

## Semantic Interoperability Maturity Assessment of a Public Service



### What is SIMAPS?

**Semantic interoperability** ensures that the precise format and meaning of exchanged data and information is preserved and understood throughout exchanges between parties.

- SIMAPS is an online self-assessment tool that allows public service owners to **evaluate the behavioral interoperability maturity** of their digital public services from **the semantic interoperability viewpoint**.
- SIMAPS provides an **interoperability maturity score** combined with recommendations and good practices for improving the **overall semantic behavioral interoperability** maturity of digital public services.



### For whom is SIMAPS relevant?

- **Data experts** | to provide information on existing and reusable data sets, data models and core vocabularies on their use.
- **Public service owners** | to improve the overall semantic interoperability and conformance of their digital public services.
- **Business Architects** | to help analyse and document the processes and data flows for the smooth data exchange among services.



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### What is in for you?

- Ensures alignment of digital public services with the standards of the **European Interoperability Framework (EIF)**.
- SIMAPS provides **insight into the current interoperability maturity**, as well as guidance for the design of future digital public services.
- **SIMAPS** can be used for assessing the **legal interoperability of any digital public service** in the EU e.g. semantic alignment of data exchanged between an electronic public procurement platform and the TED eNotices platform of EU.



### SIMAPS Conceptual Model

- The SIMAPS conceptual model describes all possible instances where **interoperability with the outside world may occur from the digital public service viewpoint**.
- It distinguishes between **the internal domain** (the internal service management) and the **external domain** (the digital public service uses/consumes existing services and exposes the produced service to thirds).



### Digital Public Service Components

The SIMAPS assessment captures three different service areas:

- **Service Identification:** scopes the digital public service e.g. service outcome, service owner, administrative level, etc.
- **Service Delivery:** focuses on how the data of the digital public service is delivered to its end-users or other services e.g. data format, semantic agreements, etc.
- **Service Consumption:** focuses on the data consumed by the digital public service from other services e.g. semantically aligned data, code lists, etc.