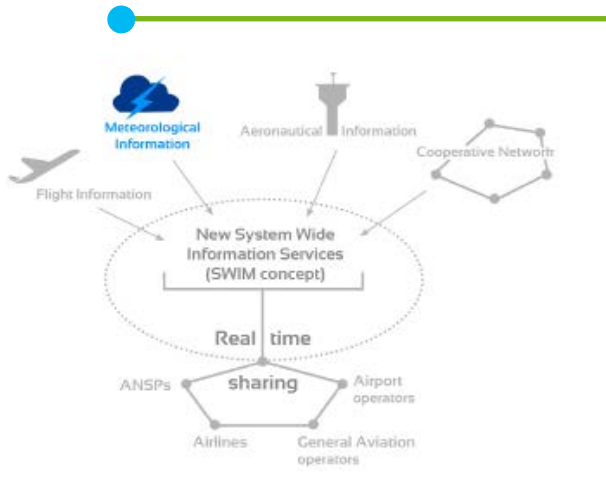


POWERED BY
SESAR
JOINT UNDERTAKING



The **TOPLINK demonstration project**, bringing together 14 European partners, will test- after specific training for pilots, airline ground flight dispatchers and air traffic controllers- a panel of new **MET services**, in order to optimise performance during adverse weather conditions, such as thunderstorms and severe icing conditions.

3 national MET services, to serve TOPLINK project



In the context of the TOPLINK project, **Météo-France**, the **Finnish Meteorological Institute (FMI)** and **Germany's Deutscher Wetterdienst (DWD)** ensure the provision of new meteorological products, delivering training that will ensure ATC and Airline users can integrate these new products into their operational procedures.

11 categories of TOPLINK MET Information

F Forecast information

- Wind
- Temperature
- Humidity
- Icing
- Turbulence
- Snow (condition of snowfall)
- Sleet
- Freezing rain
- Visibility

O Observation (+Nowcasting) information

- Lightning

F + O - Convection

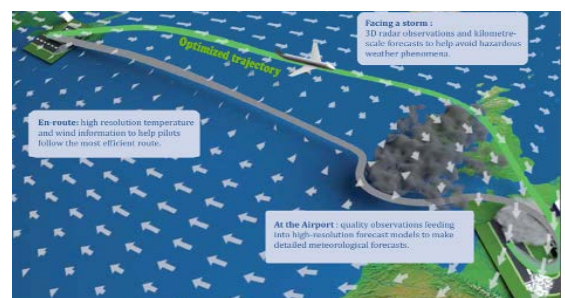
> **Geographical coverage** (depends on the MET information categories) : Europe, Africa and parts of North Atlantic areas.

> **In-flight MET information coupled with Airport MET information**

TOPLINK MET Information complements:

- the **regulatory aerodrome observation and forecast products** normalized by ICAO (International Civil Aviation Organization)
- the **meteorological flight documentation received before take-off** which contains products of WAFC (World Areas Forecast Centres) and National MET services, TAF METAR (Aerodromes), and SIGMET.

>>> Read more by consulting the «User Guide» available on request at the following address: anne.cormont@meteo.fr



TOPLINK Partners



New generation meteorological services for aviation developed by EIG EUMETNET members in the context of SESAR (WP 11.2)...



OBJECTIVES

- **Enhancing existing MET capabilities** to improve the accuracy and suitability of the meteorological information
- **Tailoring solutions** for ATM applications, both on the ground and on board (consolidation and translation of European MET information)

EIG EUMETNET is a grouping of 31 national meteorological services that provide a framework to organise cooperative programmes between members at the European scale.

FEATURES

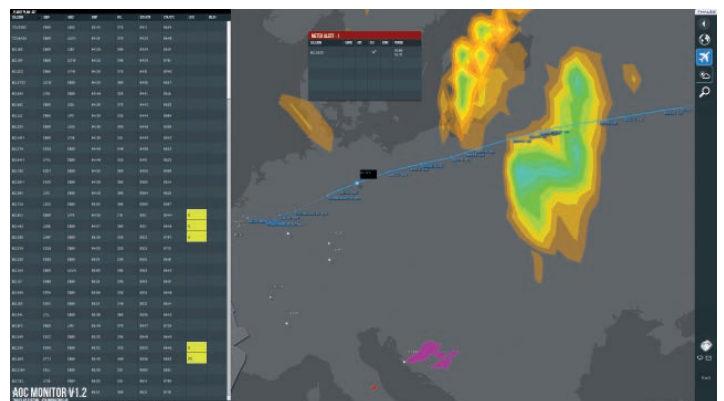
- > **Consistent MET information** regarding location, time and user application to reduce the risk of conflict and to enhance ATM predictability
- > **Common and harmonized MET information**
- > MET information based on **the latest science and enhanced observation and forecasting capabilities**
- > **Interoperable MET information** within the European ATM system via SWIM (sharing data between airlines, navigation services

- and airport operators)
- > Integrated MET information **into ATM decision making** whether automated or human.

4DWeatherCube MET-GATE

National MET services, members of EIG EUMETNET, are bringing together their expertise to develop a new generation of meteorological observing and forecasting systems for aviation. The **4DWeatherCube MET-GATE system** which generates and transfers ATM tailored MET information is the technical response to SESAR MET challenges.

Read more by consulting the fact sheet available at the following address: http://metgatelab.meteo.fr/static/img/Fact_sheet_METGATE_I2_A5_3.pdf



> MET information superimposed on aircraft trajectory and ATM information. Copyright ©TOPMET 2014

PROJECT BACKGROUND /TOPMET Demonstration Project

The project concept and architecture builds on the **TOPMET Demonstration Project**, addressing essentially the use of MET Information services, and extends towards the whole scope of the PCP AF5 (including Aeronautical Information Services, Network services, and –partly- Flight Information services).