P2 (72) – A smart framework for weather awareness

Motivation

• Aeronautical MET information is pivotal
• ICAO MET services, especially for terminal area, are not enough and climate change / traffic / safety / environment will influence the future MET information and service content.
• Consistent, interoperable, concise and fit-for-purpose weather information is a fundamental ingredient to improve global situational awareness.

Drivers

• ICAO/GANP * ASBU * SWIM * SESAR * SESAR2020
• ICAO/WMO CAeM: Restructure of Annex 3 / new Procedures for Air Navigation Services for MET
• National: German Federal Aeronautical Research Programme 2016-2019

Poster presents …

• R&D on inter alia visibility detection (3D ceilometer/infrared camera), turbulence and wind shear (radar and lidar), glide slope related information for TMA, cross wind impact, Microburst radar overhead assessment
• Solution for web-based and human centric decision support framework
• R&D on translation ATM MET information to ATM impact metrics