



PROCESSING LINES AND OPERATIONAL SERVICES COMBINING SENTINEL AND IN-SITU DATA FOR TERRESTRIAL CRYOSPHERE AND BOREAL FOREST ZONE

SEN3APP

PROJECT COORDINATION:

BUDGET INFO:

Total amount: **2,916,586 €**

% EC Co-funding: **2,212,191 €**

DURATION: Start: **01/12/13** - End: **01/12/16**

PROJECT'S IMPLEMENTORS:

Coordinating Beneficiary: **FMI**

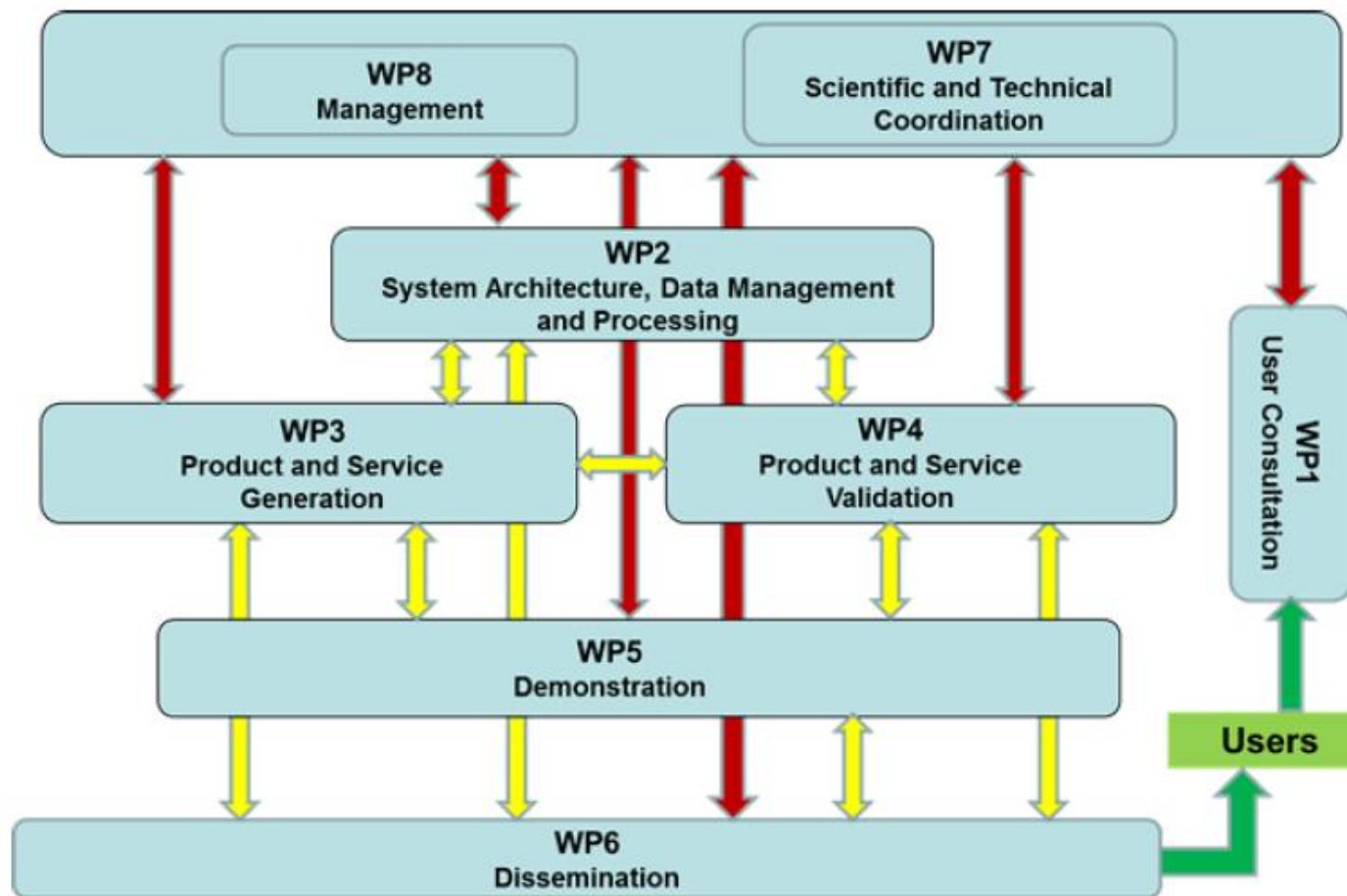
Associated Beneficiary(ies): **SYKE, VTT, GAMMA, ENVEO**





SEN3APP is concerned with the development, implementation, operationalization and validation of Sentinel data processing lines for cryospheric (terrestrial) and land cover/phenology applications.







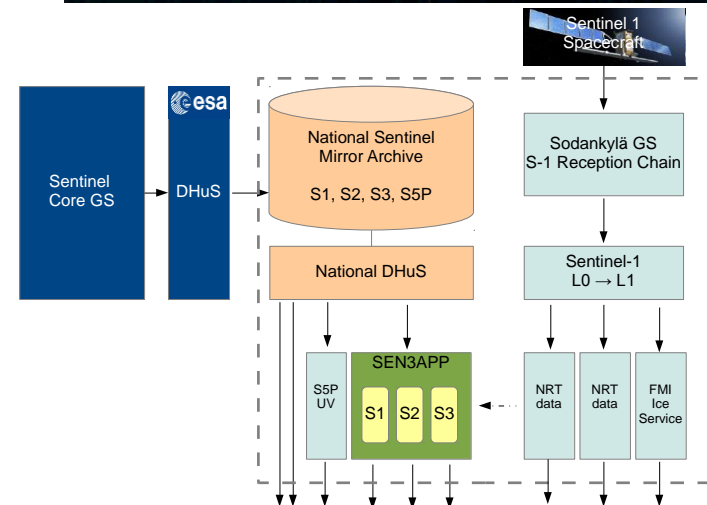
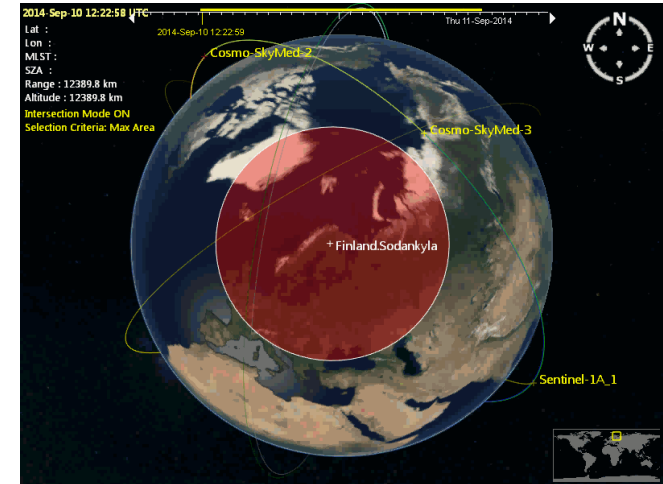
Finnish Collaborative GS Initiative

1. Collaborative Acquisition Station

- Local reception of Sentinel-1 Direct Broadcast
- Focus on NRT and Quasi-Real-Time products
- Special Interests:
 - S1 -> Baltic Sea Ice monitoring, Oil spill monitoring, Arctic ocean sea ice

2. Collaborative Archiving Centre

- National Sentinel mirror site
- Provision of Sentinel data to Sentinel data users
 - S1, S2, S3, S5P
 - Users in Finland, Estonia, etc.
- Long-term data archive
- Automated data processing lines for specific and local area products
- Hosting of processing services





ILMATIETEEN LAITOS
METEOROLOGISKA INSTITUTET
FINNISH METEOROLOGICAL INSTITUTE



Sodankylä National Satellite Data Centre

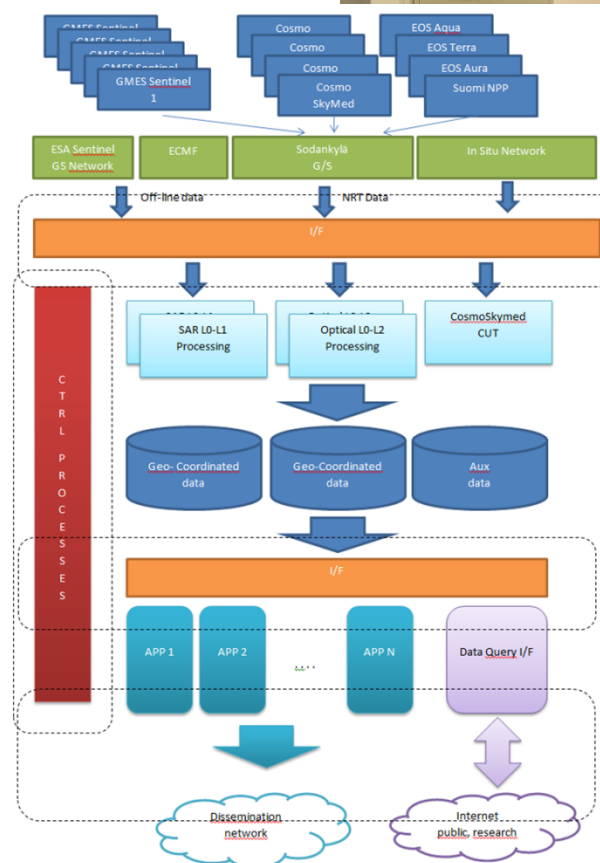
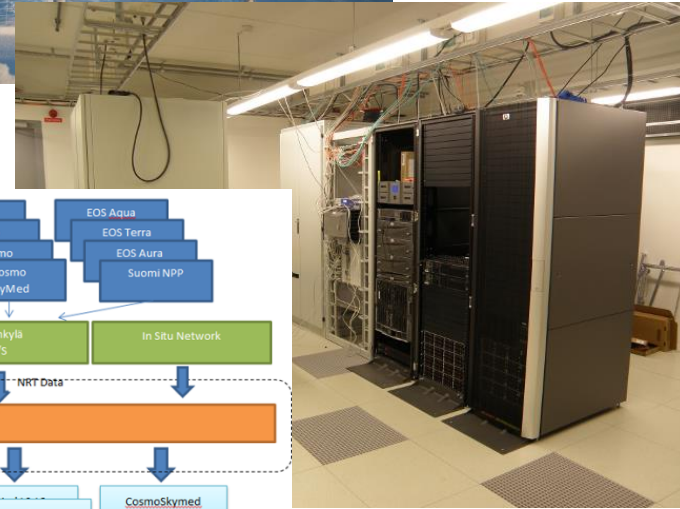


National satellite data center providing satellite data reception and data processing services to Finnish and international partners



Computing facilities at Sodankylä

- Full scale computer building for processing of satellite, in situ (CAL-VAL) and ground based remote sensing data
- Security and Safety standards according to ESA data processing requirements.
 - UPS + backup generator
 - Dual cooling and air-conditioning
 - Fire extinguisher system
- High speed 10 Gbit /s network connection between Sodankylä and Helsinki
- Open data delivery systems





MAIN PROGRESSES:

- Demonstration started in July 2015 and is still ongoing
- 11 SEN3APP products of the 4 categories land cover, snow, glacier and lake ice participate in the demonstration phase
- Demonstration products are generated and provided to (key) users for testing purposes (ongoing)
- SEN3APP portal is in progress
- Providing selected products through online geoportals is in preparation
- Product descriptions & access are ready for 11 demo products
- SEN3APP project will have a stand at the European Space Solutions Conference in Hague, 30 May-3 June, 2016.





FUTURE WORK:

- Continue on collecting end-users' feedback on product and services
- Validation of products with the available satellite data
- Demonstration of the products will be continued
- Demonstration products are provided to selected key users for testing purposes
- Demonstration products will be disseminated via SEN3APP Portal

