



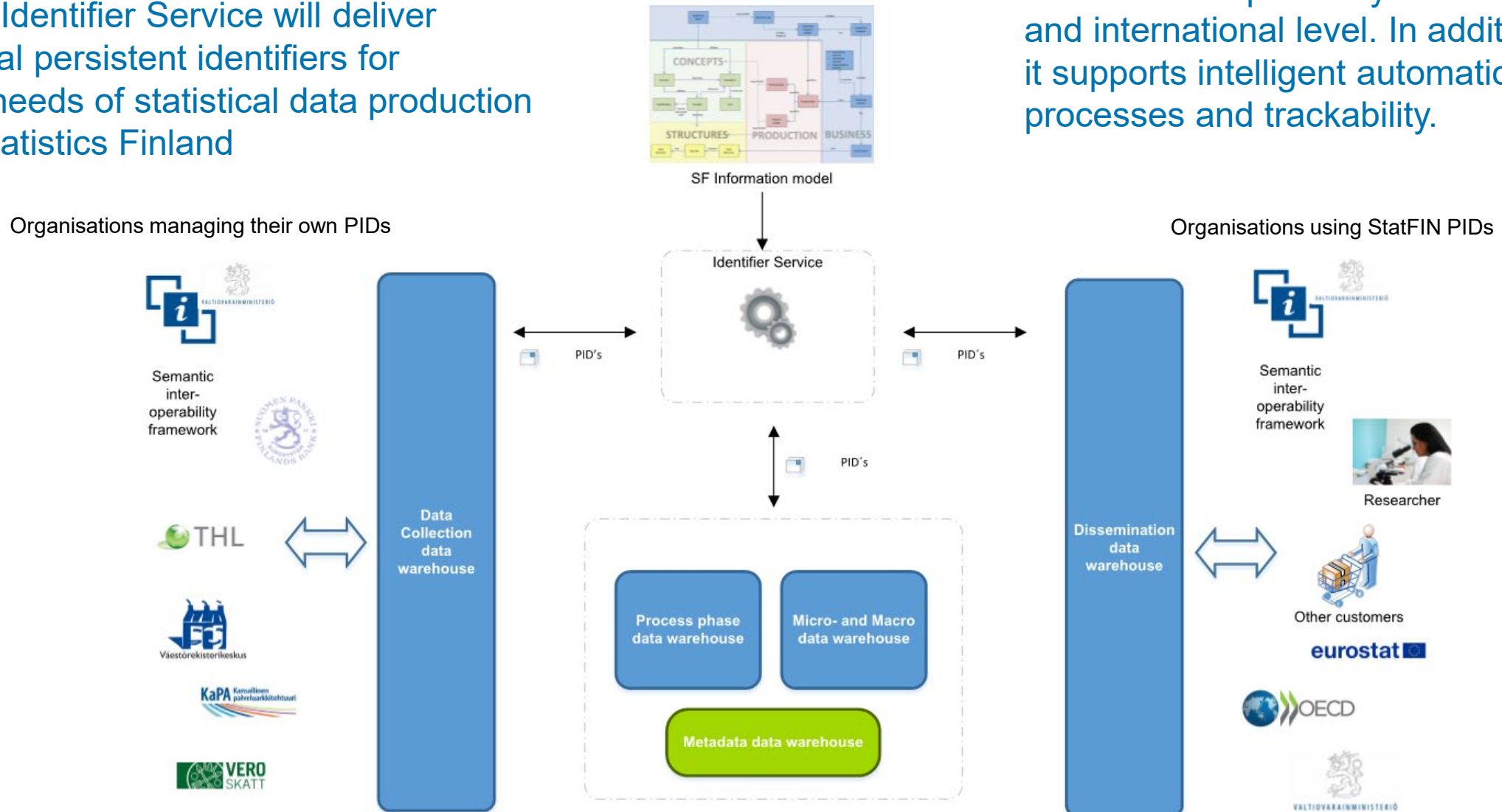
Identifier Service developed in NSO Finland
including GSIM-based information objects

ModernStats World Workshop 2019

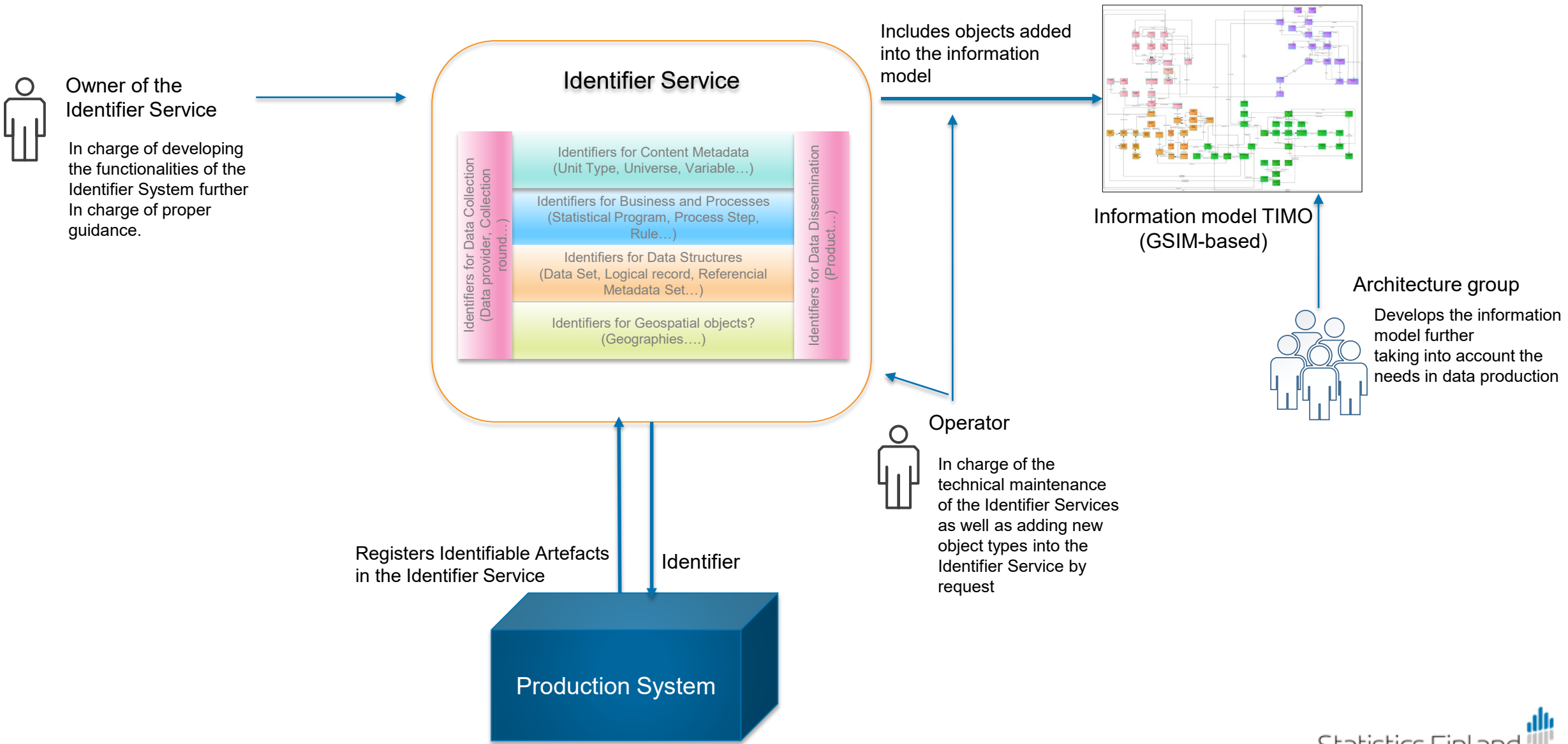
The Identifier Service: vision

The Identifier Service will deliver global persistent identifiers for the needs of statistical data production in Statistics Finland

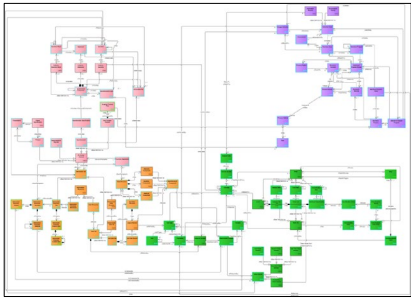
Thereby The Identifier Service enables interoperability at national and international level. In addition, it supports intelligent automation of processes and trackability.



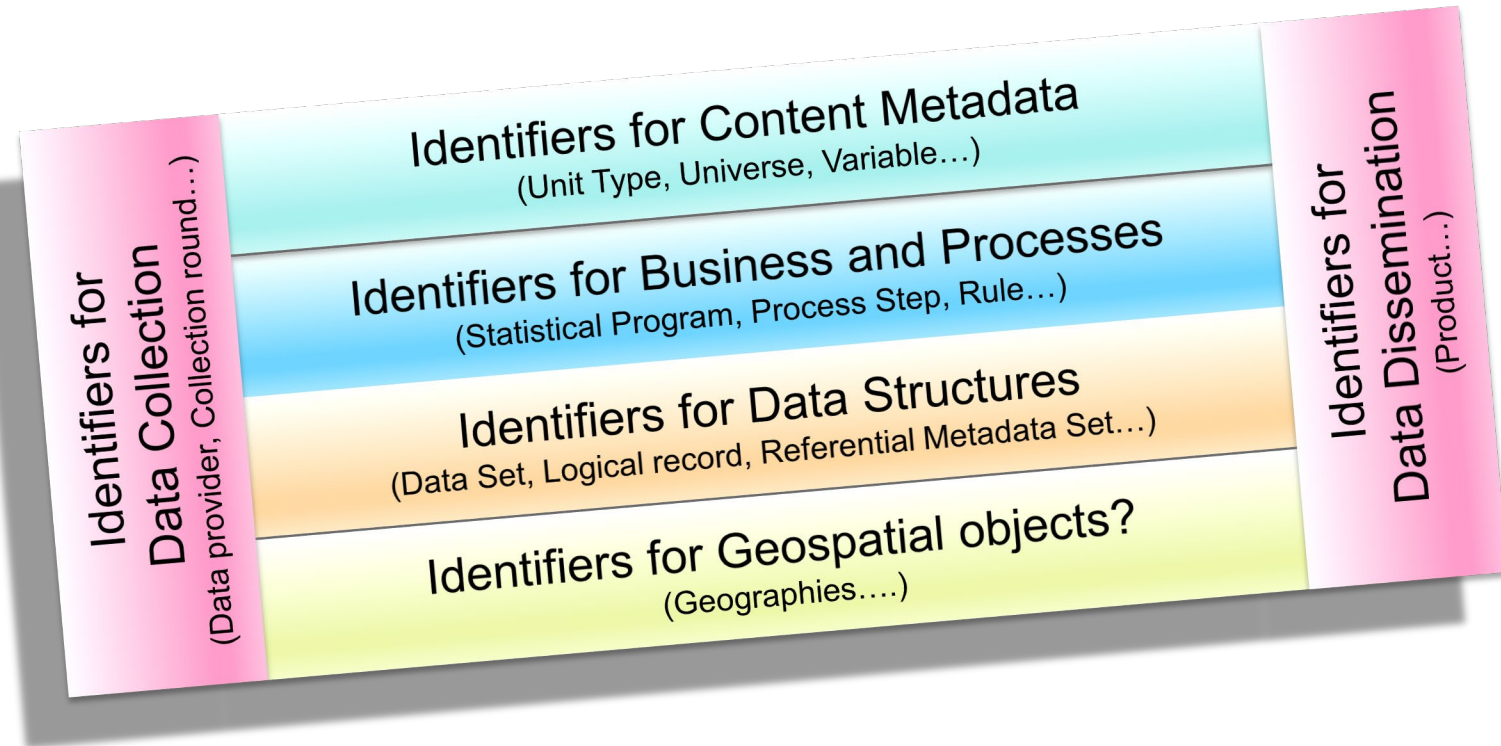
Governance model of the Identifier Service



Content of the Identifier Service for statistical data production



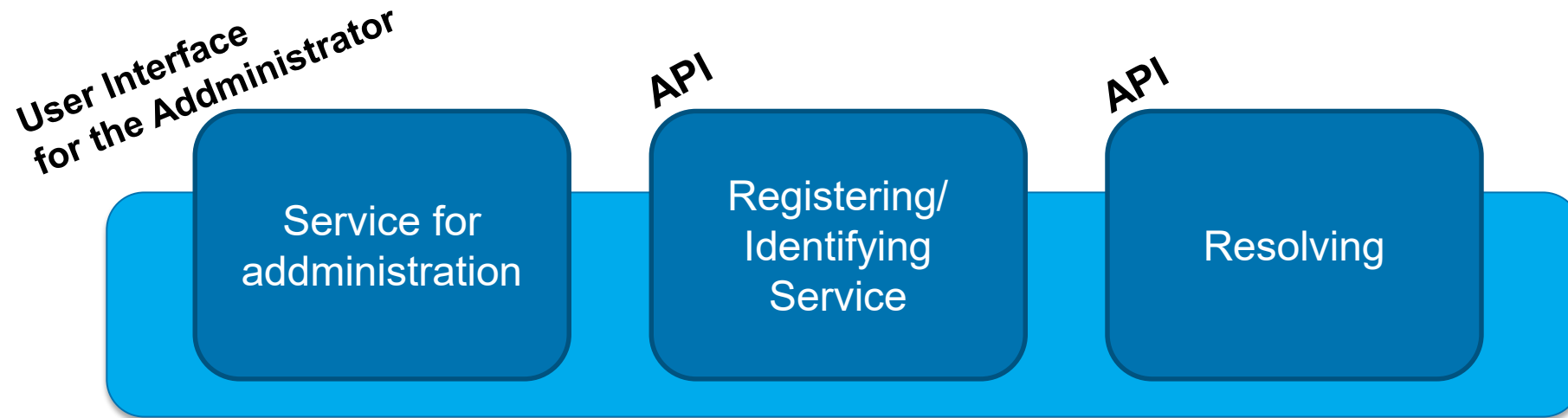
Information model TIMO
(GSIM-based)



Principles of the Identifier Service

- Delivers identifiers for specified information objects only
- Delivers only identifiers that are globally unique and persistent in time
- There is no limit for the number of identifiers
- Delivers only those types of identifiers that are specified
- Delivers identifiers only to registered production systems
- Only operator can add new information object types as well as production systems requesting identifiers
- The location of the identified object can be generated / registered
- It is possible to keep a record of the "old" existing identifiers, not generated by this service

The Identifier Service consists of:

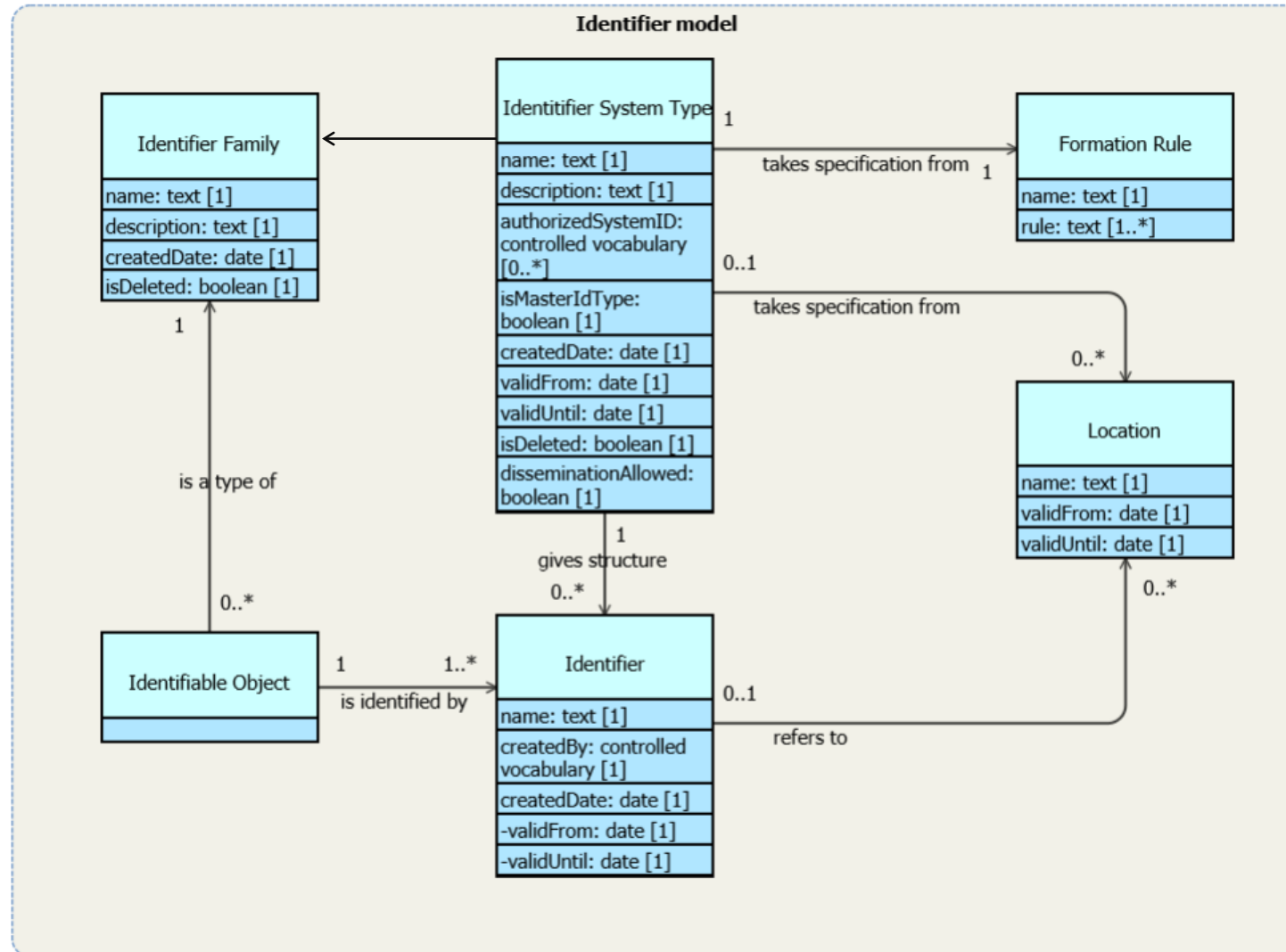


- Access rights
- Identifying the type of identifiable artefacts

- Offering identifiers for specified objects
- Keeping a record of the existing identifiers

- Offering the location of the identified object

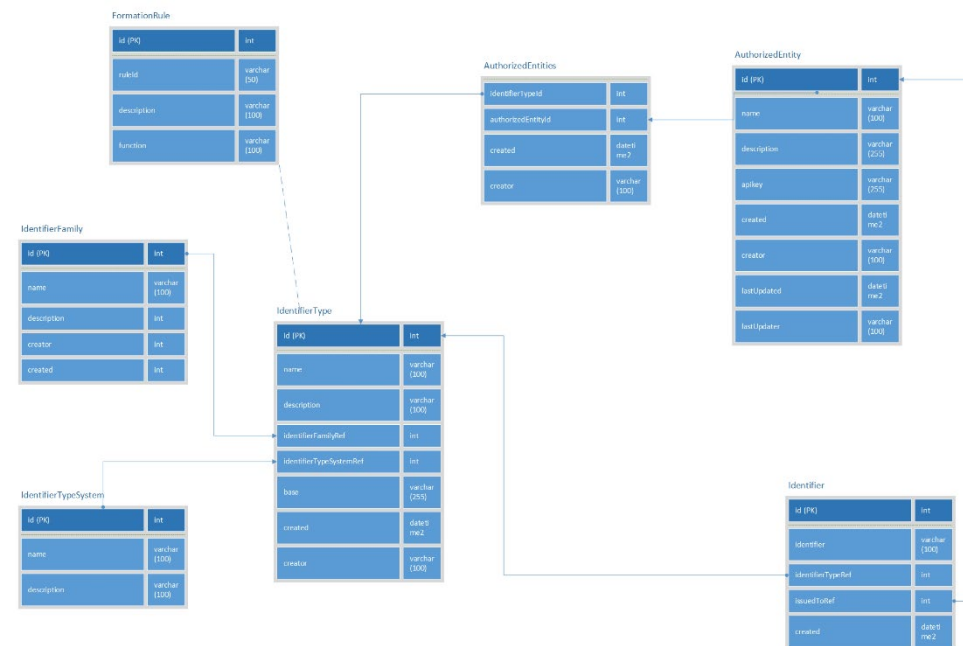
Logical information model



Implemented in Azure environment

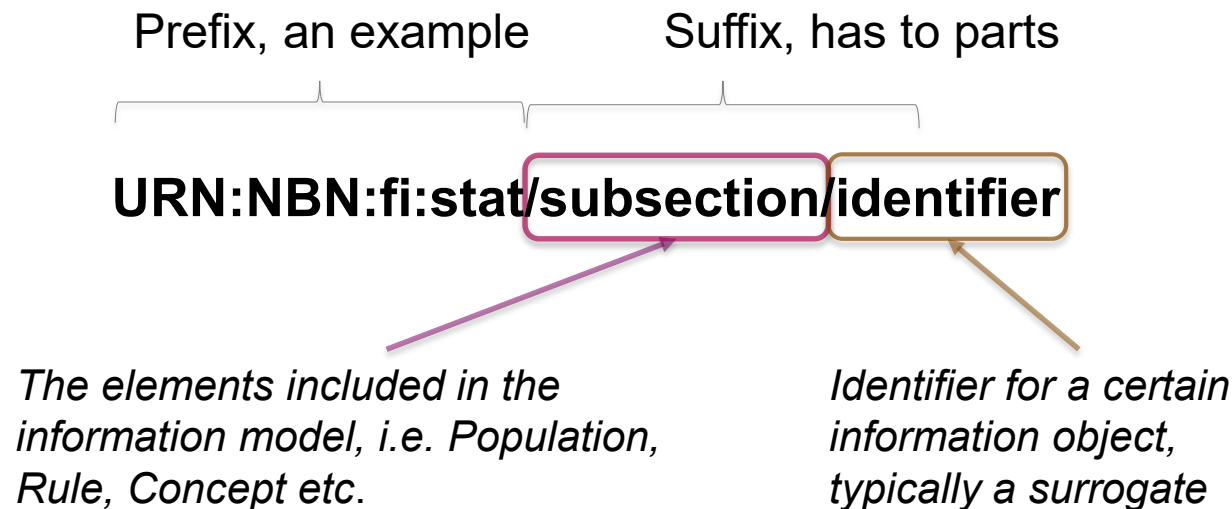


- Scalability
- Usability across different systems
- Possibility to open the API outside Statistics Finland if needed



How will the persistent identifiers look like?

- The system created can, in principle, deliver any kind of identifiers
- In the near future, both URI and URN identifiers will be used. For exceptional cases also DOI can be obtained.
- URN's for published objects are planned to be linked to the URN Service of the National Library of Finland



Projects piloting the Identifier Service 2019 in Statistics Finland

- Quality reports (SIMS) for the producers of Official Statistics in Finland
- GSIM based metadata system METSY:
Core metadata objects (from GSIM green and yellow part)
- Web-project: main objects that will be published on our website
- Linked Open Data: Geospatial classifications

All the necessary changes needed based on this piloting
will be implemented in the Identifier Service during the year 2019

**→ Q1/2020 Identifier Service in production
in Statistics Finland**

Challenges and open questions

- Resolving in more complex cases (for instance, several locations) as well as creating the connection to the URN Service of National Library
- How to ensure that the model behind, GSIM-based TIMO v0.5, will react to specific needs and at the same time stay stable enough? (TIMO is more of a logical than conceptual model)
- To balance with the need to create identifiers for objects outside the model = outside statistical data production
→ one solution could be to have logically separate service with separate governance model but still the same physical service?
- The governance of common services is a challenge, even within our NSO. What would be required if the Identifier Service would be a CSPA service?

Any questions? Contact us:

*If you are interested,
please, contact us!*

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