



# FAIR Implementation Profile

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**IR0000032 – ITINERIS, Italian Integrated Environmental Research Infrastructures System**  
(D.D. n. 130/2022 - CUP B53C22002150006) Funded by EU - Next Generation EU PNRR-  
Mission 4 “Education and Research” - Component 2: “From research to business” - Investment  
3.1: “Fund for the realisation of an integrated system of research and innovation infrastructures”



# AGENDA



13:00-13.15 (15 minutes) Welcome – Q&A (Barbara)

13:15-13:30 (15 minutes) Why curation is needed (Barbara)

13:30-14:00 (30 minutes) The FSR curation workflow (Gerhard)

14:00-14:20 (20 minutes) Explore curation github issues

14:20-14:35 (15 minutes) Break

14:35-15:00 (25 minutes) Demonstrating an issue resolution (Gerhard & Saurav)

15:00- 15:50 (50 minutes) Curate a FSR metadata (breakout)

16:00-16:10 (10 minutes) Break

16:10 -16:45 (35 minutes) Evaluate the FAIRness of a metadata schema (Barbara)

16:45-17:00 (15 minutes) Explain homework (Barbara)



# Why Curation is needed

**13:15-13:30**  
**(Barbara)**

## Bottom-up approach

GFF has initialized the process providing the FIP infrastructure

but...

Contributions are community driven! So FSRs are provided by users of the FIP Wizard!

NOTE: Normally these procedures are top-down, provided by the organization that hosts the service

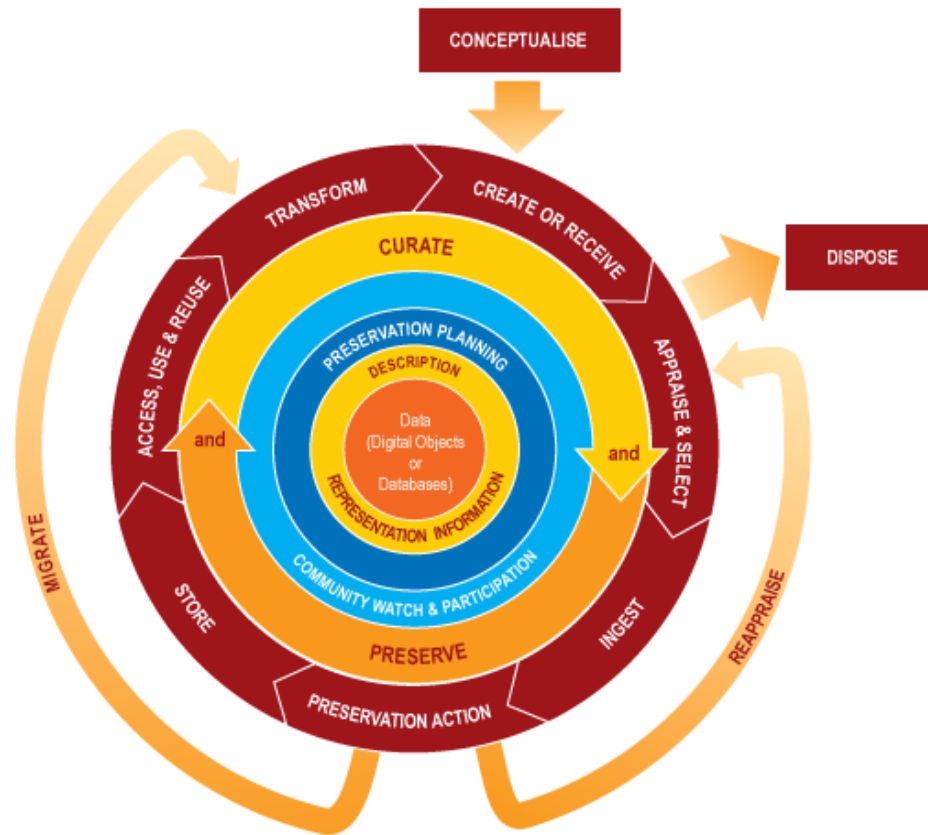
→ The metadata of FSRs expressed as nanopublications are also provided by the users

Advantages: The knowledge base of FSRs can grow over time by user input

Disadvantage: The FIP Wizard is an open access tool, many won't have had any training and might not be informed enough and might provide erroneous entries

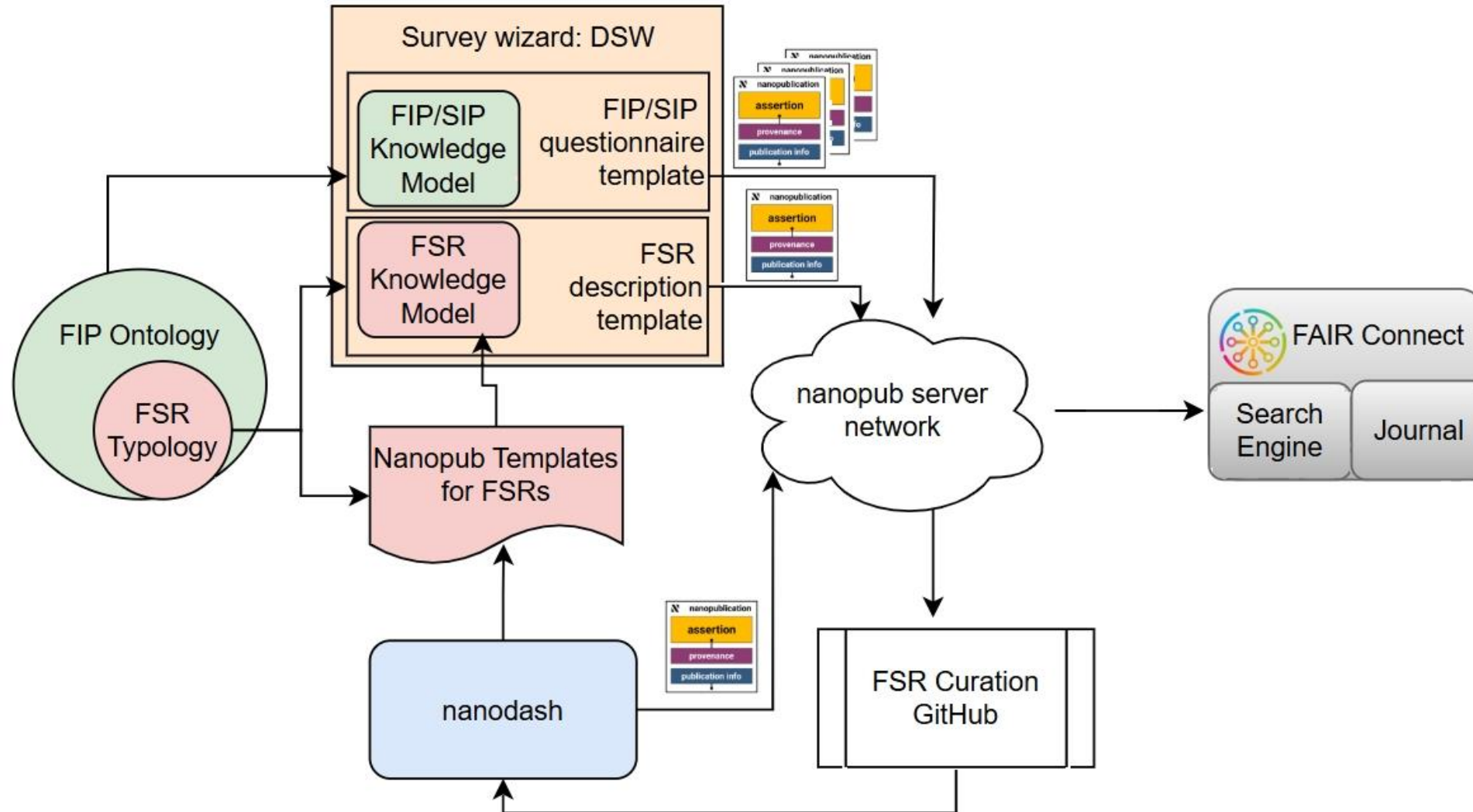
-> Thus we need post-curation of these entries by trained people

# Top-down Curation of resources

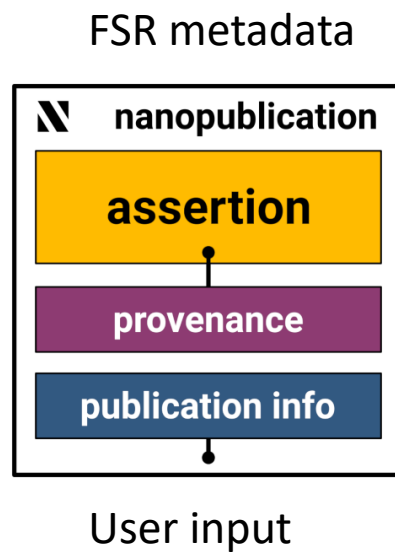


The Digital Curation Lifecycle Model by Sarah Higgins, IJDC Issue 1, Volume 3, 2008  
<https://www.dcc.ac.uk/about/digital-curation>

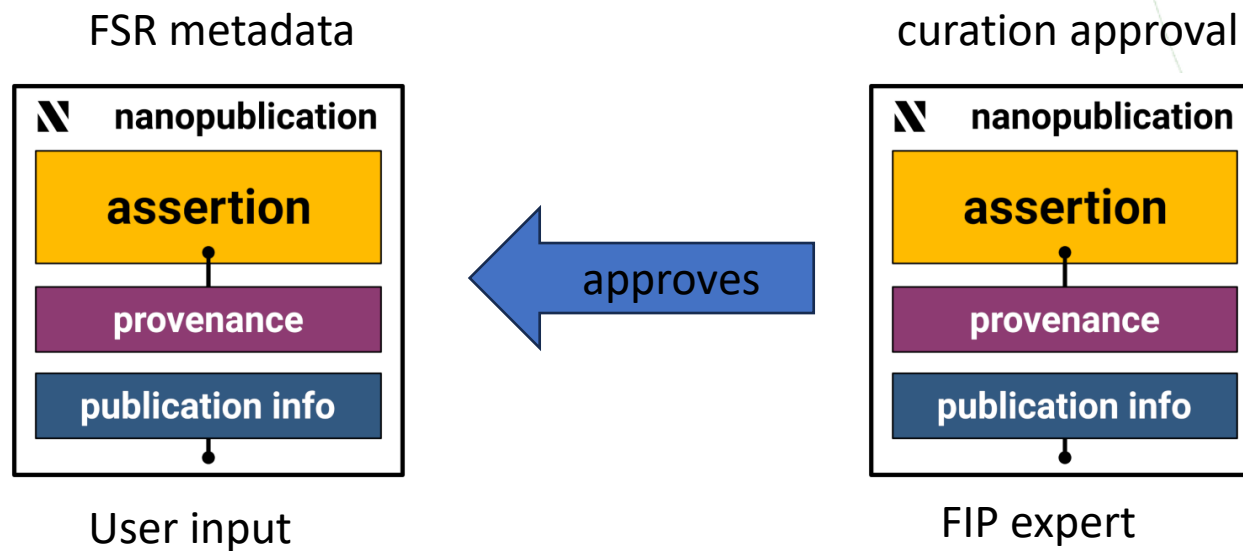
# Remember: FIP ecosystem



# Bottom-up Curation of resources



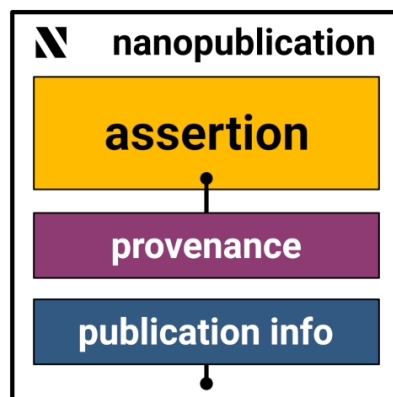
# Bottom-up Curation of resources



# Bottom-up Curation of resources



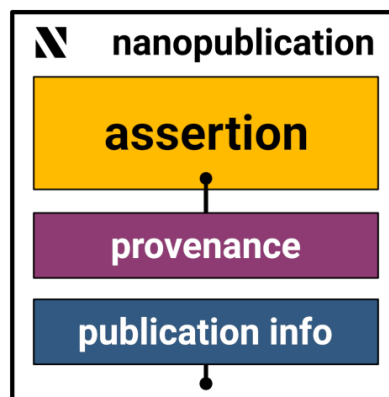
FSR metadata



User input



curation approval

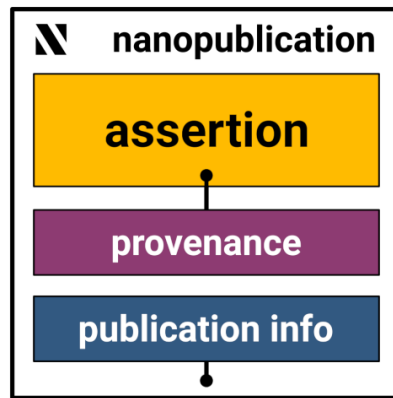


FIP expert

# Bottom-up Curation of resources



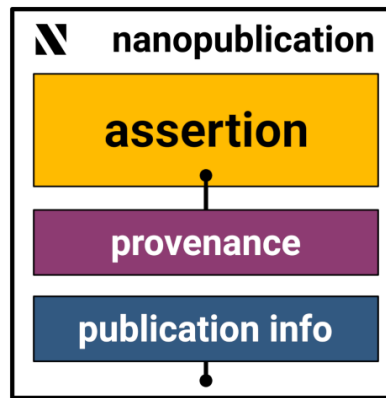
FSR metadata



User input



curation approval



FIP expert

# FSR Curation process objectives for FSRs:

The curation process is used to ensure:

- that only useful resources are maintained in the FIP environment
- the correct types are associated to the resource
- the resource is well described and understood
- the appropriate links are added to access the resource
- to get rid of eventual duplicates

# FSR Curation process objectives for FIPs:

- Nanopub FIP created?
  - If yes...
  - Latest template used? (FER's thing link must be shown)
- If not
  - migrate to newer version
  - Solve open issues (communicate with creator)
  - re-publish and re-submit the FIP

# Evaluate the FAIRness of a metadata schema

**16:15-16:45**  
**(Barbara)**

# Evaluating how FAIR a metadata schema is

FAIR metadata should be following the FAIR Principles.

F1: have its own identifier

F2: based on a cross-domain standard facilitating findability

F3: include a link to data

F4: indexed in a registry for metadata

A1.1: be accessible via HTTP

A1.2: be open accessible whenever possible

A2: be accessible even if the data it describes stops to exist based on a metadata preservation policy

I1: represented in a machine-readable knowledge representation language (like RDF).

I2: use FAIR vocabularies for their object definitions

I3: based on a semantic model (ontology) using object properties for the relations

R1.1: have a data usage license

R1.2: have a provenance associated about the metadata provider