

Real -data challenges & Real Data-challenges

Herczog, Edit

Version: Postprint (Verlagsversion)/Postprint (Publisher Version)

Typ/Type: Kongressschrift/Conference Proceeding

Jahr/year: 2023

Quelle/Source: <https://repository.publisso.de/resource/frl:6453209>

Zitationsvorschlag/ Suggested Citation:

Herczog, Edit (2023): Real -data challenges & Real Data-challenges. Open Science Festival 2023. DOI: 10.4126/FRL01-006453209

Nutzungsbedingungen:

Dieses Werk ist lizenziert unter einer Creative Commons Lizenz
(<https://creativecommons.org/licenses/by/4.0/>)

Terms of use:

This document is licensed under creative commons license
(<https://creativecommons.org/licenses/by/4.0/>)



Real -data challenges & Real Data-challenges

written by Edit Herczog



Short introduction



- 10 years in Research (food)
- 10 years in Chemical (food-polymers) sector (Multinational)
- 10 years in the European Parliament MEP
- 10 years in Consultancy (for entities with public mission mostly)
- Engaged currently and recently
 - European Expert groups, for example EG-ERIC
 - RI-s: GÉANT
 - RDA Foundation (Global) and RDA Association (European)
 - Science Business (chairing the group on Widening initiative)

Question 1: Is the real-data issue unique?

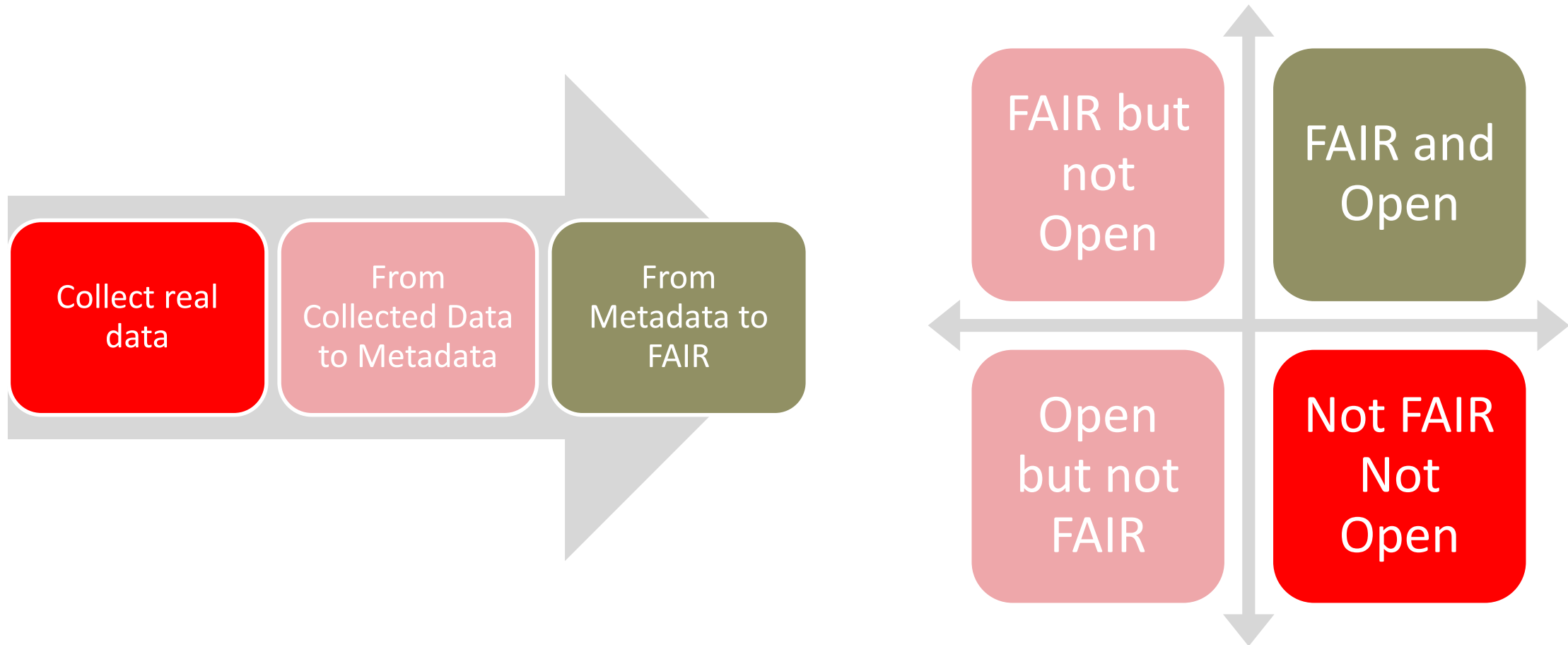


- **It is special, but it is not unique**

- In the 90's several food related diseases parallel with the EU Single Market started in 1993 generated a need for Biological origin products' identity management and HACCP systems
- In the first decade of the new Millenium the EU approved the heaviest regulation called REACH
 - Original draft was made for chemical factories and it did not work for materials with from teh nature (Geological or biological origin)
- We needed to insert three major compromises critical for natural products:
 - Thresholds, to reduce the Administrative burden realistic level
 - OSOR: One Source One Registration: Otherwise, the lab capacity is a real bottleneck
 - Timeframe: to invent the missing tools and methods
- Data is similar in many ways: Data with Lab origin versus real data

Of course, Health Data is special due to its Human origin with connected fundamental rights

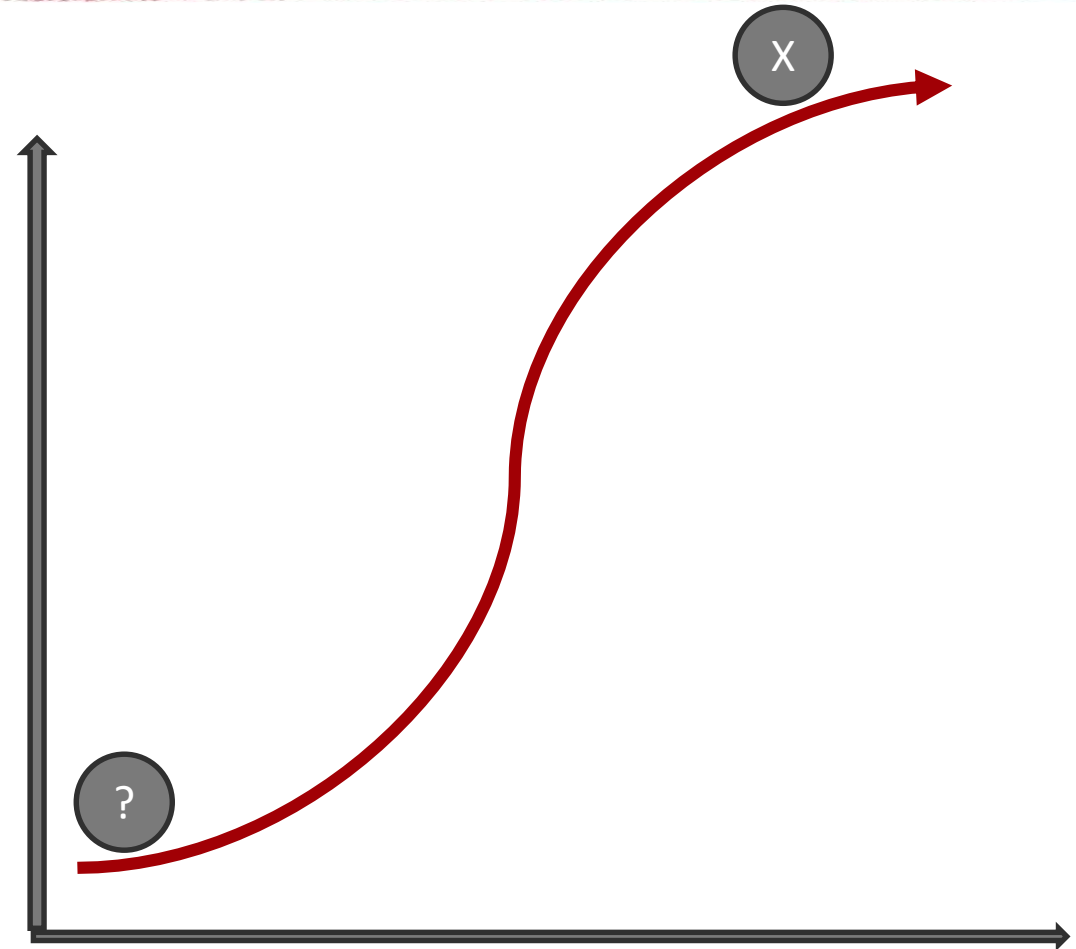
The challenge:



The Scale and Size



- We just enter to the „sensor” measured, real-lab, in real time 24/7 era
- Who and how will decide about the archiving policy?
- What to do with the Data cemeteries?
- Estimate: today average number of copies is over 130
- What does it mean for effectiveness and Efficiency?
- What does it mean for Energy saving ?
- What does it means for cost and therefore Access?



Question 2: What is a challenge for FAIR?



- **Meta data is a big step,**
but
- **Good T&I system is necessary**
 - For Researcher: Eduroom
 - For Metadata: PID
 - For Software:
 - For Instruments:

Technical Challenge
Governance Challenge

The RDA Vision, Mission and Principles



The RDA Vision and Mission

- The RDA Vision: Researchers and innovators openly share and re-use data across technologies, disciplines, and countries to address the grand challenges of society.



RDA Guiding Principles

- **Openness**
- **Consensus**
- **Inclusivity**
- **Harmonization**
- **Community-driven**
- **Non-profit and technology-neutral**

Question 2: Open is a Societal Challenge



- **FAIR is a Technical issue,**
- **Same is TRUST**
but
- **Open is a Societal issue**
 - Culture
 - Ethics
 - Legislation
 - Practice

CARE is the first RDA's
Societal Principle

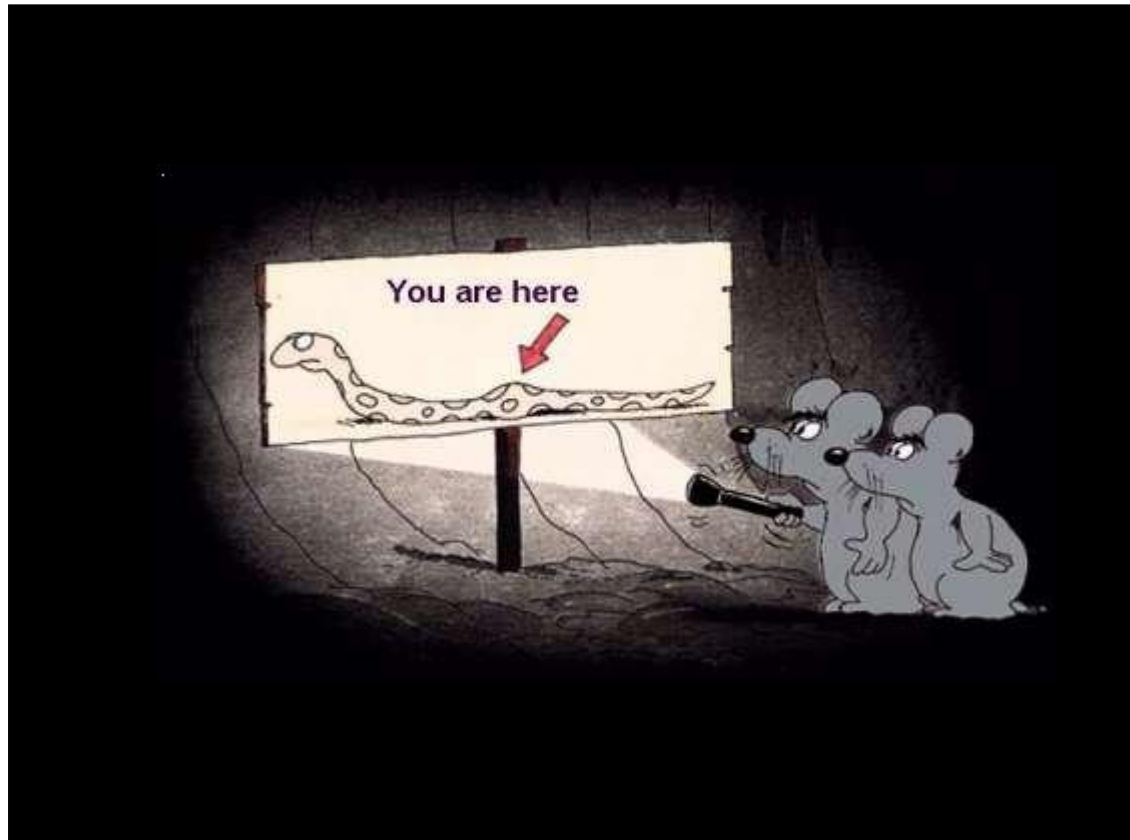
Societal Issue
Governance Challenge

The next Steps



- Work on the technical solutions and deploy them
- Work on Societal challenges Globally and Locally
- Work on the Governance at the right level
- Agree Access rules and Quality rules
- Scale and Sustain: manage the economics
- Remember: The alternative is that other regions and/or private companies will do it instead of Researchers

Where are we now?





edit@visionandvalues.be,

Mobile: 0032 476 777595

THANKS FOR YOUR ATTENTION