

# #4 – Requirements on a data management system

**How to repatriate global data from national mirror site ?**  
**How to grab data not in my national portal ?**

Reminder : 4 types of users ;

- CGS/mirror sites : full access to data ;
- Data hub : any registered user but **limited to the 2-month rolling archive.**

Catalogue is provided at the ESA level.

- For national processes, we should keep track.

## Historical data VS NRT data ?

2 processing centers : Spain & UK with similar data

- Reprocessing with full archive will be notified through the catalogue.
- Old versions can be removed after a certain period.

# #4 – Requirements on a data management system

## Specific usages

Mobile phones – very focused (geographically) data download  
→ to be defined.

## International agreement

Concerns about the becoming of data outside of Europe.

# #5 – Requirements on ortho-rectification

ESA recommends to start with Level 1C **but sometimes DEM not sufficient.**

*Reminder : check on ESA website how PlanetDEM was complemented.*

→ Possible to move from 1B to 1C using external DEM ? Foreseen in the Sentinel toolbox, whatever the resampling grid. DTED 1 & 2 (30m). But DTED 3 ?

→ How to guarantee international compatibility if using national DEM? How to deal with border areas ? And update ?

→ How to guarantee compatibility with L8 ?

**ESA** : a change of DEM spatial resolution is not possible right now in the pipeline

→ The toolbox is here to offer flexibility.

→ Plug-in to be released in the forthcoming years.

# #6 – Requirements on atmospheric corrections

Reminder : Level 2A already specified.

Requirements differ from land and water applications (Kia & Carsten's talk)

If a CNES/DLR solution is adopted, it should somehow stick to the format.

- Still high-latitude issue ;
- Still water-bodies issue.

**Difficult for non-expert users to tune toolbox processes ?**

- Per-default worldwide parameter will exist.
- Toolbox offers the possibility to do what we want !

**Cross-calibration ?**

- Framework with USGS/NASA is being established.
- During commissioning.