

# What's new ?

*HR spatial resolution*

*temporal resolution*

*S1+S2*

*long-time series*

*systematic acquisition*

*spectral resolution*

- 1- new studies regarding data availability
- 2- new methods for Big Data Handling
- 3- new hypotheses for complementarity
- 4- temporal analysis strategy

# New studies regarding availability

- Spectral features :
  - Red-edge bands
- Tracking :
  - pair-wise vs. Time series analysis
- Temporal features :
  - seasonal changes

# Big data Handling

New methods for

- Distributed processing
- Hosted processing
- Distributed archiving
- How to format data ?

# New hypotheses for complementarity

- Interactive use of S1+S2 :  
*not about fusion level, more about interactive strategy*
- Depending on the application
  - Example : snow mapping
- Fill-in / Combine time series

# Temporal analysis strategy

- Methods for Learning :
  - Temporal Signatures
  - Changes / nomenclature of changes
  - Complementarity with unsupervised approaches
- High temporal change detection,
  - With entire time series
  - Robust to :
    - partial, missing data (S2)
    - Offsets
    - Amplitudes
    - heterogeneous