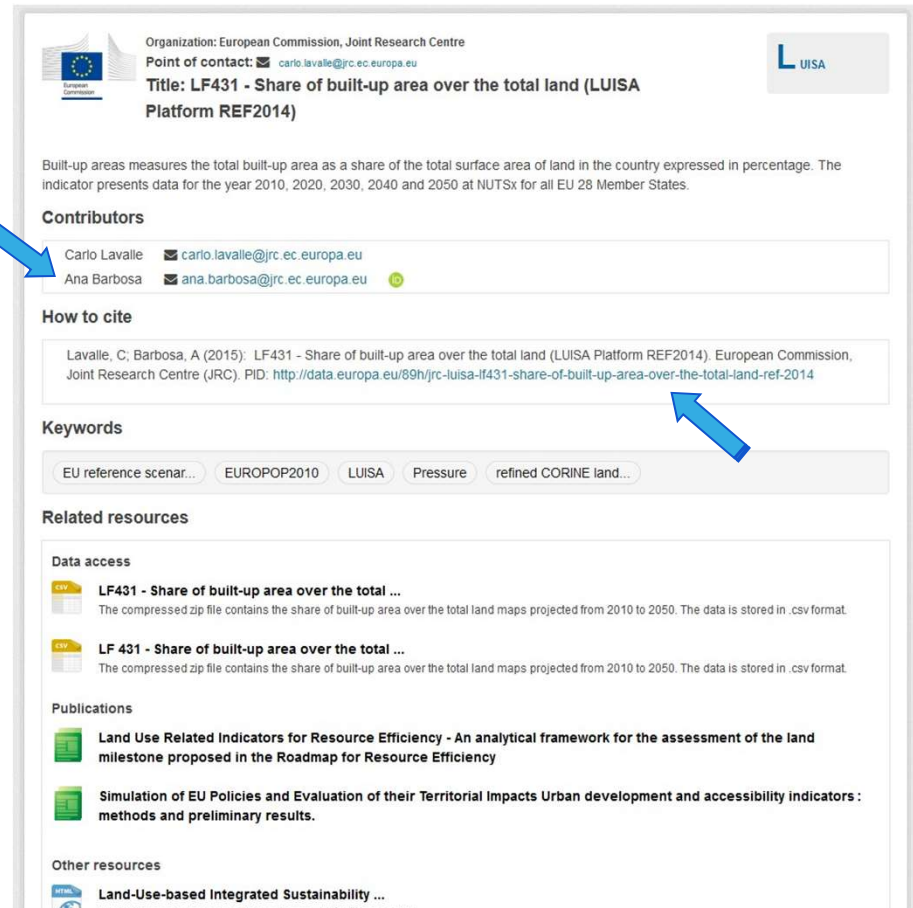
Areas addressed by the JRC Data Policy:
- **Open Data** principles
- **Data acquisition** principles
- **Data management** principles
- **Implementation principles**

JRC Data Catalogue

Mandated by the JRC data policy and released at January 2016. Features, among the others:

1. **Suggested citation** for datasets following DataCite recommendations

2. **Persistent identifiers** (URIs) of datasets

3. Metadata in JRC Data Catalogue automatically published on the **EU Open Data Portal** and harvested by other catalogues

Citizen Science for policy VISION – a cyclic value chain(closing the loop)*

European Commission

Publication as Open Data

Publication as Open Data

General Public

(5) Communicating policy-related reactions

Policy makers & Stakeholders (incl. the public)

(6) Monitoring impacts

(1) Data gathering

Sources

(2) Validation and quality control

(3) Analysis and data management

(4) Integration into established decision-making processes

Research Data

Public Sector Information

Expected benefits for policy:

- **More efficient monitoring (cost reduction for MS)**

- **Anticipating policy needs**

- **Implementation, e.g. governmental and societal changes**

- **Practicing and promoting Open Science**

- **Innovating eGovernment**

- **...**

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*Sven Schade, inspired by Citclops (FP7-project)

Citizen Science for policy – a JRC example
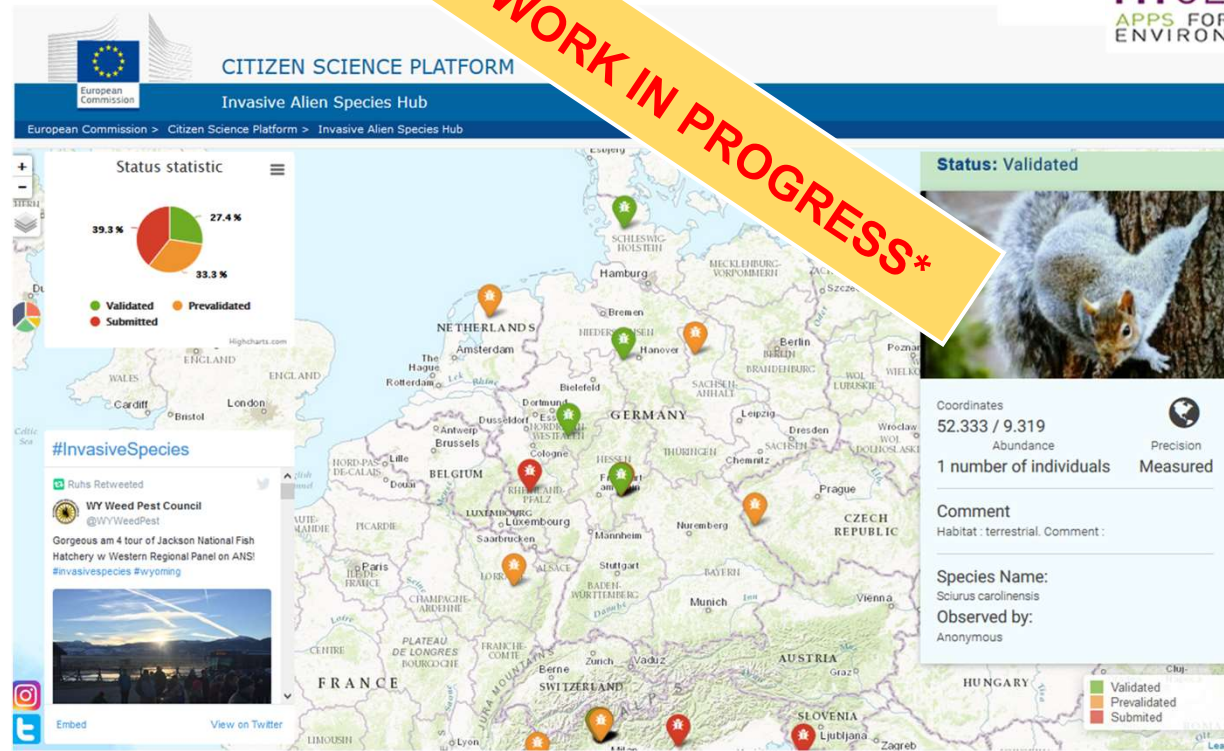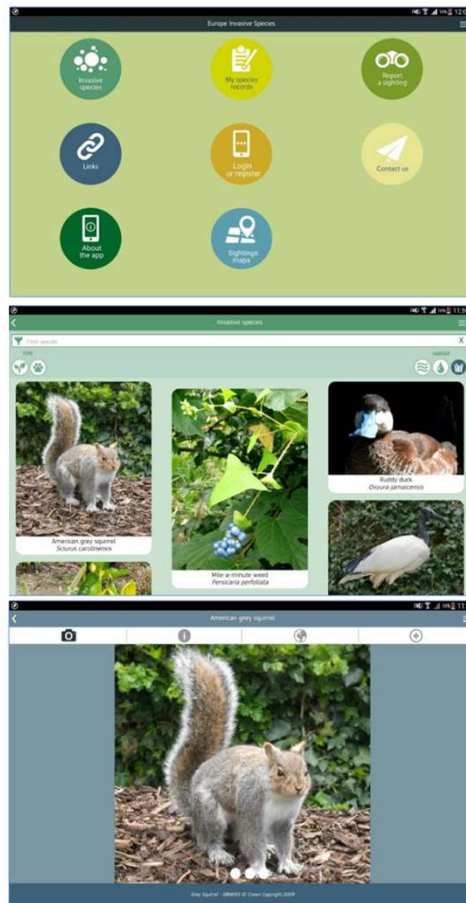
WORK IN PROGRESS*

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*http://digitalearthlab.jrc.ec.europa.eu/mygeoss/

![CHALLENGE]

European Commission

CHALLENGE

It is not only about technology, but:

- **Culture of scientific data sharing**: implementation and cultural change go slow

- **Training people to use the app** to create sensible data (e.g. uploading pictures that allow QA/QC)

- **Mobilizing people to use the app** (e.g. volunteered monitoring of local environment, as part of job)

- **Validation of inputs received** (e.g. by the community, by trained scientists/experts)

Open data (of gathered inputs, but also source code and processed information) is a key factor!

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