DTL

DUTCH TECHCENTRE FOR LIFE SCIENCES

# Creating a good research data management plan

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## ROB HOOFT

- DTL = Dutch Techcentre for Life Sciences
- DTL = Data, Technology, Learning
- Coordinator DATA
- Technical Coordinator ELIXIR-NL

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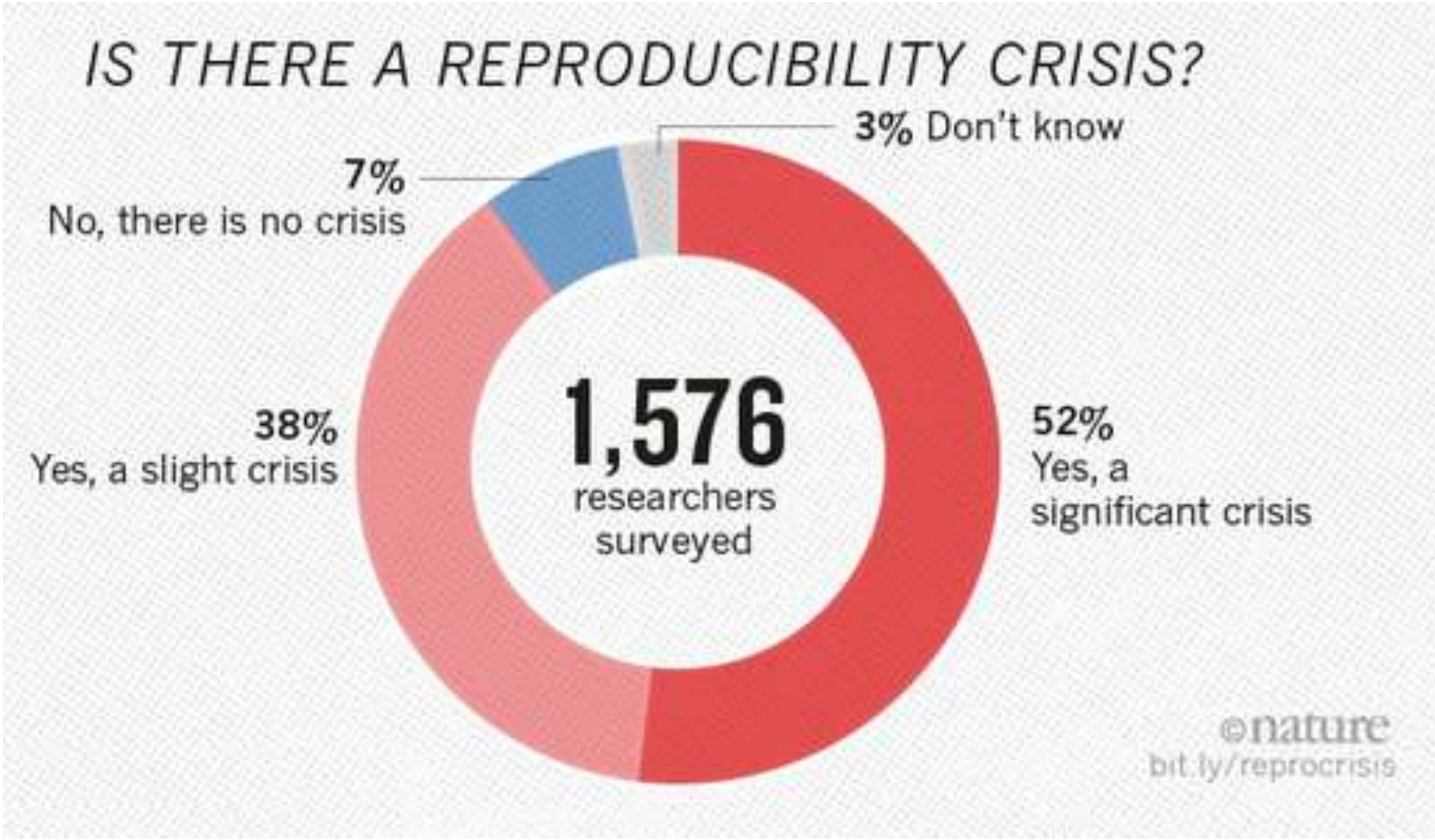
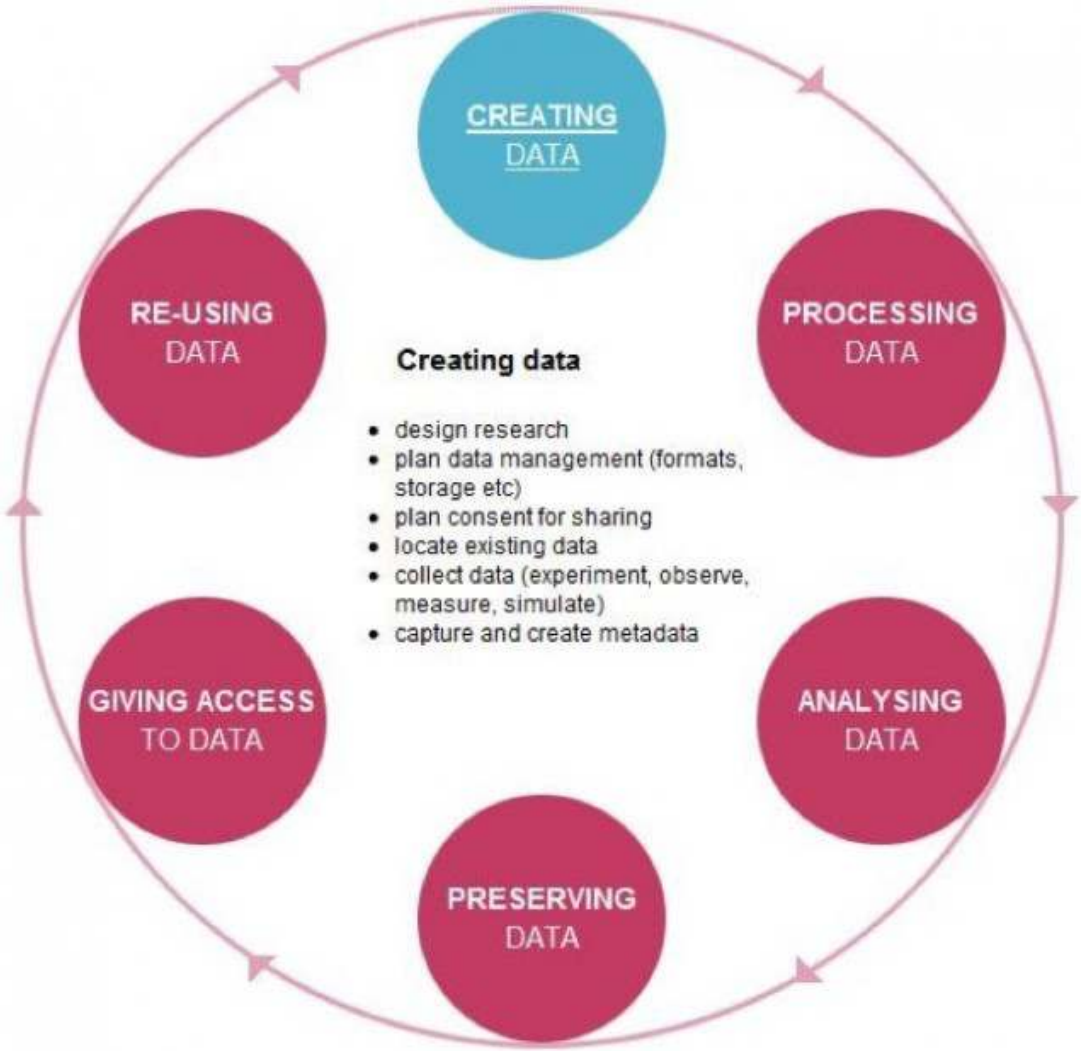
## GOALS FOR DATA MANAGEMENT

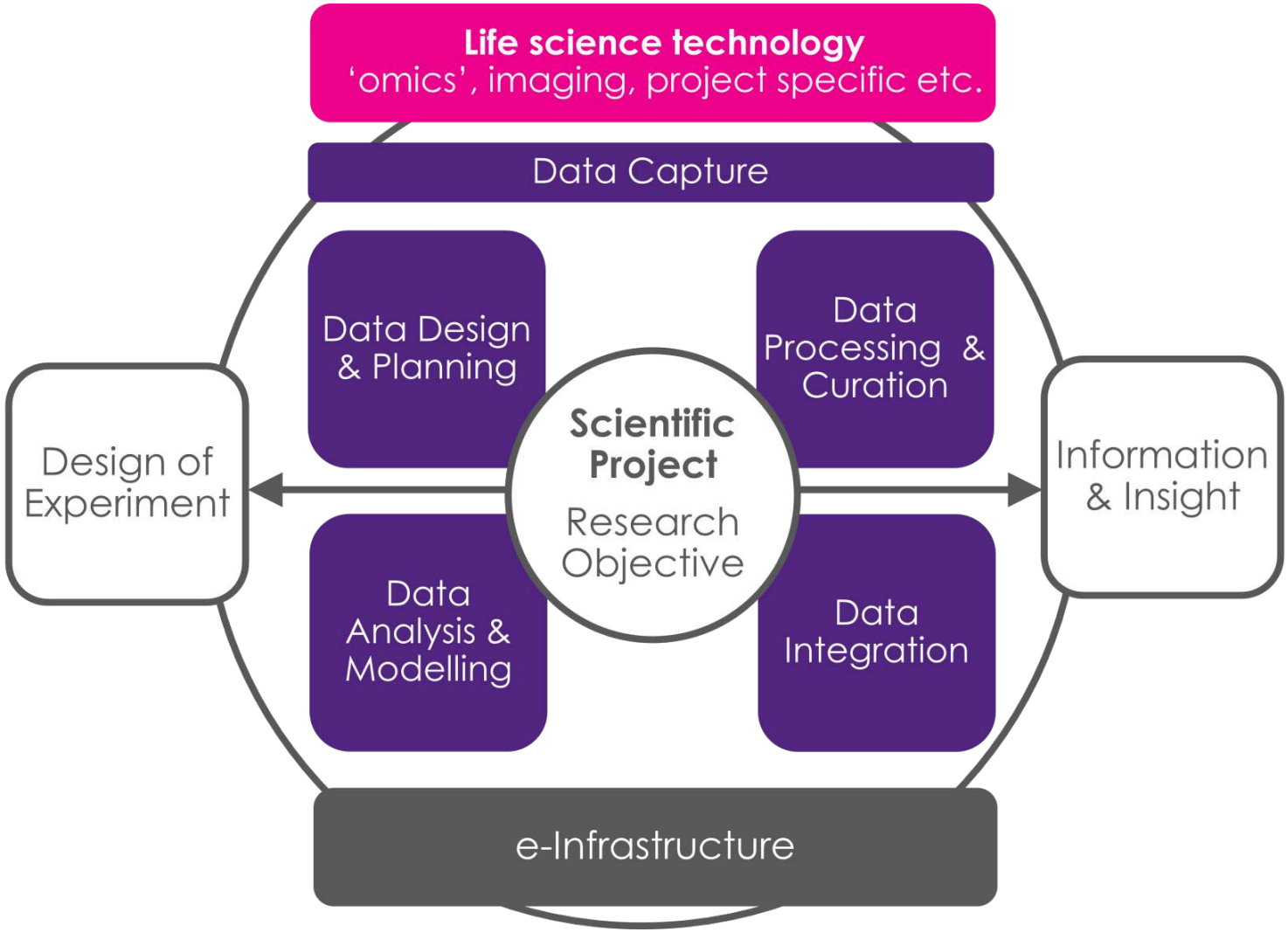
- Funders:
  - Re-usable data
- Institutes:
  - Reproducible science
- You, researcher:
  - Results, less risk, no hassle


IS THERE A REPRODUCIBILITY CRISIS?
3% Don't know
7%
No, there is no crisis
38%
Yes, a slight crisis
1,576
researchers
surveyed
52%
Yes, a
significant crisis
©nature
bit.ly/reprocrisis

# DATA LIFE CYCLE



# RESEARCH LIFE CYCLE



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## THE F A I R PRINCIPLES

Data should become:

- Findable
- Accessible
- Interoperable
- Reusable

…for both humans and computers

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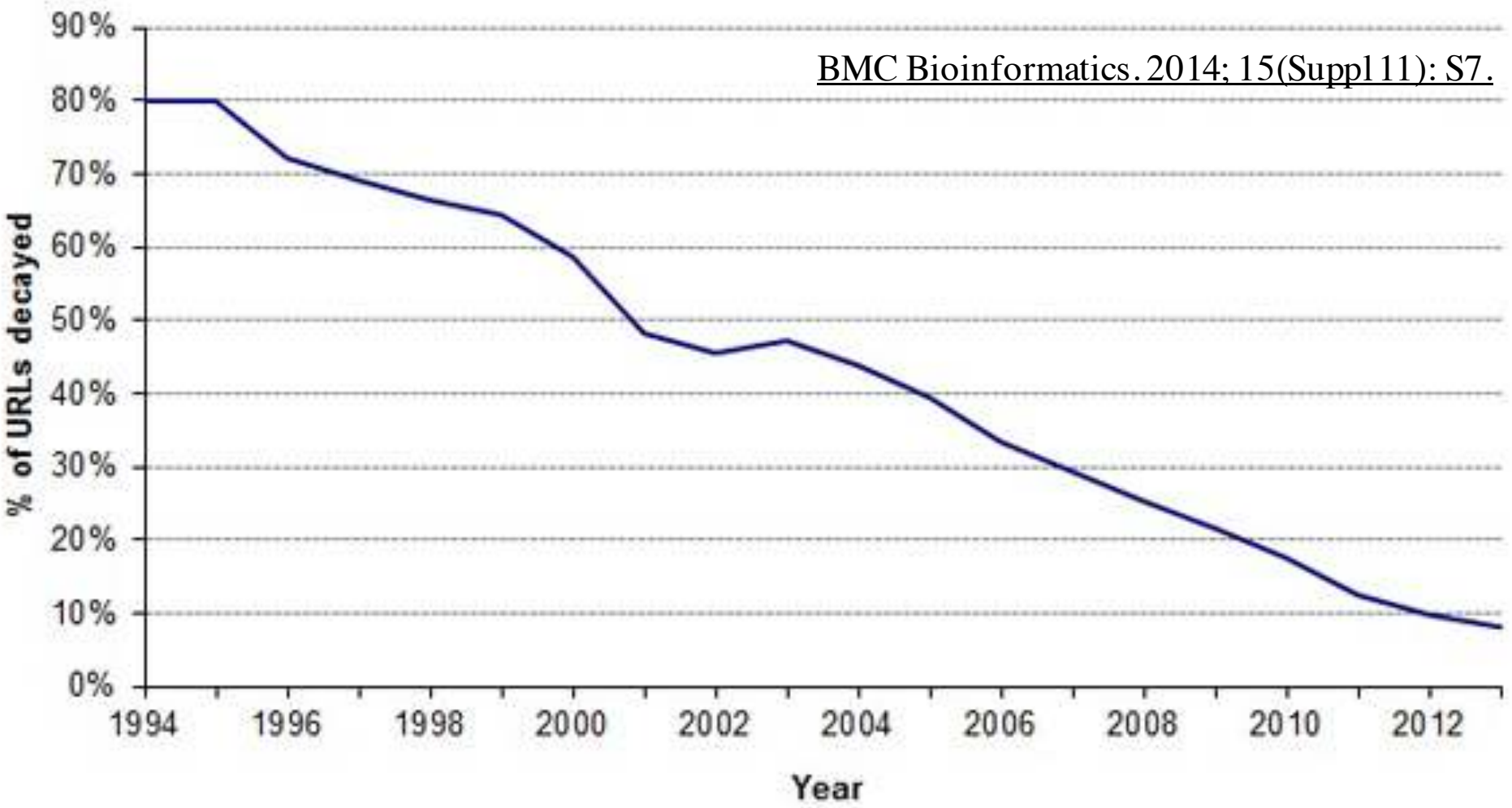
## FINDABLE

- Repository
  - Domain-specific
  - Institutional
  - National
  - Special
- Persistent Identifier
- Catalog




BMC Bioinformatics. 2014; 15(Suppl 11): S7.

## ACCESSIBLE

- Longevity
- Legal Conditions
- Embargo
- ICT

## INTEROPERABLE

- Format
- Terminology

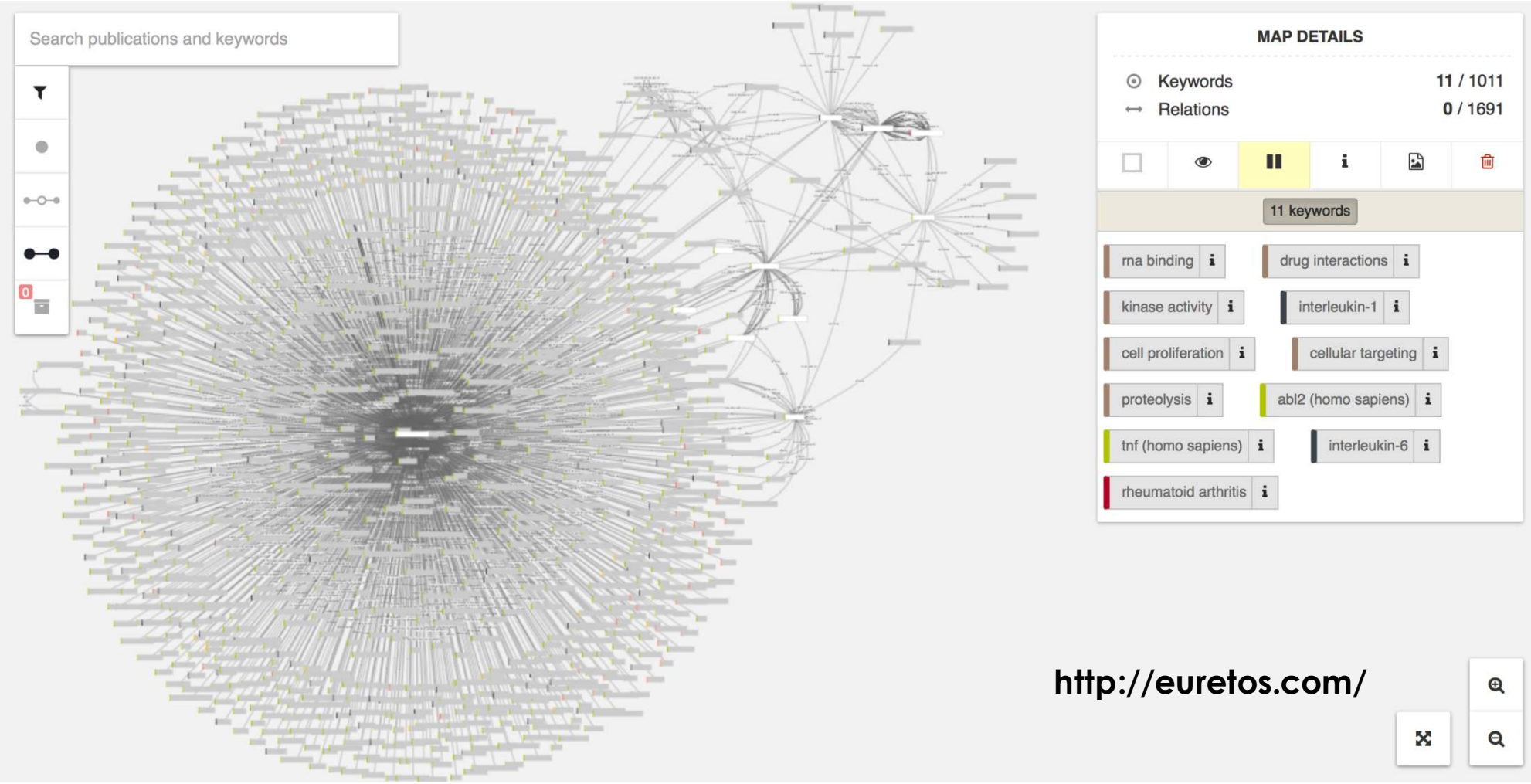
Brussels ←→ Bruxelles

Cancer ←→ Malignant Neoplasm

## REUSABLE

- Provenance
- Minimal metadata
- License
- Not only narrated

# REUSABLE: EXAMPLE

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# In preparing for battle I have always found that plans are useless, but planning is indispensable

Dwight D. Eisenhower

# Data Management Plan:

- ✅ F
- ✅ A
- ✅ I
- ✅ R

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