

#1 – Status in countries

Finland : Antenna for S1 data (NRT : < 3h) + mirror site for Baltic basin.

Sweden : Metria + Spacemetrics.

→ Current analysis of the landscape, and in particular with neighboring countries. Existing satellite database (e.g., including SPOT).

→ mirror site from ESA. No yet scenario for geographical coverage (water masses?), also intersect for Baltic basin.

Difficult to establish mirror site from their own.

Let the services to scientists and specific topics to specific companies.

Norway : Norway digital (cf. Jon Arne's talk). Used to share mapping products, free for partners.

France : Theia (through some partners) pay for specific satellite coverages.

#1 – Collaboration between countries

Geographically :

All the more important than some countries share long, long, long borders

Solutions should be built all together.

→ high influence of purposes. If different...

Scientifically :

If experts have solutions for level processing (e.g., 1B--> 1C), we should adopt them.

#2/#3 – Data processing levels

Need : Level 1C can be sufficient for mirror sites but with a cooperation between existing experts is necessary to provide an solution and help tuning existing solutions.

Consolidated spectral product from Sentinel-2 : maybe not yet available.

For large change detection : TOA reflectance values can be sufficient.

Monthly synthesis/temporal composite+cloud detection : crucial for cloud-free and subsequent large-scale land-cover mapping/monitoring.
Open new possibilities.

Rolling archive : we need to go back on the past → store more than 2 months, don't throw anything by advance → cloud mask is crucial, again.

Temporal sampling → difficult to know by advance

Dark areas such as in Norway ? What should we do ?

#2 – Processing issues

Export jobs: necessary and different needs exist.

→ batch export on specific periods : defining by advance which images of the forthcoming year(s).

→ pick existing images (at least pre-defined polygons) on the servers.

#2 – Interoperability with L8

Consensus !

Reference Unit to be defined.

Question raised about the DEM...

#2 – How fast should data be available ?

- Most users don't need data 3 hours after acquisition.
- Only few issues need data right now : disaster management, fires...
- Usefulness / new issues may raise from this fast access to the data.

#3 – Data archives

- Temporal composites should be archived.
- Storing images (with a certain compression level or temporal composites) for **enabling temporal sliding windows over a given time period** is pretty cool.

Equivalent to Google Timelapse → good for communication and should raise new applications.

- Difficult to define the temporal sampling for composites without predefined user requirements.
 - « Simplest » way → store everything, or at least « clean » pixels.
 - Defining « simple-to-use » products.

- Cartographic projection : UTM is fine for countries using it.