



# SESAR2020 IR PJ18-04b MET information

## Progress and expected results

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PJ18-04

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Founding Members

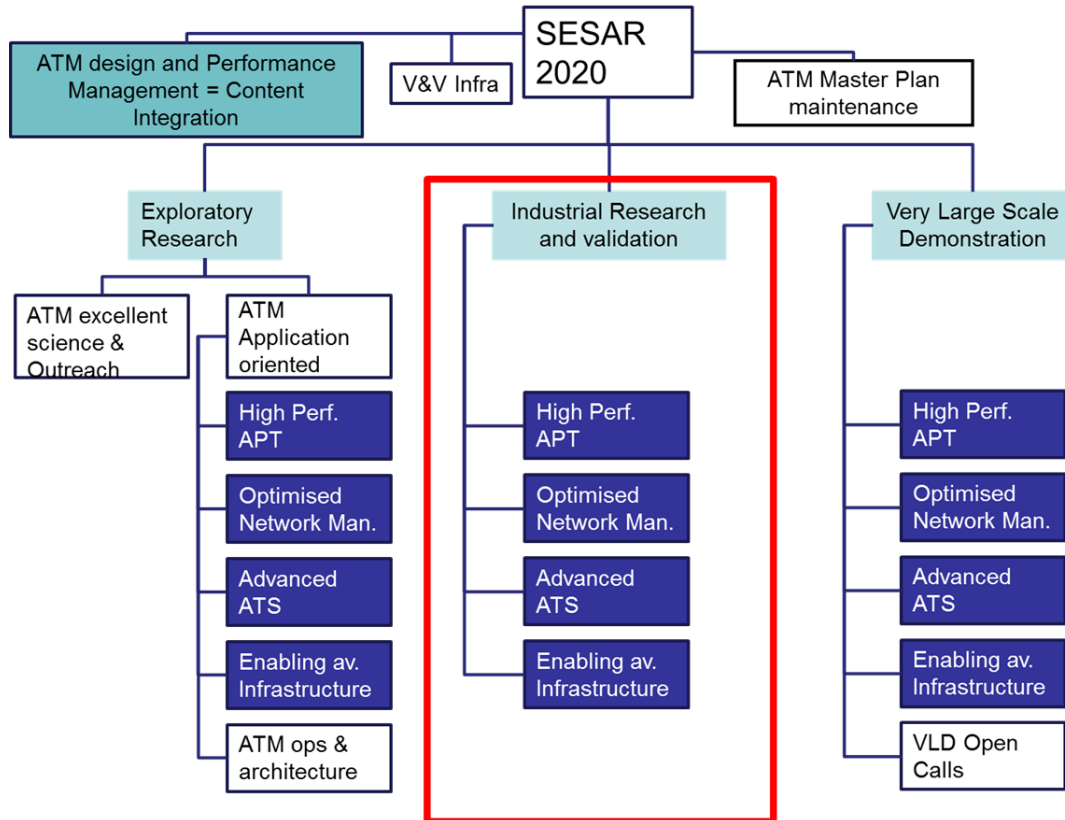


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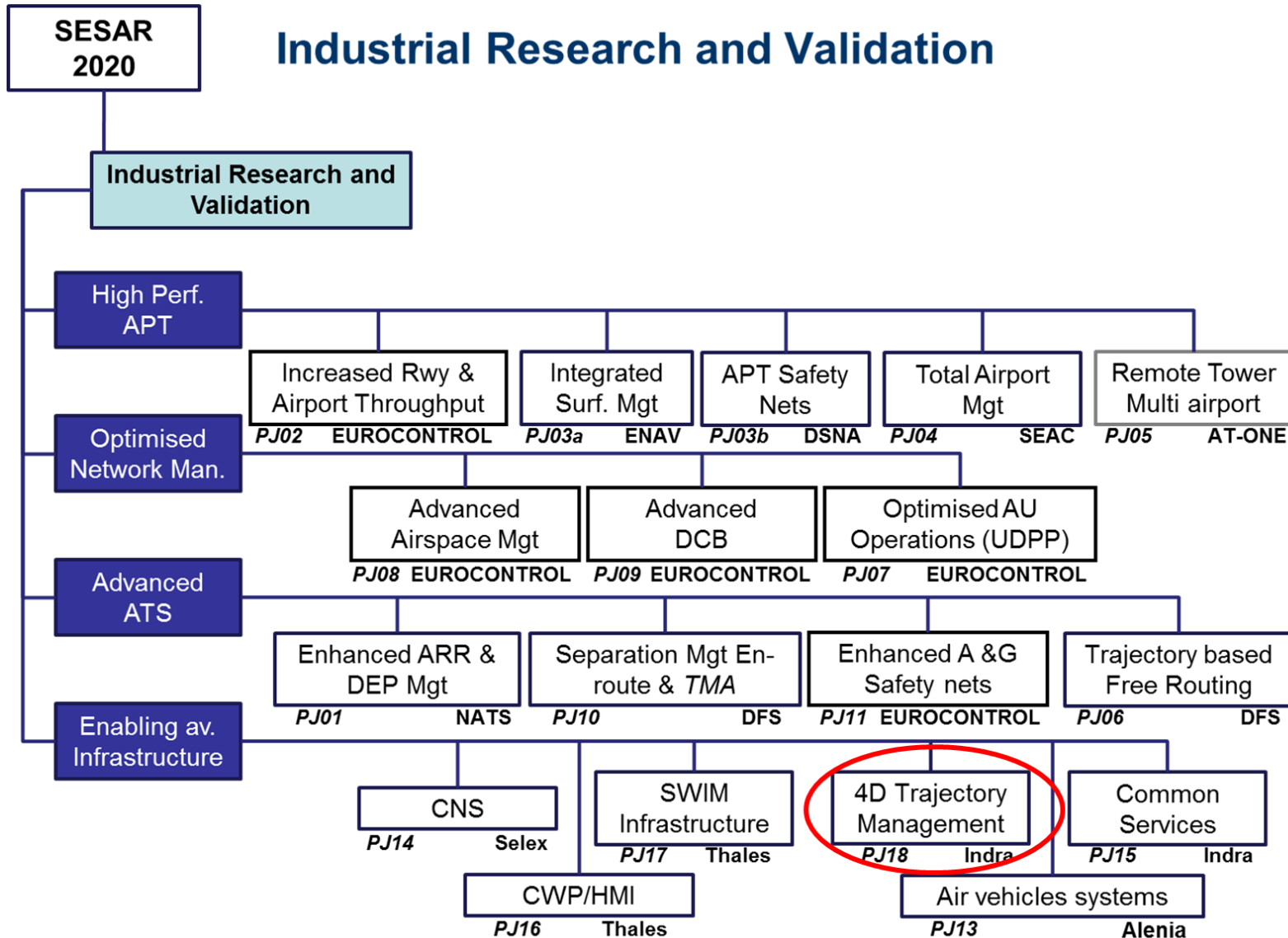


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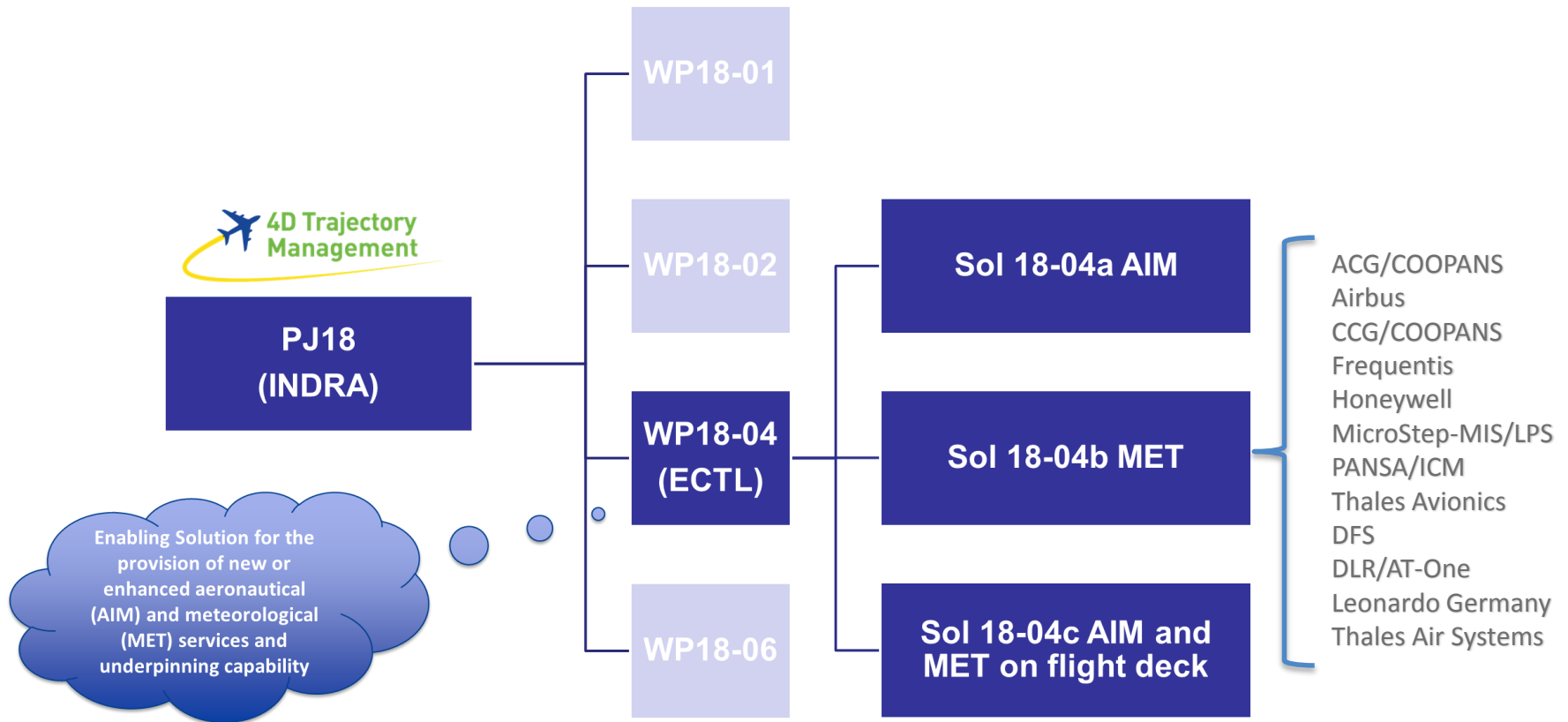
# SESAR 2020 Landscape



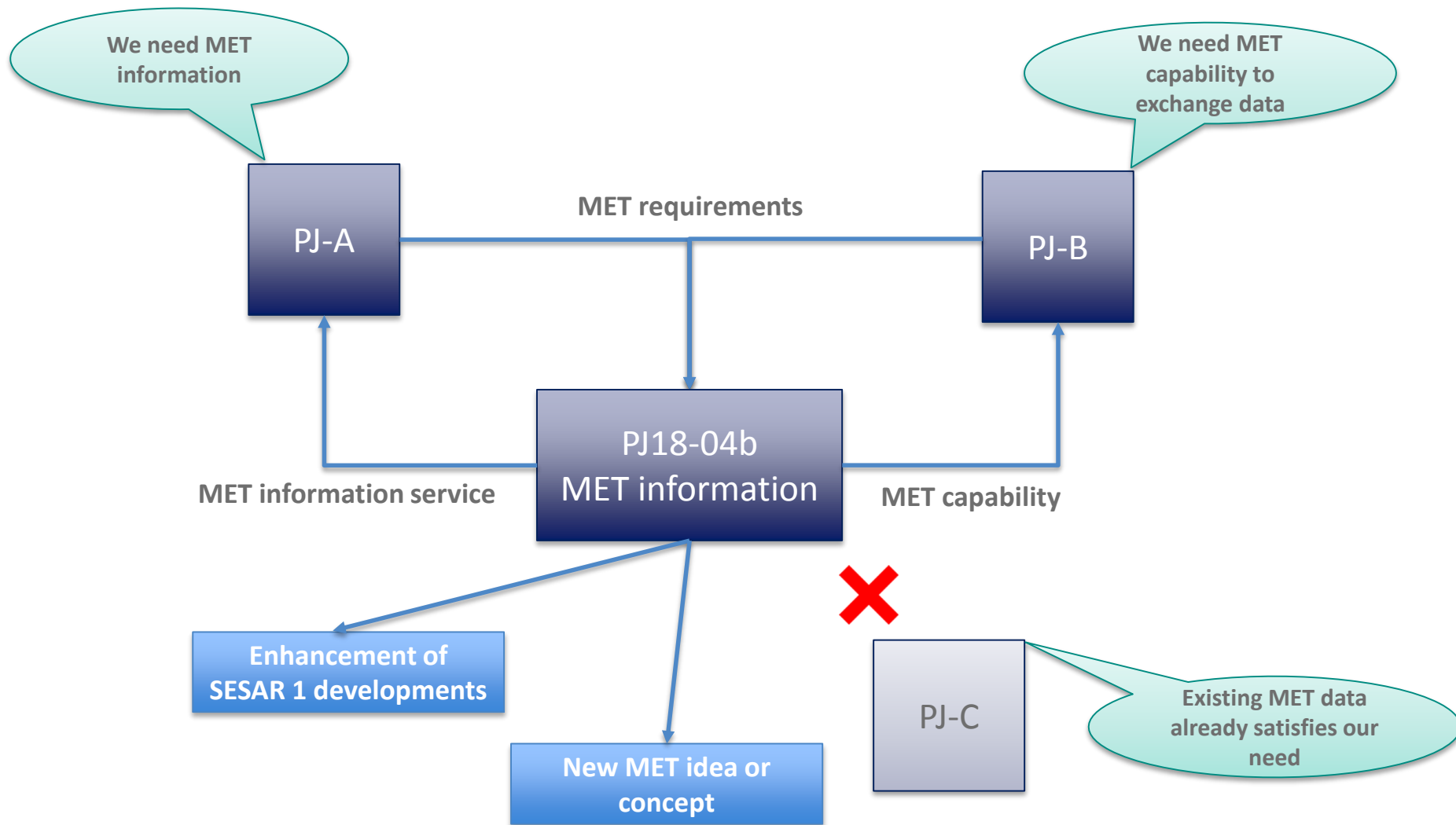
# SESAR 2020 Landscape



# PJ18 Structure

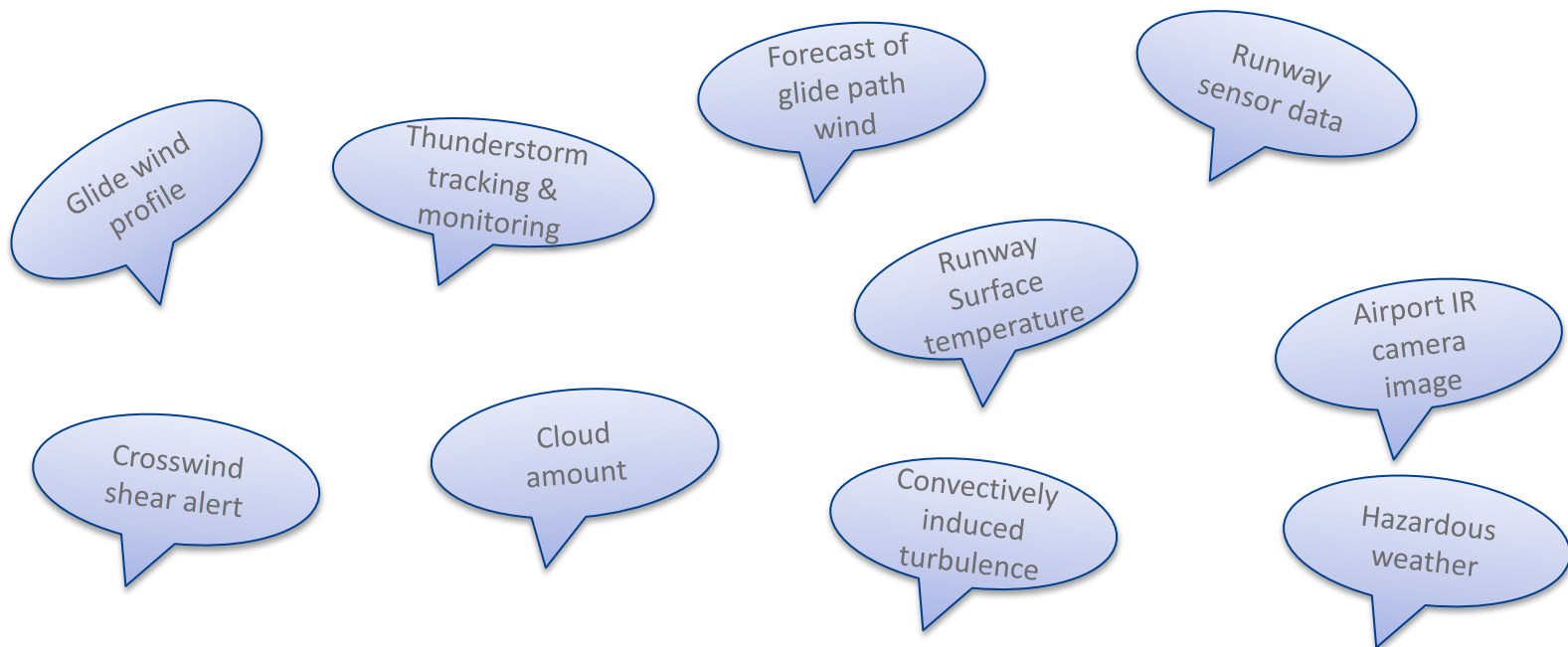


# Ways of working



# Overview of current links

- PJ02-01 Wake turbulence separation optimization
- PJ03b-06 Safety support tools for runway excursions
- PJ04-02 Enhanced collaborative airport performance Management
- PJ05-05 Automatic remote MET observer system
- PJ17-01 SWIM Technical Infrastructure purple profile
- PJ18-04c AIM&MET on flight deck



# Overview of current activities - 1

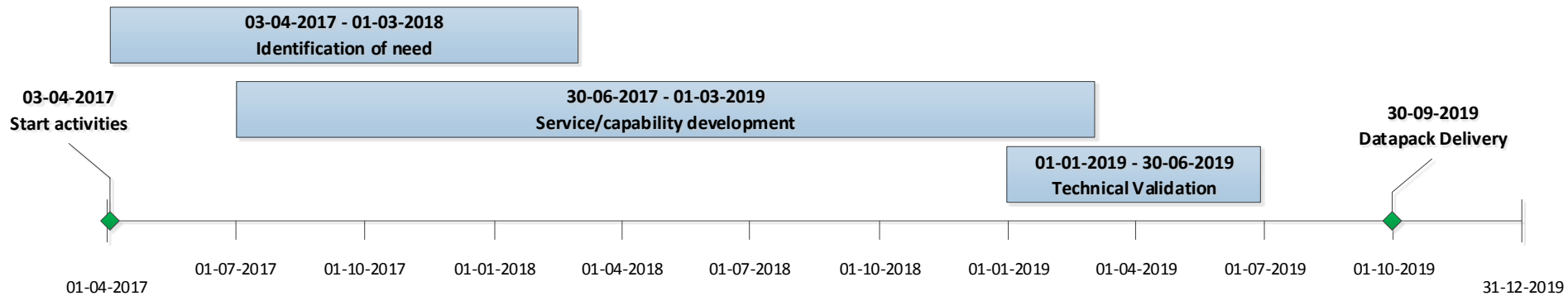
- **Glide Wind Profile Service**
  - *Provides glide wind profile information and alerts for glide slope wind, forecast specifics*
- **Ground Weather Management System enhancement**
  - *Local instance of the 4DWxCube that collects data from different sources and acts as a single source for local MET information*
- **METforTAM Service**
  - *MET information service that supports airport operations*
- **Runway Monitoring and Forecast service**
  - *provides runway sensor data, weather data, NWP for airport location and current and predicted runway condition*
- **Remote Tower MET service**
  - *MET information service that supports remote tower operations*

# Overview of current activities - 2

- MET Hazard Information service
  - *provides MET hazard information to be uplinked to the cockpit*
- Cb-global capability
  - *detect, track and nowcasting thunderstorms using data from geostationary satellites*
- Airport Integrated Camera Imagery capability
  - *provide standard and infrared video streams according to specified viewing angles related to cloud amount, visibility and special weather phenomena*
- Climate Change Function – contrail occurrence component
  - *provides data related to contrail occurrence in ice supersaturated regions of the atmosphere*
- CONVOY capability
  - *prototype development on detection and nowcasting system to provide high quality convection analysis and forecasts to air traffic controllers*



# Solution timeline



# Expected results



- +/- 10 validated prototypes providing the required MET information
- New or enhanced MET information available to consumers
- Target maturity level – TRL6 (V3)
- Identification of opportunities for follow-up research

Enhanced situational awareness for relevant stakeholders

# Questions?





PJ18-04

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# Thank you very much for your attention!



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Founding Members



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