

ModernStats standards supporting the implementation and sharing of statistical services

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- **ESSNet** Sharing Common Functionalities for ESS
- **Unece** Sharing Tools Modernization Group



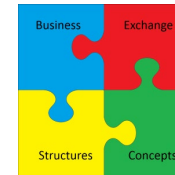
ESSNet I3S - Implementing Shared Statistical Services

Main goal: **developing and sharing** reusable software solutions

Official Statistical Standards

Conceptual Framework							
IDENTITY	DESCRIPT	RELATE	COMPARE	ANALYZE	EXPLAIN	INTERPRET	ACT
1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1
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1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1
1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1

GSBPM



GSIM



CSPA

Open source

- Use open source frameworks
- Use github to share source code

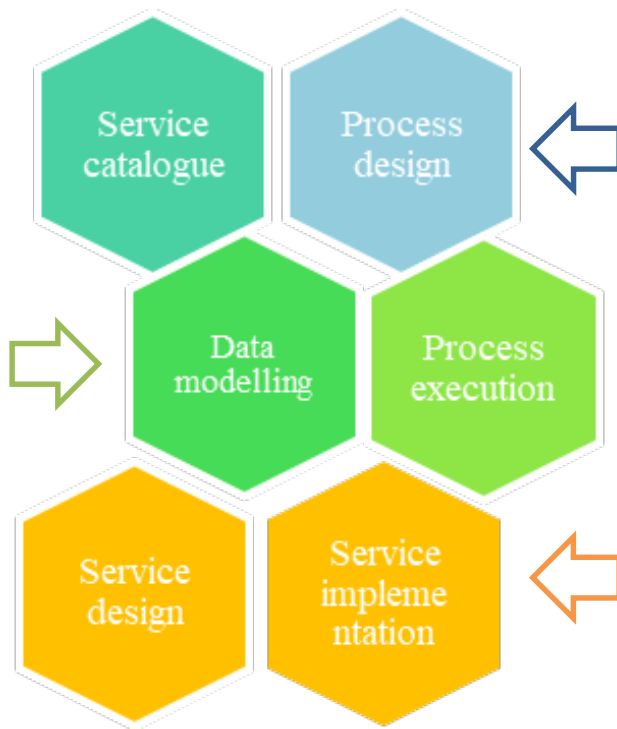


Hands on

- Cooperate, improve Quality & Trust
- Deliver shareable statistical services

GSIM

- ✓ Model data and metadata
- ✓ Connect services
- ✓ Enhance service reuse



GSBPM

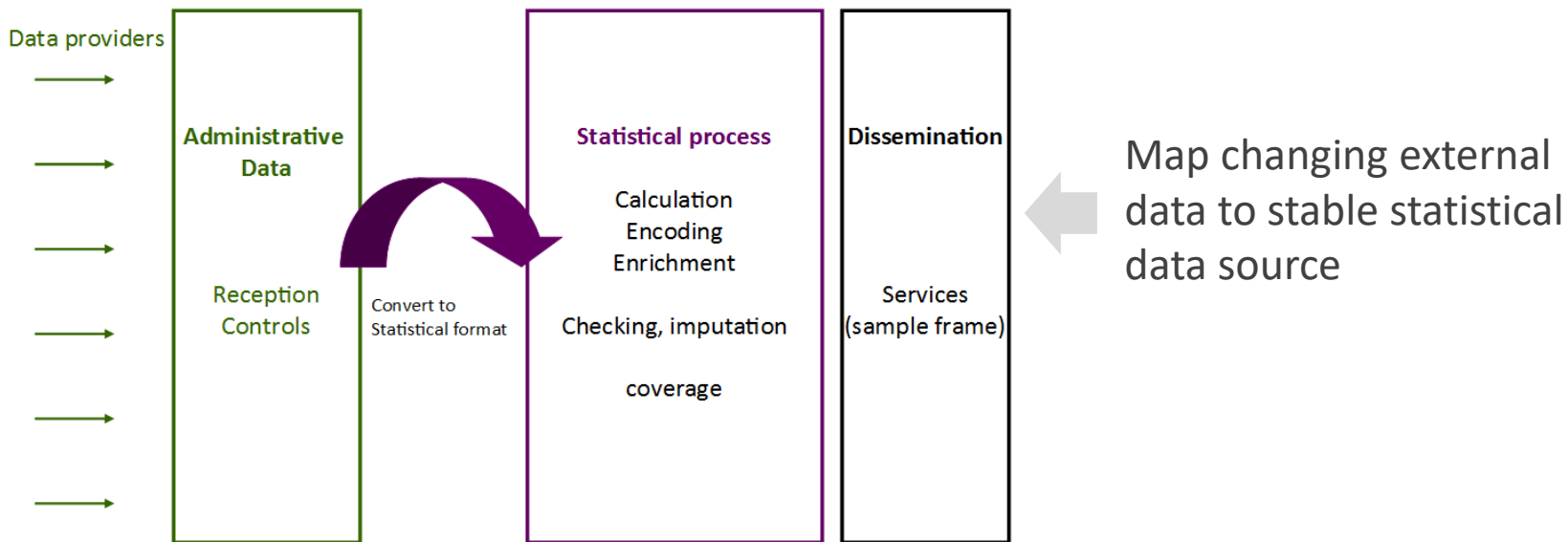
- ✓ Match statistical services and process phases
- ✓ Model process steps
- ✓ Define core logic, at business level

CSPA

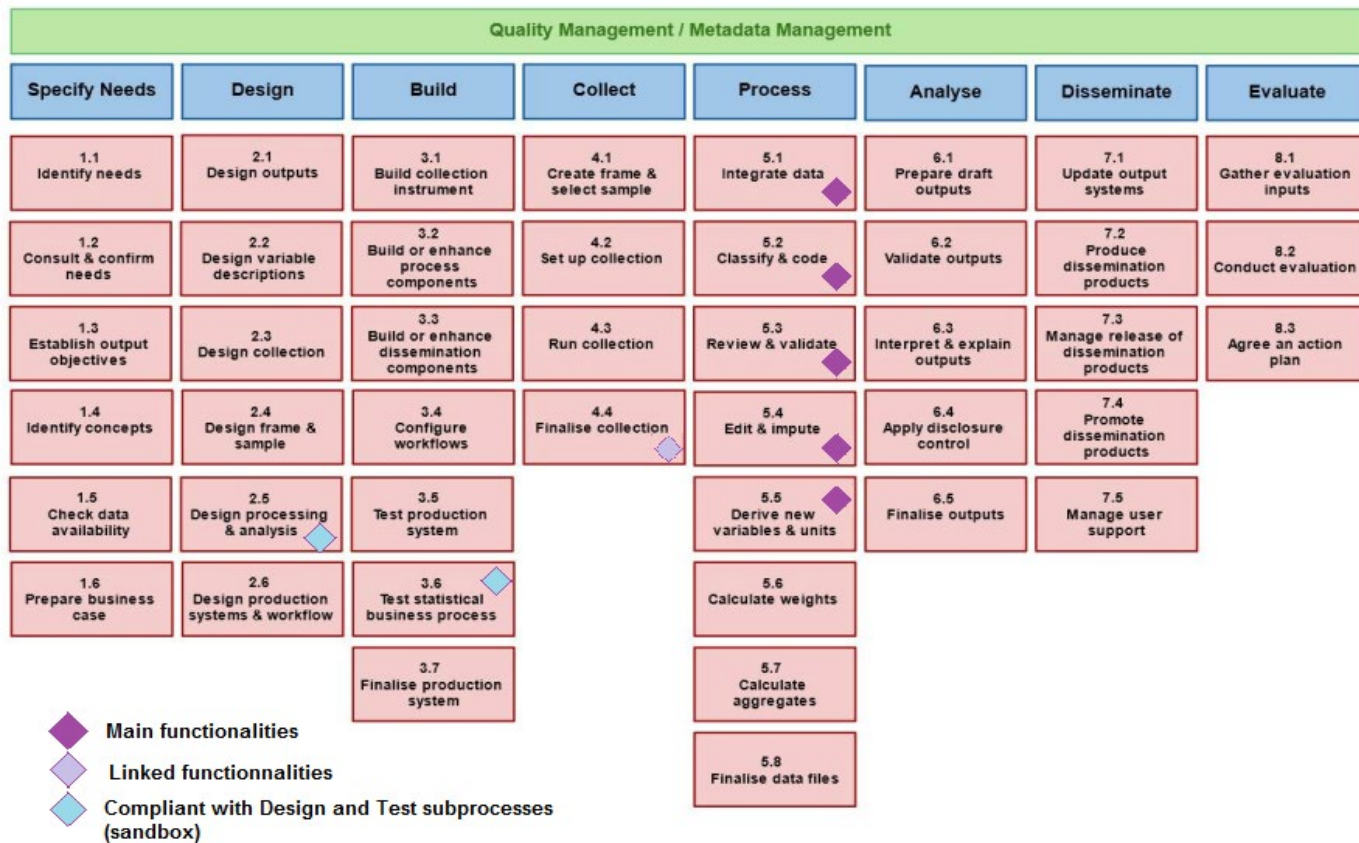
- ✓ Principles for sharing
- ✓ Service design principles
- ✓ Service implementation: core logic and features

ARC (Acquisition – Recéption - Contrôles)

Allows to **receive data** supplied by the providers, to **control the compliance** of the received files, and to **transform input data into elementary statistical entities**.

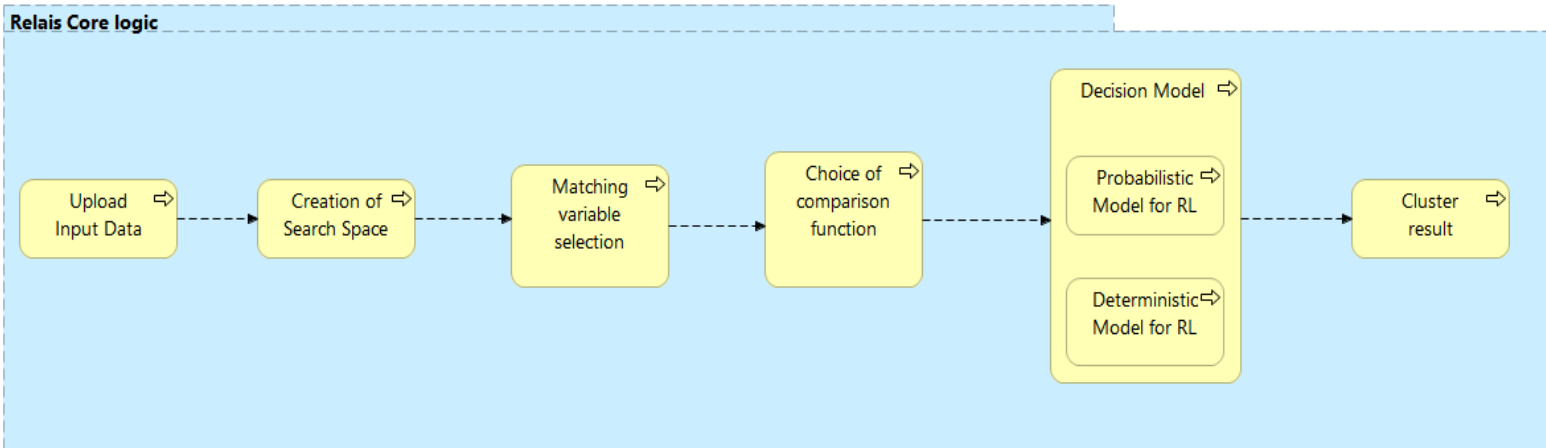


Statistical service: ARC (2/2)



Relais (Record linkage at Istat)

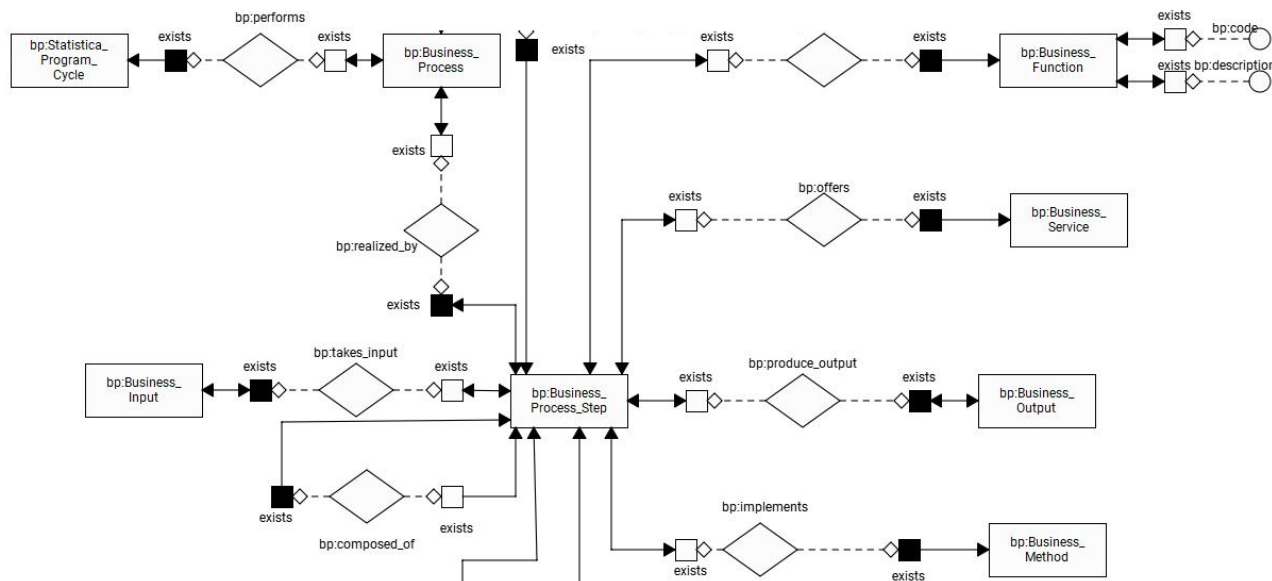
Relais provides an integrated environment to solve record linkage problems. It has been implemented assuming that a record linkage process may result from the combination of different sub-phases, to achieve the best data integration solution.



New version on Relais: GSIM concepts



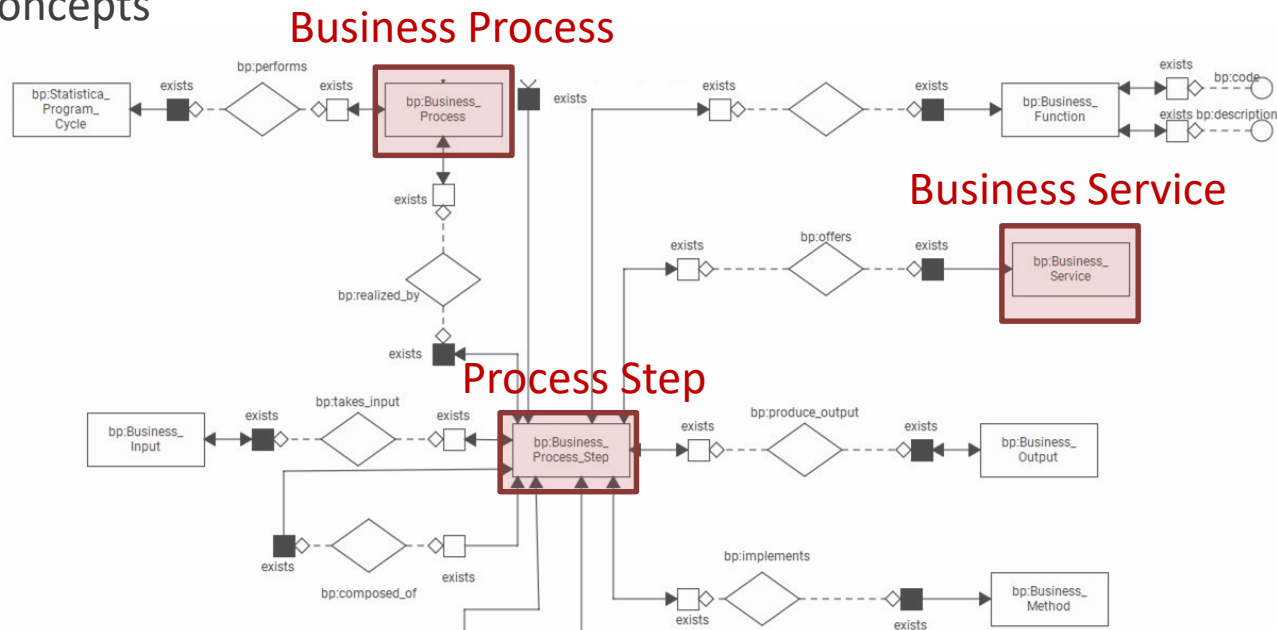
In the new version of Relais, data and metadata are modelled according to GSIM concepts



New version on Relais: GSIM concepts

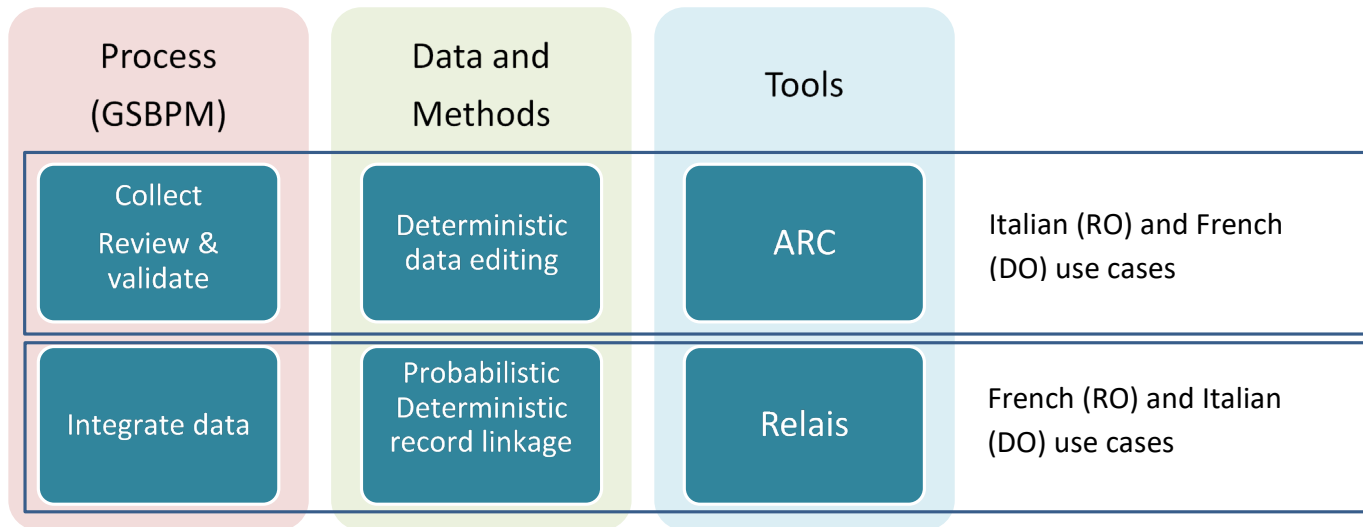


In the new version of Relais, data and metadata are modelled according to GSIM concepts



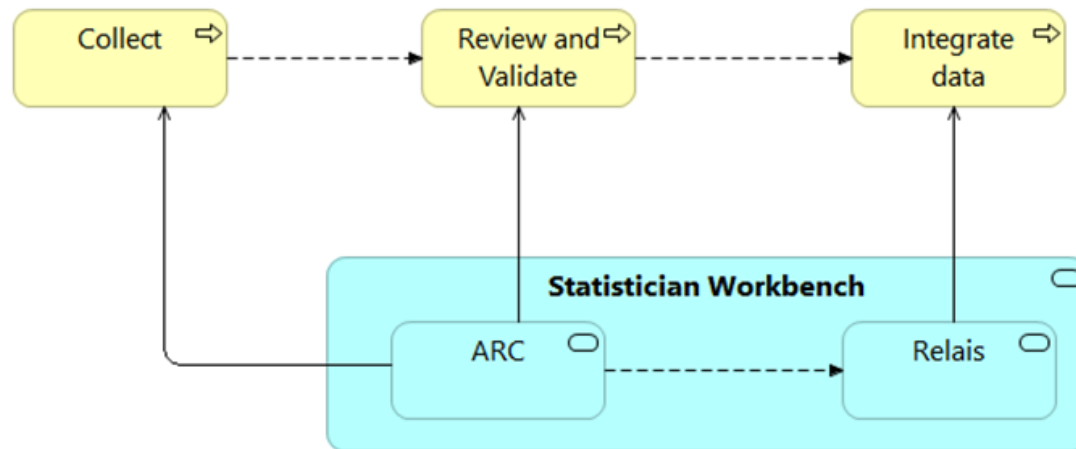
Service reuse

One of the lessons learnt is that the **adoption of statistical standards for service implementation also enhances the service reuse from other organizations.**



Service integration

The close cooperation between ARC and RELAIS teams has resulted in a much higher level of quality and functionality of both services. They are now associated in a common framework that could prefigure a future "**statistician workbench**" with shared user interface, process parameter definition, data access methods, etc.



In the end...

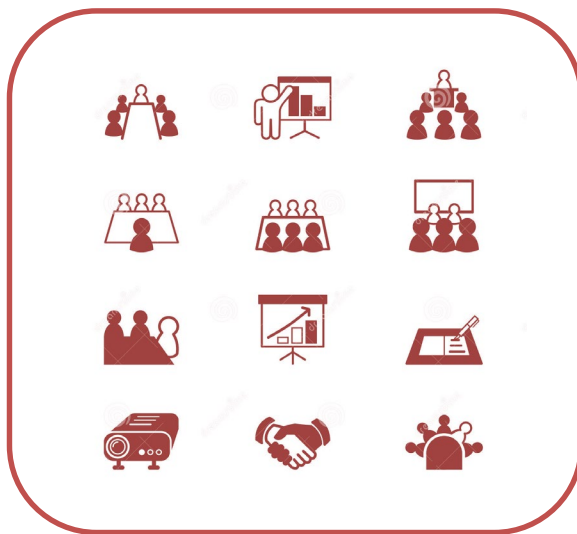
The final workshop of I3S ESSNet will be held in Lisbon in May 2021

Training sessions

Hands-on sessions

Project results

Discussions



Meet Consortium countries

Experts groups

Presentations

Looking forward to see you all in Lisbon!