

An unbroken chain

Approaches to implementing Linked Open Data in libraries

Comparing local, open-source, collaborative and commercial systems

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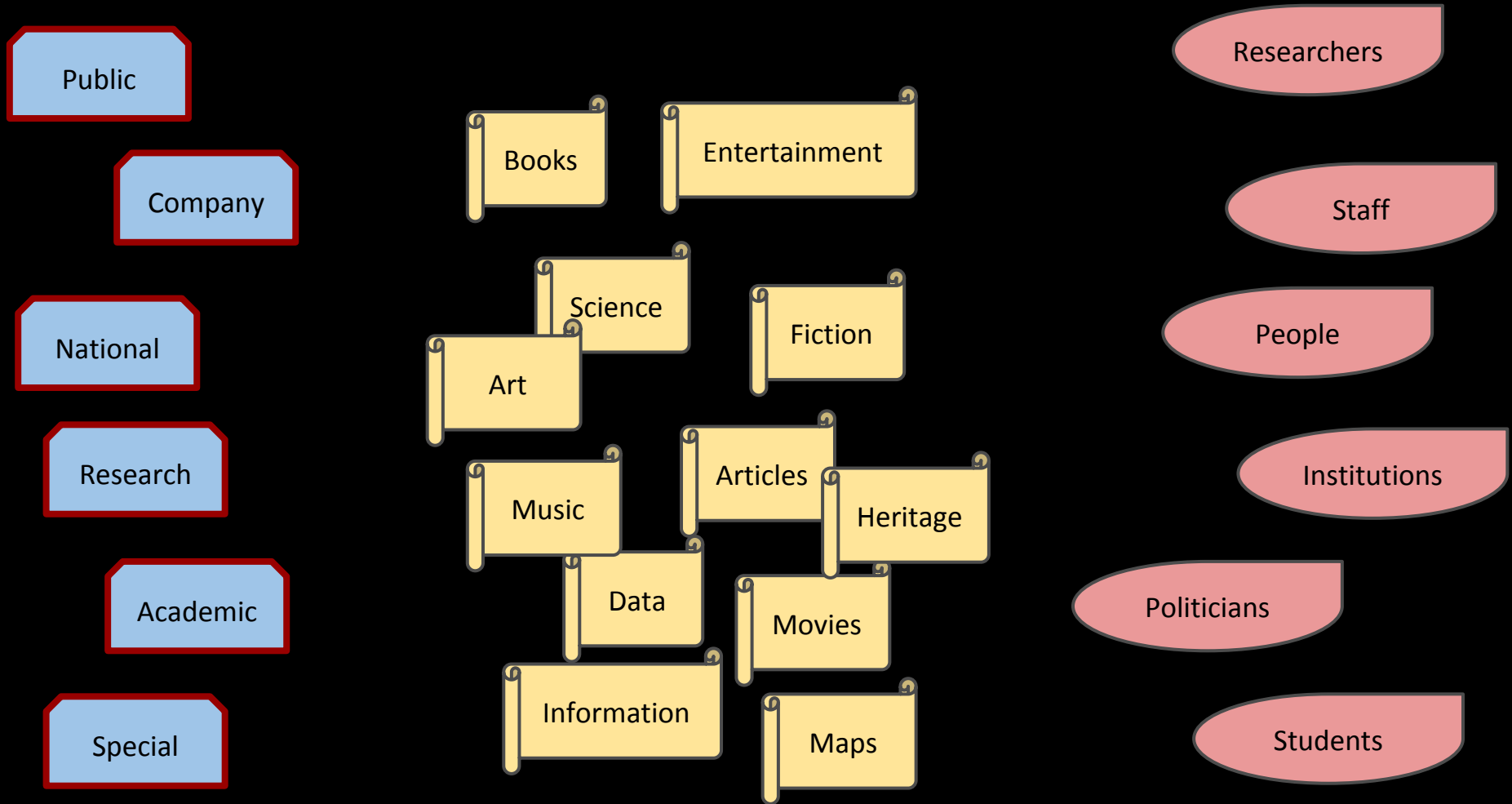
What we do

[funny pictures of chaos and tools and despair]

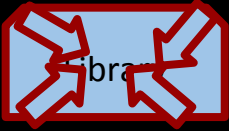
Rurik Thomas Greenall works at NTNU, the Norwegian university of science and technology with software development. The major foci for this work are REST, LOD and Web APIs. His work typically integrates components familiar from the Web and linked-data stacks as well as elements from more traditional library systems. As of August 2014, Greenall will be a member of staff at Computas AS, an IT consultancy, where he will work with semantic Web applications. He will work with Oslo public library's development team, on behalf of Computas.

As Library System Coordinator, Lukas Koster deals with commercial systems used by the Library of the University of Amsterdam for their core library workflows and functions. These systems are provided by Ex Libris: Aleph ILS, SFX Link Resolver, Primo Discovery Tool, bX Recommender Service. These systems are highly customized by local staff to fulfill local requirements. The Library of the UvA also uses a number of Open Source tools for other functions, among others, developing their own repository systems. Lukas Koster has been active in the independent International Group of Ex Libris Users IGeLU, most recently as coordinator and member of the Linked Open Data Special Interest Working Group which is working with Ex Libris to implement LOD features in their systems.

Libraries: types, content, audiences



Libraries and the Web

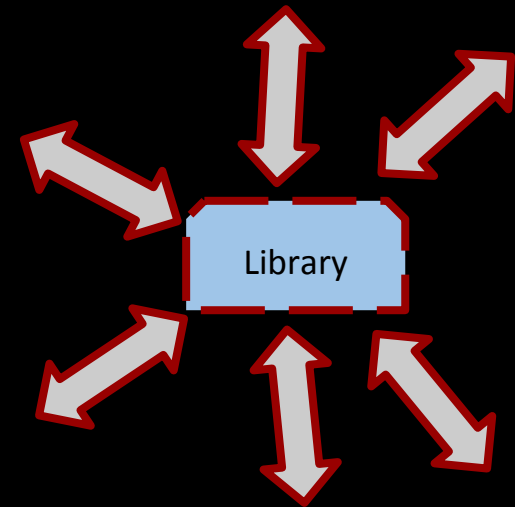


Business as usual



OR

Adapt to the Web



About Linked Open Data

RDF

Open licence/world

HTTP-URIs

Linked

Of the Web, not on the Web

LOD management options

Original RDF

Mapping (*On the fly*)

ETL (*Extract Transform Load*)

Issues with legacy data: strings, not things

Objectives for library LOD

Cataloguing/CREATING

Exposing

Consuming

Content and systems

Content : “Open Data”

“Legal” access

Currently: no access, no policy

Systems: “Linked Data”

“Actual” access

Currently: separate dedicated systems/silos

Lifecycle planning

Plan-Do-Check-Act

Plan-Design-Implement-Test-Deploy-Maintain

...

Use cases

Standards

Support

Community

Adapt

Current

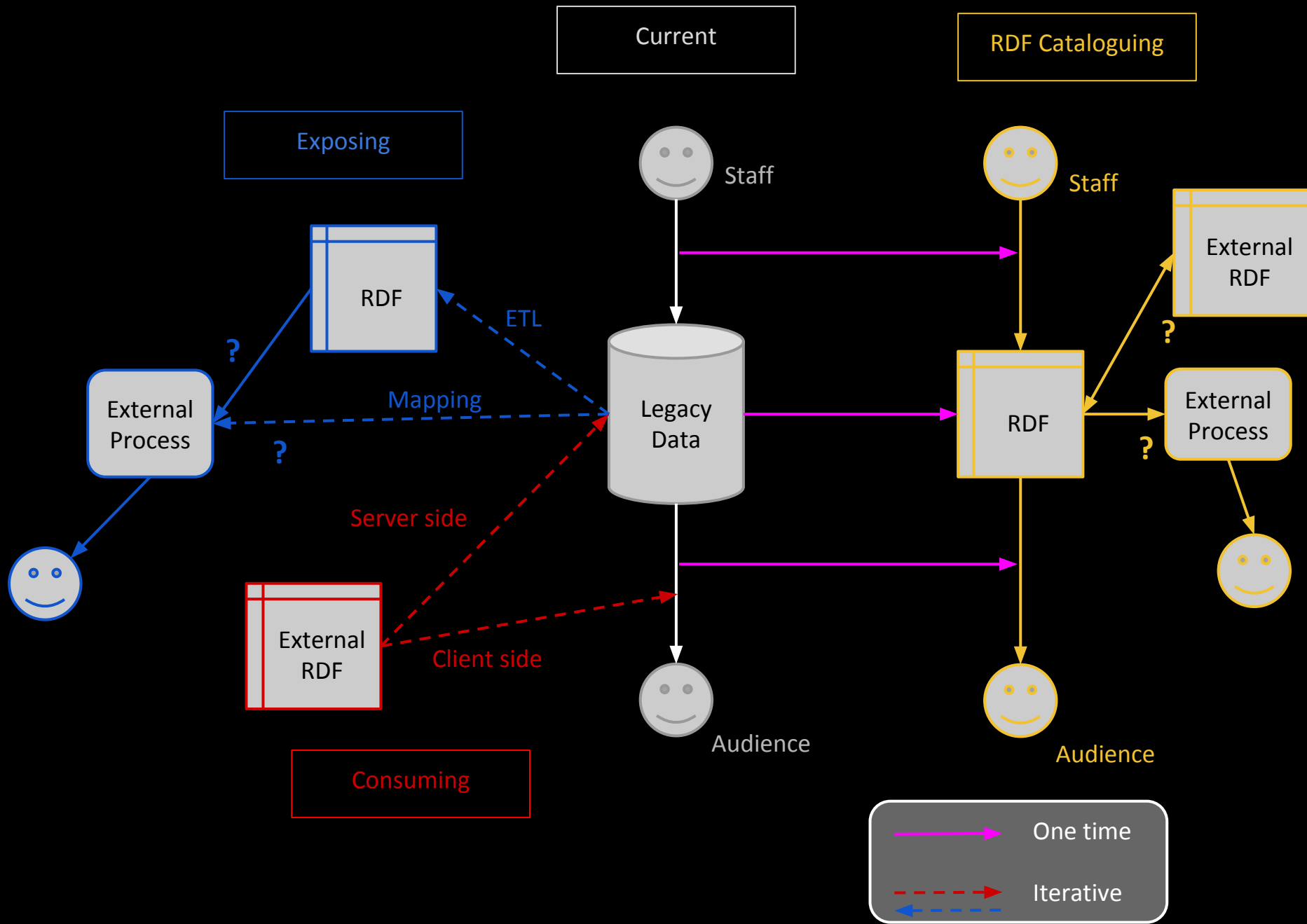


Staff



Audience





Cataloguing/CREATING LOD

What: Data/metadata

Why:

How: Original RDF

Local/FOSS: Complicated - Lifecycle planning

Consortia: Between local development, commercial systems

Commercial vendors: Waiting for BIBFRAME et al.

Current



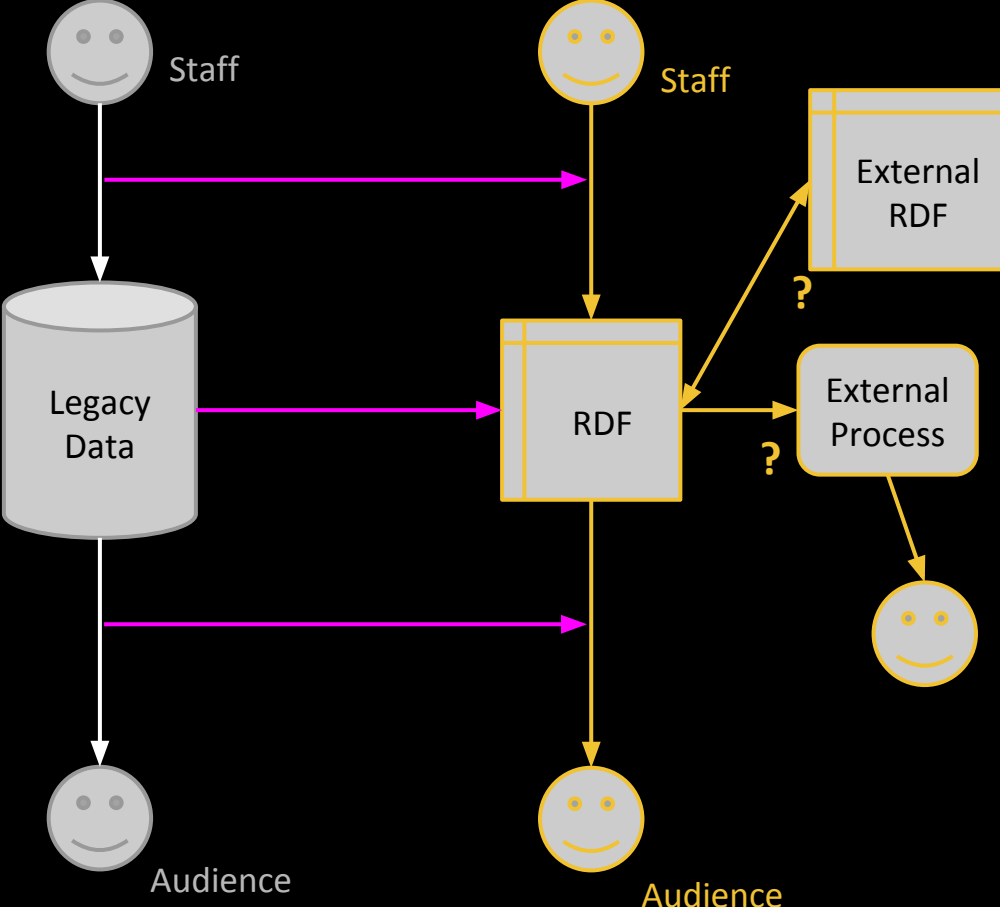
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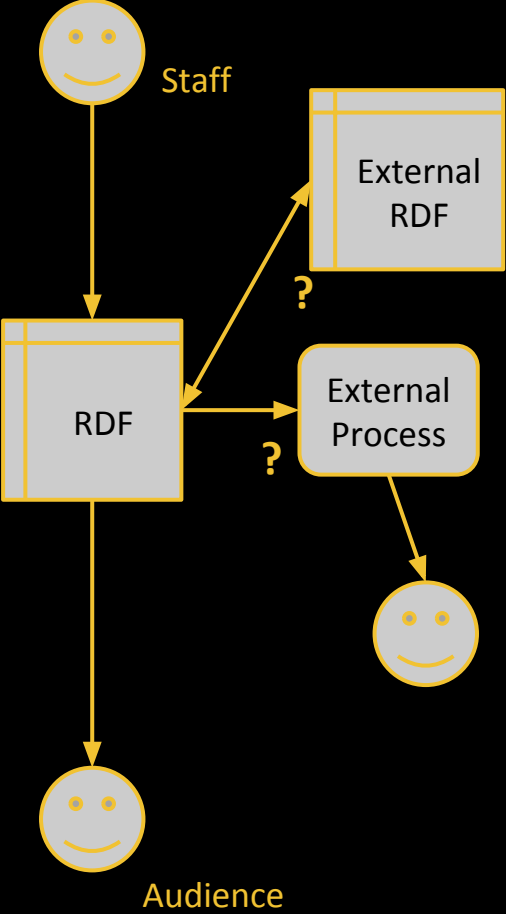
Audience



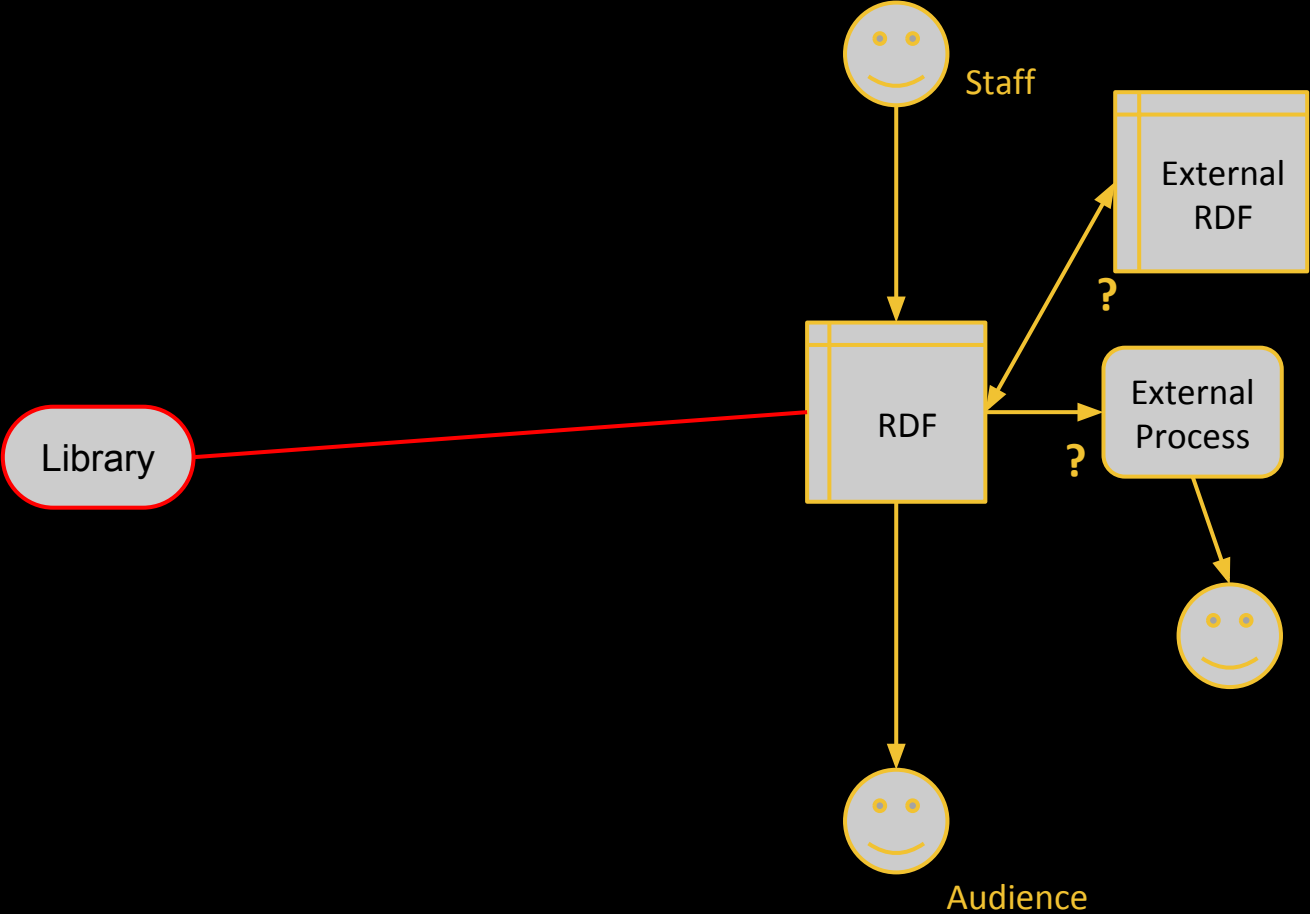
RDF Cataloguing



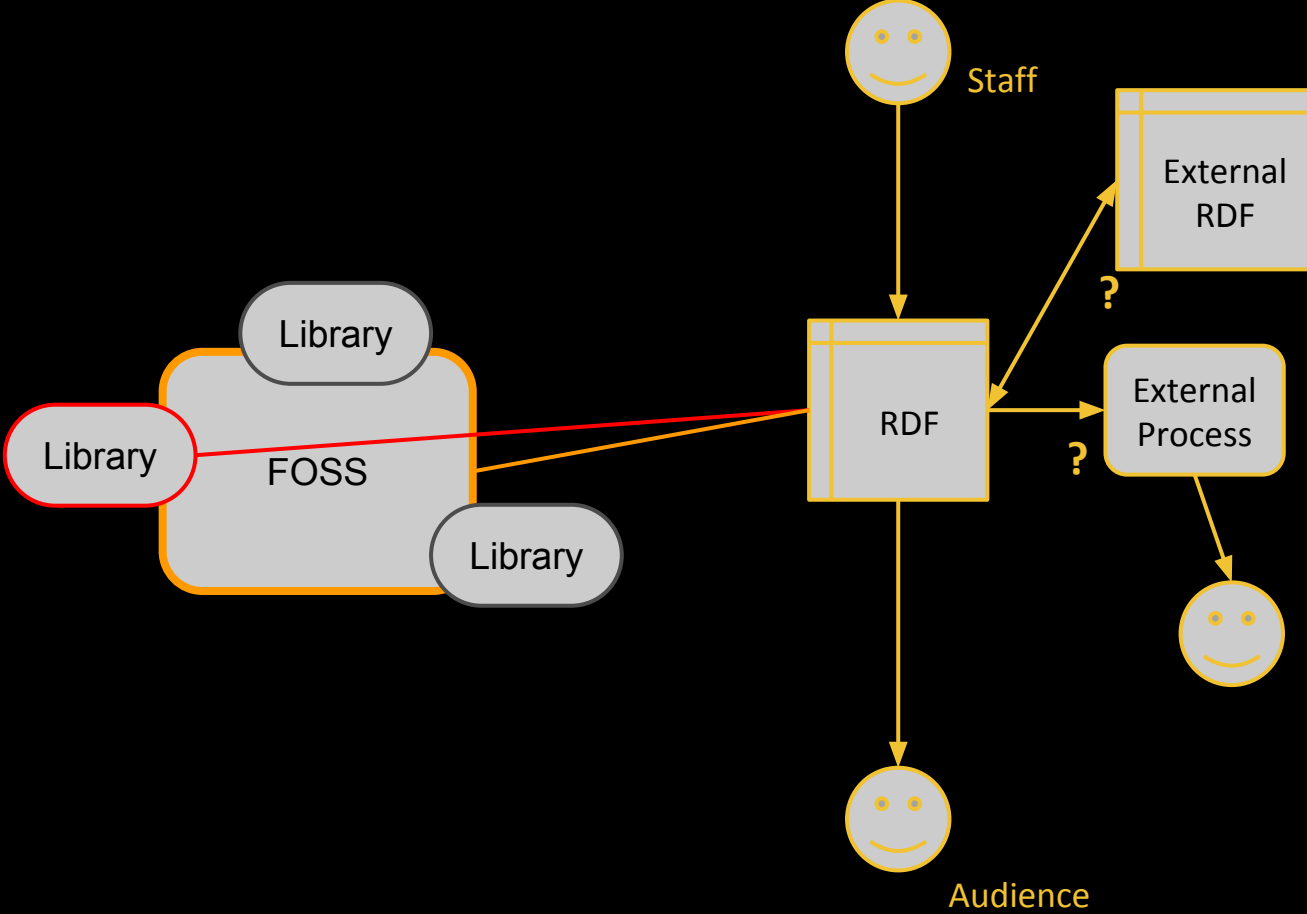
RDF Cataloguing

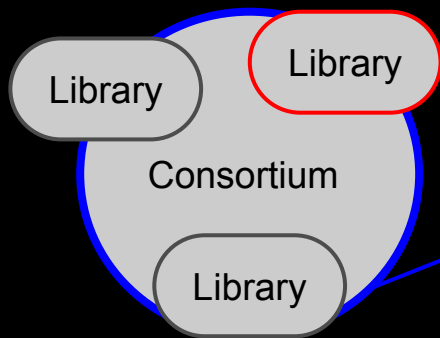


RDF Cataloguing

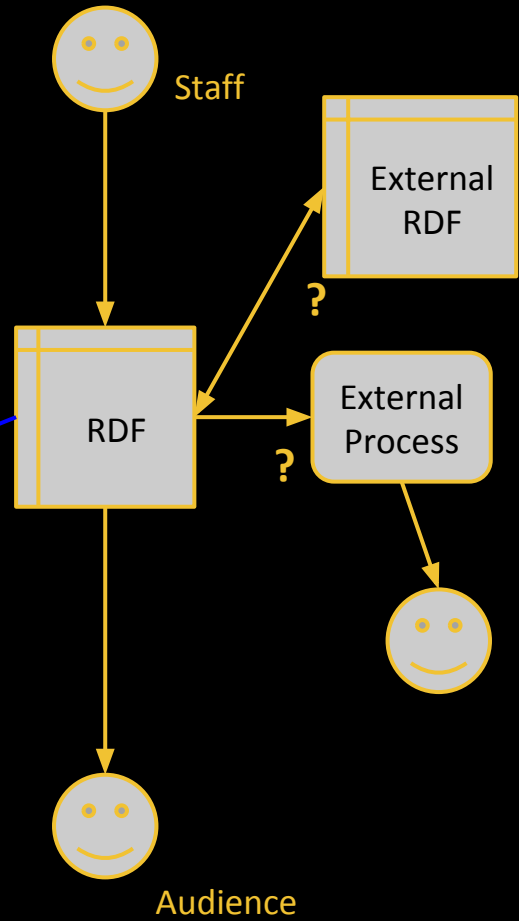


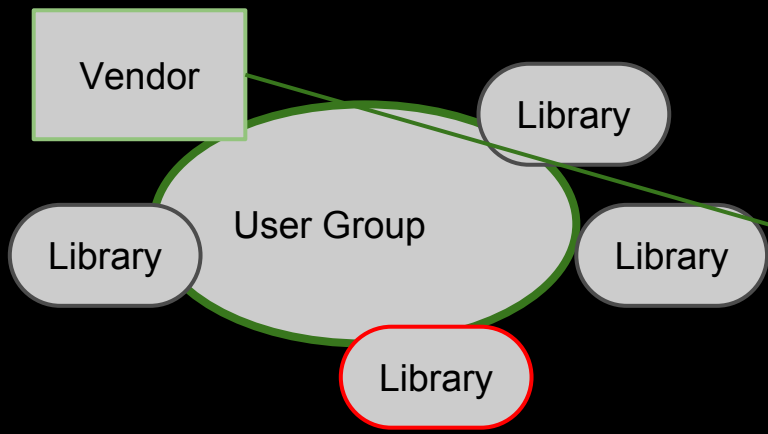
RDF Cataloguing



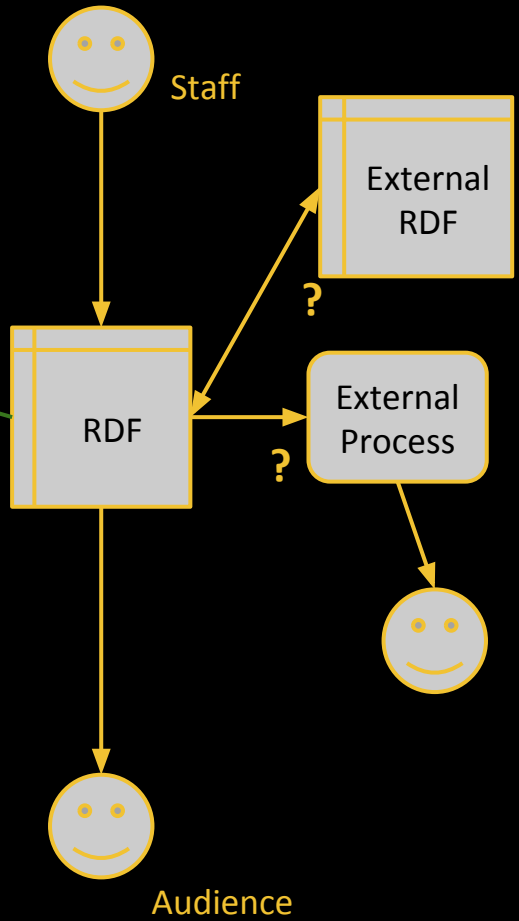


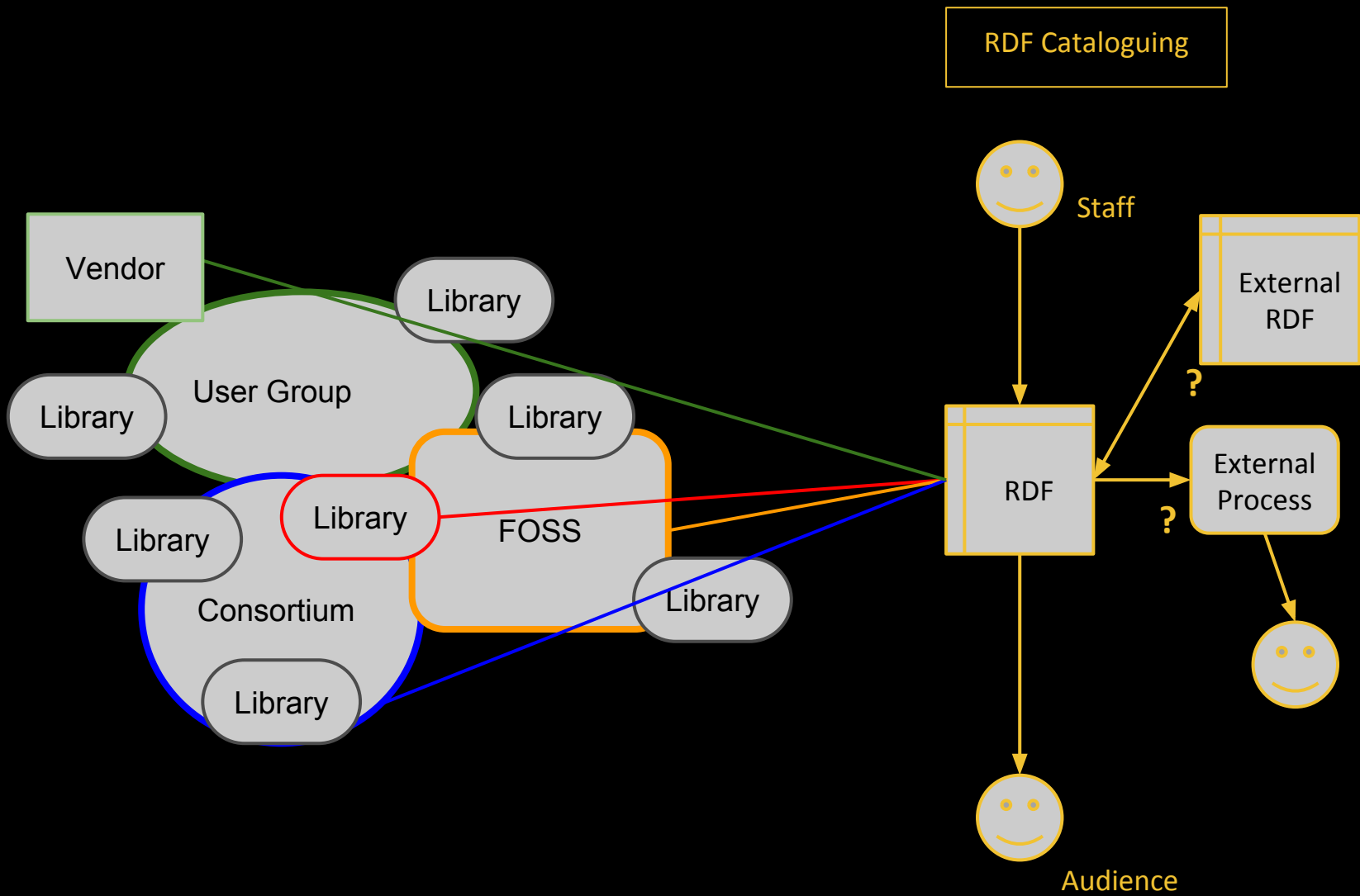
RDF Cataloguing





RDF Cataloguing





Exposing LOD

What: Local data/metadata

Why: To be used

How: Export, Sparql, mapping

Local/FOSS: Frequently done

Consortia: Frequently done

Commercial vendors: First steps

Current



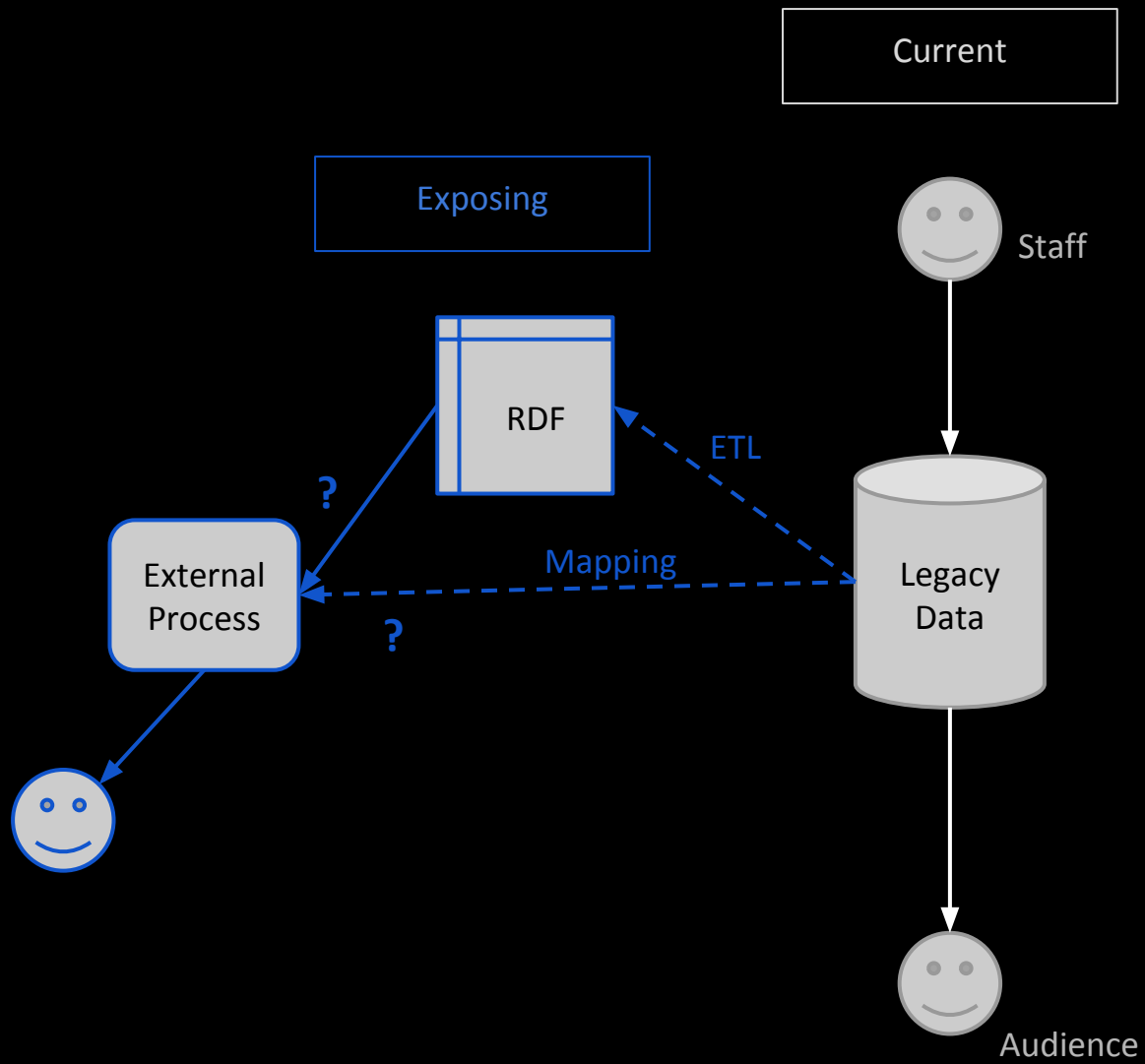
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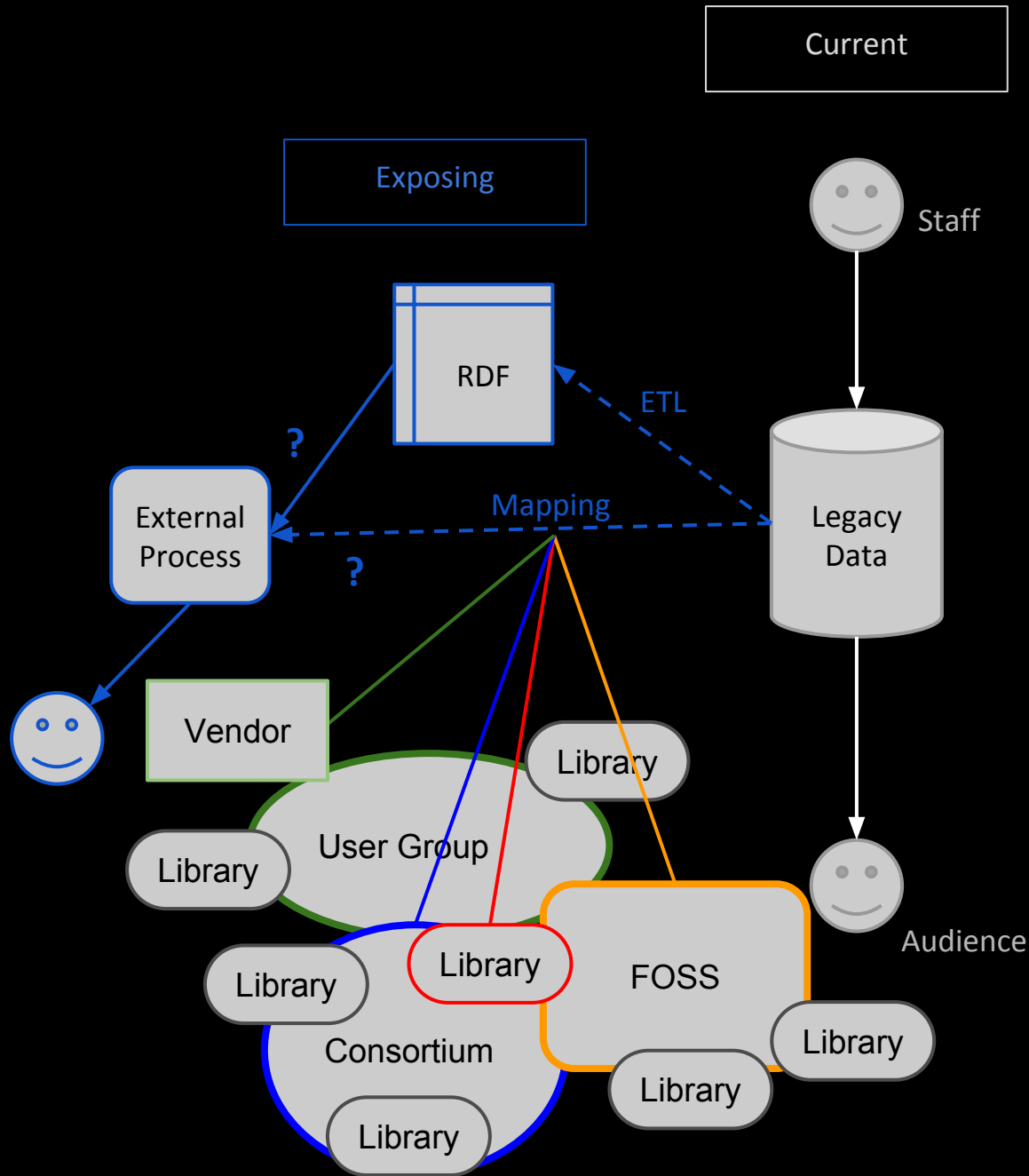


Legacy
Data



Audience





Consuming LOD

What: Enriching local data with external data

Why:

How: Query/Dereference/Embed

Local/FOSS: Diverse

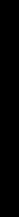
Consortia: Diverse

Commercial vendors: Not really

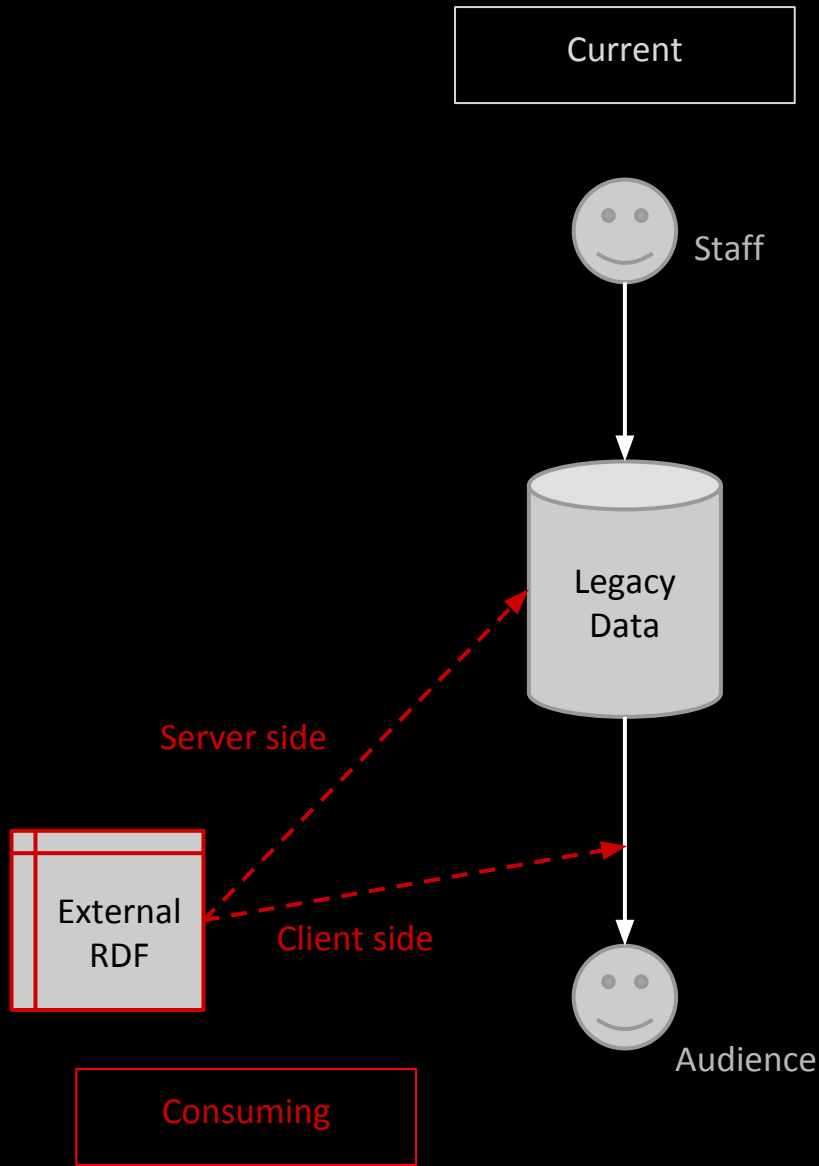
Current

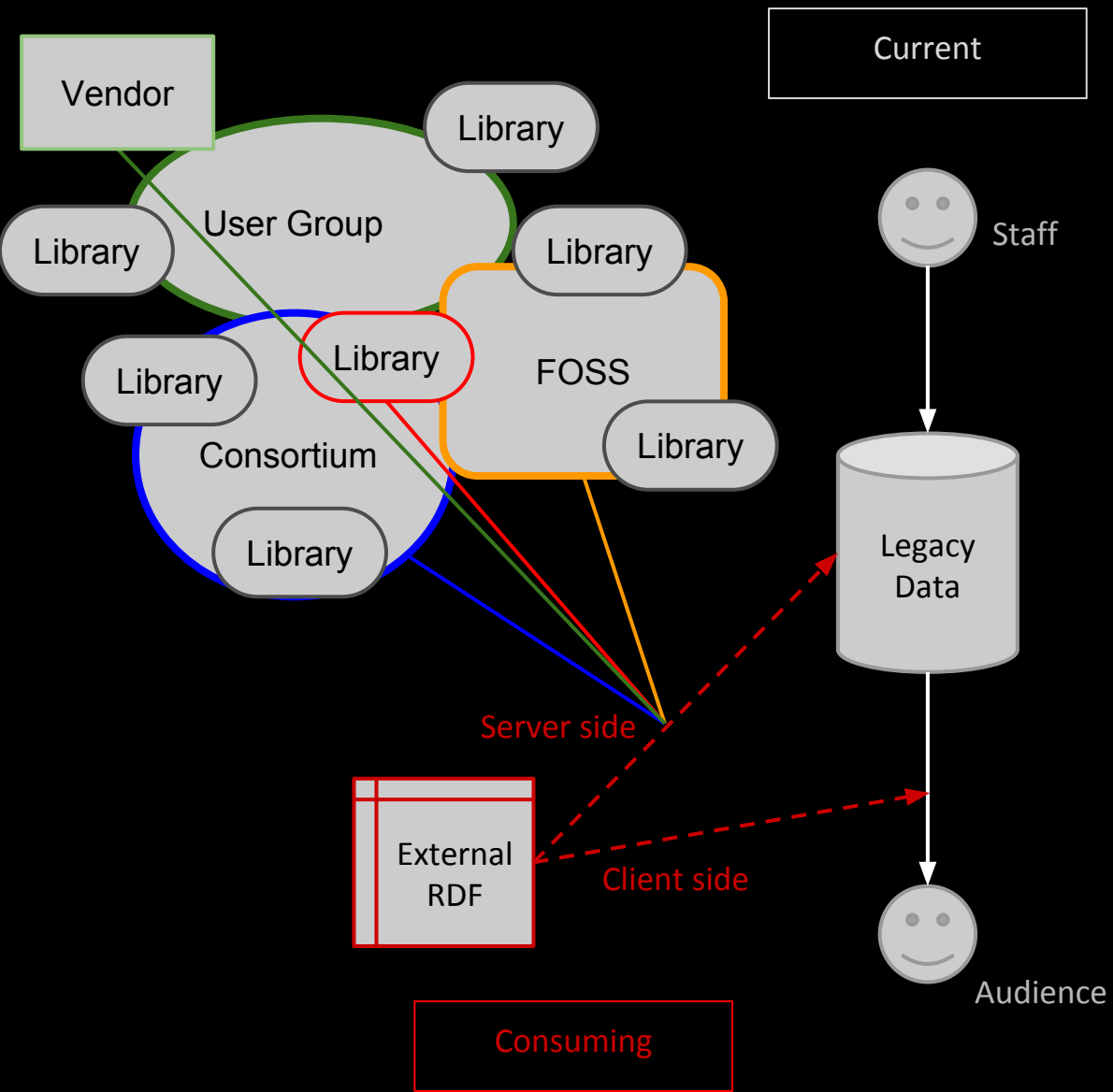


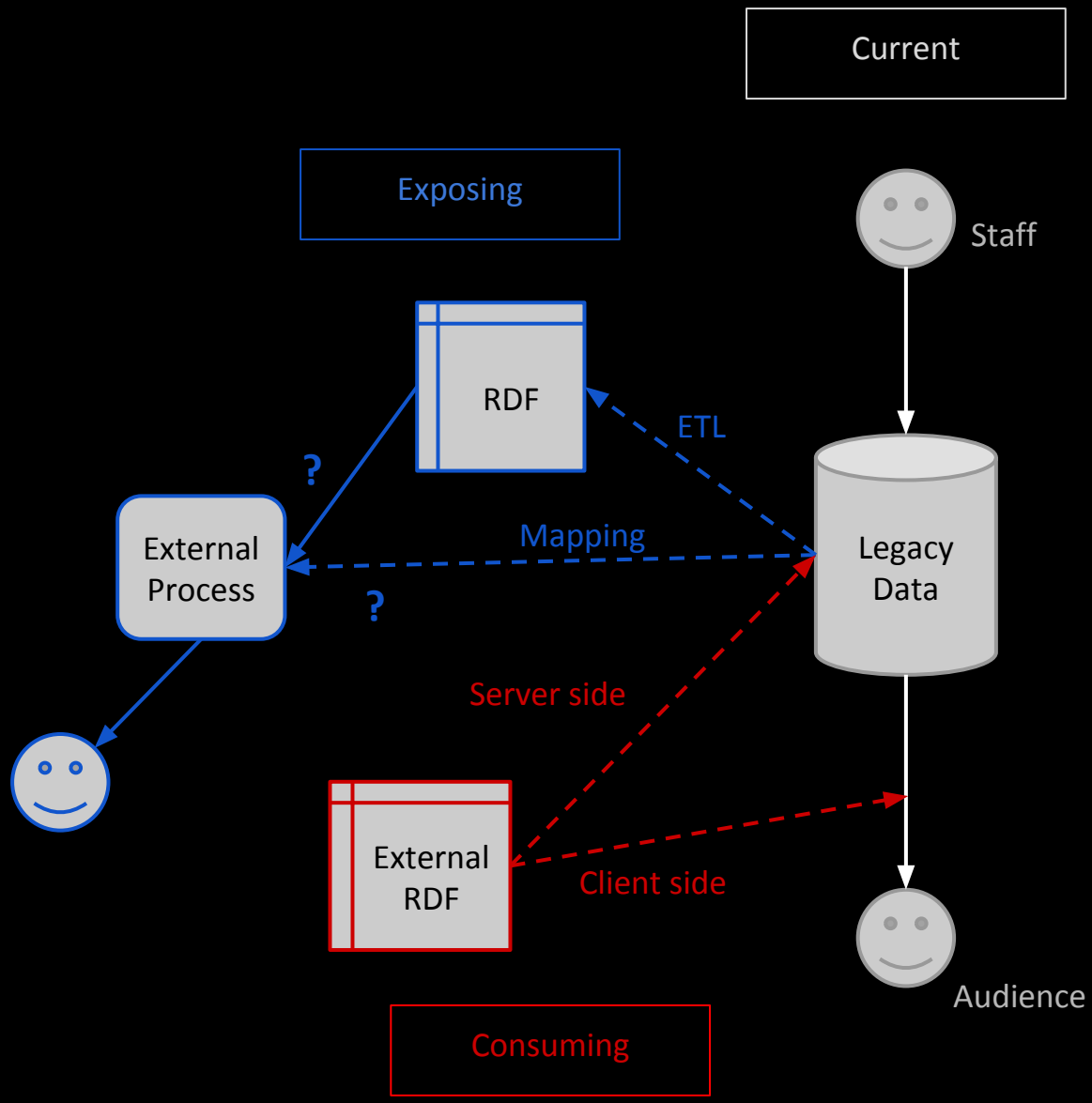
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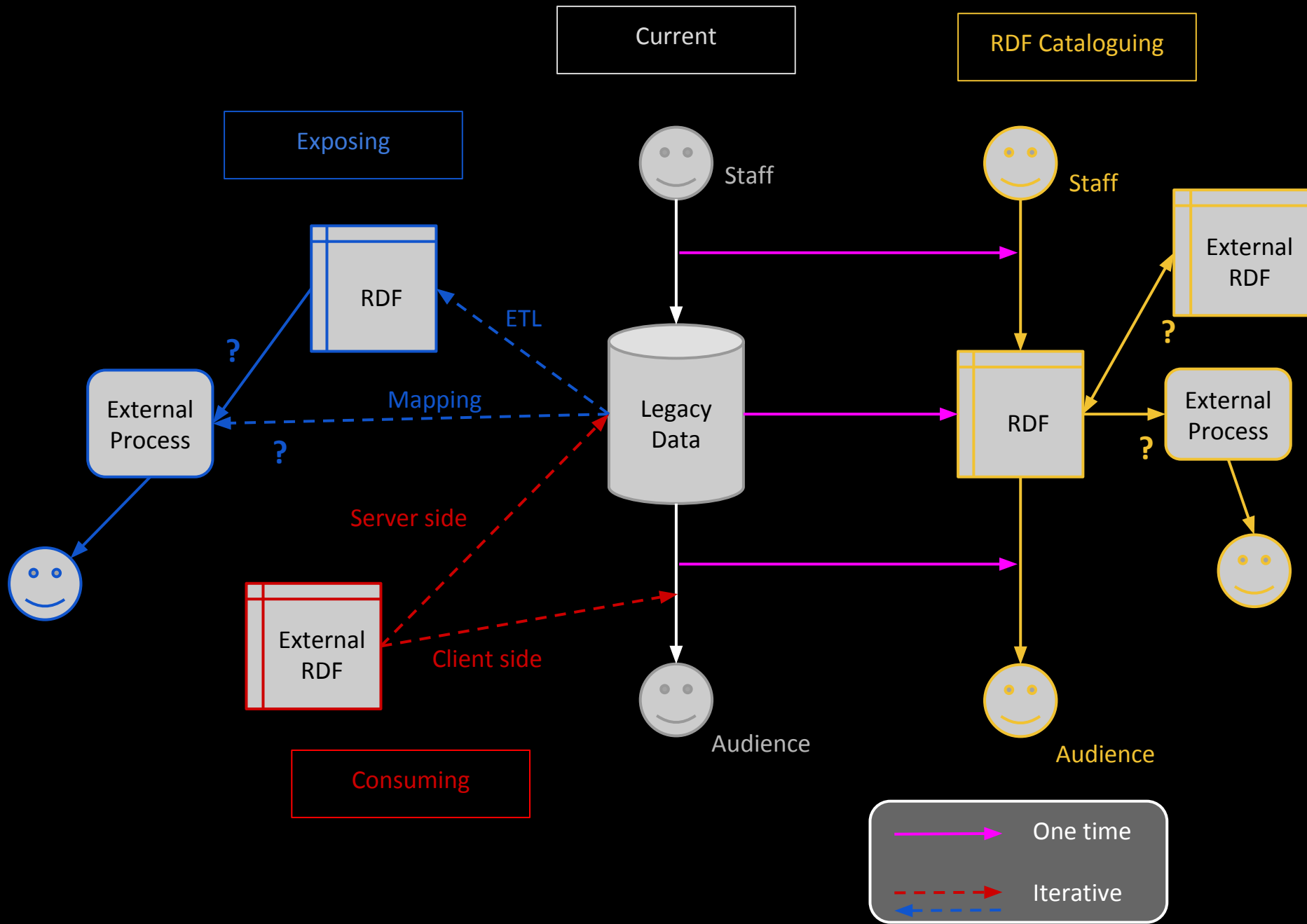


Audience









Reconciling approaches

Fulfillment

Timeframe

User base

Conclusions, recommendations

Did we mention Lifecycle planning?

Standards

Community