

# Break-out session day 1

Preparations for Sentinel-2 in Europe,  
Oslo, 25. and 26. November 2014



# Selected recommendations from S-2 preparatory symposium, April 2012

- Straightforward and efficient data access
- Sentinel-2 Level 3 products
- Inter-sensor calibrations
- Time Series Analysis Methods
- Sentinel-2 NRT services
- Mosaicking Tools / Mosaic Products
- Compositing Tool / Composite Products
- Atmospheric correction tools
- Surface Reflectance Products

# Selected recommendations from S2 preparatory symposium (cont.)

- Cloud / Cloud Shadow screening tools
- Combined S2-S1 demonstration/development activity
- Combined S2-S3 demonstration /development activity
- Sentinel-2 – Landsat interoperability
- Use of “best available” Digital Elevation Models (DEM)
- No-terrain corrected products
- Data Fusion algorithms

# Headline #1

## Status of preparations in European counties

Seed questions:

- How are the preparations for Sentinel-2 organized in the different countries and what is the current status?
- How is the production flow designed, from data input to user products?
- Cooperation among countries to put up services?

# Headline #2

## Requirements on services and products from a national satellite data centre

### Seed questions:

- Requirements on functionality of the system and services provided to the users:
  - temporal composites (every 4 weeks, 2 weeks, etc.), spatial mosaics, support for time series and change detection, cloud/shadow detection, support for user defined/developed processing algorithms, subscription of export jobs, etc.
- How fast should products be ready?
- Interoperability with Landsat 8 and other optical sensors?

# Headline #3

## Requirement on the data archive

Seed questions:

- What data should be archived?
  - All acquisitions, all with cloud cover  $< X\%$ , the whole year or a limited season
- All levels produced or only level 1B, metadata?

# Break-out session day 2

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# Headline #4

## Requirements on a data management system

- Seed questions:
  - data store and management
  - data organization
  - tiling of images according to a national grid, e.g. 100 x 100 km tiles, etc.

# Headline #5

## Requirements on ortho-rectification

Seed questions:

- Is the global DEM ESA will use of sufficient quality or do we need to use a national DEM?
- How can an automated ortho-rectification using a national DEM best be performed?

# Headline #6

## Requirements on atmospheric correction

Seed questions:

- How can an automated atmospheric correction of Sentinel-2 and Landsat 8 datasets best be performed?
- How to address possible needs for cross calibration of sensors?