Linked metadata

A HLG project proposal

By the MC on Products and Sources

What is linked metadata?

- The benefits of linked data ("5-star data")
  - Identify
  - Model
  - Expose
  - Link, share, reuse
  - Activate
- Applied to metadata

Why is it relevant?

- Metadata is where most of the semantics is
- Especially important to have globally unique identification and location for metadata
- Especially important to model metadata in relation to existing standards
- Especially important to be able to link metadata (within and outside the statistical community)
- Especially important to ensure machine-actionability in order to activate metadata
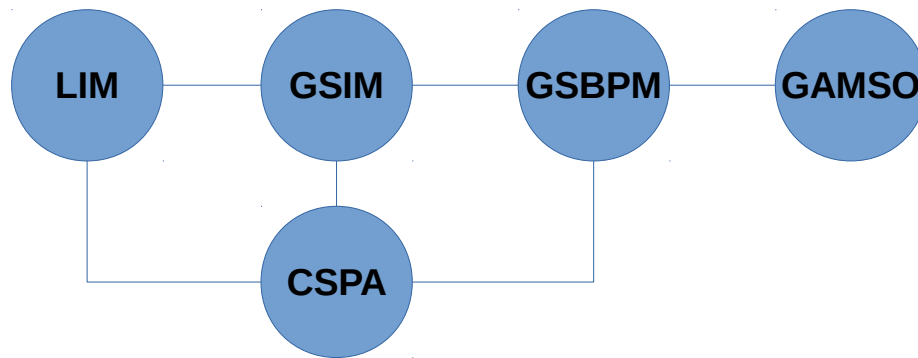
Project proposal

- Still not convinced?
  - Don't see the business case?
  - Can't see what this linked data thing is?

- Let's experiment...
  - Two concrete demo systems
    - Dissemination of core statistical metadata
    - Representation of the main HLG models

- … and learn
  - Evaluation and sustainability plan

S1 – Metadata dissemination

- We define sophisticated semantics

  – Concepts, codes, classifications

- How can we help people use it?

  – Avoid reinventing

  – Promote precise reuse

- We need efficient dissemination

  – Globally coherent

  – Standards-based

  – Machine-actionable

- Value proposition: branding of official statistics
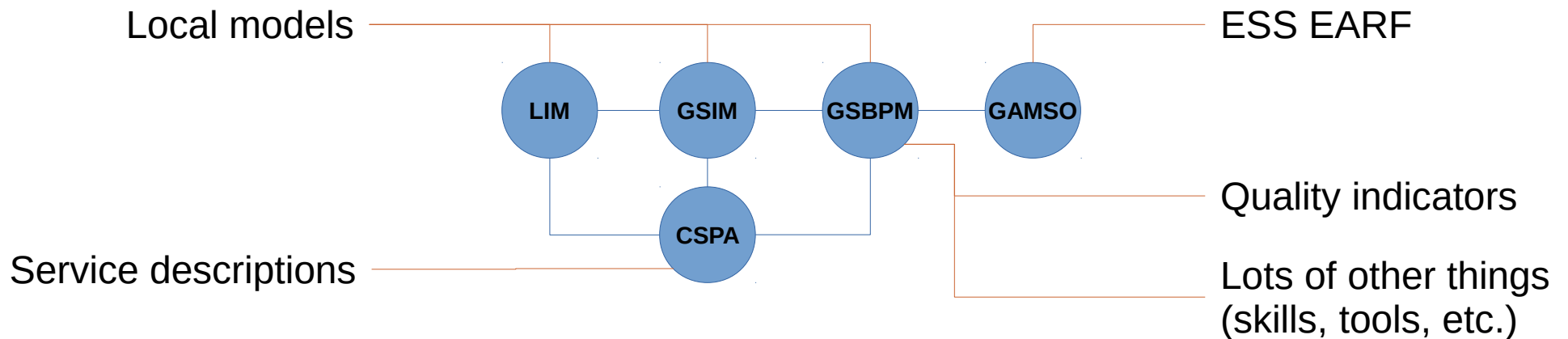
S2 – Vision implementation

- We are conceiving a coherent system

```
LIM ——— GSIM ——— GSBPM ——— GAMSO
 |          |         |
 |        CSPA --------|
 |_____|
```

- How can we implement it consistently?
- We need formal semantics

S2 – Vision implementation

- We are conceiving a reference extensible system

Local models ——————————————— ESS EARF

LIM — GSIM — GSBPM — GAMSO

CSPA

Quality indicators

Service descriptions ——————— Lots of other things (skills, tools, etc.)

- How can we maximise its shareability?

- We need open, global, machine-actionable formats

- Value proposition: HLG branding, "the new MCF"

Project work packages

- WP1 – metadata dissemination

  - Activity 1.1 Specify the content and its representation

  - Activity 1.2 Create the linked metadata set

  - Activity 1.3 Create a demo tool to query and visualize the metadata

  - Activity 1.4 Showcase of usage of the system in statistical offices dissemination

- WP2 – HLG models

  - Activity 2.1 Specify the system (use cases, data models)

  - Activity 2.2 Build the system (RDF database, implementation of selected use cases)

- WP3 – Evaluation & sustainability plan

Links with other operations

- Links with other project proposals
  - GSIM variables
  - Roadmap for implementing standards
- Links with other initiatives
  - Work on glossaries (MC on Standards, SDMX)
  - CSPA development and catalogue
  - MC on Production & Methods
  - ESS.VIP DIGICOM
  - Academic world (e.g. SemStats workshop)

Thank you