# French Forecasters Workstation Synergie-Next

# Synopsis Project

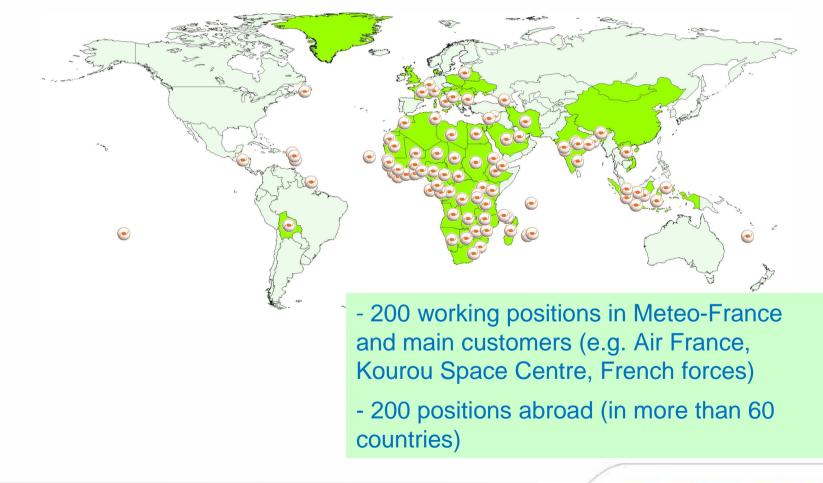
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#### Context

#### Synergie is smoothly moving to Synergie-Next.









#### **Synopsis Project**

Meteo-France National Project

• Started in 2010, end planned in 2016



- Joint development by Météo-France and Météo-France International (MFI)
- Aim : a new workstation, developed in the form of interoperable services (SOA) for forecasters from
  - Météo-France
  - Institutional partners (French forces, hydrology, forest fires, ...)
  - Commercial clients (CNES, French Electricity board, ...)
  - Export with MFI
- 2 main phases :
  - Visualization functionalities (end 2013)
  - Production functionalities (end 2015)





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- 1) Interoperability
- 2) Zooming & panning free of geographic area (GIS functionalities)
- 3) Adaptive User Interface (lot of data !)
- 4) GUI « customizable » (bookmark, preferences)
- 5) Continuous link between past and future data (seamless vision)





#### Main technical specifications

- 1) « OGC » Rules and SOA (Service-Oriented Architecture)
- 2) Multi-platform GUI and automatic deployment
- 3) Flexible architecture server (eg standalone)
- 4) Horizontal Scalability and high performance (challenge !)
- 5) Dynamic adaptation to the data flow



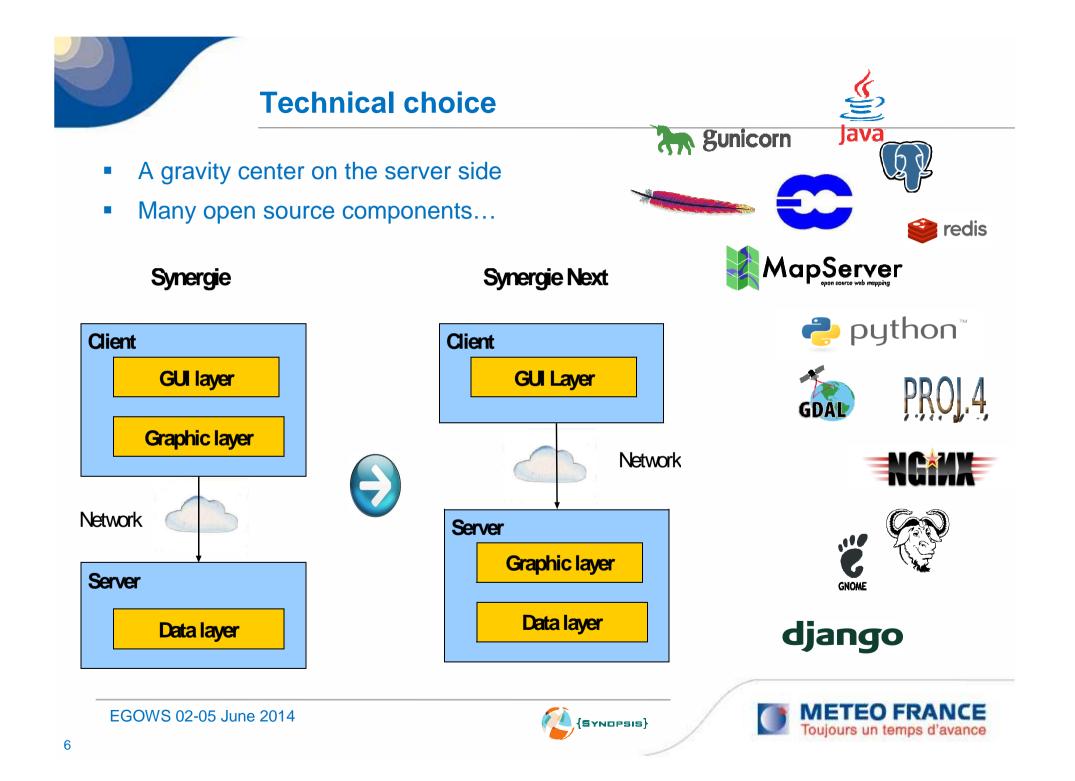








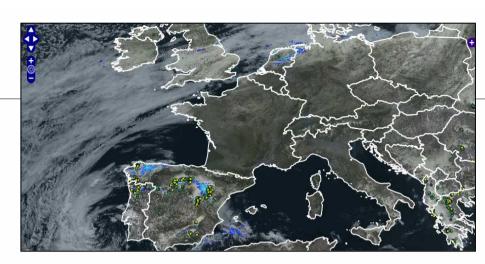


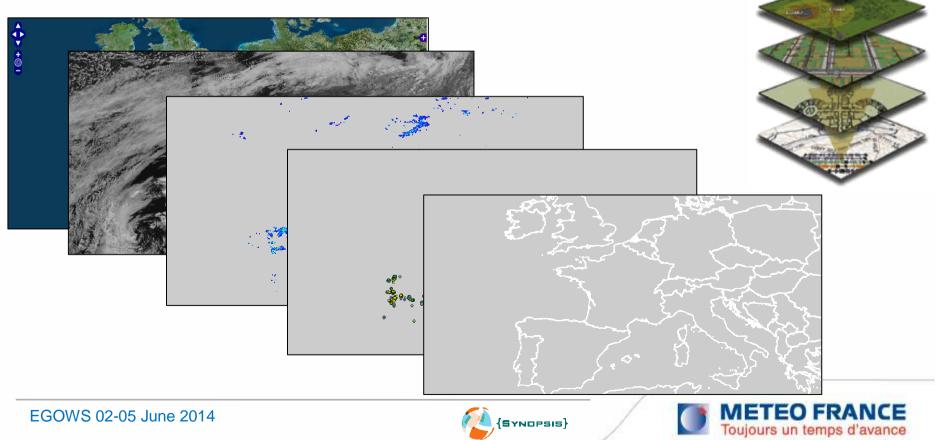




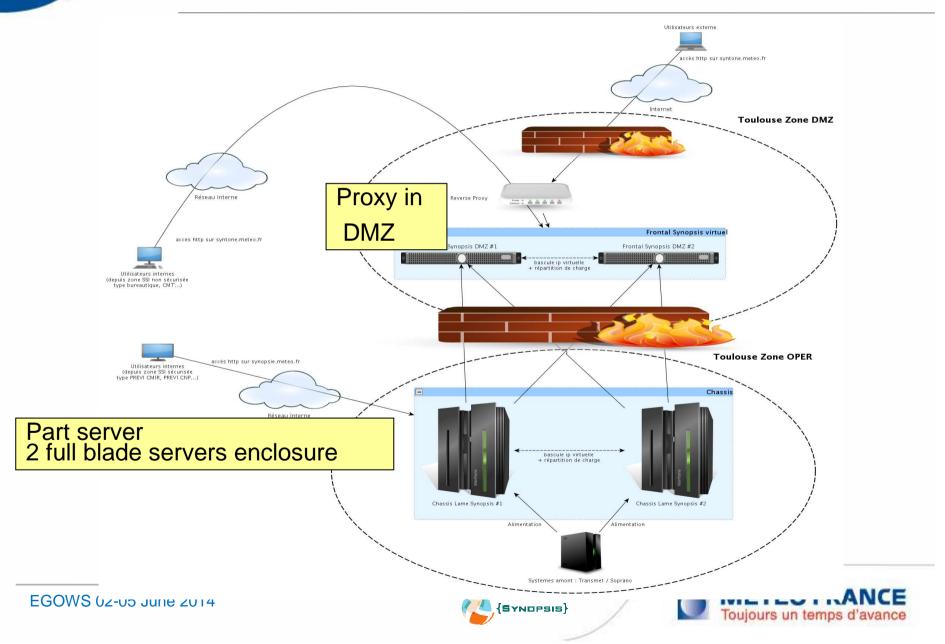
#### Several layers are requested from the client to the WMS server







#### Technical choice : Hardware infrastructure







Panel of users supporting the project

#### They:

- Test versions under development : performance, ergonomics, new functionalities and non regression
- Complete anomaly sheets
- Give precisions on some specifications upon request from developers
- Help to train other users







#### **Users** documentation

- Choice of an editorial process (SCENARI/DOKIEL)
- Production process of homogeneous structured documents
- Block Writing independent from the final look (WYSIWYM)
- Easy update
- Use of a documentary model which can be adapted to each client
- Easy versioning
- Different outputs (online web, pdf, ppt, …) → direct access from the GUI



















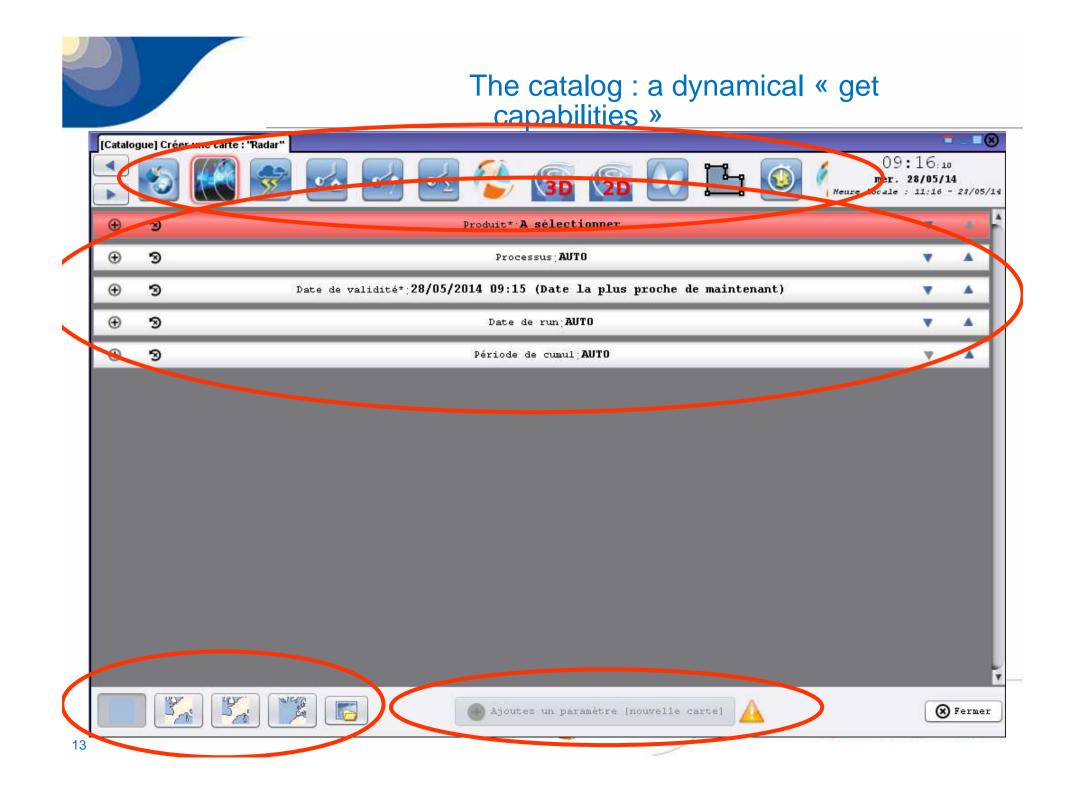


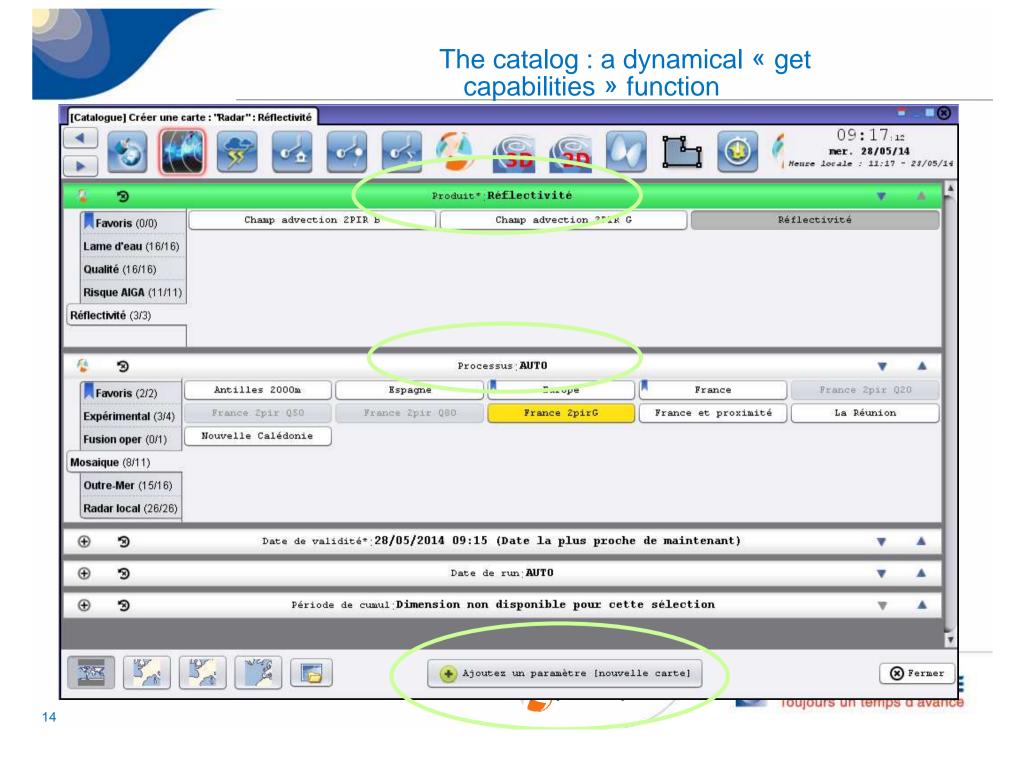
Shared into :

- Menu bars : in principle, all functionalities are available for all users !
- General functionalities area (all users)
- Specialized functionalities area
- Personal functionalities area  $\rightarrow$  customization











#### Map +Reflectivity RADAR

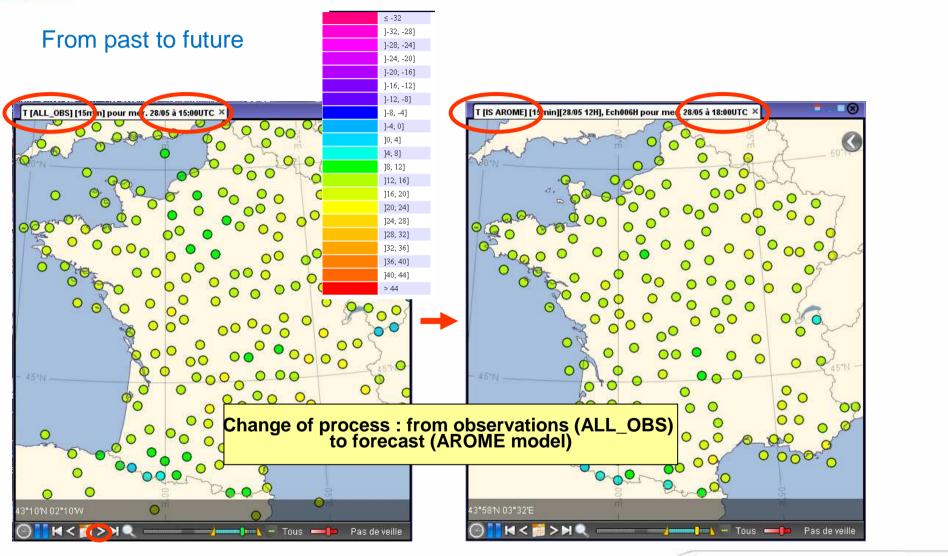








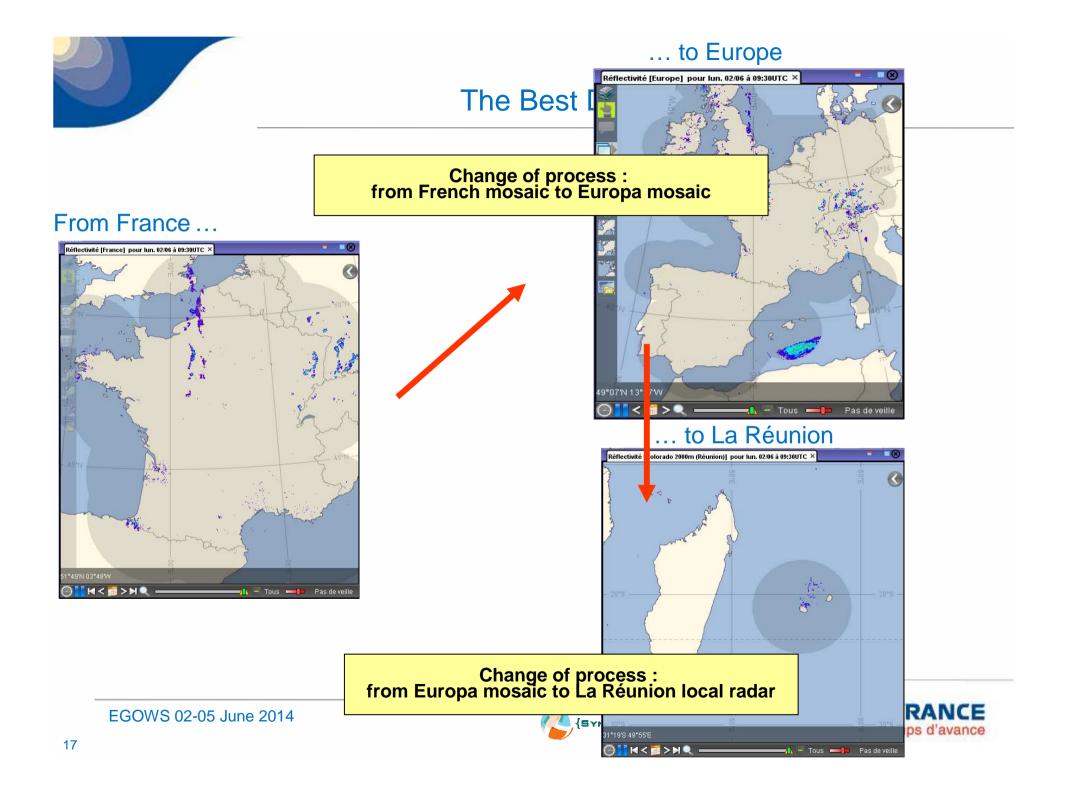
#### The Best Data Set ...



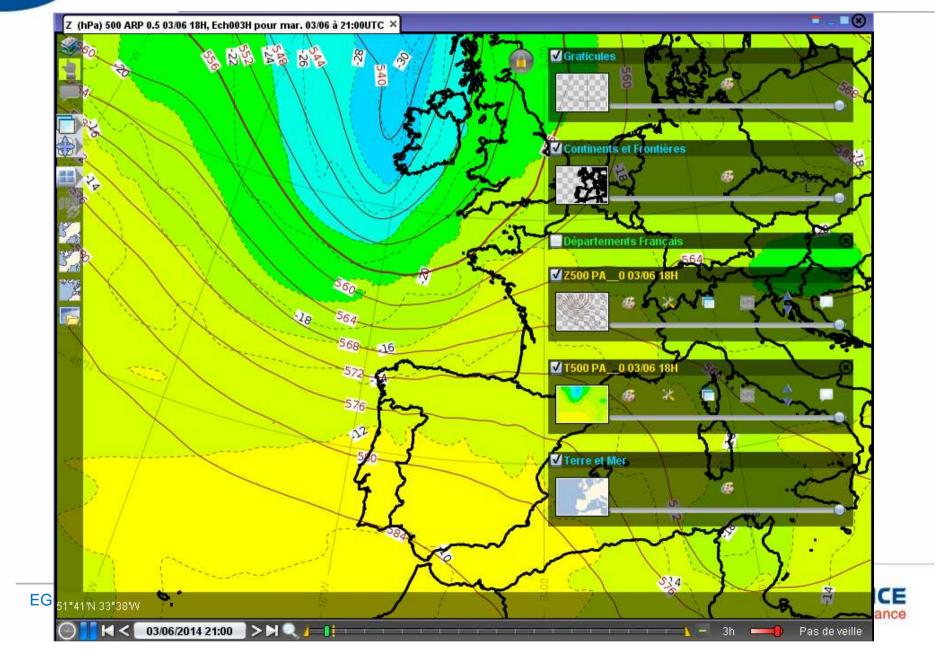
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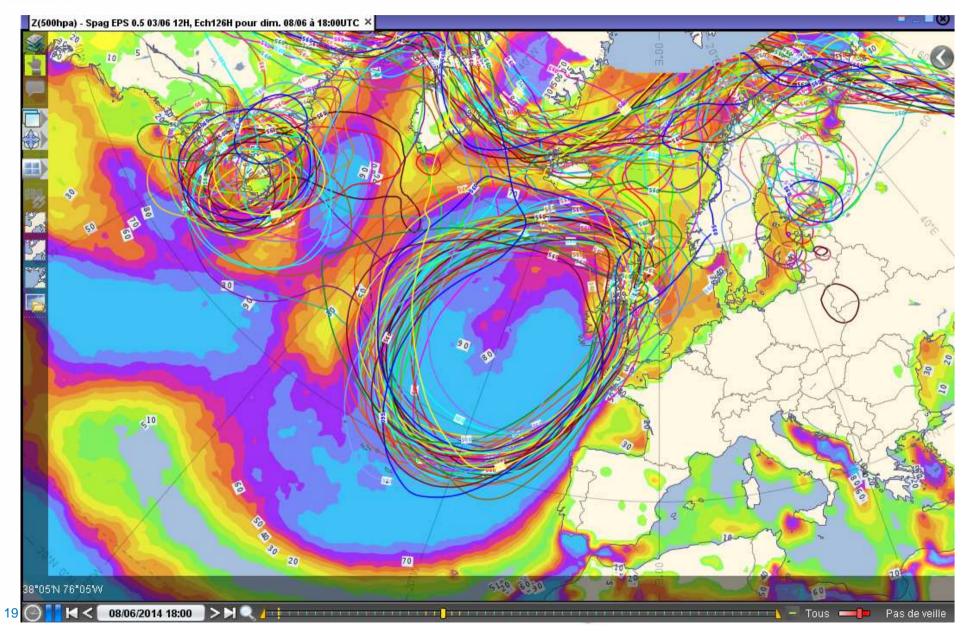


#### Model

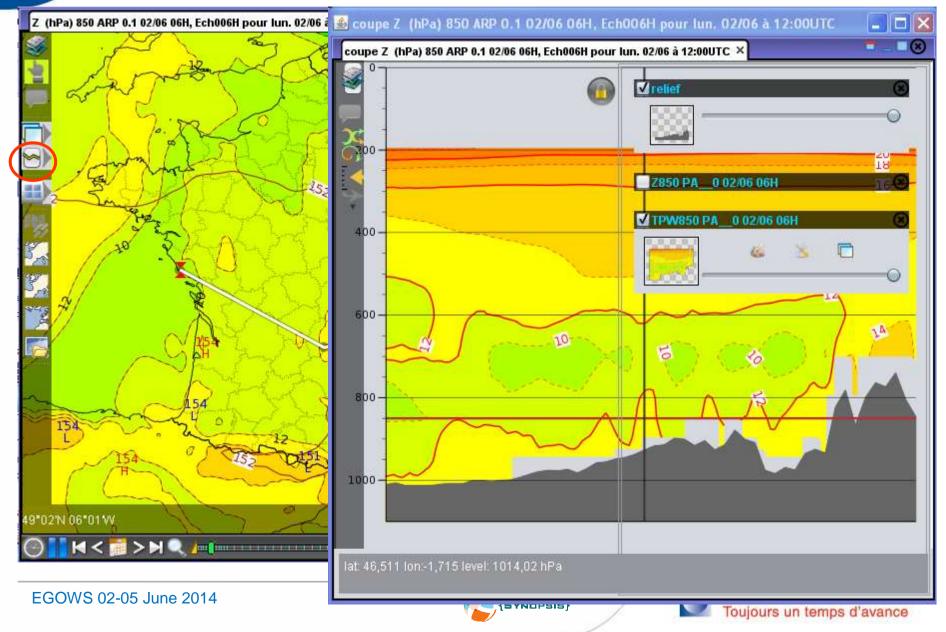




#### **Ensemble forecasting**

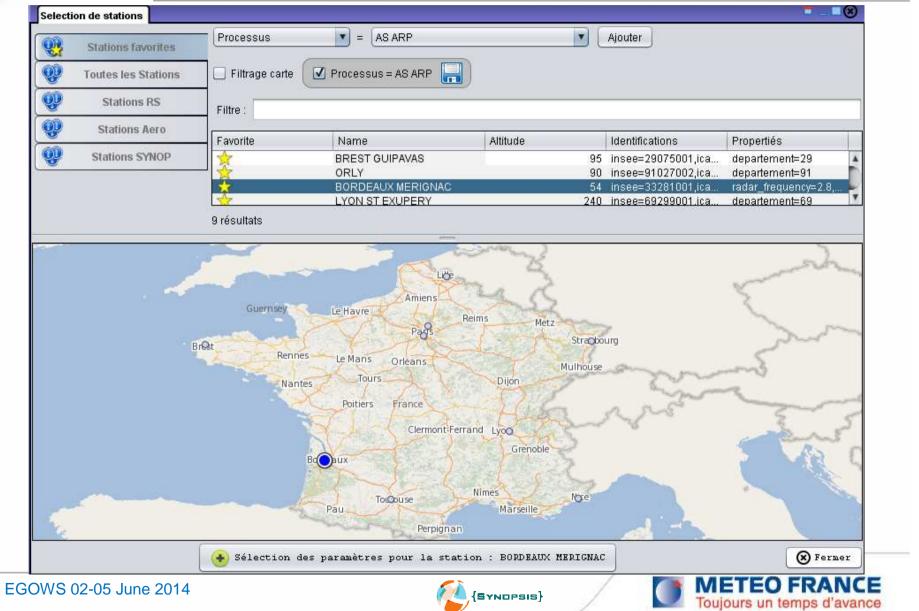


#### **Cross section**





#### Stations selector



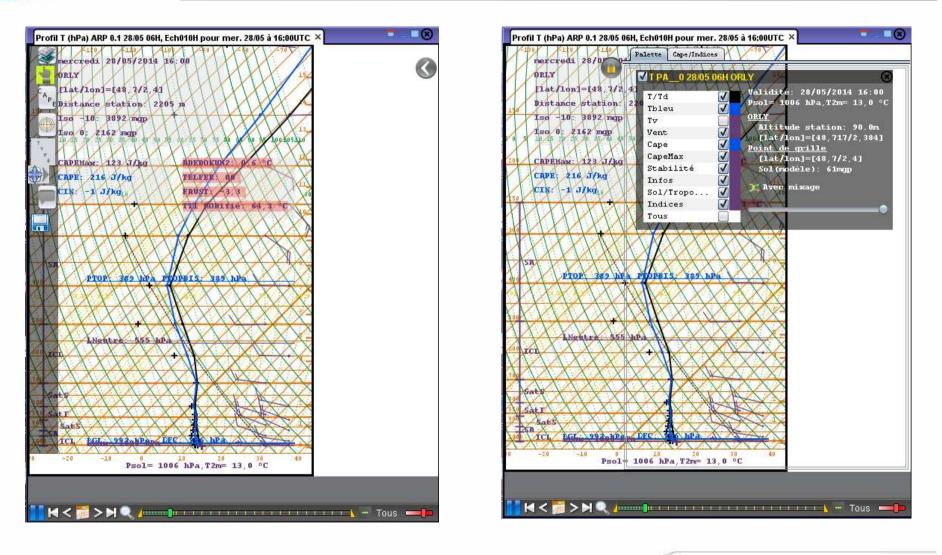


### Time series

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#### Vertical profiles

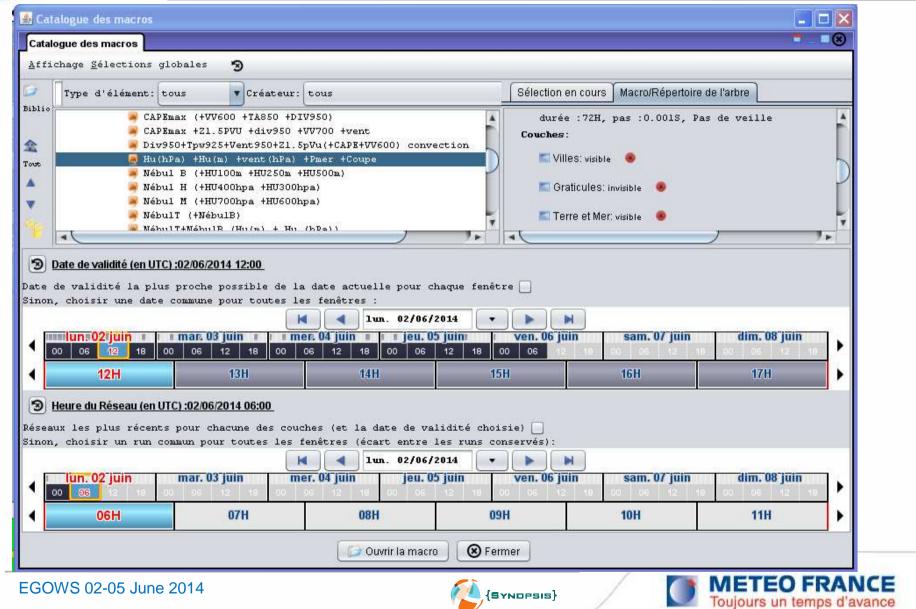




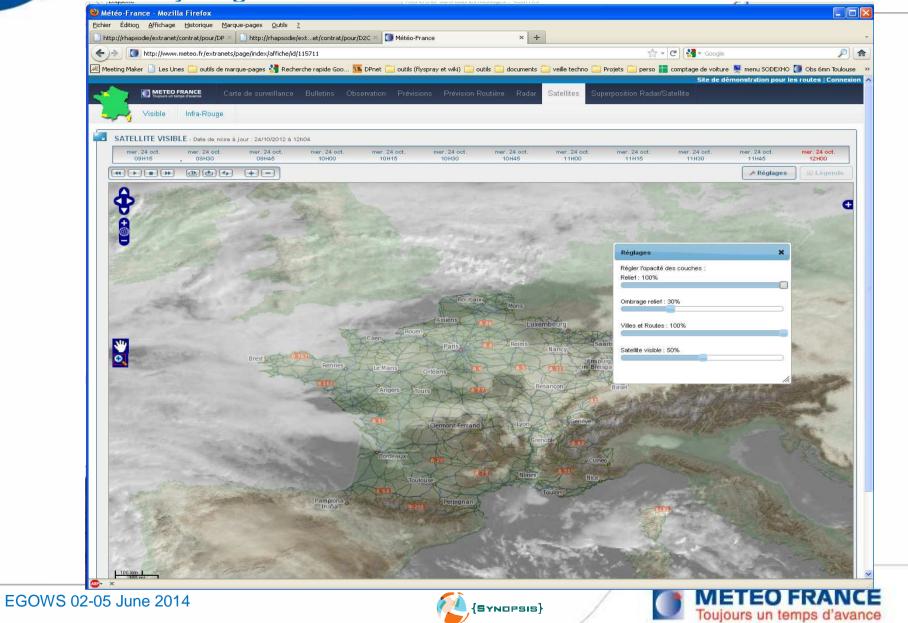




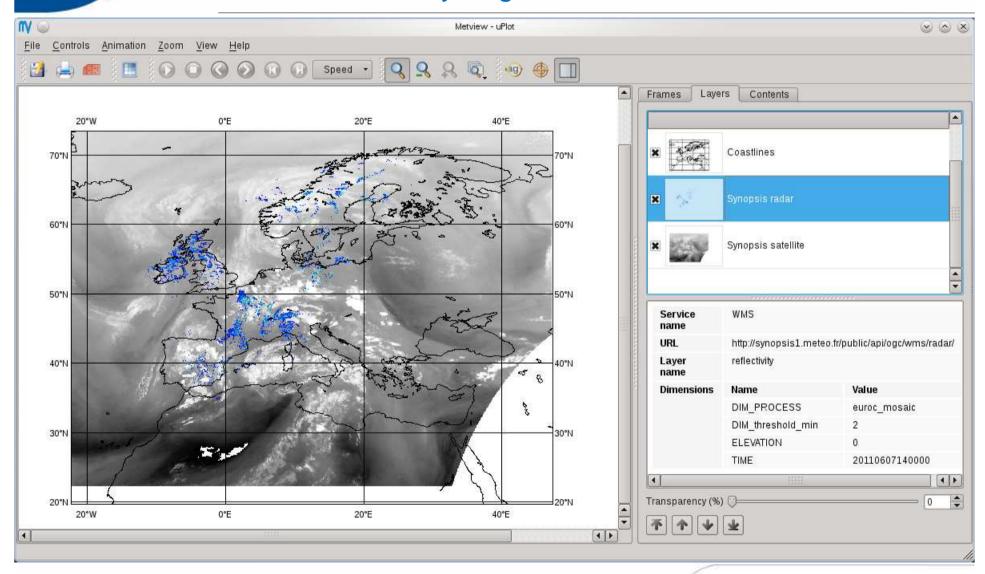
Macros



#### Synergie-Next server for our clients web site



### Synergie-Next with Metview









## Thanks for your attention !



## More details in demo session

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