

Day 2 - 29. 10. 2019

9.00 -10.00 Session 4: Short Comments from Technologists on the Requirements

The requirements specified refer back to many discussions in CNRI, RDA, DONA, GOFAIR, GEDE etc. and many technical and domain experts have been involved. In addition, first implementations of DO components have already been developed and the LD Community has many examples in place. However, we also know that much more needs to be done to come to a fully functioning data infrastructure enabling machine-mediated data processing. Therefore, we invite some experts from different background to make short statements on the technical requirements and what remains missing based on their broad experience. Each speaker will have 5 minutes to comment on 3 key points that reflect on the requirements, leaving sufficient time for discussions.

Session Chair: Erik Schultes

- Christophe Blanchi
- Jonathan Clark
- Ray Plante
- Tian Ye
- Klaas Wierenga
- Mark Wilkinson

10.00 - 10.30 Coffee Break

Automating F, A, I, and R

Box 2 | The FAIR Guiding Principles

To be Findable:

- F1. (meta)data are assigned a globally unique and persistent identifier
- F2. data are described with rich metadata (defined by R1 below)
- F3. metadata clearly and explicitly include the identifier of the data it describes
- F4. (meta)data are registered or indexed in a searchable resource

To be Accessible:

- A1. (meta)data are retrievable by their identifier using a standardized communications protocol
 - A1.1 the protocol is open, free, and universally implementable
 - A1.2 the protocol allows for an authentication and authorization procedure, where necessary
- A2. metadata are accessible, even when the data are no longer available

To be Interoperable:

- I1. (meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation.
- I2. (meta)data use vocabularies that follow FAIR principles
- I3. (meta)data include qualified references to other (meta)data

To be Reusable:

- R1. meta(data) are richly described with a plurality of accurate and relevant attributes
 - R1.1. (meta)data are released with a clear and accessible data usage license
 - R1.2. (meta)data are associated with detailed provenance
 - R1.3. (meta)data meet domain-relevant community standards



Technical infrastructure (generic operations) Social agreements (domain-specific content)

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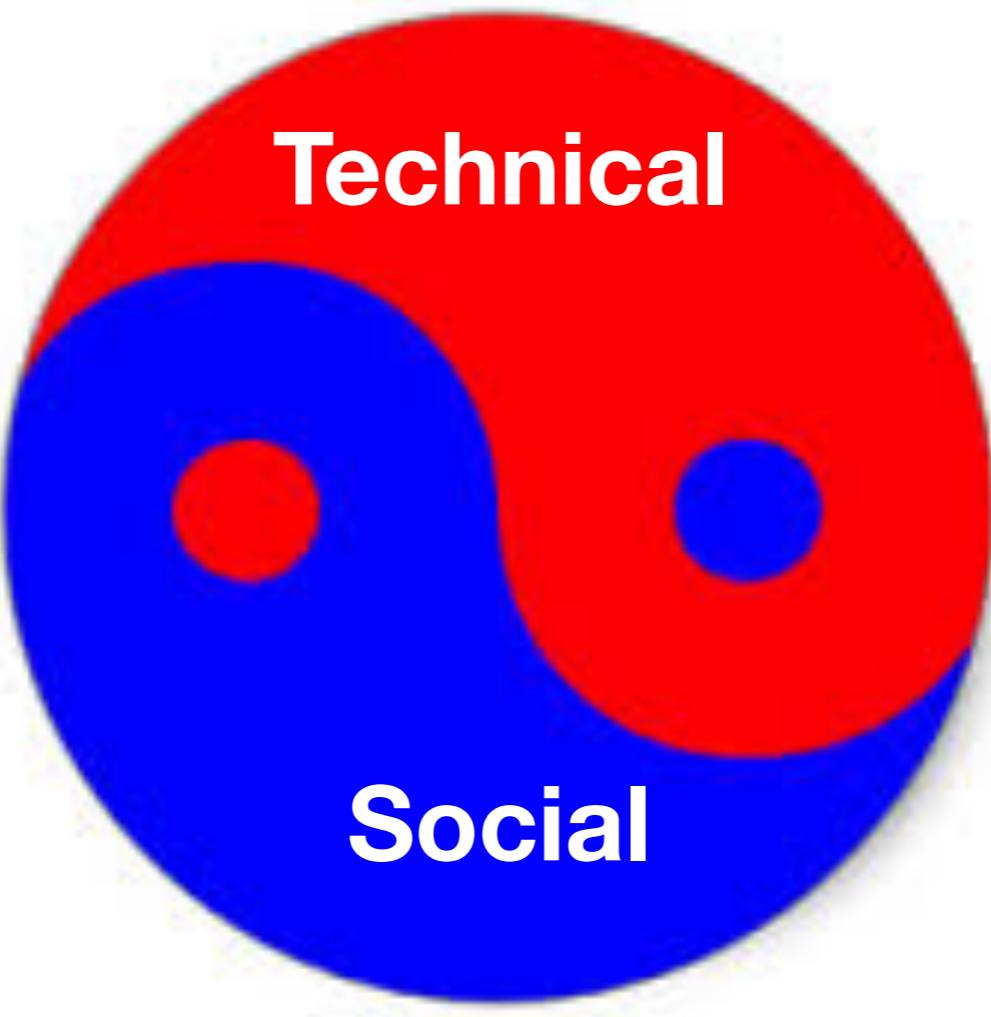
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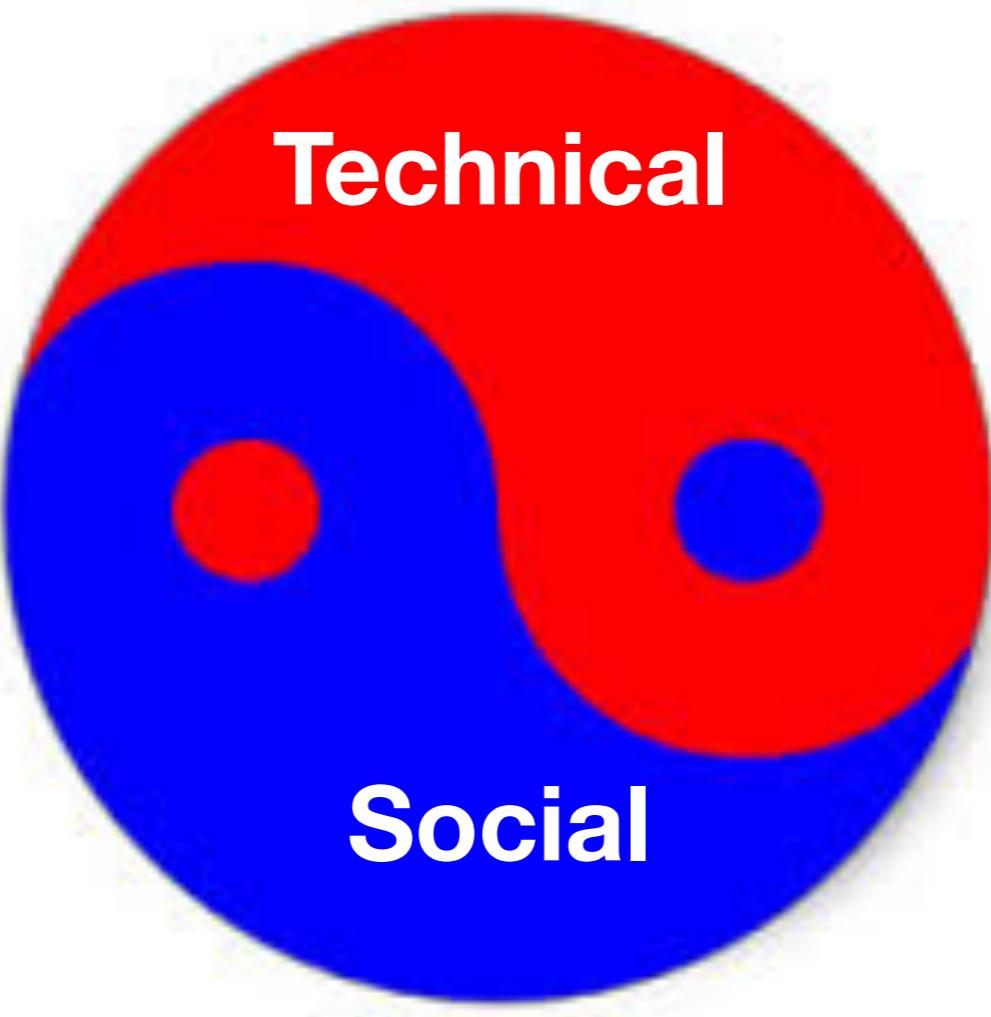
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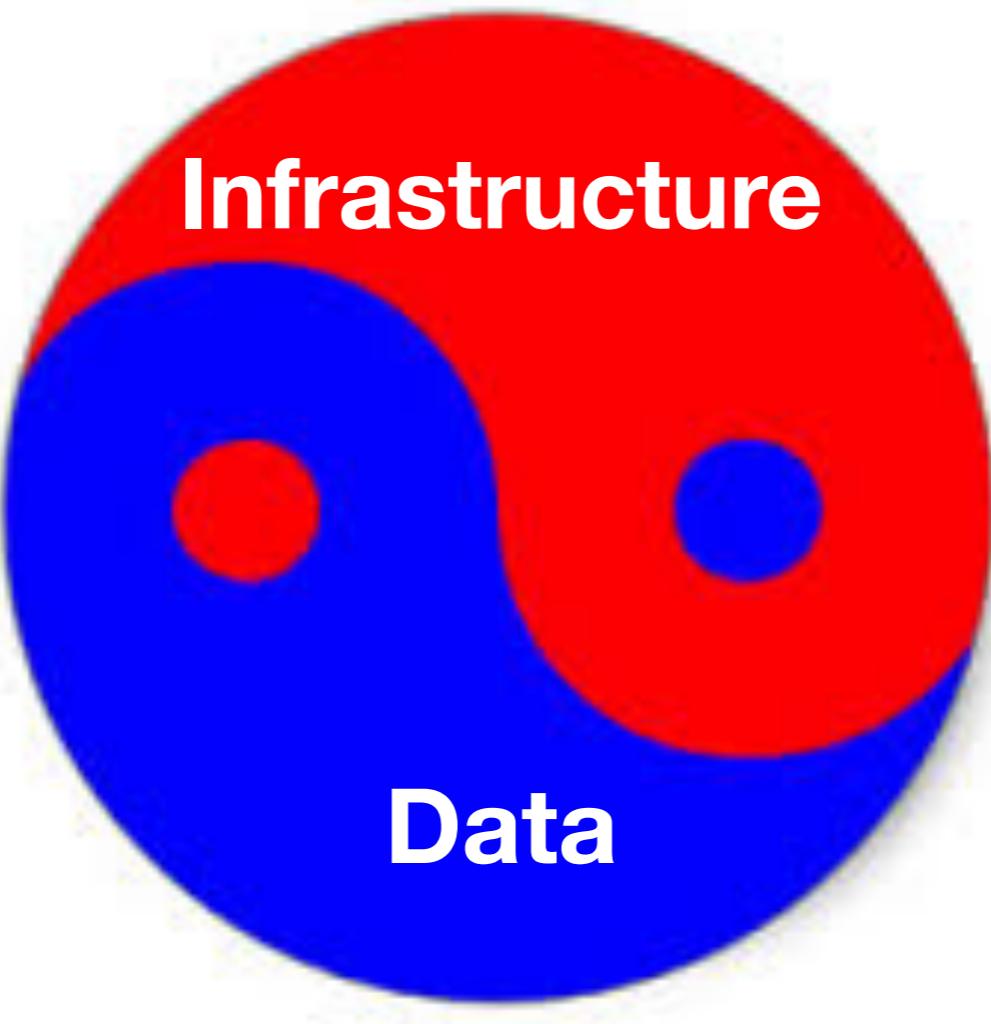
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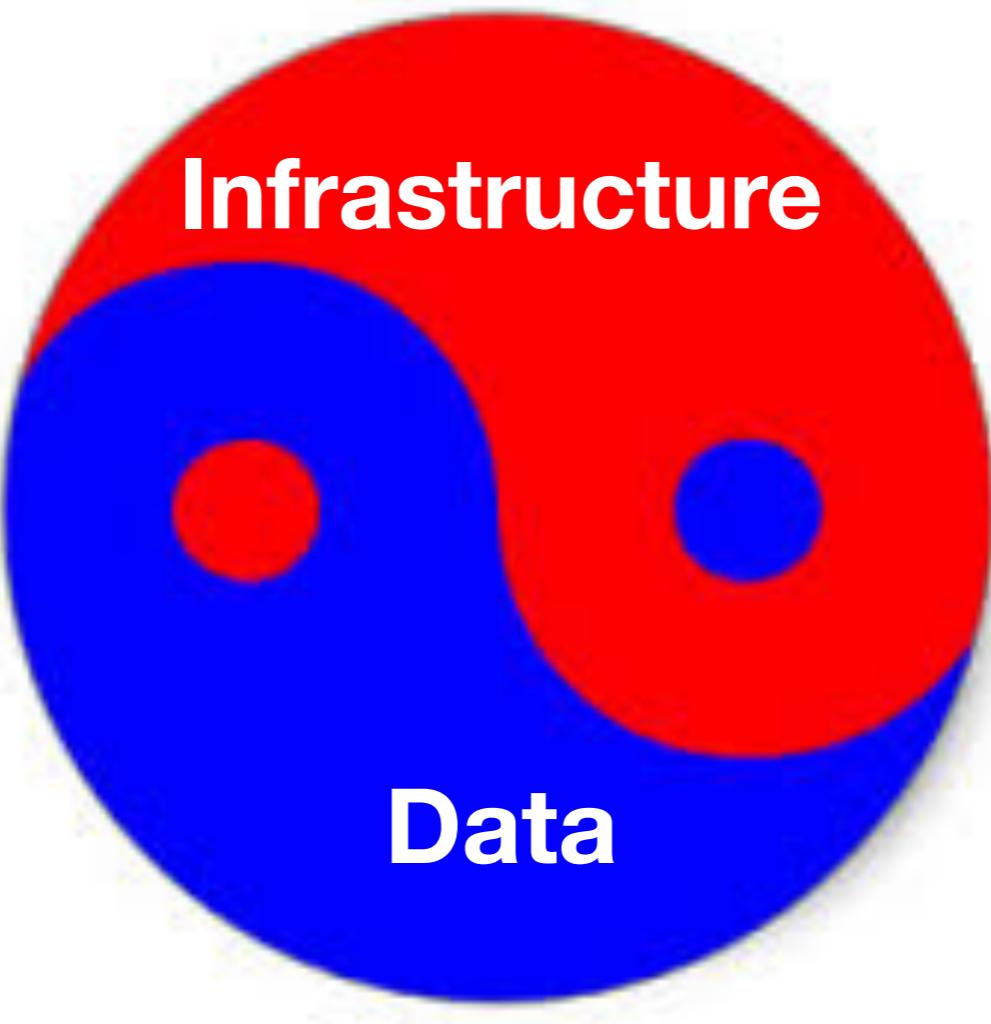
Technical



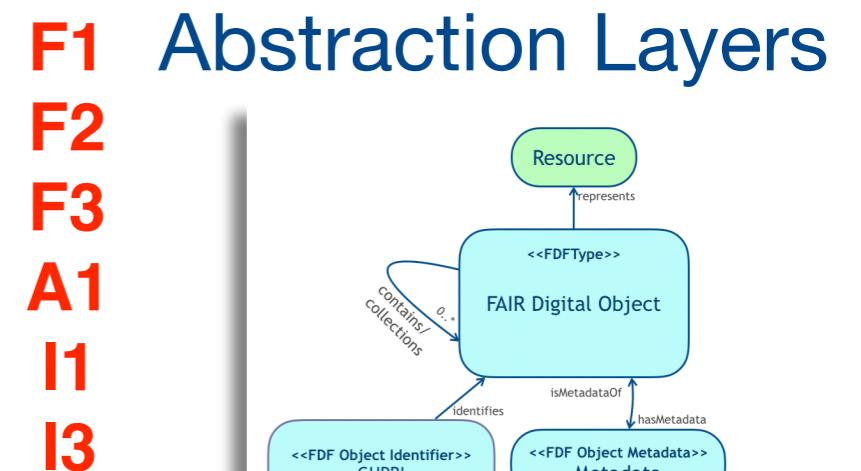
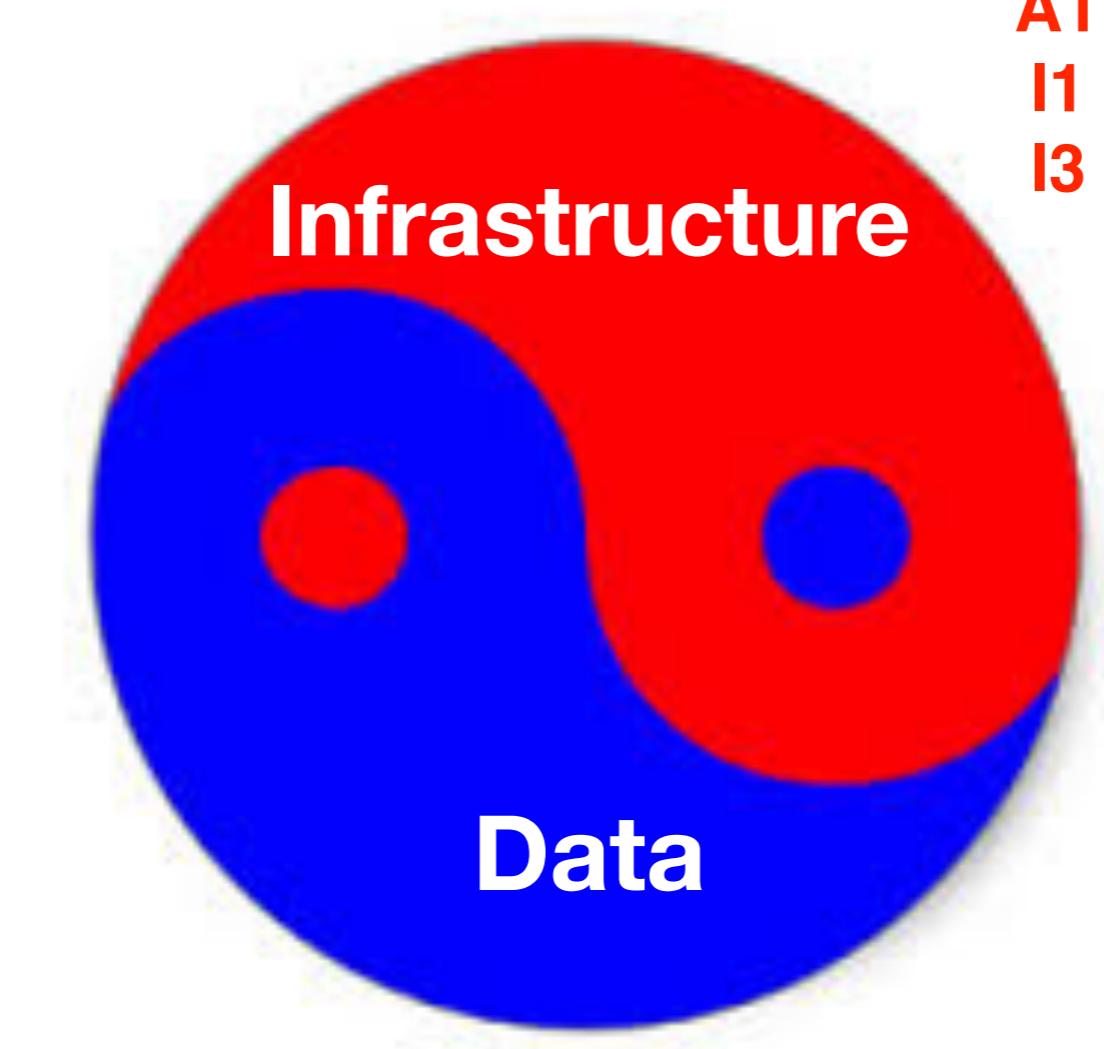
Social



Infrastructure

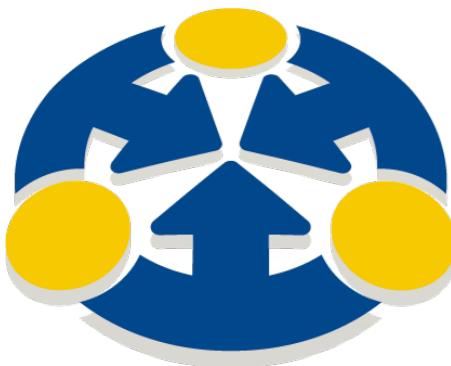


Data



FAIR DO

Irreducible Complexity



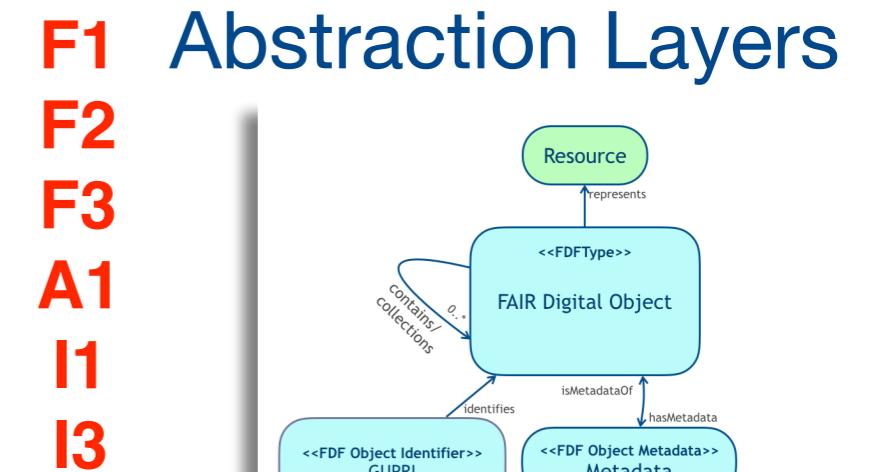
FAIR

Convergence
Matrix

F1
F2
F4
A2
I2
R

Infrastructure

Data







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