

Infrastructure Gateways for Trustworthy Research Environments

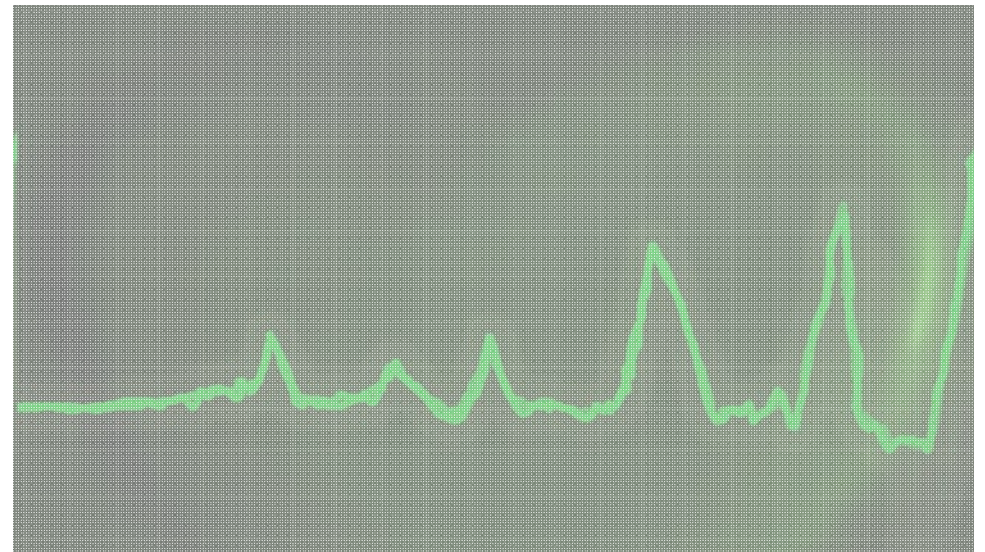
Andreas Aschenbrenner
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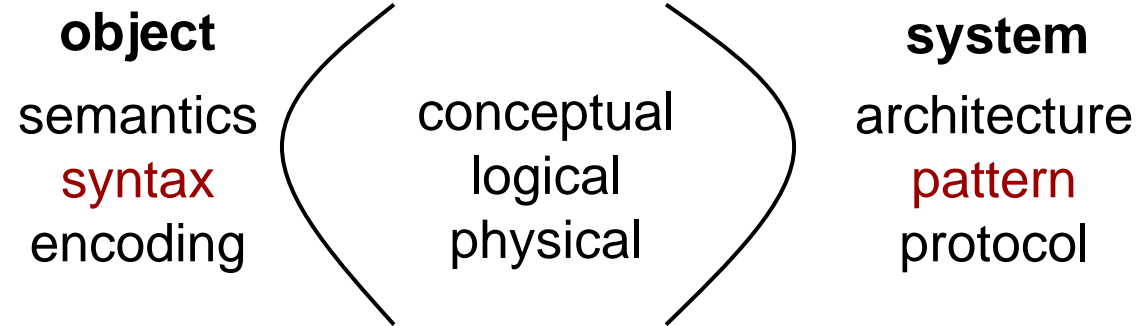
- **object models, for sharing**
- **data channels, to interact**
- **infrastructure, to build upon**

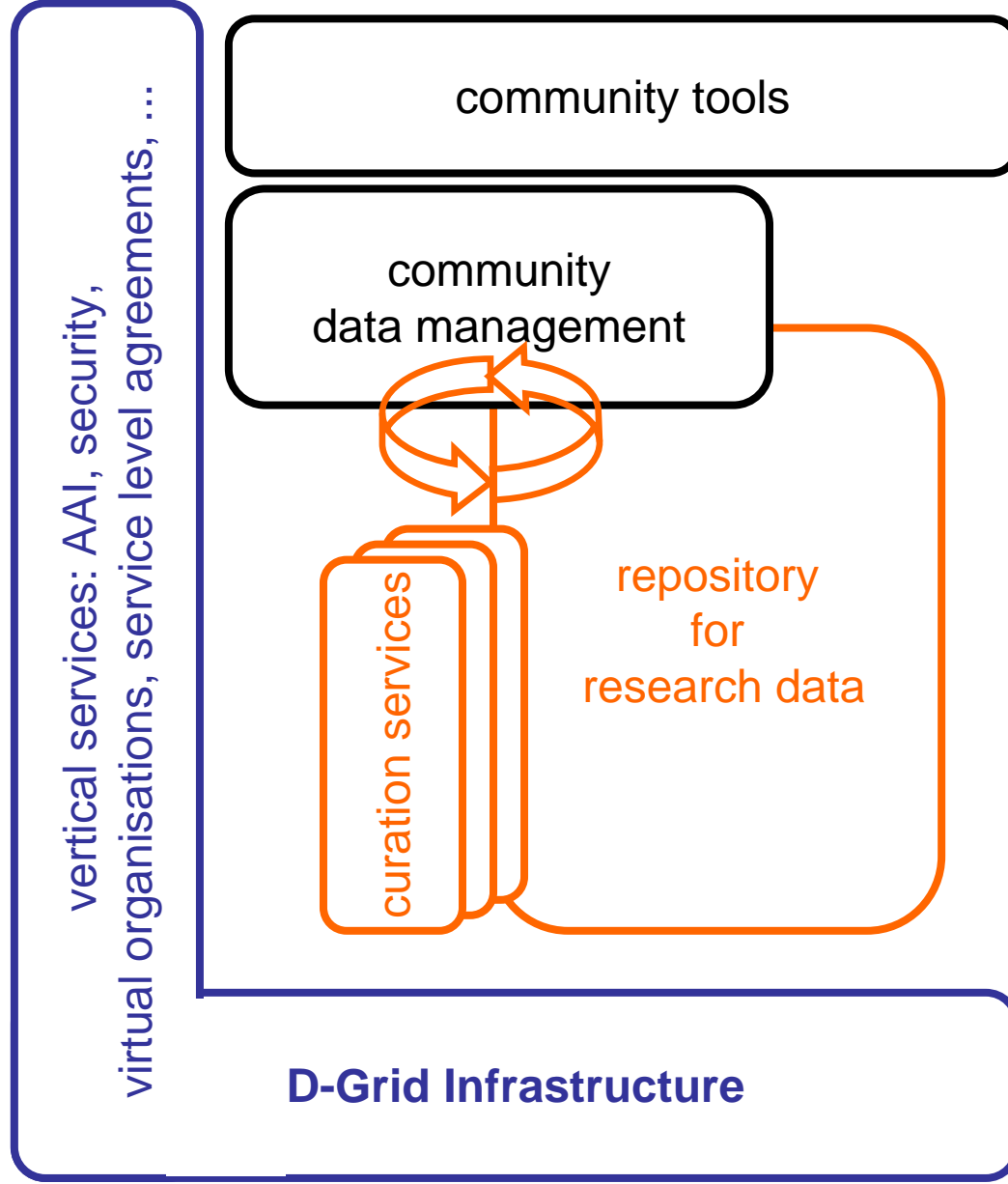
conceptual
logical
physical

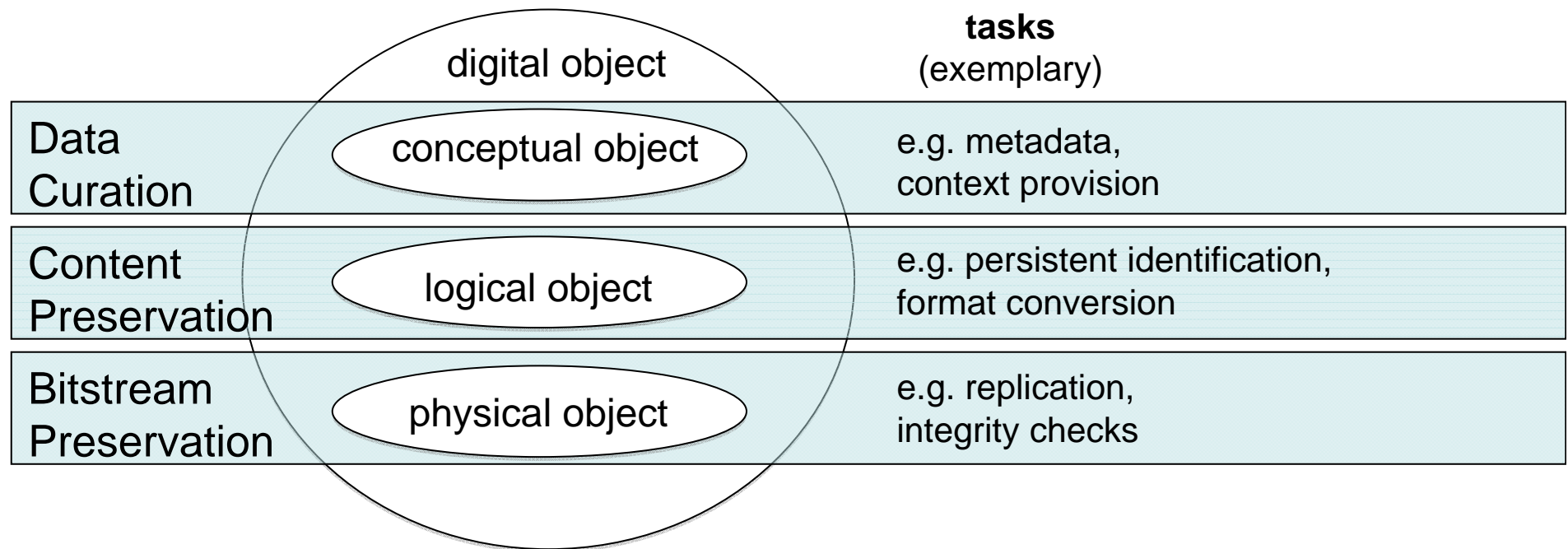


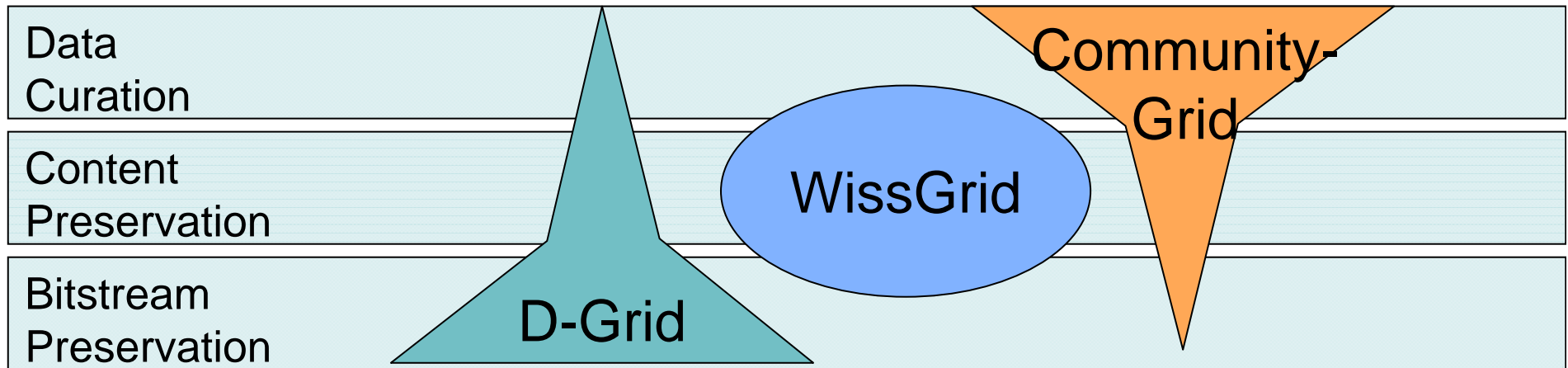
conceptual
logical
physical

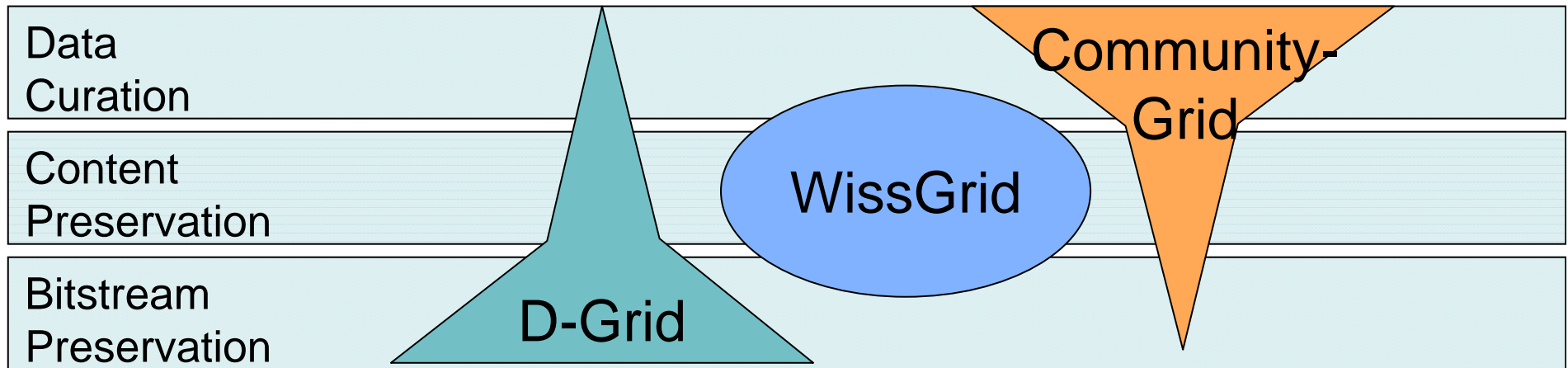
- **conceptual** - the Real World
- **logical** - Processable Units
- **physical** - Signs Inscribed on a Medium



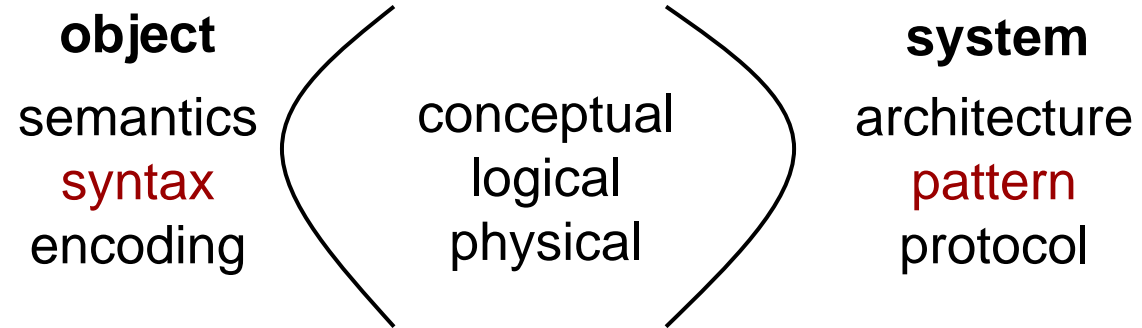


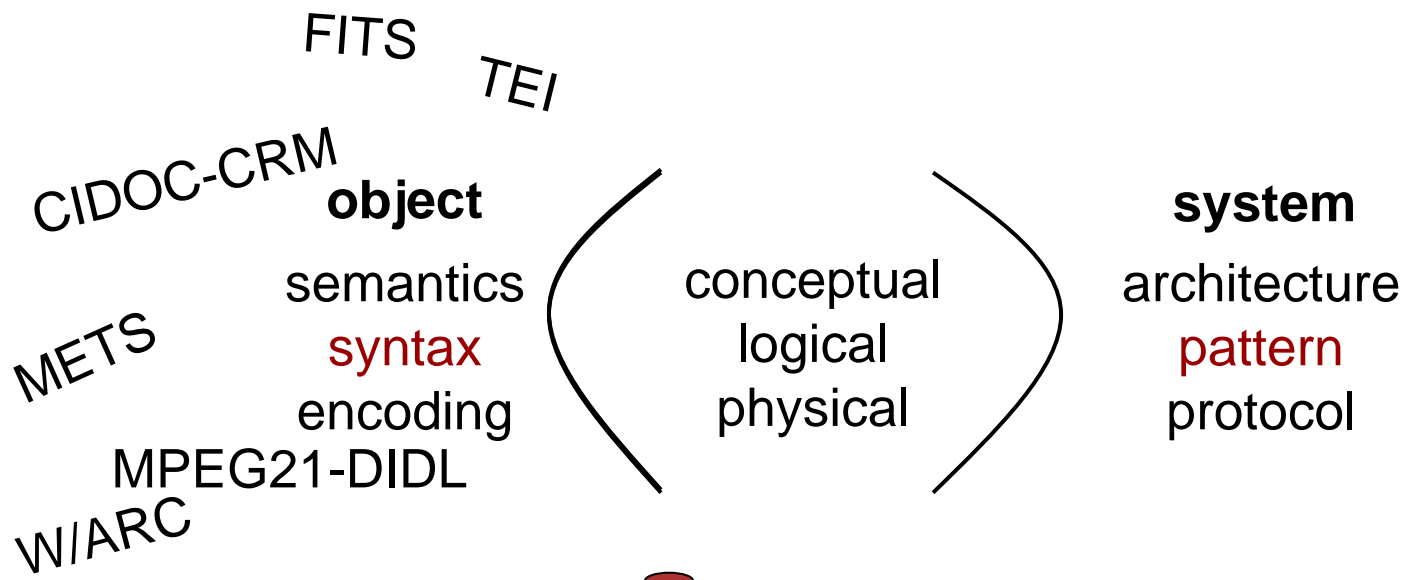






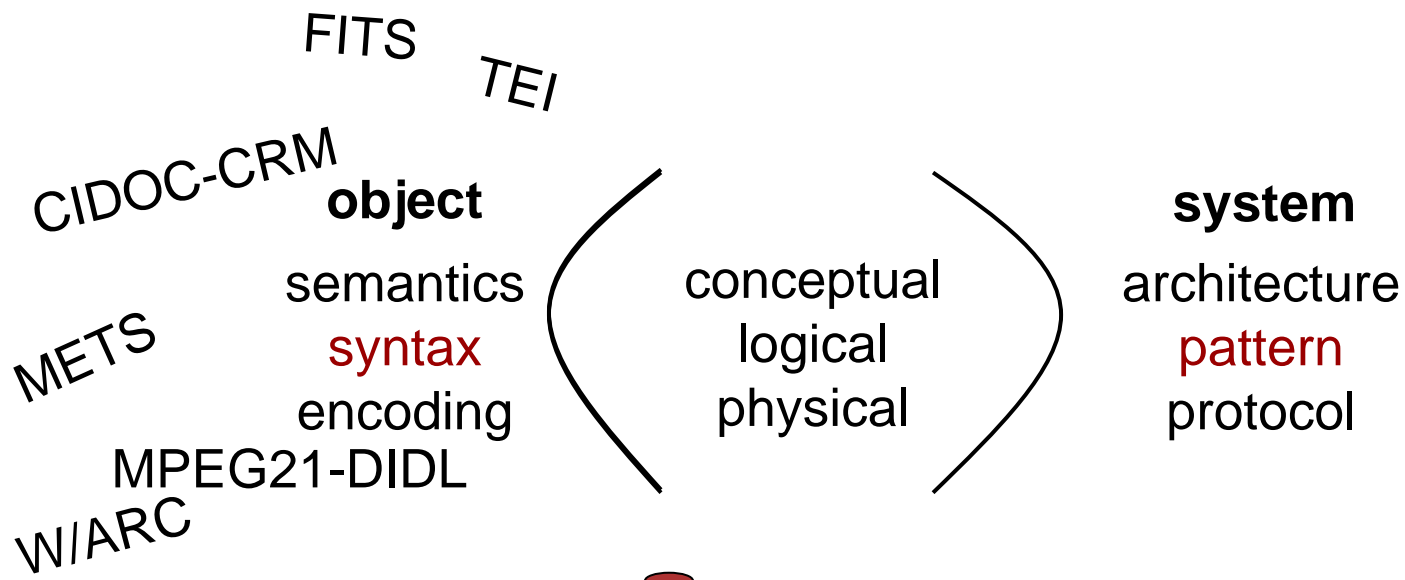
a. focus on Content Preservation





 Format Registry

 Format Conversion, Crosswalks



 Format Registry

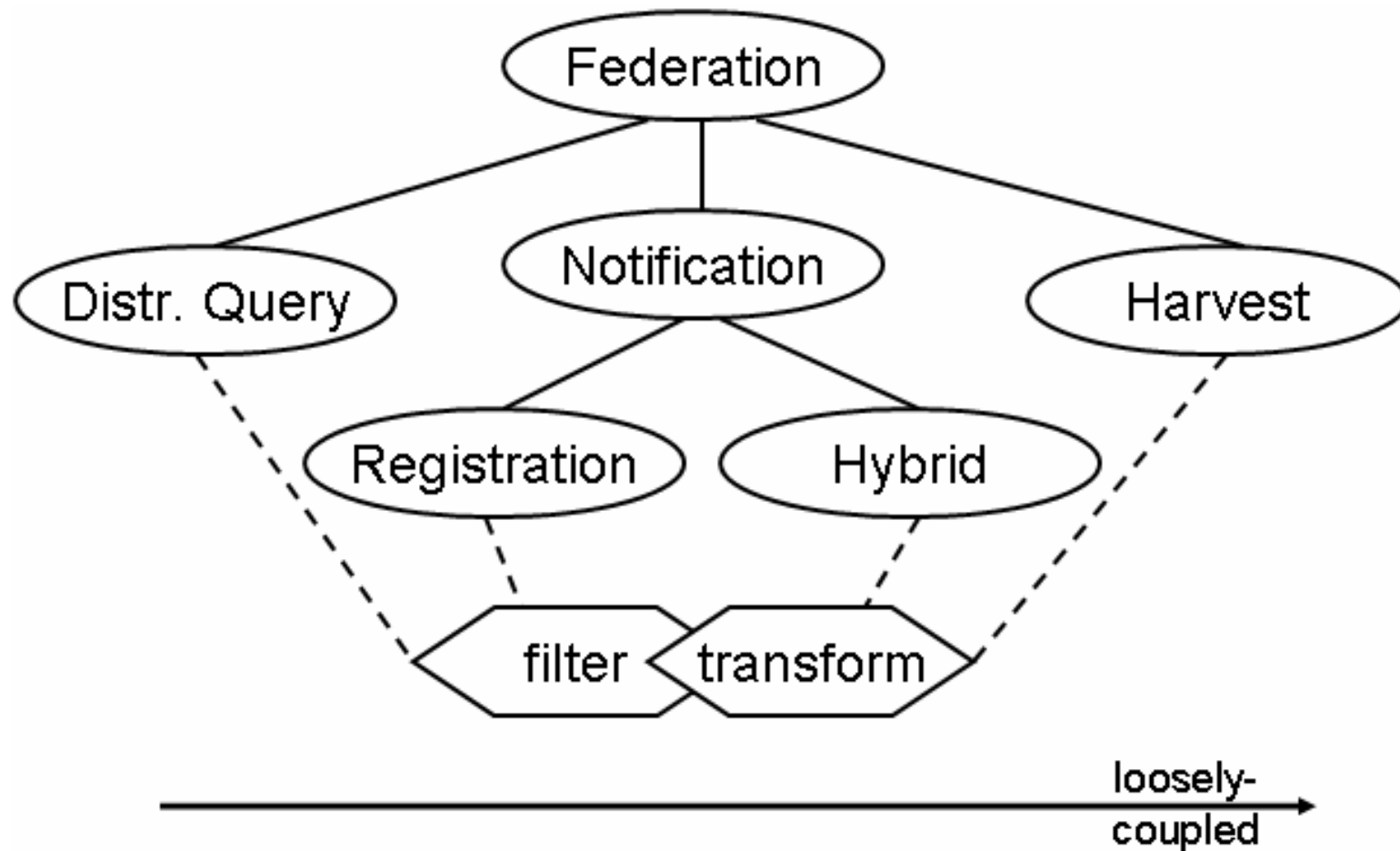
 Format Conversion, Crosswalks



a. focus on **Content Preservation**

b. focus on **system (not object)**

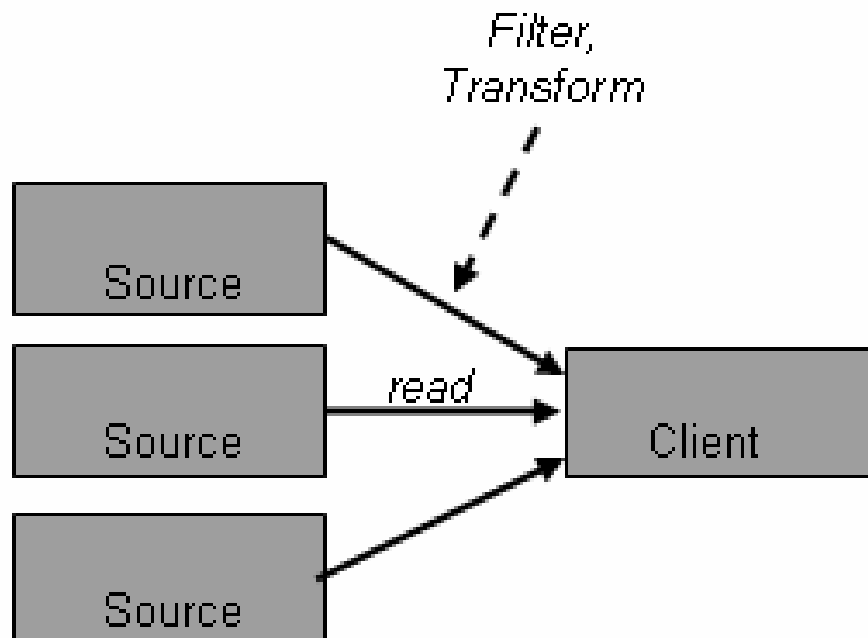




Repository Federation Pattern Language

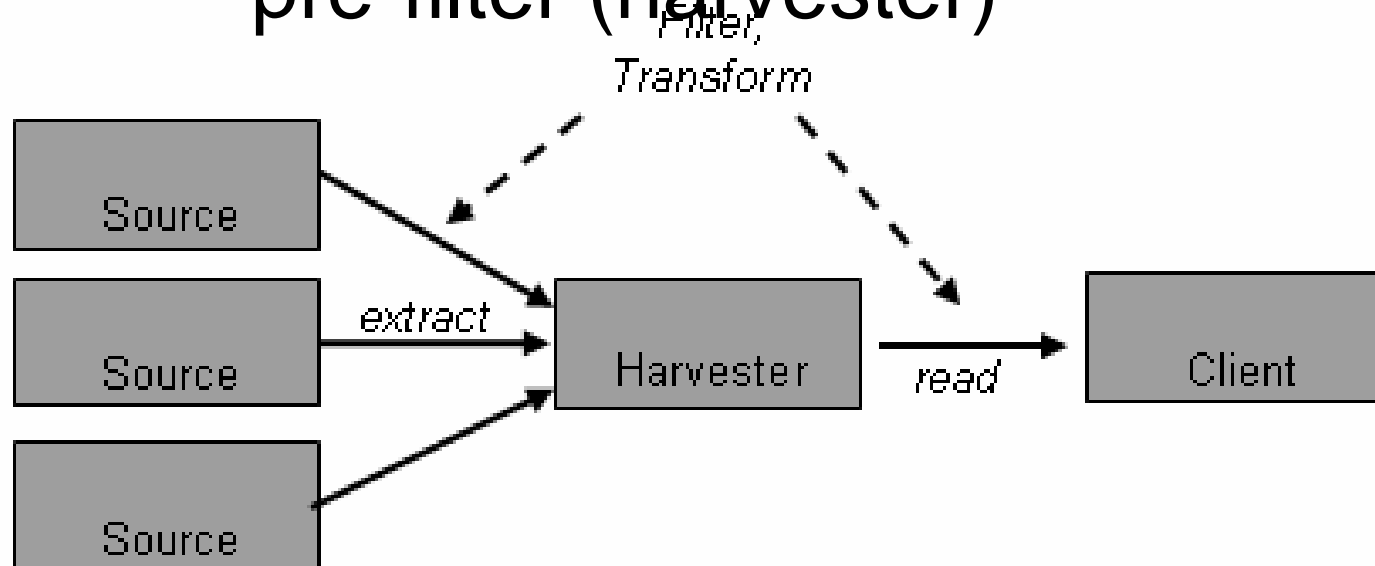
pattern: distributed query

- + direct source
(consistency)
 - bad scalability
(weakest link)
- (SOA/ROA)



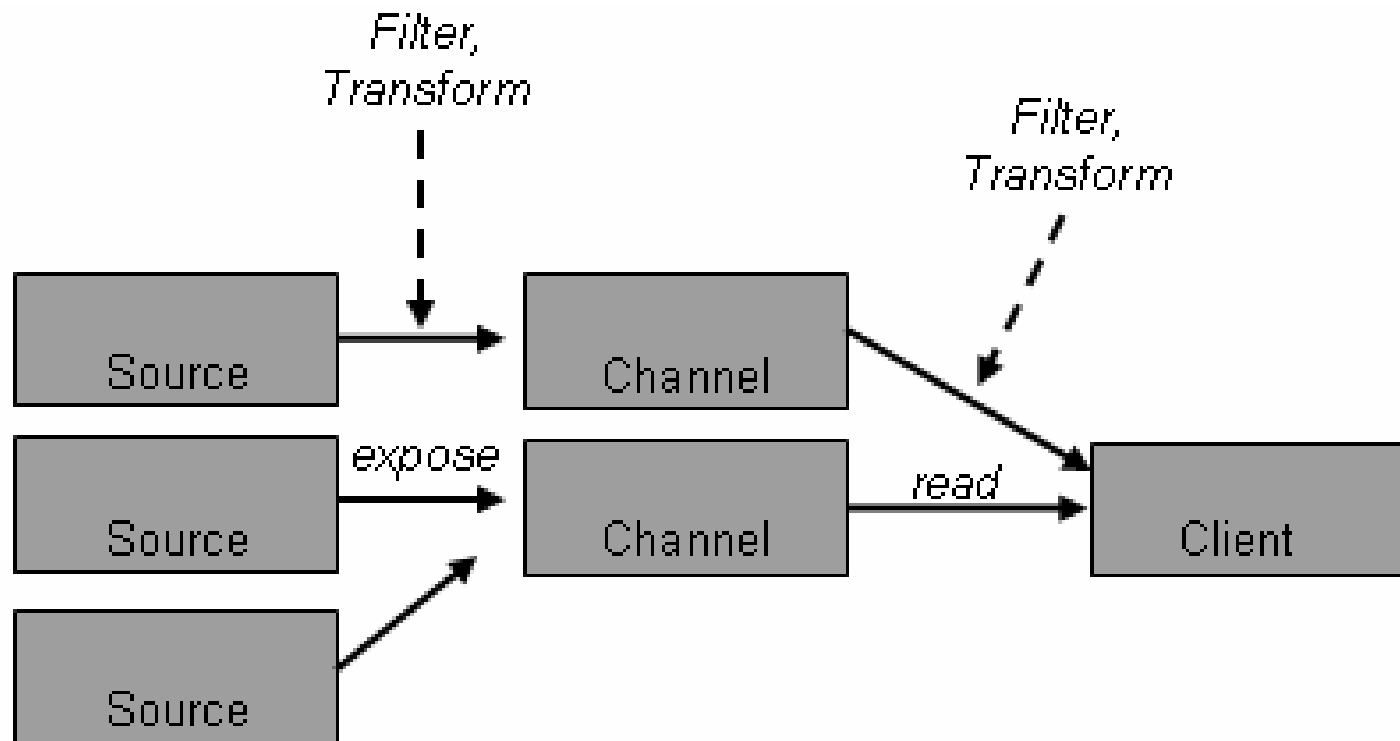
pattern: harvest

- + good scalability
(aggregation)
- harvest-cycle (consistency)
- pre-filter (harvester)



pattern: notification

- + good coupling
- + good scalability
- ? Standards
 - ... e.g. Atom (hybrid push/poll)





TextGrid

Create: Bug Improvement Task

Summary

- Issues
- Road Map
- Change Log
- Popular Issues
- Calendar
- Subversion Commits
- Versions
- Components

Summary

Reports Filters

Description

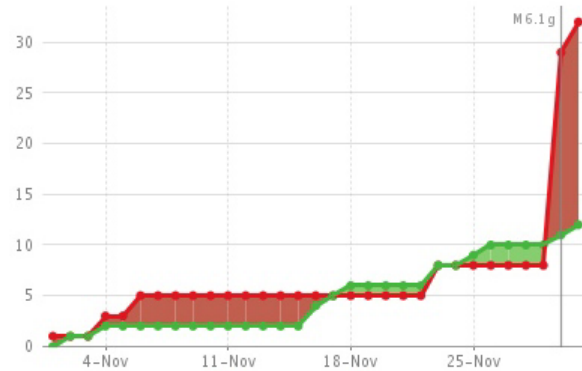
URL: <http://www.textgrid.de>
Lead: [Thorsten Vitt](#)
Key: TG

Issues: Due

[More](#)

- [TG-240](#) Due Date: 30/Jun/09
Insert a new tool for marking rectangles.
- [TG-229](#) Due Date: 30/Jun/09
polygons as well as rectangles to create the links
- [TG-269](#) Due Date: 30/Jun/09
Make text link color configurable

Issues: 30 Day Summary



Issues: 32 created and 12 resolved

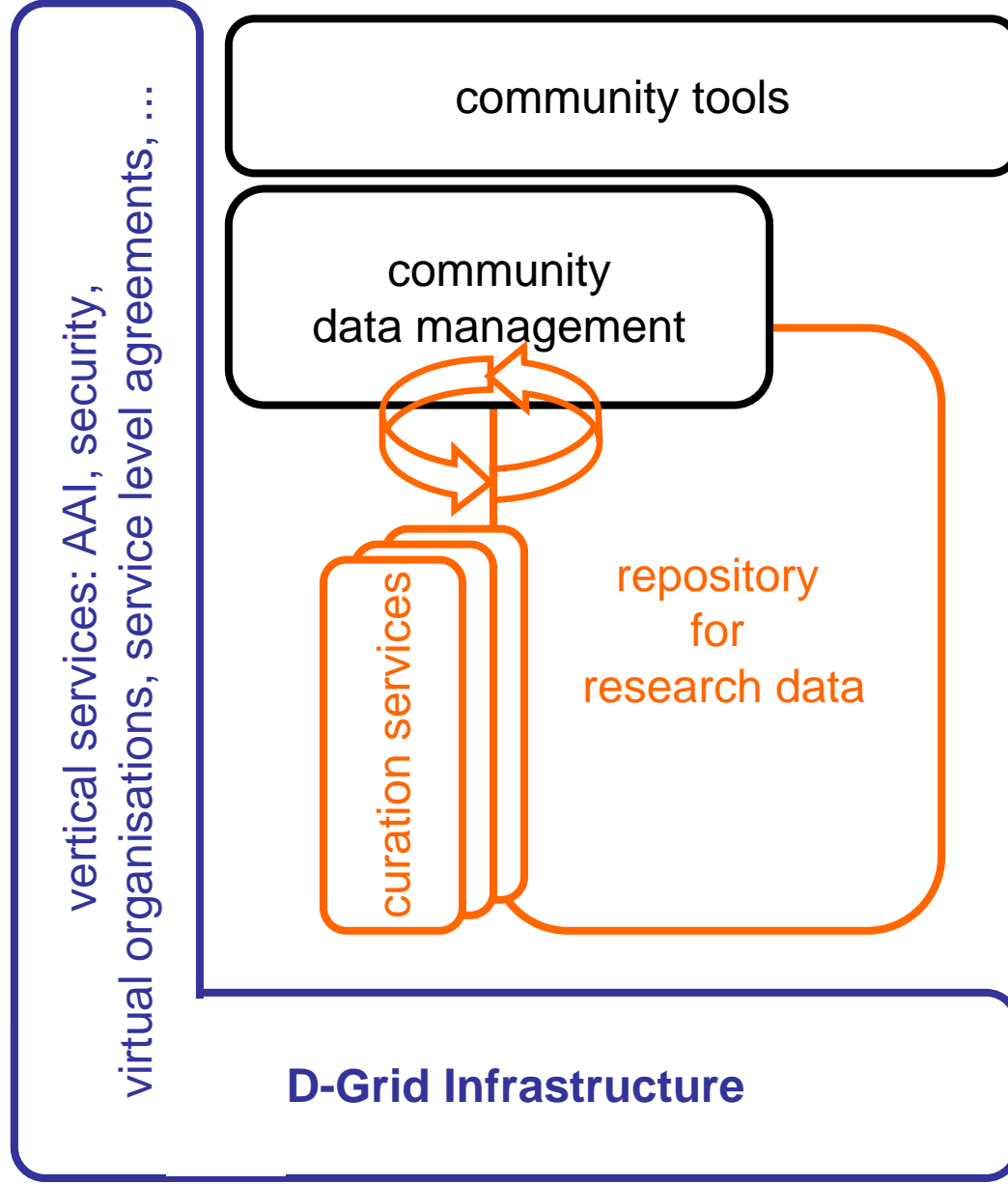
Issues: Updated recently

[More](#)

- [TG-477](#) Today 04:21 PM

- **object models**
 - foster/support interoperability (format registry, crosswalks)
- **data channels**
 - federation pattern language
- **infrastructure**

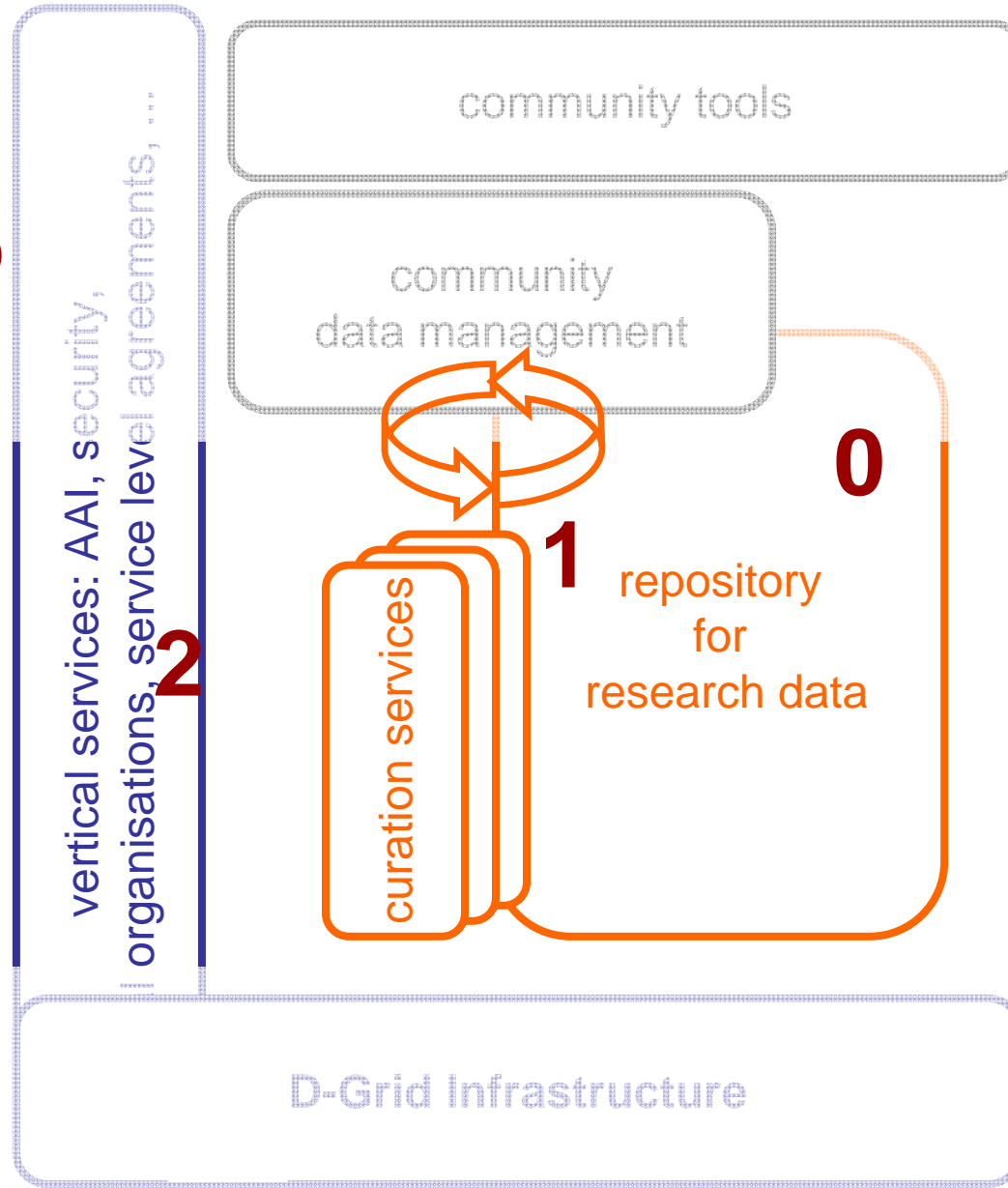




**conceptual
(representation)**

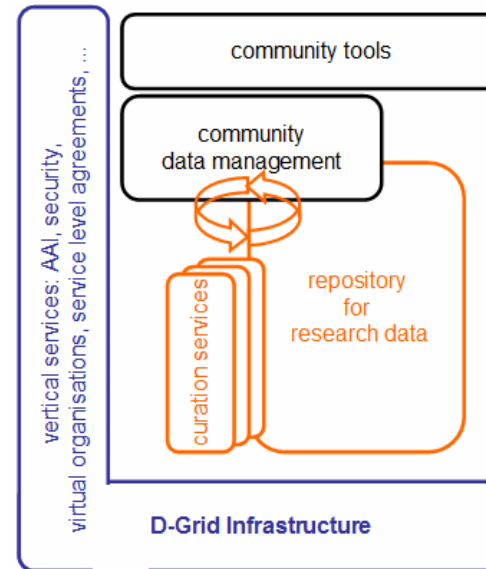
**logical
(object)**

**physical
(file)**



repository infrastructure

**data channels +
utility services +
service toolbox**



- **interoperability framework ?**
 - **interfaces**
(persistent objects / disposable systems)
 - **horizontal services**
(AAI, provenance, security)



- **object models**
- **data channels**
- **infrastructure**