Breakout session minutes

Digital infrastructure for the Sentinels - 3 ITT's in 2017 (2 ESA, 1 Eumetsat)

How should national GS's relate to each others and to the European ones

1) Who has established ground segments?
Austria, Norway, Finland, Poland, France, Germany, Greece, Sweden, ++ - yes
Estonia - no

2)

Task of the ground segments:

- Facilitate (open) data access and usage
- Access to all data levels (low to high) is important - interested users will want to check details
- Should be easy to harvest pixels, not images
- Transparency in data and algorithms
    - let users choose data sources
    - enable sharing of algorithms
- Find common workflows and tools
    - Separate (local) "know-how" and IT/technical requirements
        - local know-how must be part of development
- Common European/continental solution makes sense (e.g., for a DEM) but availability of local solutions through national ground segments is needed - flexibility important

ESA/EU approach:

- File based
- Focused on the satellite data
- Own format - metadata difficult to read and extract
- Requires knowledge from the user side, few has competence to use it

Estonia: "move processing to data", ice monitoring application, crop field monitoring

France

- IT part separated from user part
- Peps is IT and is funded until 2017
- Additionally 4 data centers uses peps as source

Sweden: Infrastructure

- make data available in the form users want it

Norwegian solution:

- Netcdf/CF format
- Streamed through opendap

Google Earth Engine

- Has a lot of data
- Useful for simple things to explore data
- Risk of change of permissions
- API not open-source
- Data quality check missing

Requirements are similar but solutions are different

- Integration/combination with in-situ data is important (national/local knowledge)
- Global data
- How to bridge the gaps?
    - Ongoing task, needs to follow up over time when things get established

National basic requirements
Coordination between groups with similar interests (e.g., DEM for Scandinavian countries)

Need more “joint progress”
Summary of potential collaboration is needed

Copernicus data services - are countries waiting for this instead of creating national ground segments?

- For Norway, important with value-adding to Copernicus

Possibility to reprocess data