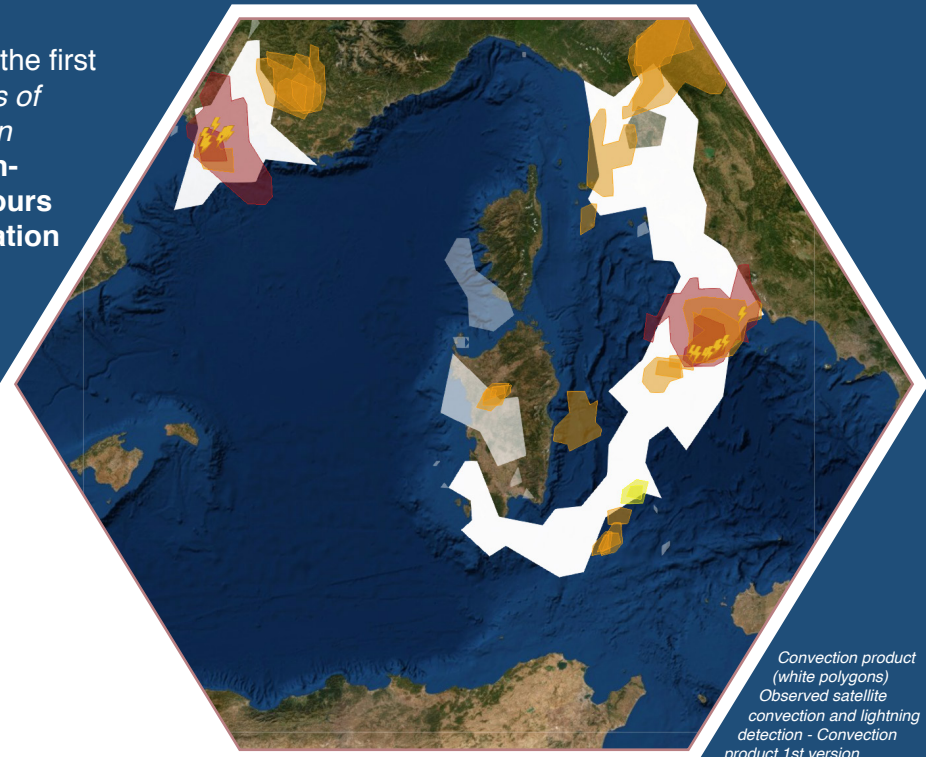


MET Enhanced ATFCM

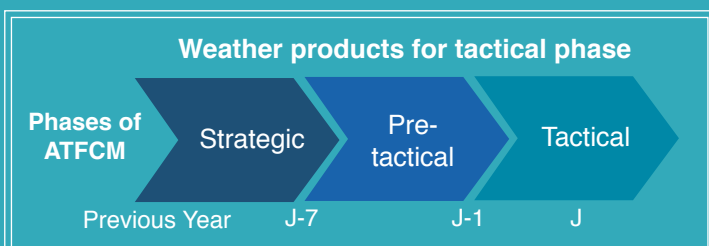
+6-hours forecast thunderstorm delivered as a SWIM Webservice

Because adverse weather conditions are the first cause of traffic delays (7,9 million minutes of weather delays in 2018, source: European Network Manager), an **accurate and high-precision convection forecast with 6 hours of anticipation** is studied by **France Aviation Civile Services** and **MetSafe** with the support of the **DSNA Reims UAC**.



Expected benefits

- Improvement of the **ATFCM decision-making process**
- Increase of the **safety level**
- Improvement of the overall **ATM system performance**



Project objectives

- Identify **MET needs for ATFCM**
- Develop a **MET product for convection with confidence index** (multi model / multi parameters)
- Deliver it as a **SWIM web service** for OPS validation
- Iterative **agile methodology**
- Benefit of early **SWIM implementation**
- Kick-off: May 2019 (12 months activities)



Operational context

- **Feedback from DSNA Reims UAC:** limitation of nowcast capabilities, lack of convection product forecast >1h, product fit for decision making, impact qualification, SWIM as a vector for fast integration into ATC tools
- **Supported by cross-border Weather trials** in the summer of 2020

SWIM delivery

- 4me project opportunity
- Access to the ATC OPS room
- WFS2.0 compliant with AIRM
- Forecast +6h / Step +1h
- Introduction of a confidence index
- Early technical integration into DSNA Reims UAC web HMI

