

eENVplus Infrastructure

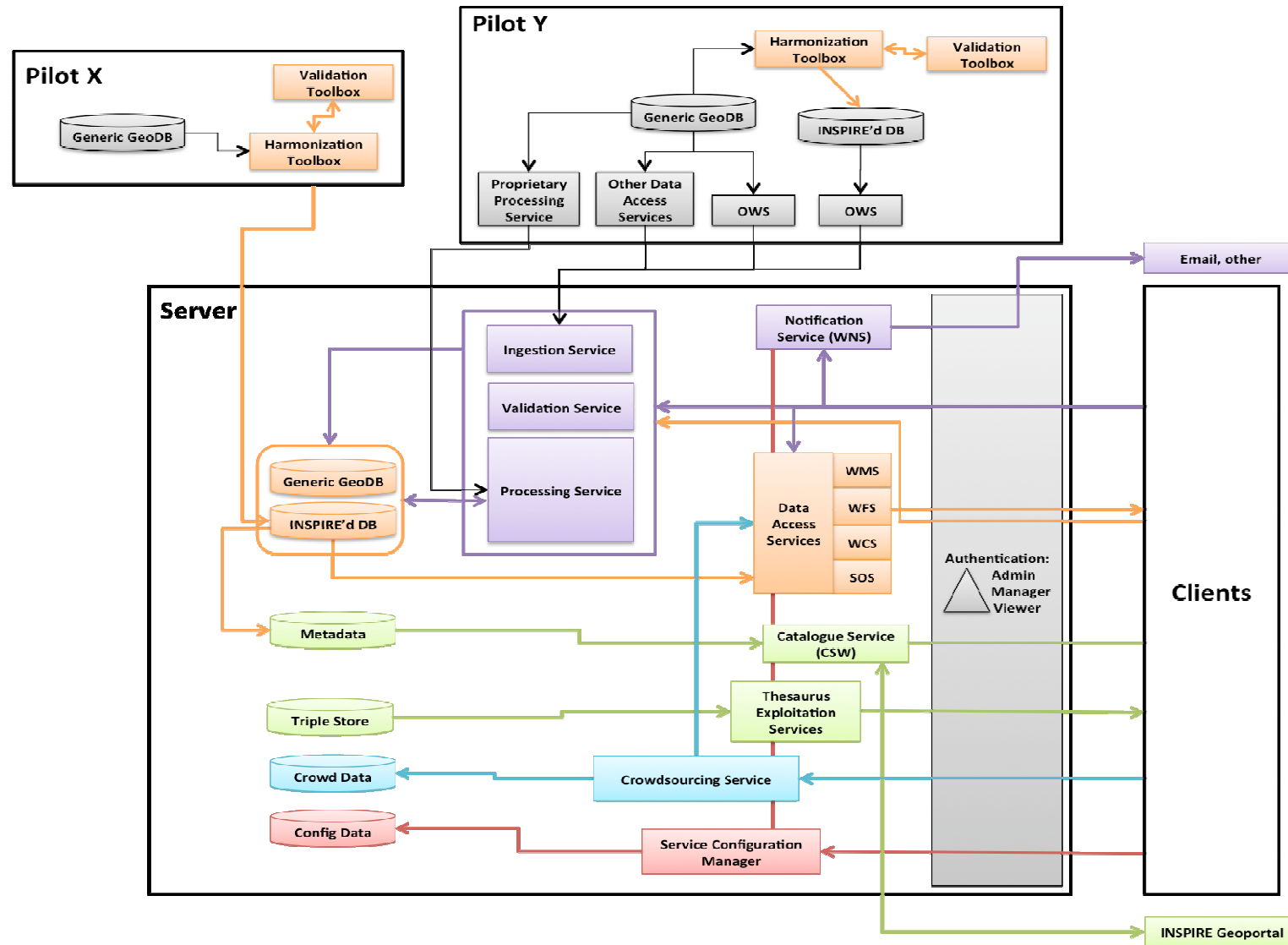
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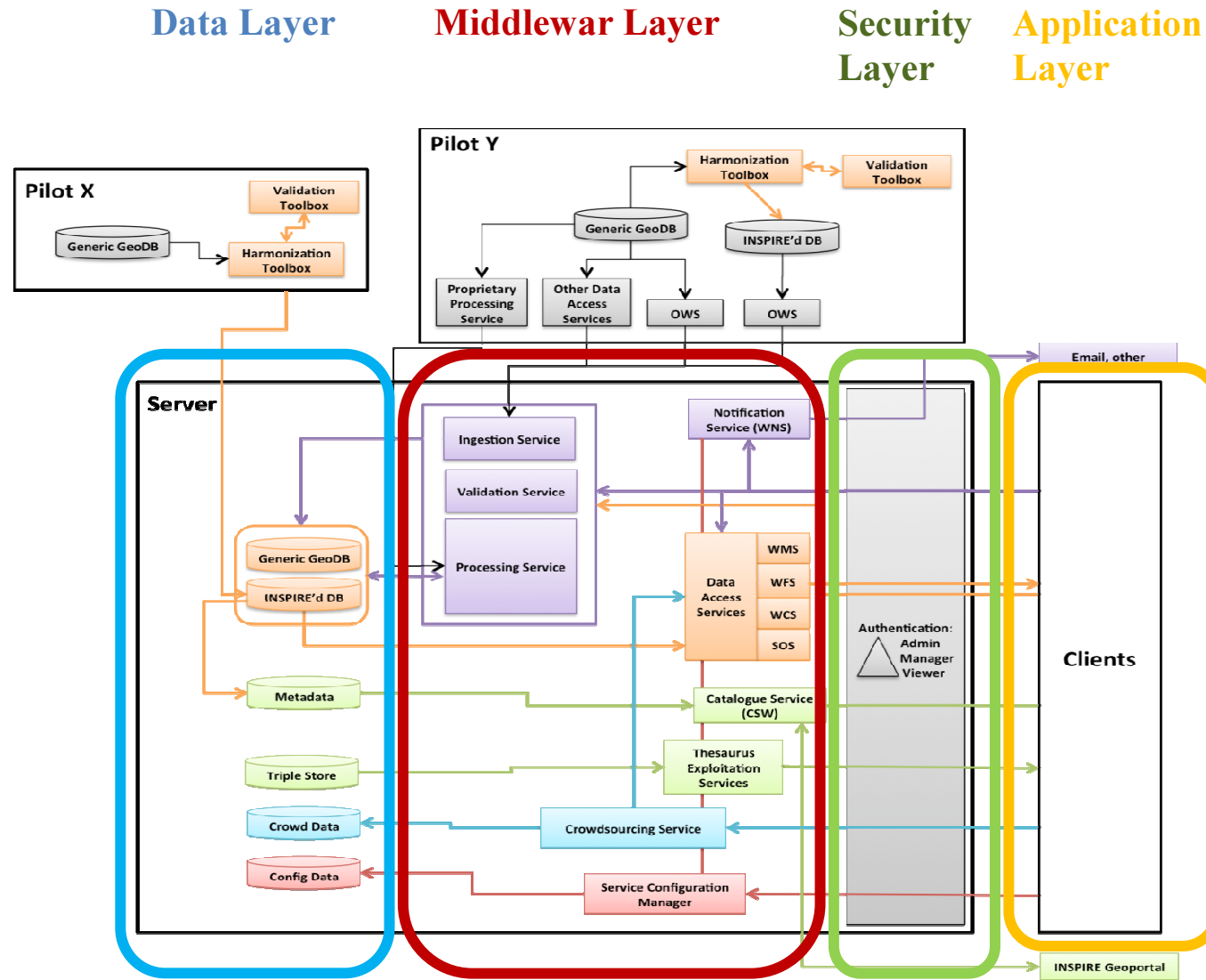
*A clustering approach to eENVironmental Services for advanced
applications and capacity building within INSPIRE and SEIS*

The eENVplus infrastructure includes:

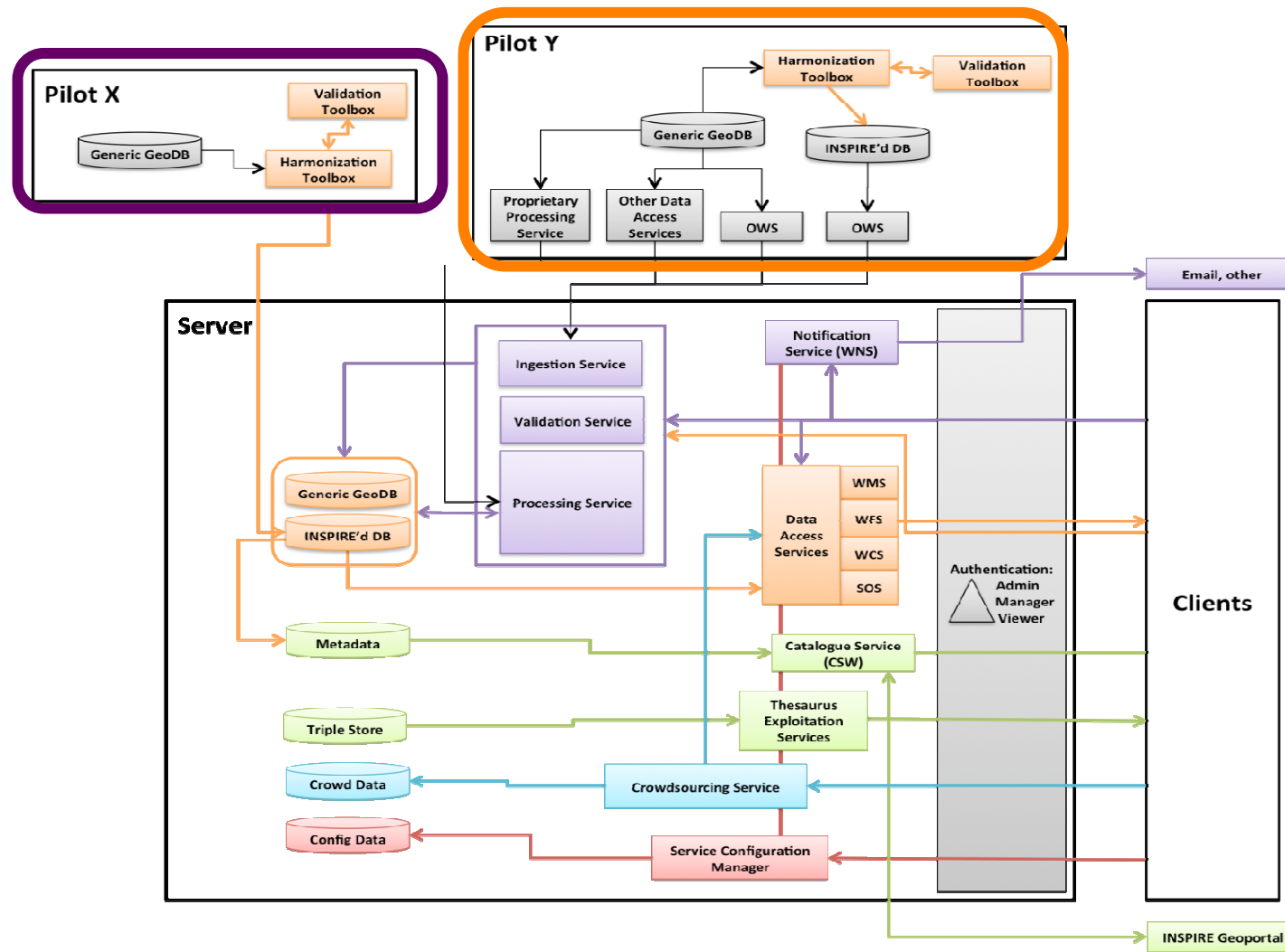
- A set of web services for data access, data ingestion and data exposal.
- A set of server-side features to manage advanced geo-processing services.
- A set of clients used to test the offered services.

Proposed Architecture

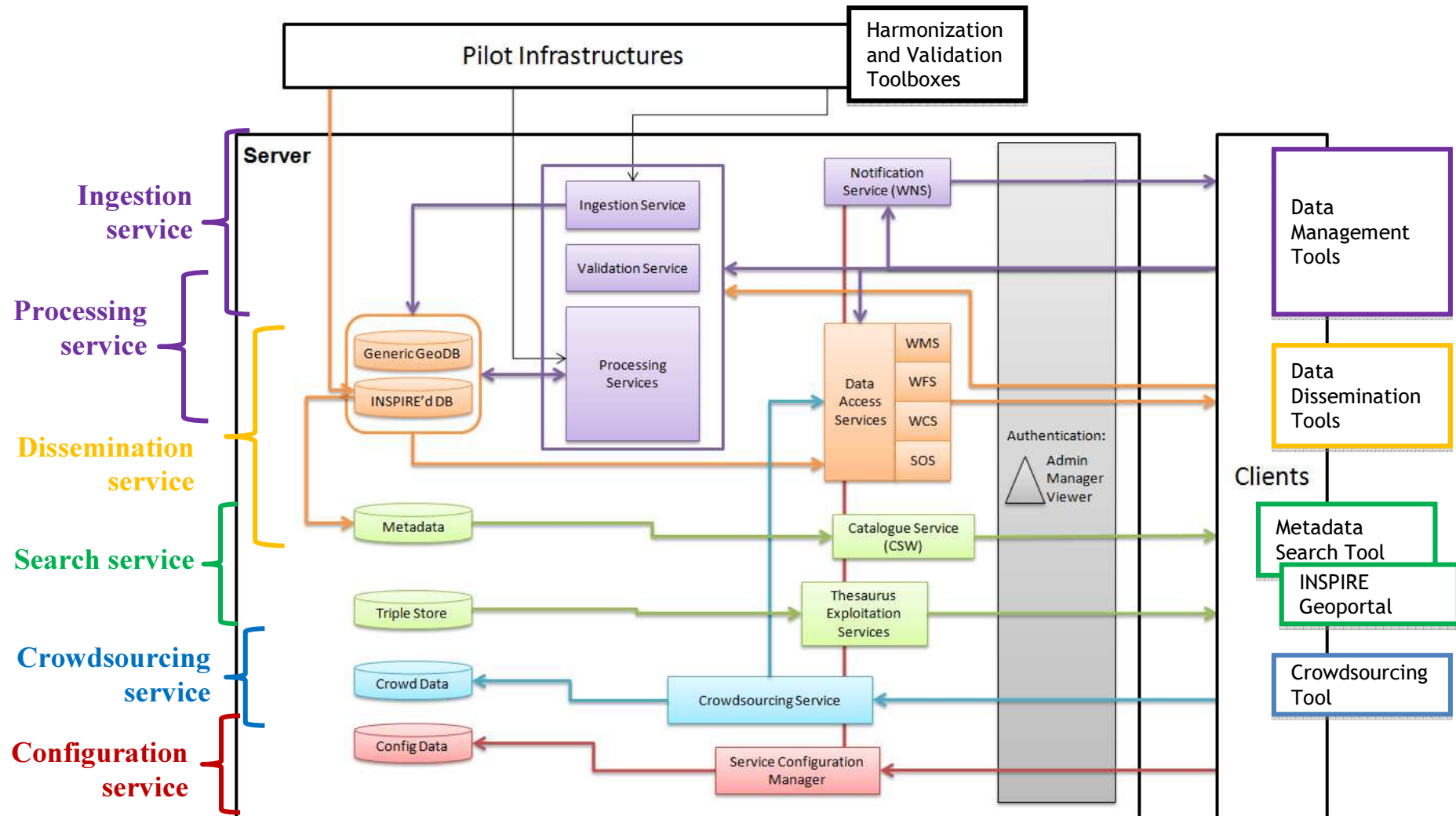




- **Data Layer**: set of databases that have to be set up to store provided data
- **Middleware Layer**: core of the infrastructure, contains the set of components used to ingest and expose data
- **Security Layer**: intermediate layer that manages access to resources
- **Application Layer**: contains the eENVplus client applications



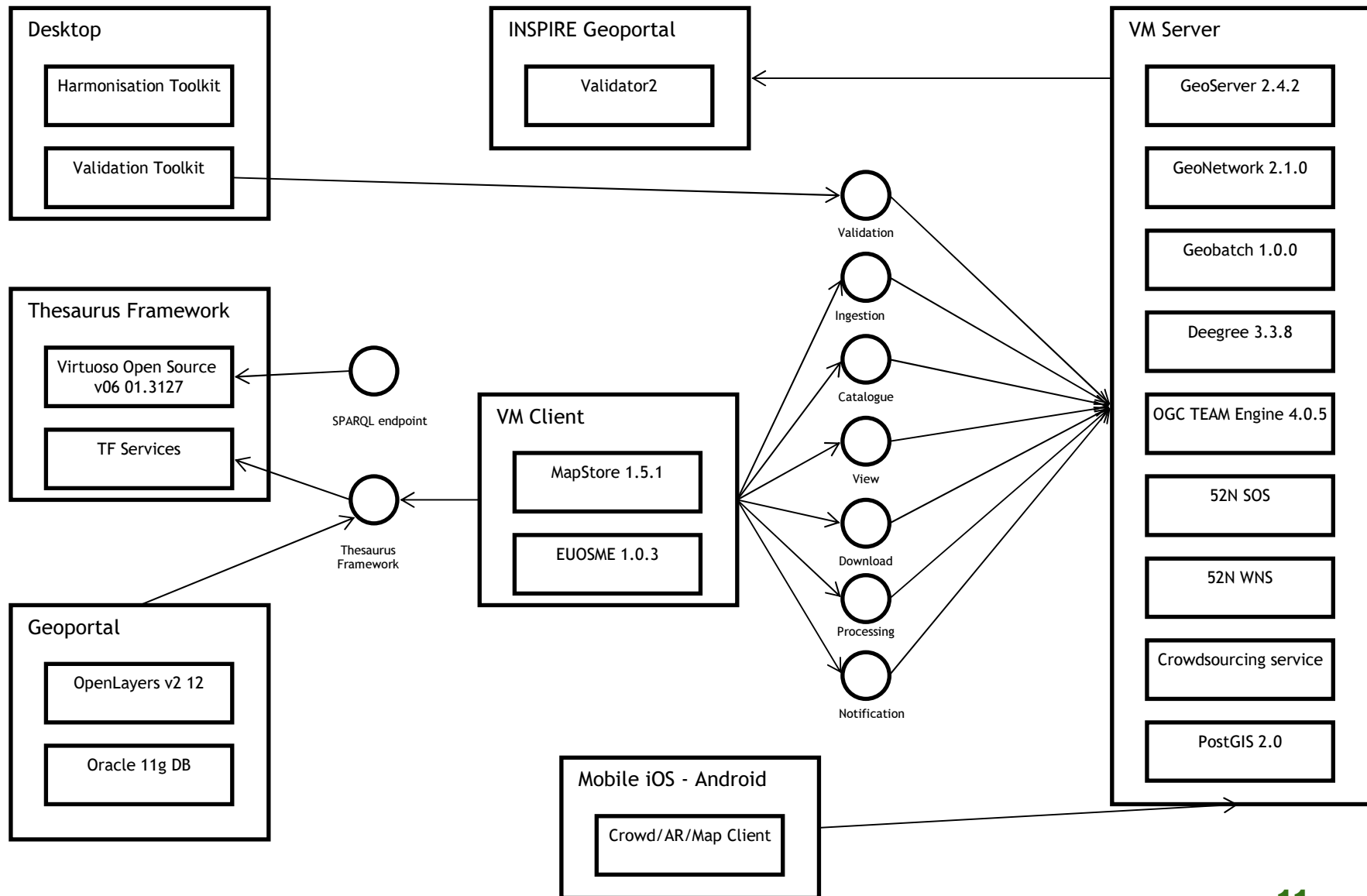
- **Pilot X**: pilot who haven't its own SDI and it is not able to expose data.
- **Pilot Y**: pilot who is able to expose data in some way (OWS - INSPIRE web services - proprietary web services).



- **Ingestion Service:** contains the set of software components used to manage the ingestion of data provided by pilots in the eENVplus infrastructure
- **Processing Service:** contains the set of web services used to fulfill the requirements about processing (WPSs)
- **Dissemination Service:** contains the software components that allows users to access data by the use of INSPIRE compliant web services

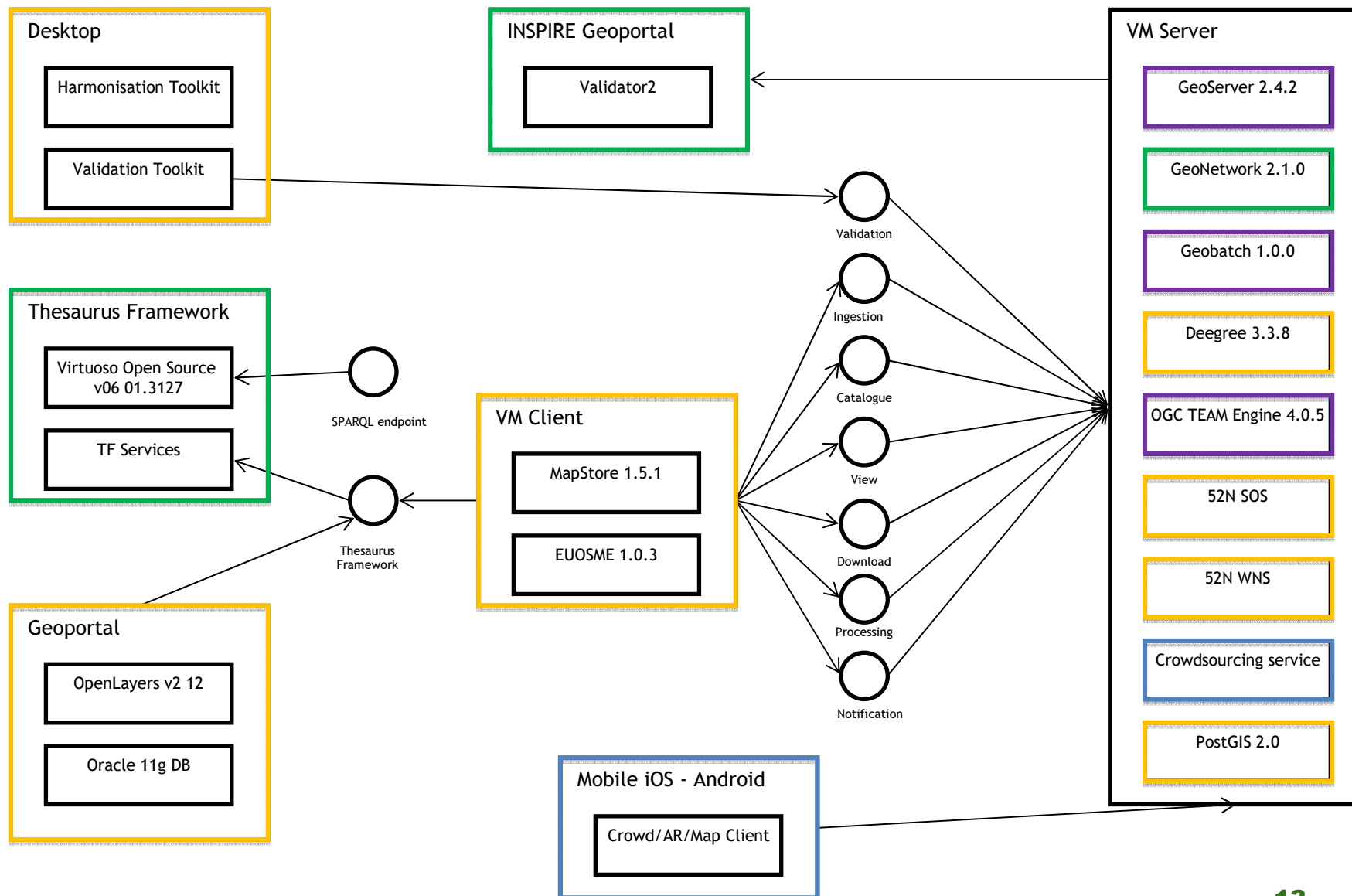
- **Search Service:** contains the software components used to perform semantic search in the metadata catalog
- **Crowdsourcing Service:** data and software structure that allows users to enrich the set of data available by giving their contribution

Component Diagram





Component Diagram - Service Layers



Thank you