Synopsis: last news

Antoine Lasserre-Bigorry, Hugo Vandeputte (Météo-France)

October 2018



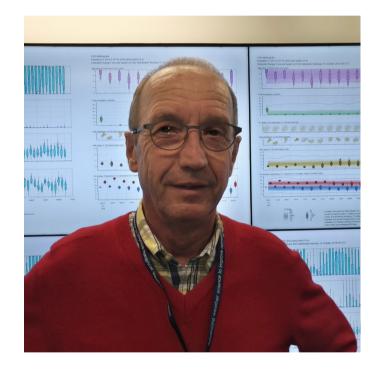
Synopsis: last news

Antoine Lasserre-Bigorry

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Météo-France/ Production Department

Projetct lead



Synopsis: last news



Hugo Vandeputte <hugo.vandeputte@meteo.fr>

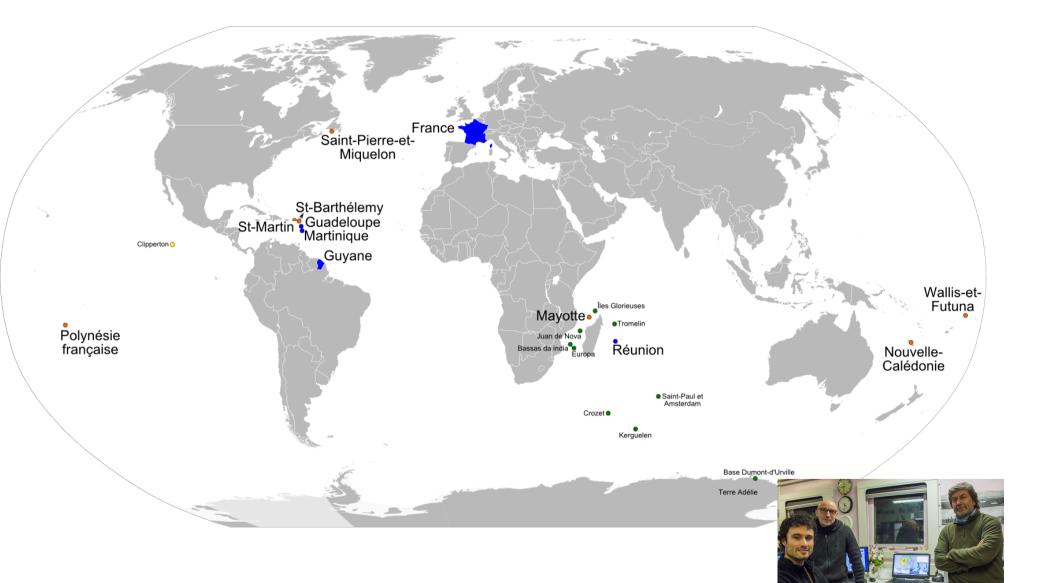
Météo-France/ IT department

Technical Lead of the Synopsis Client Software

The project is not over, (Q4 2018)

But it is massively used in operational mode since 2013

Overseas territories deployment



10/9 00[.]00

10/9 12:00

10/9 12:00

10/9 12:00

Usage statistics

10/4 12.0 38 operational servers (in 2 clusters) // 12.0

- 1200 distinct product atypes ter par seconde (total)
- \rightarrow 230 nominative users with max 60 windows

10/4 12:00 20 millions. HTTP: requests (190 every second in par second Max 402 Avg metani⁷! More than 400 in rush)

10/7 00:00

10/7 12:00

10/8 00:00

10/8 12:00

10/9 00:00

→ 1 300 GB of fresh data to assimilate

10/6 12:00

About 1900 users

10/5 12:00

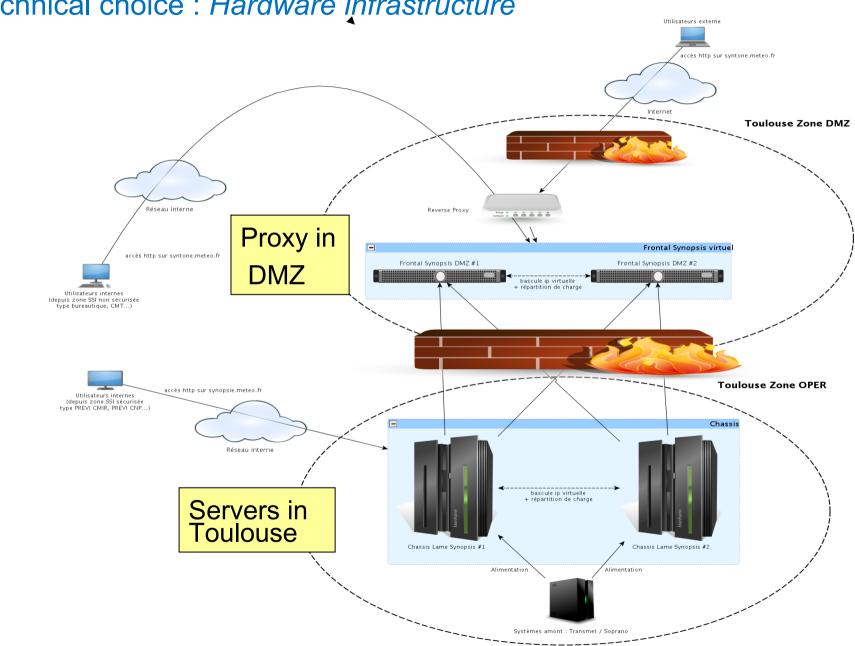
10/6 00:00

s simultanees Max: 888 Avg: 137 Current: 225

10/4 12:00

10/5 00:00

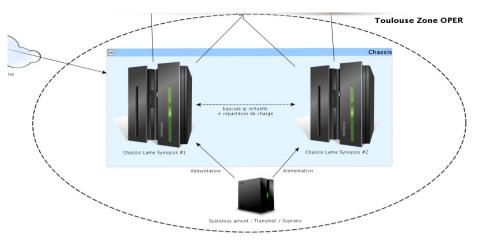
• By day:

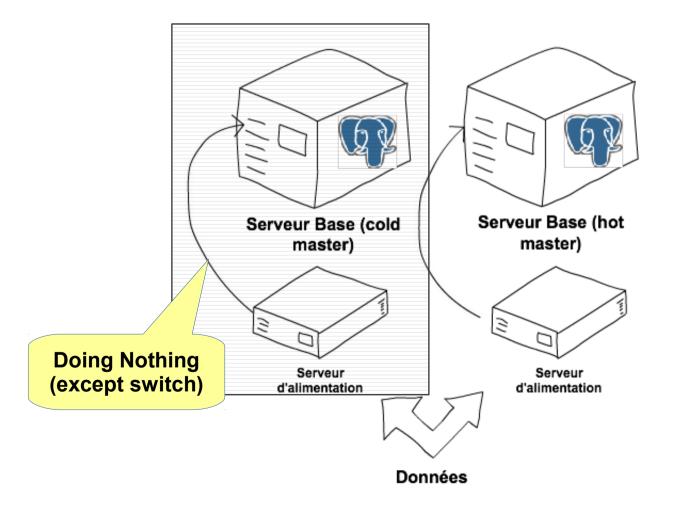


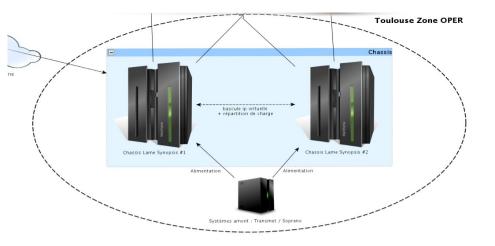
Technical choice : Hardware infrastructure

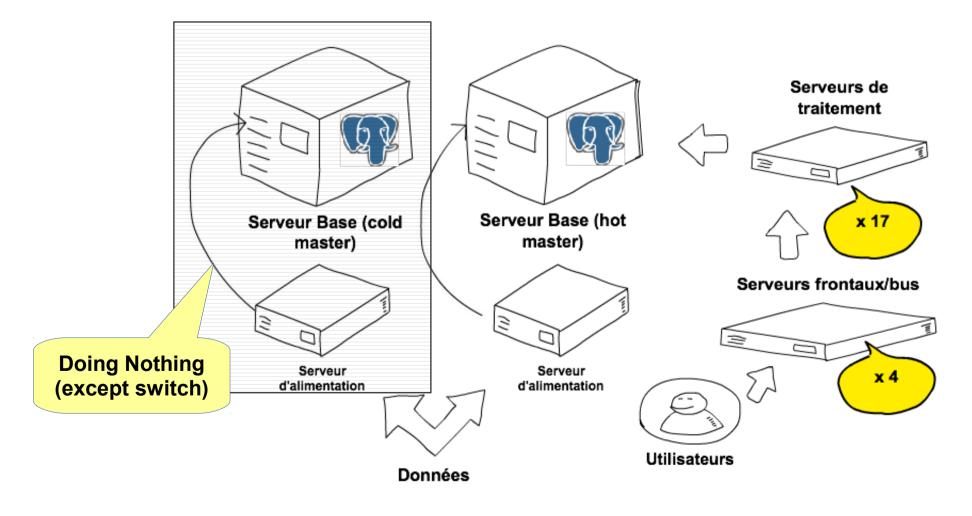
Houston we Have a problem !

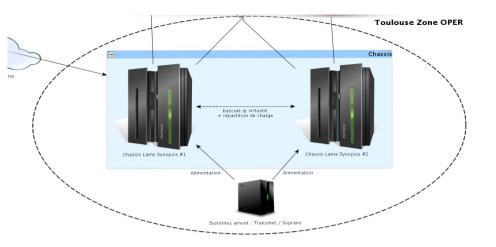
Too much job for a single database

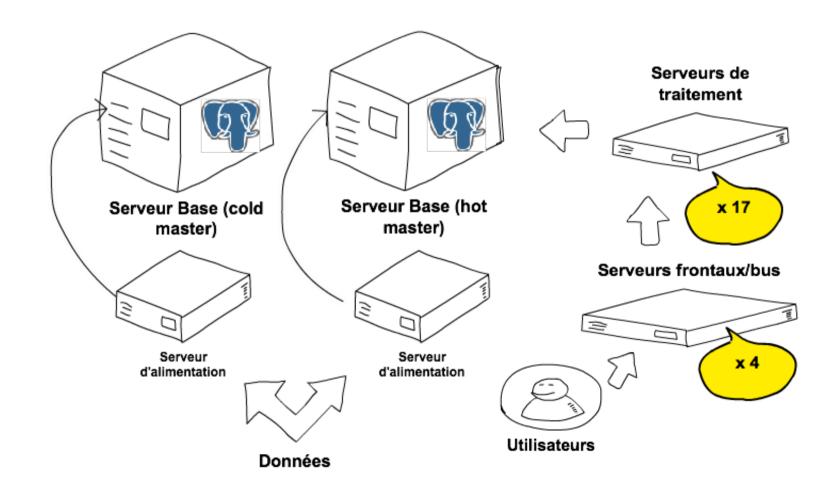




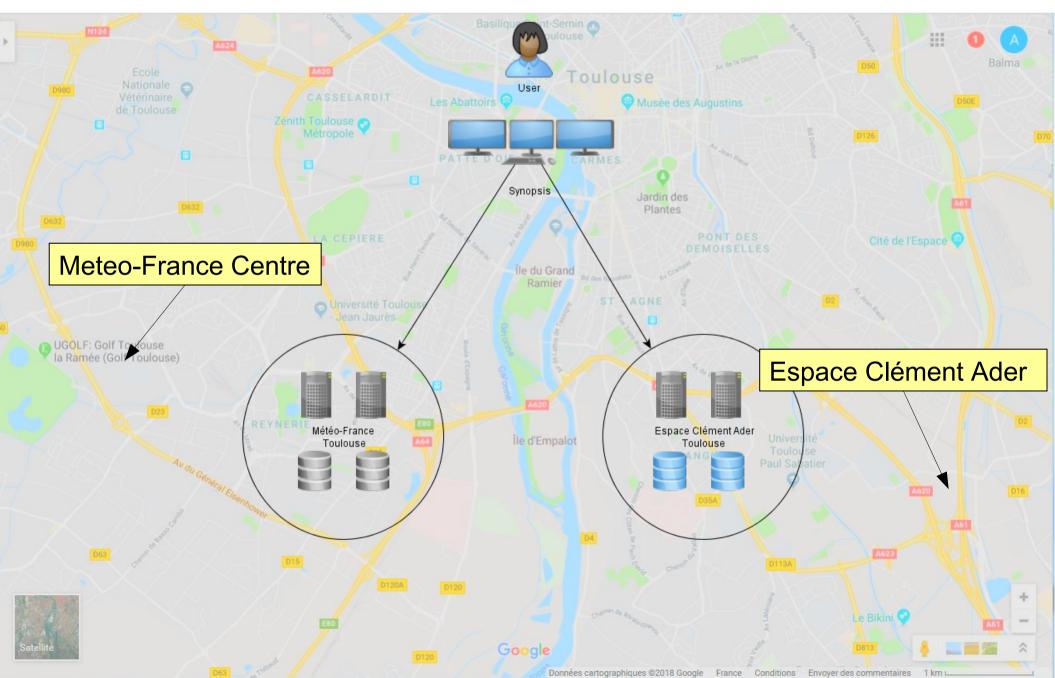




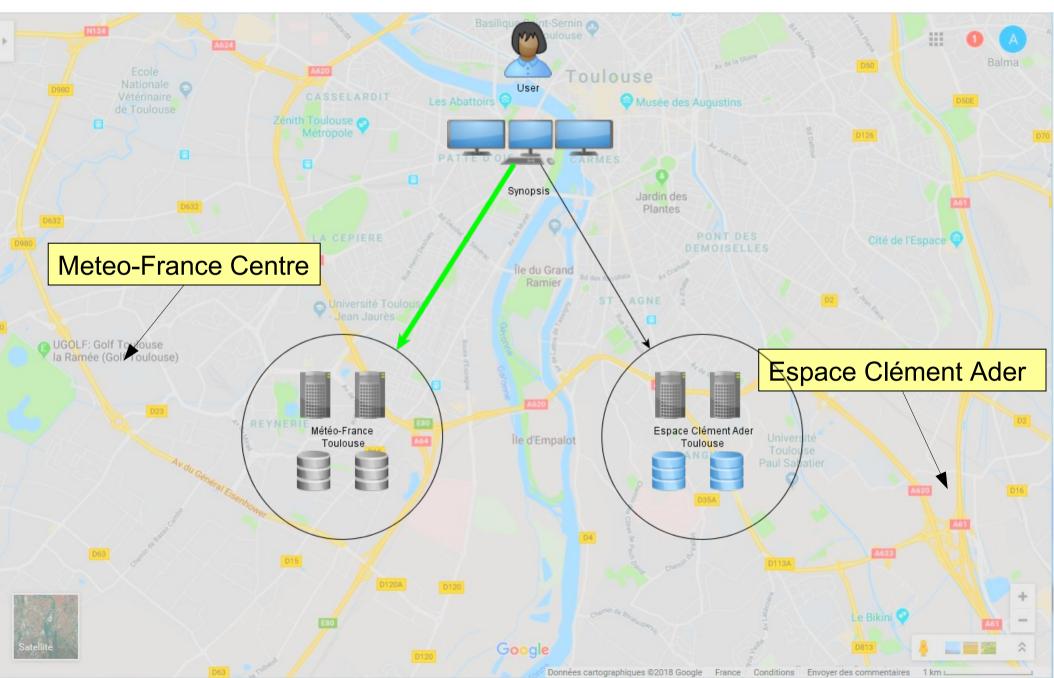




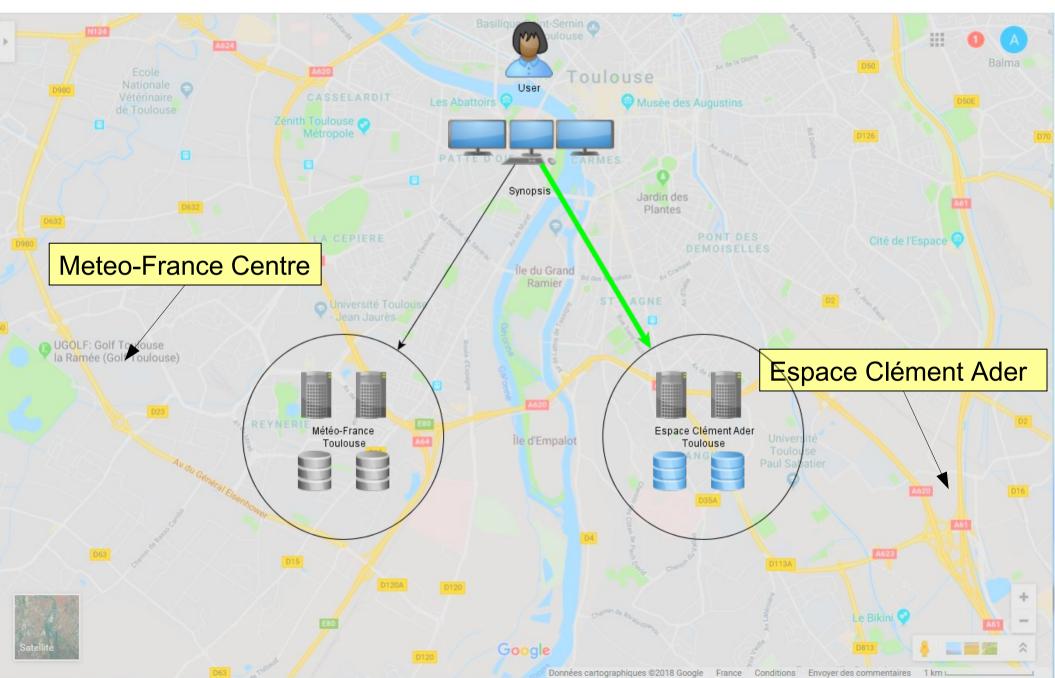
Two data centres in Toulouse



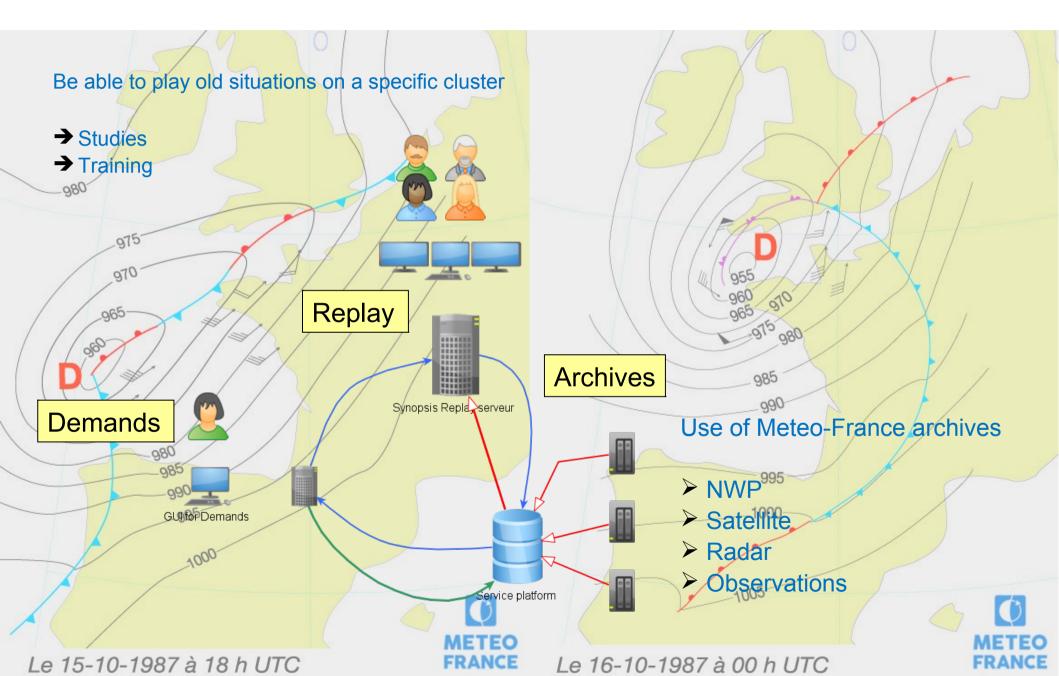
Two data centres in Toulouse



Two data centres in Toulouse

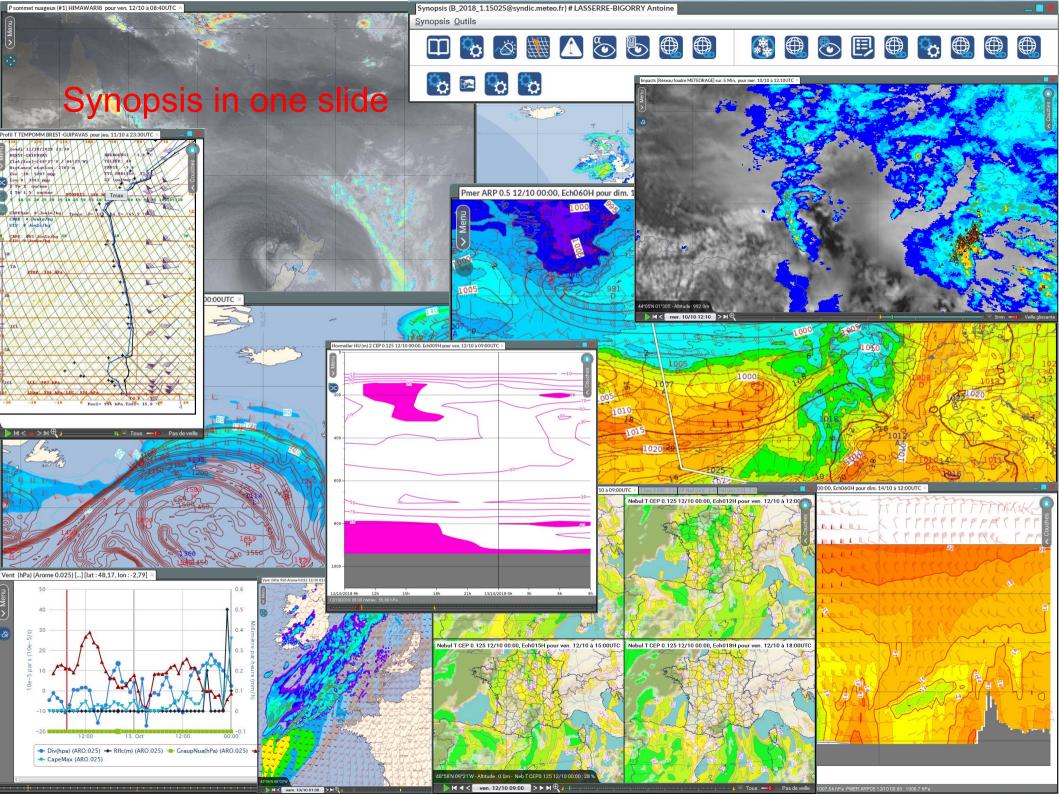


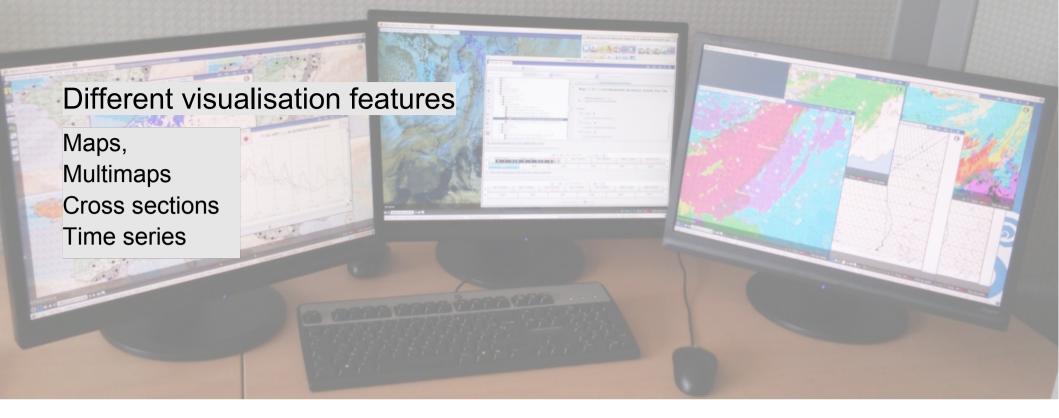
Replay with Synopsis



Now let's talk about the functional part

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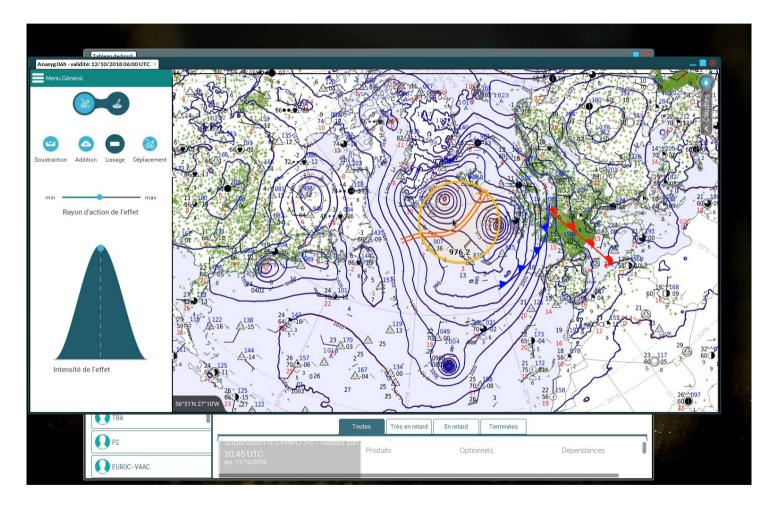




Many various expertized data entry

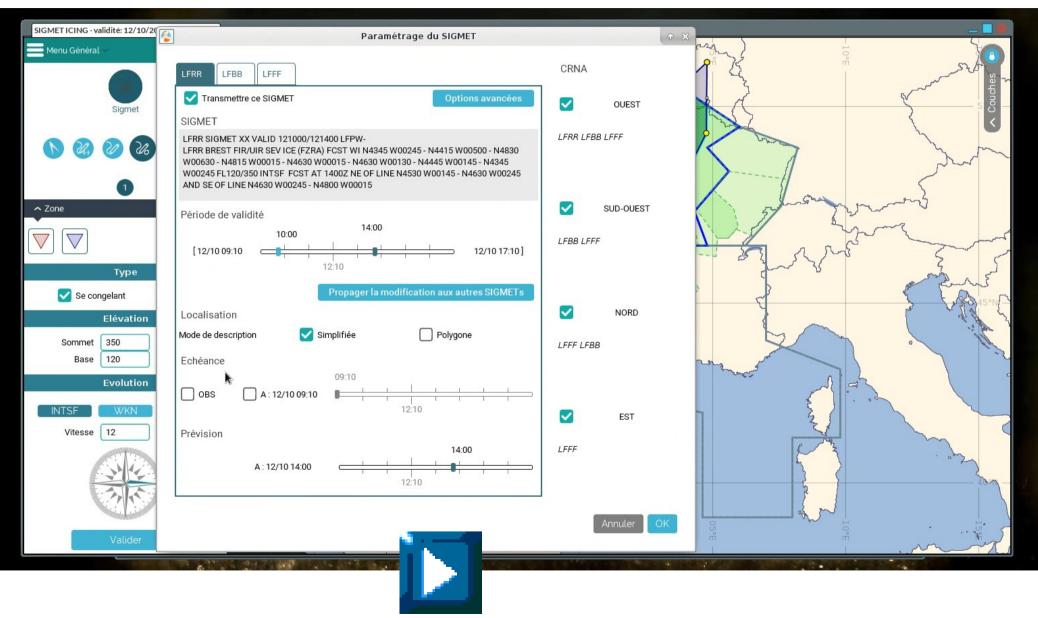
Situation analysis (analysis, anasyg) Forecast analysis (presyg) Volcanic Ash Activity (VAAC) Sigmets Special maps : for broadcating media or specifics customers

Analysis module

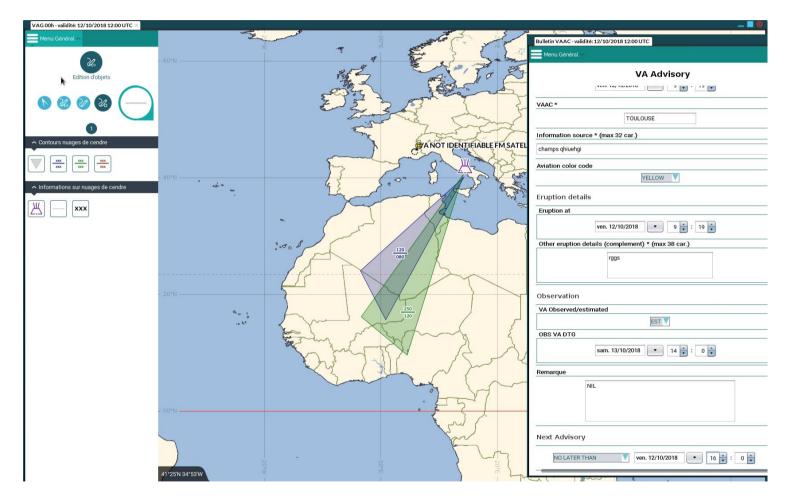




SIGMET

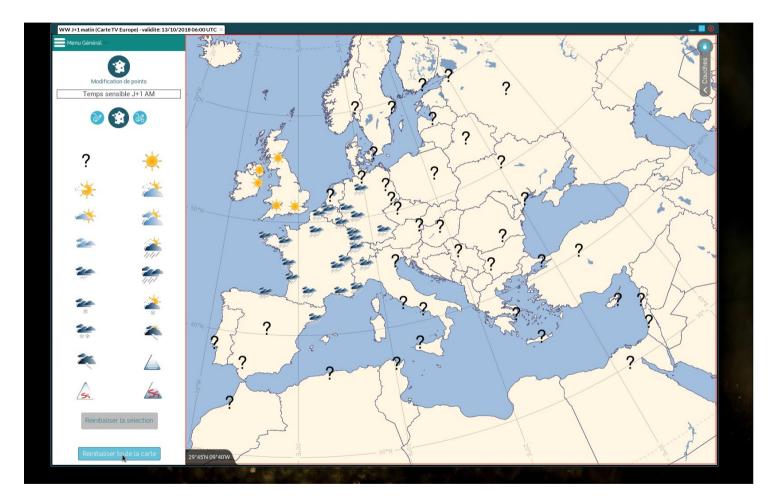


Volcanic ashes



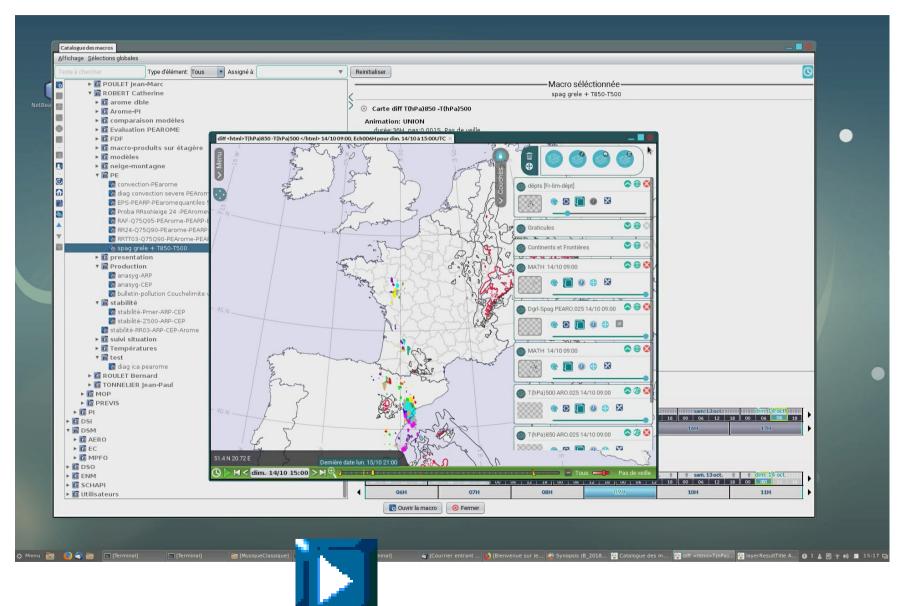


Broadcast media images

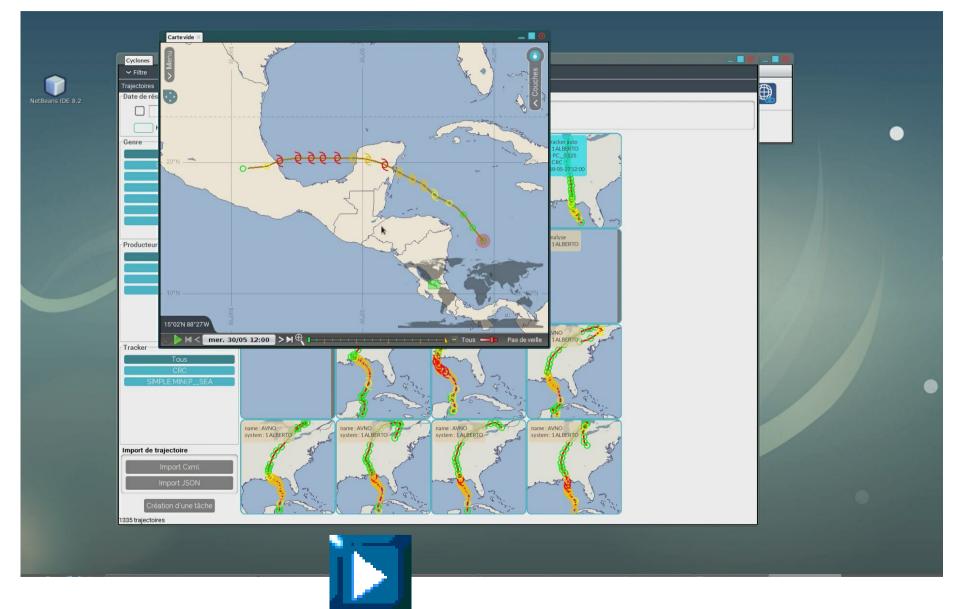




Mathematical calculation



Cyclones



To conclude :

- Synopsis is a great success
- Last operational version : June 2018
- Bugfix version October and November 2018
- Replace Synergie at Meteo-France and in oversea territories

What next ?

- Shift to post project
- Specific team for maintenance and evolution
- Synopsis as a unique platform for visualisation/production tools : new projects based on

Thank you for your attention See you on the demo this afternoon

Questions ?

Contacts :

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