

European Standardisation on MET/AIS Data Link Services

EUROCAE WG76 status

Dennis HART

Disclaimer

- Other partners in WG76 present today

CONTEXT

Implementing the Single European Sky

5 pillars



CONTEXT

SESAR Priority Strategic Business Needs

MOVING FROM AIRSPACE TO 4D TRAJECTORY MANAGEMENT

Integrating
airspace users
flight systems to
build predictable
time synchronised
flight precision



TRAFFIC SYNCHRONISATION

Improving
arrival/departure
management and
sequence building
to allow flying
closer to the
optimum
trajectories



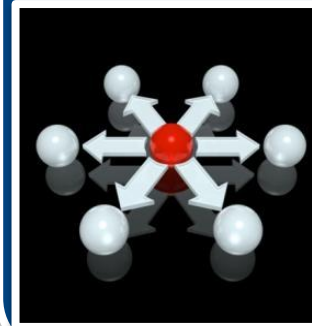
NETWORK COLLABORATIVE MANAGEMENT AND DCB

Integrated with
airport operations
planning and
airspace user
flight planning



AIRPORT INTEGRATION AND THROUGHPUT

Integrating
airports - time
synchronised
operations of
surface
trajectories and
flight turn-around



CONFLICT MANAGEMENT AND AUTOMATION

Human operators
concentrate on
high value-added
tasks



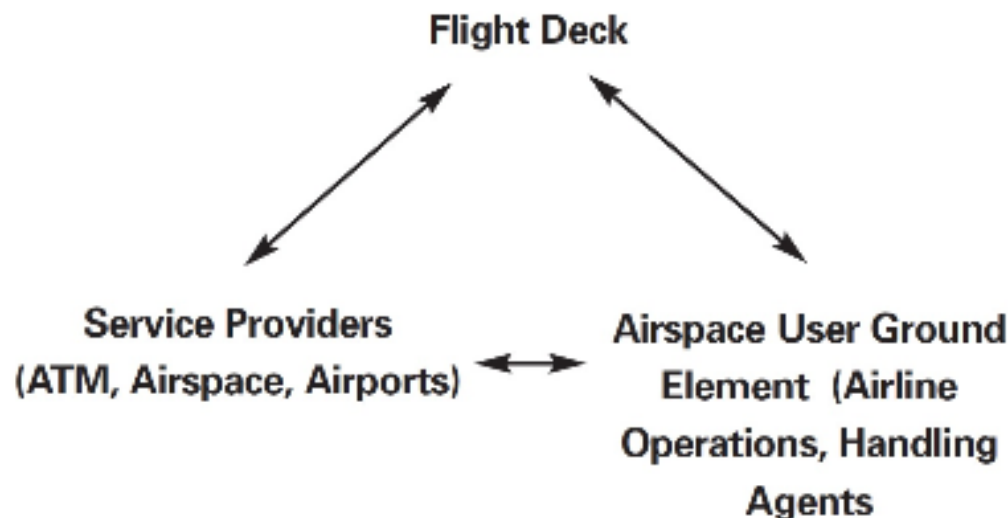
SYSTEM WIDE INFORMATION MANAGEMENT
The Intranet for Air Traffic Management



CONTEXT

ICAO GANP

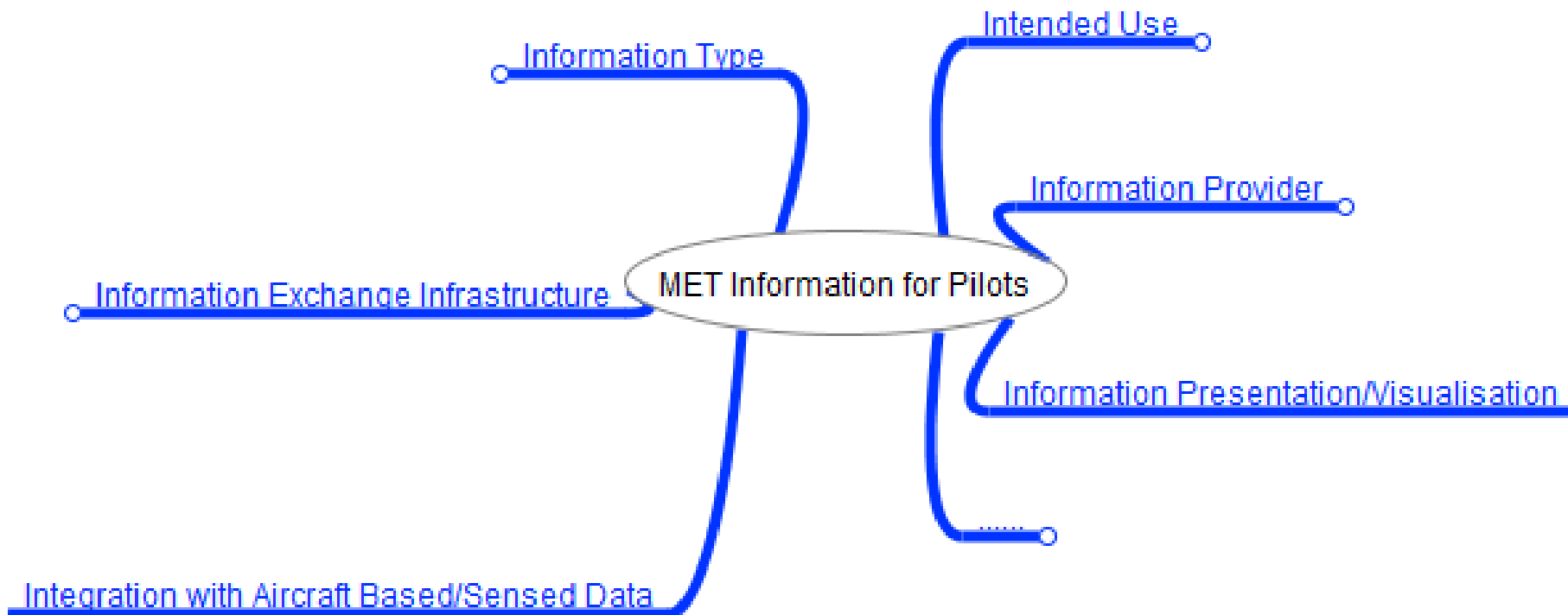
- Aircraft as a primary participant in CDM
- Timely availability on aircraft of high-quality and reliable digital Aeronautical Information Services (AIS) and Meteorological Information Services (MET) is necessary to support the transition and implementation of the advanced ATM concepts

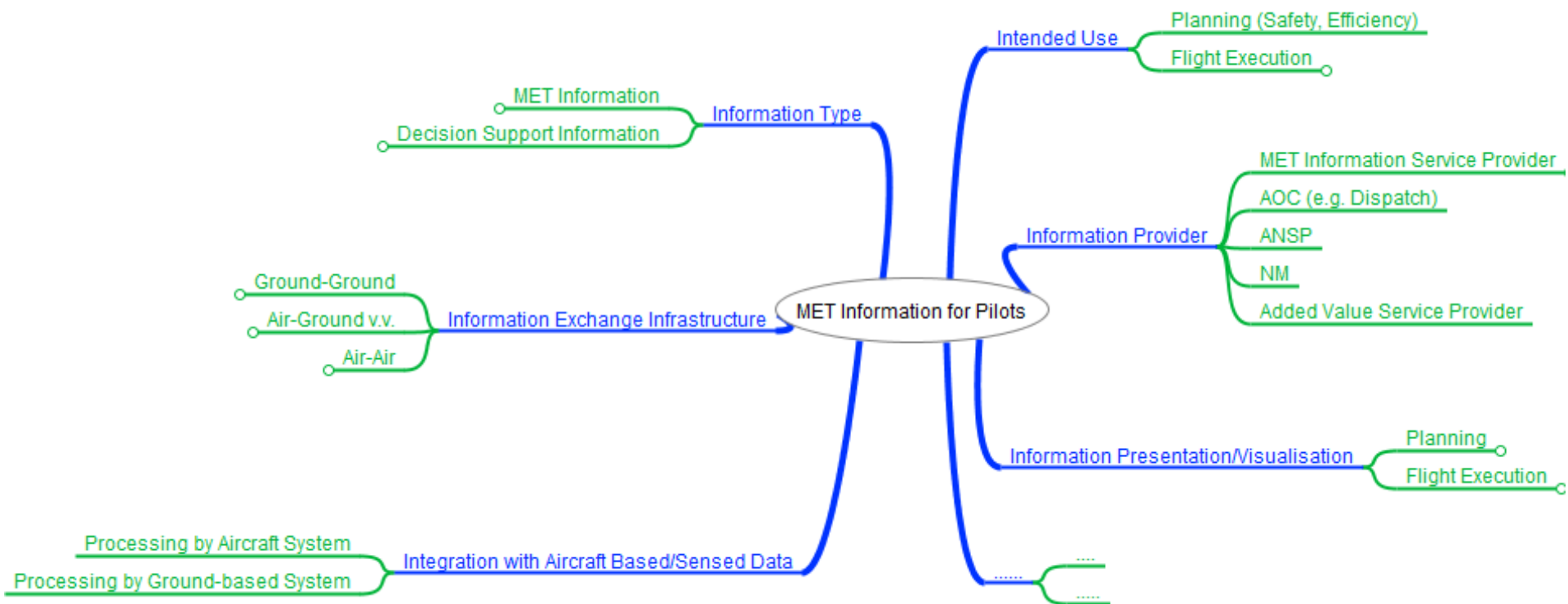


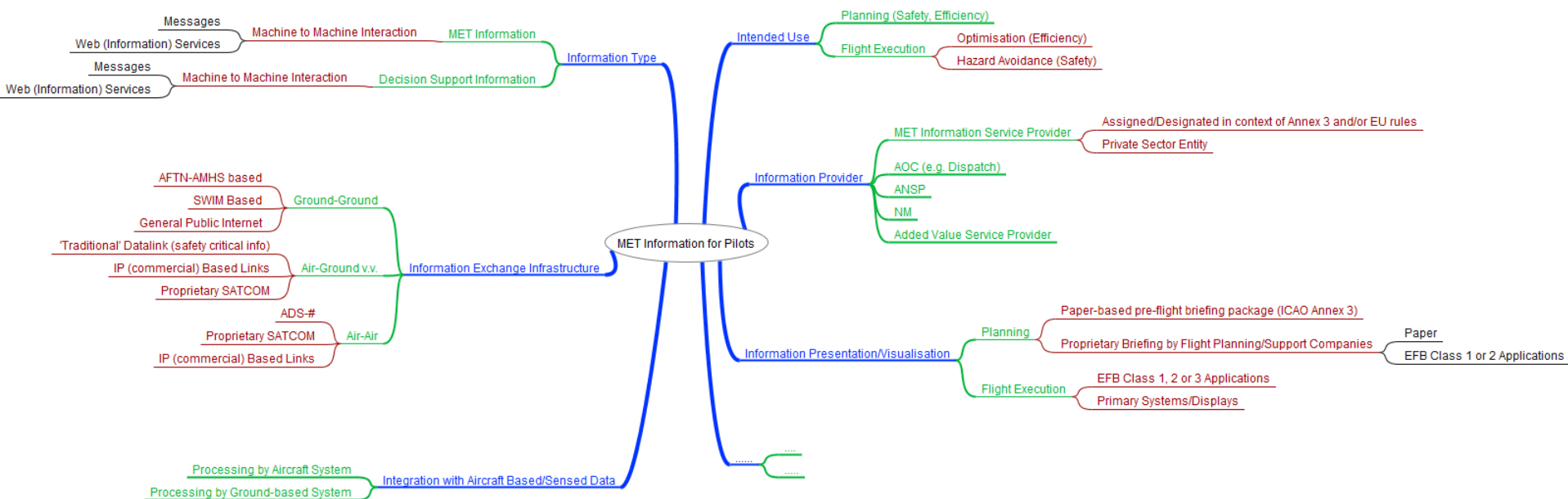
SCOPING THE ACTIVITY

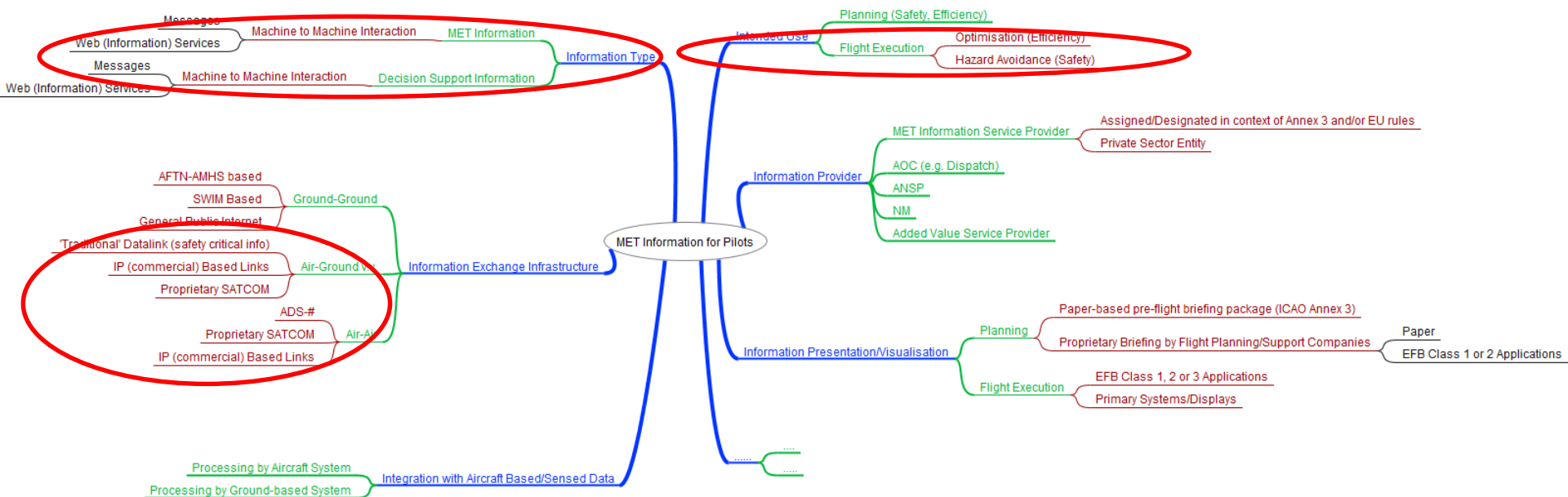
'MET Information for Pilots'

- My personal perspective









EUROCAE WG-76 Objectives

- Main objectives to develop MASPS for AIS and MET data link services
- MASPS will also provide a high level architecture describing the individual components of the end-to-end AIS and/or MET information delivery system
- Particular services to be standardized

MET UPLINK	WINDS AND TEMPERATURES ALOFT
	WIND/TEMP DATA FOR FLIGHT MANAGEMENT
	AERODROME WEATHER
	HAZARDOUS WEATHER
	HAZARDOUS WEATHER IN CRITICAL FLIGHT PHASES
	VOLCANIC ASH
	RUNWAY VISUAL RANGE

MET DOWNLINK/CROSSLINK	SPECIAL AIREP/AUTOMET
	REALTIME AIRCRAFT-DERIVED DATA

MIXED AIS/MET UPLINK	WINTER CONDITIONS
	RUNWAY INFORMATION
AIS UPLINK	AIRSPACE RESTRICTIONS
	AIRSPACE INFORMATION UPDATE
	DIGITAL NOTAM
	DIGITAL ATIS
	TAXIWAY INFORMATION
	OBSTACLE INFORMATION

EUROCAE WG-76 Developments

- Targeted Standards:
 - Existing Operational and Safety and Performance Requirements should be adapted for each of the 17 services and should be compatible with SWIM
 - Potential update of SPR (ED-175A) : superseding OSED (ED-151) and SPR (ED-175) -> Target Q4 2016
 - Proposed final standard : Minimum Aviation System Performance Specification for AIS and MET DL Services -> Target Q1 2018
- Methodology applied:
 - Definition of intended uses
 - Definition of expected AIS and MET data parameters and data source capabilities
 - Safety and hazard assessment
 - Definition of requirements etc.

Thank you!



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