



SeaDataCloud

SWE Ingestion Service

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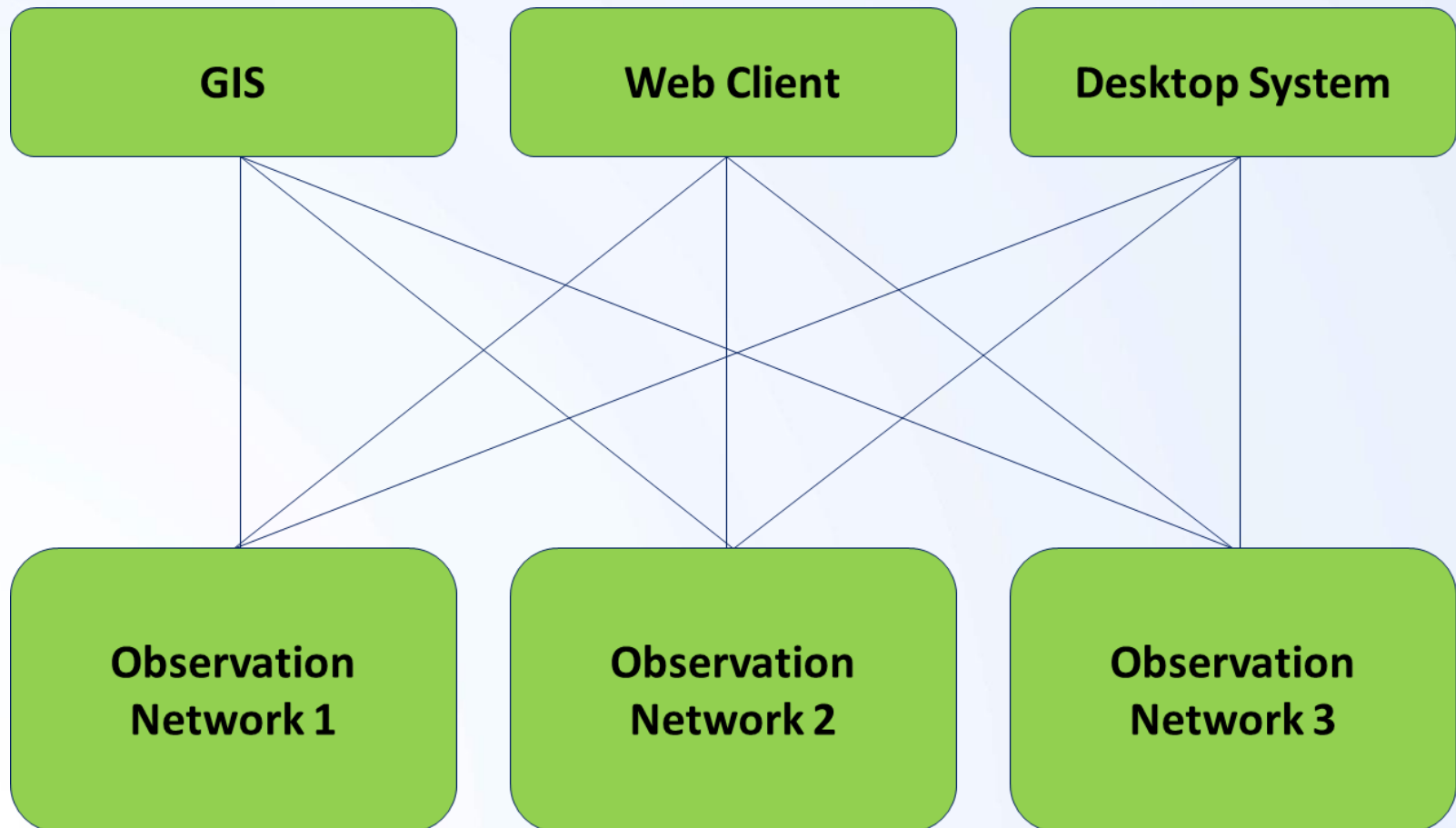
SeaDataCloud Workshop @ EUDAT Conference, Porto (Portugal), 23/01/2018
sdn-userdesk@seadatanet.org – www.seadatanet.org

Objectives

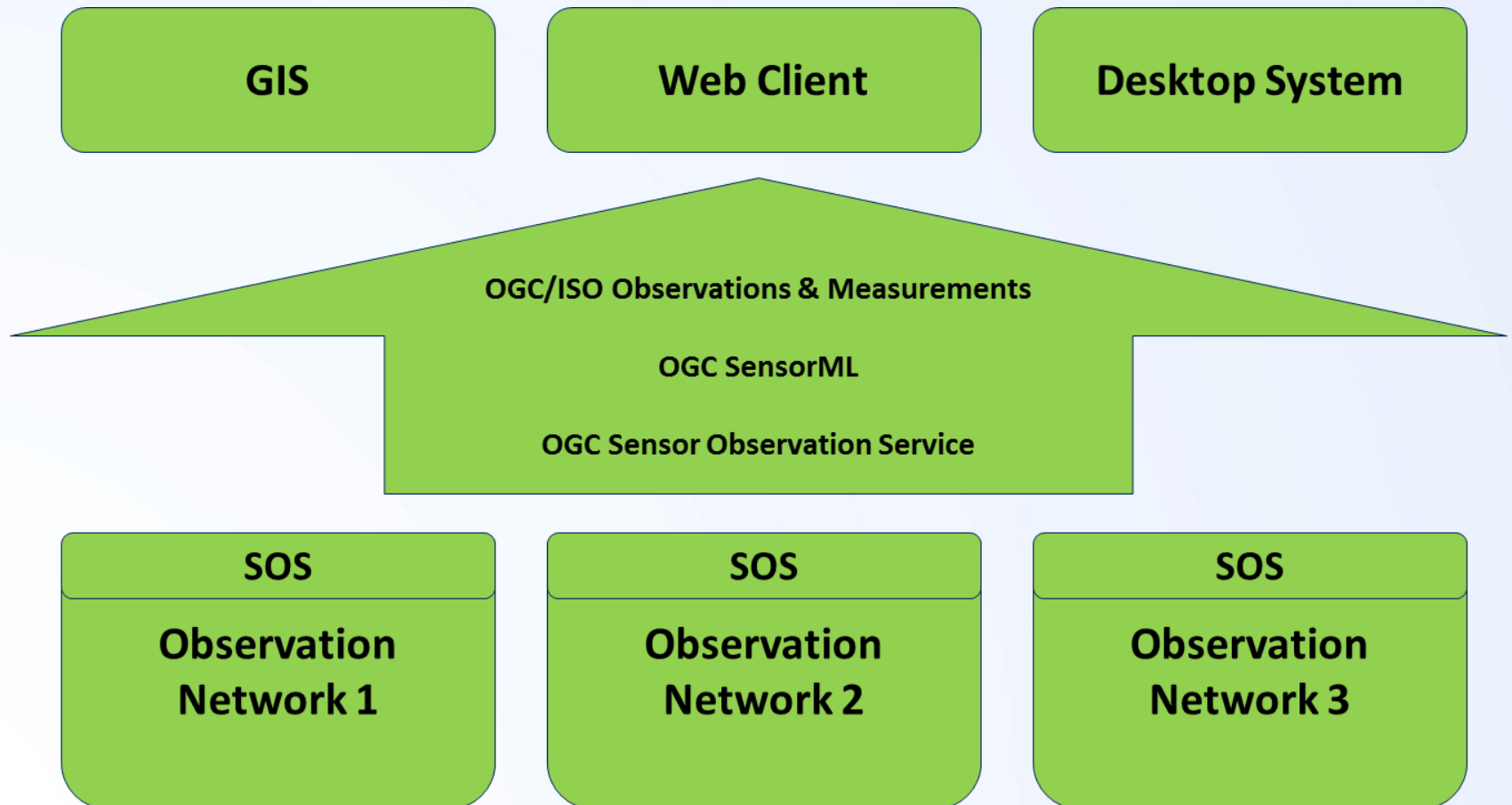
- Facilitate the publication of observation data (streams)
- Describe observatories (or networks of observatories)
- Ingestion service
 - Receive, decode and check data
 - Operated under the supervision of the PI of the observatories
 - Use SensorML descriptions of the observatories for data decoding
 - Accept SWE-based observation data streams

Short introduction into Sensor Web

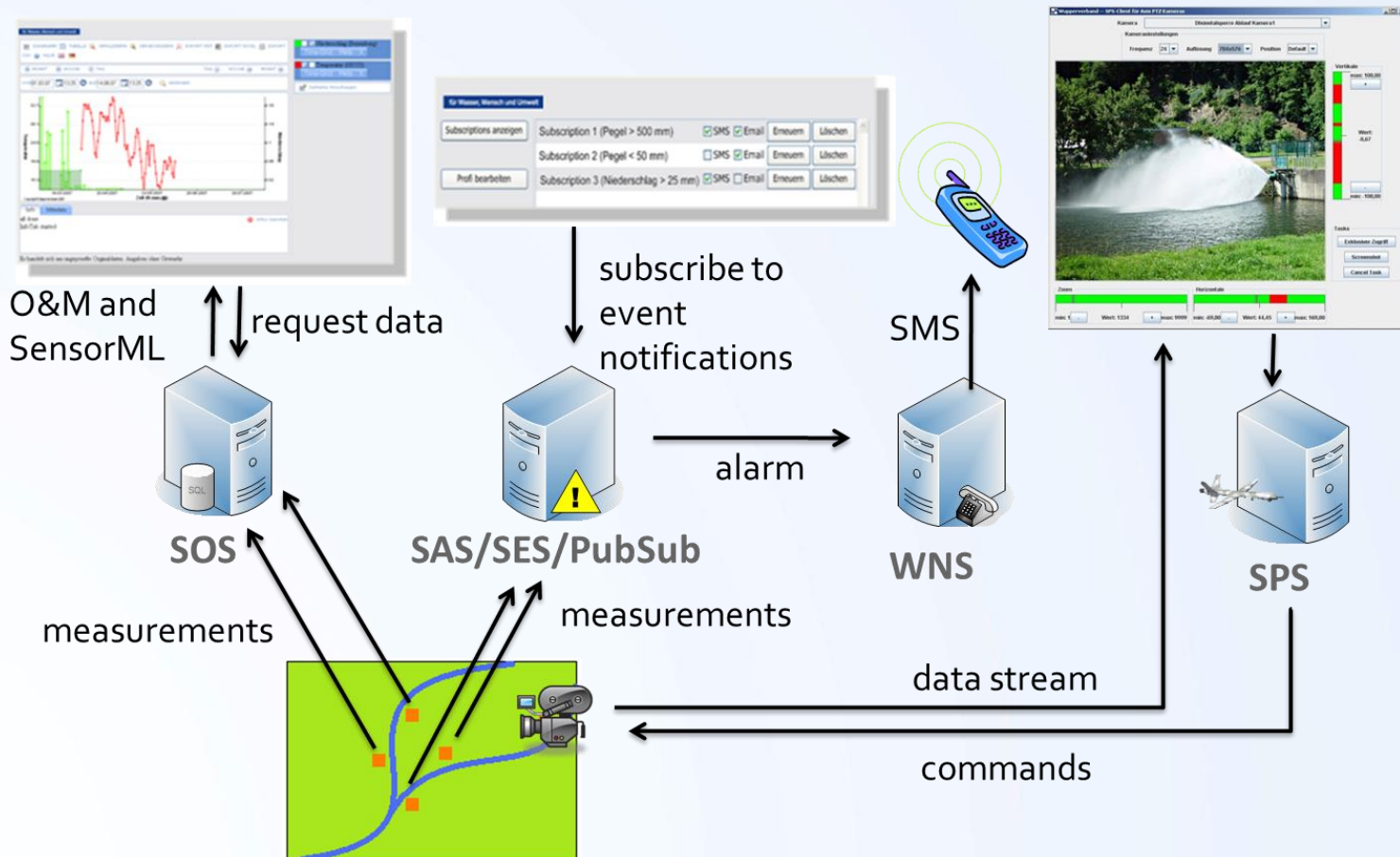
Short introduction into Sensor Web



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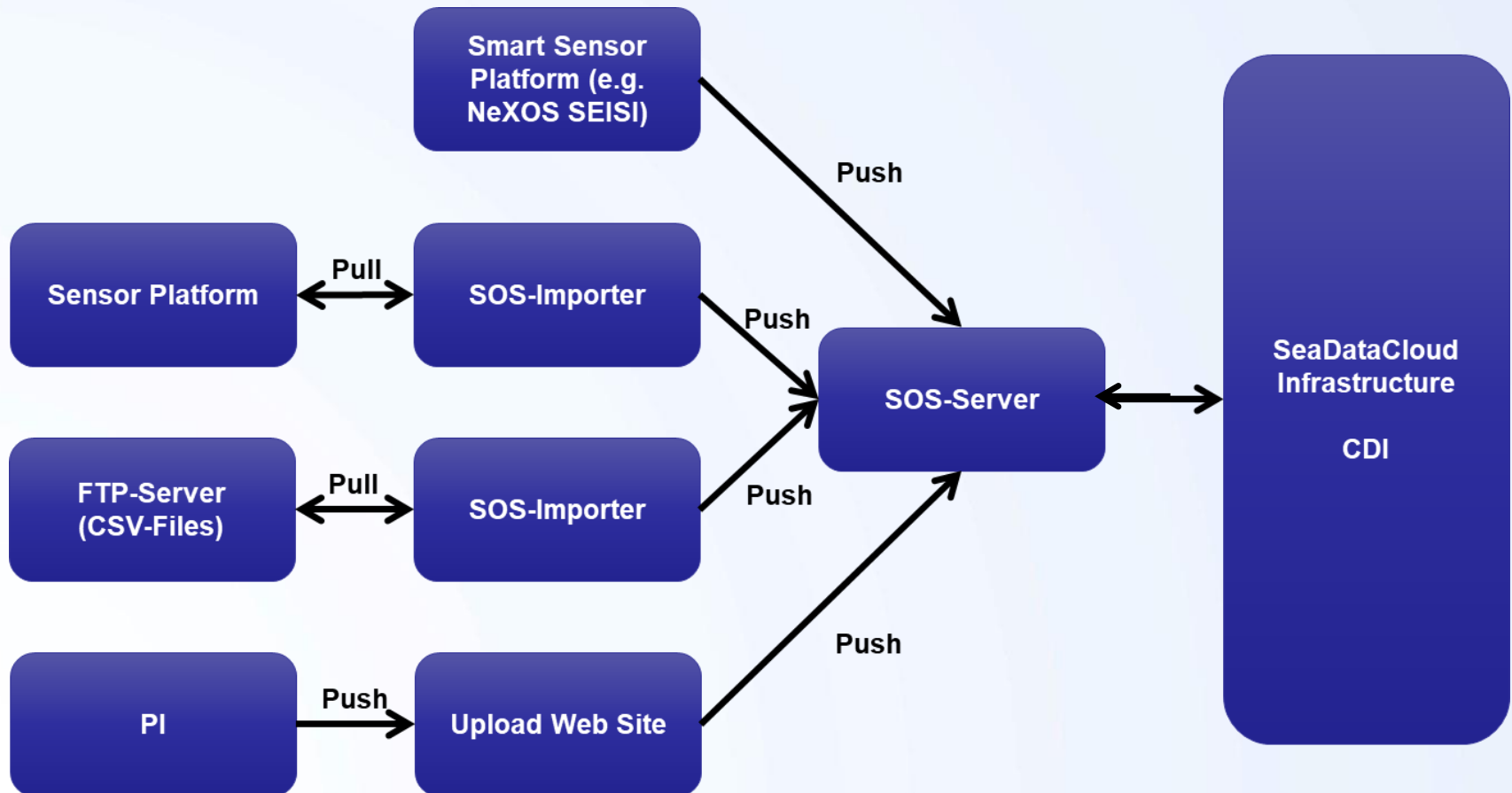


Short introduction into Sensor Web



SWE Ingestion Service

Overview

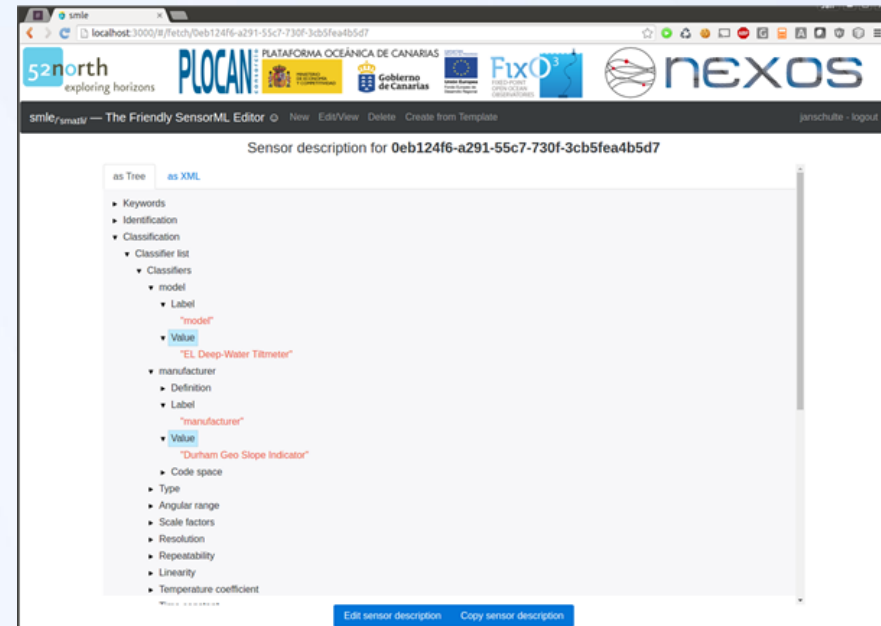


Pull-based Workflow

- Read data from different data sources and push to SWE Ingestion Service
- Description of commands of sensing devices for retrieving data
- Description of outputs of sensing devices or of (CSV) files containing observation data
- Based on SensorML

User Interface

- Editing sensor descriptions: smle
- Extended to support commands, outputs and vocabularies
- Full text search for stored sensor metadata documents



User Interface

- Feedback to Data Providers
- Relevant information
 - Details about successfully /unsuccessfully inserted sensors (metadata)
 - Amount of successfully/ unsuccessfully inserted observations
- This information shall be made accessible through a dedicated operation

Status and Next Steps

- Architecture and interface have been documented → dedicated deliverable
- Ongoing
 - Continue implementation
 - smle, import mechanism
 - Communicate with sensor operators to gather use-cases for pilot

Thank you for your attention!

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