Data4Safety

Partnership for Data Driven Aviation Safety Analysis

Supported by EASA

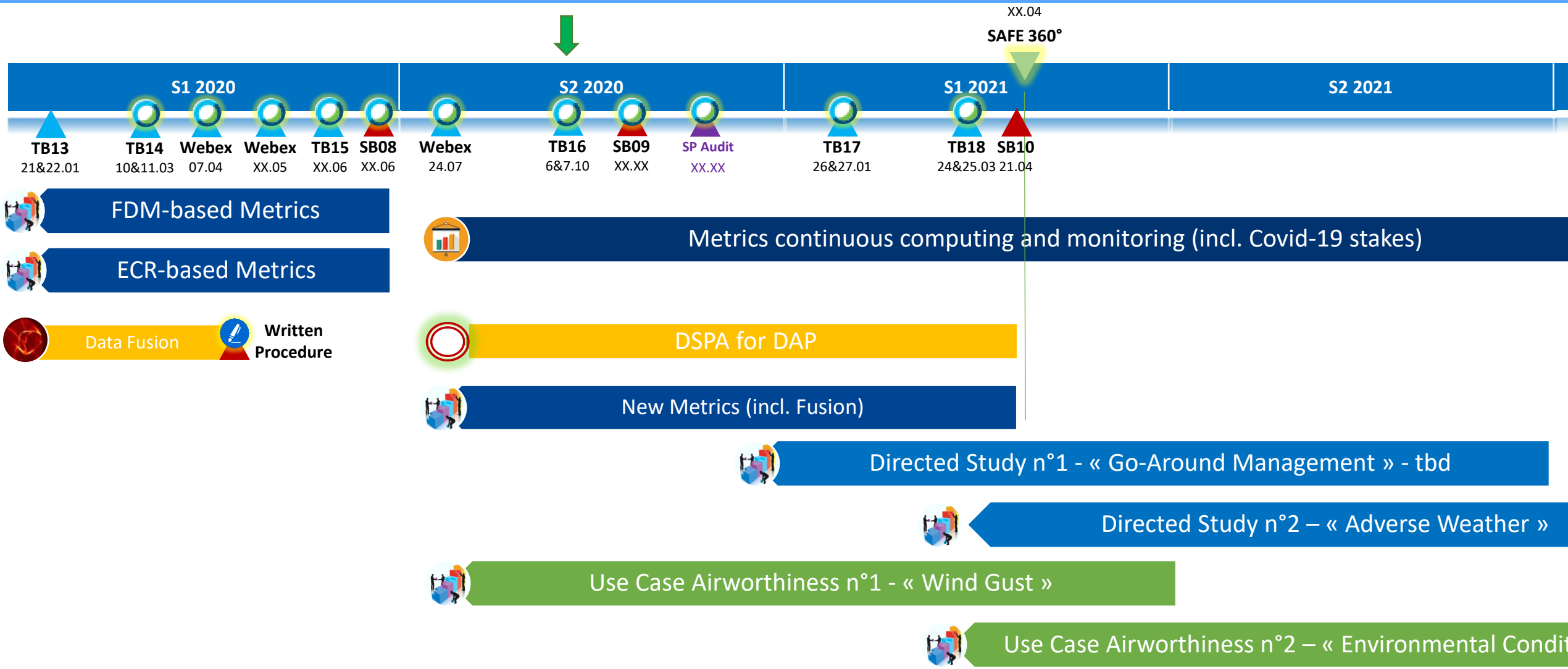
Status update for FD WG

Oct 2020

ECA Piloting Safety
European Cockpit Association

D4S is co-funded by the European Union

Roadmap


XX.04
SAFE 360°
S1 2020
S2 2020
S1 2021
S2 2021
TB13 21&22.01
TB14 10&11.03
Webex 07.04
Webex XX.05
TB15 XX.06
SB08 XX.06
Webex 24.07
TB16 6&7.10
SB09 XX.XX
SP Audit XX.XX
TB17 26&27.01
TB18 24&25.03
SB10 21.04
FDM-based Metrics
ECR-based Metrics
Data Fusion
Written Procedure
Metrics continuous computing and monitoring (incl. Covid-19 stakes)
DSPA for DAP
New Metrics (incl. Fusion)
Directed Study n°1 - « Go-Around Management » - tbd
Directed Study n°2 – « Adverse Weather »
Use Case Airworthiness n°1 - « Wind Gust »
Use Case Airworthiness n°2 – « Environmental Condit

Governance update

Governance Instruments

Procurement Instruments

Legal Instruments

D4S Steering Board

D4S Technical Board

D4S Supervisory Panel

D4S Data Processing and Protecting Organisation

Charter

RnP

Secured Landing Zone

Development Zone

Analysis Zone

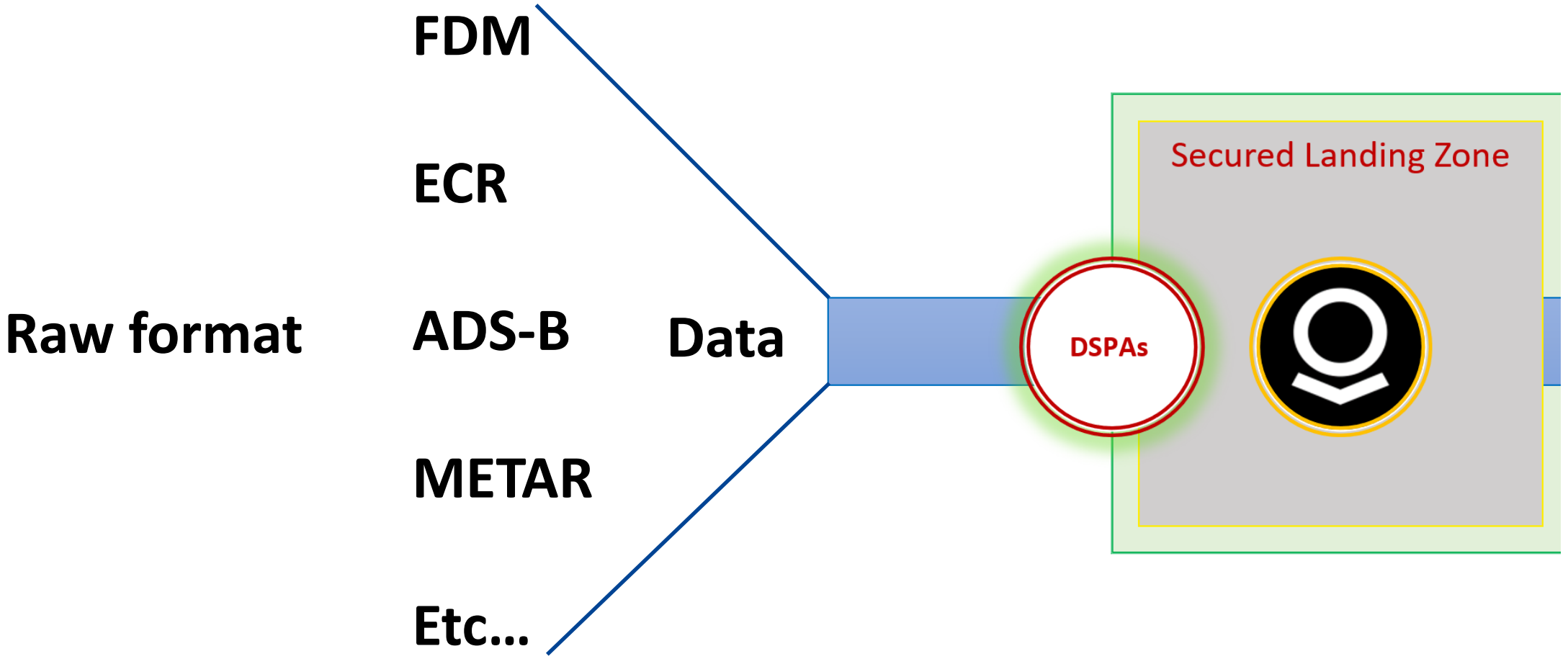
Data

DSPAs

Actionable Safety Intelligence

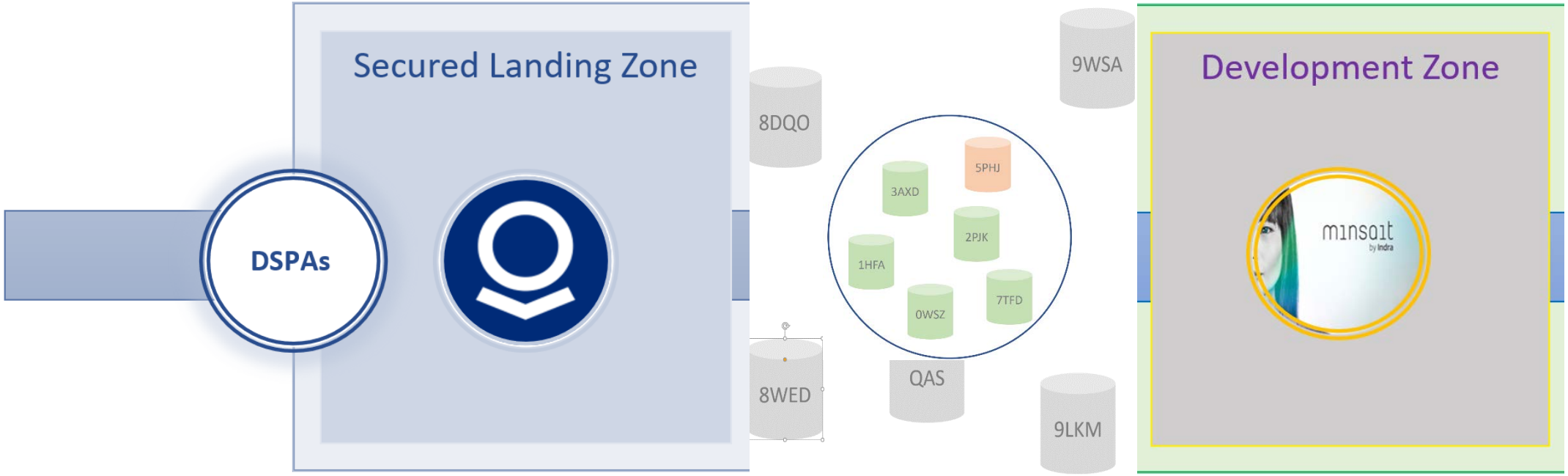
D4S DaGo

Current status – Data Availability Secured Landing Zone



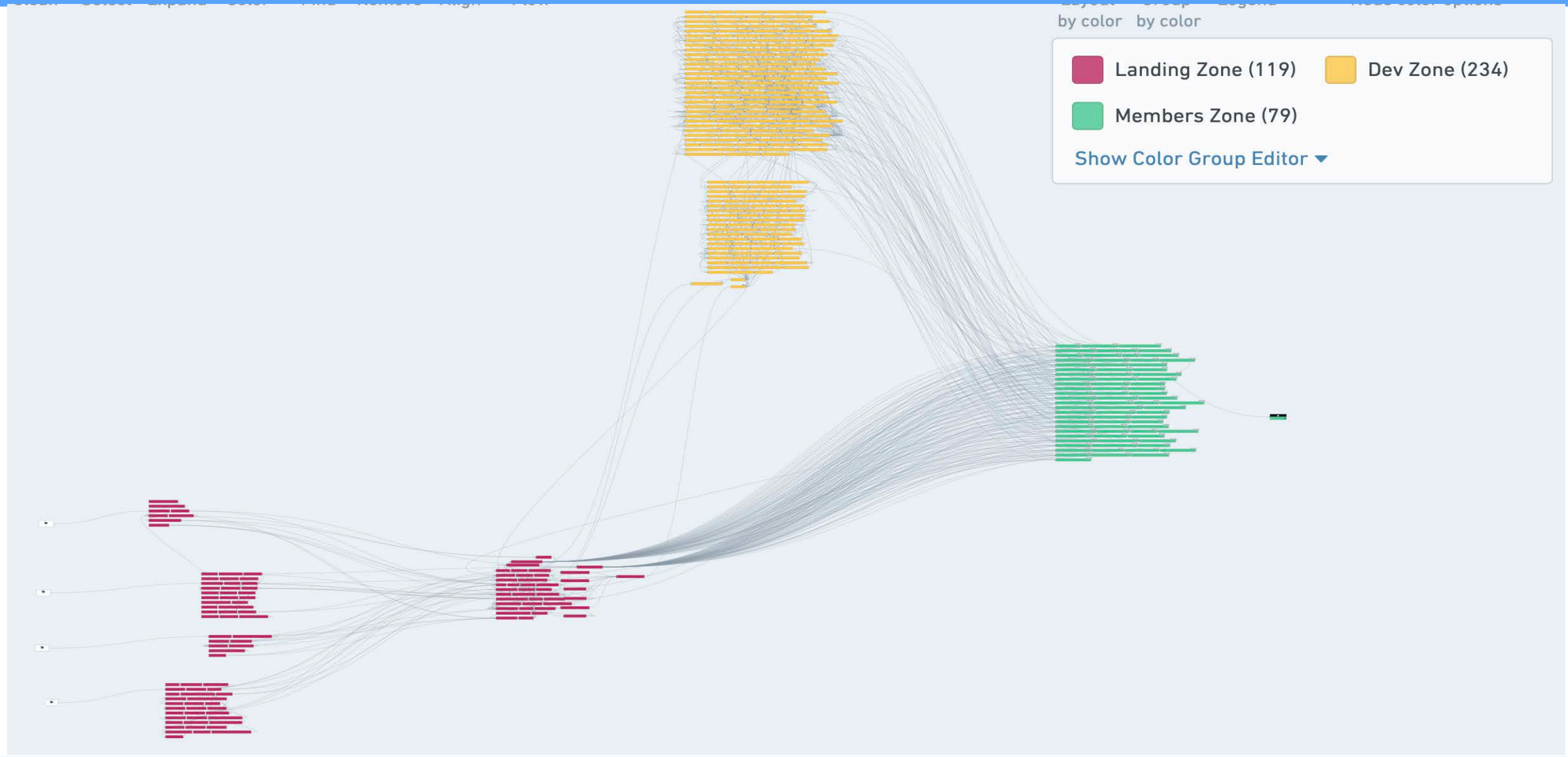
Current status – Data Availability Development Zone

“Bucketed” Data sets



FDM in Engineering Format

Data Flow Overview



Separate DSPA for DAP

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DSPAs

DSPAs

Actionable Safety Intelligence

D4S DaGo

Supervisory Panel (SP) – Preparation of 2020's mission (Q4)

- External expert/consultant support
  - New EASA Framework Contract finalised
  - Selection of a new suitable external expert to support the D4S SP team is ongoing
  - Timing for on-boarding of the selected expert/consultant on the Programme: **second half of October 2020**

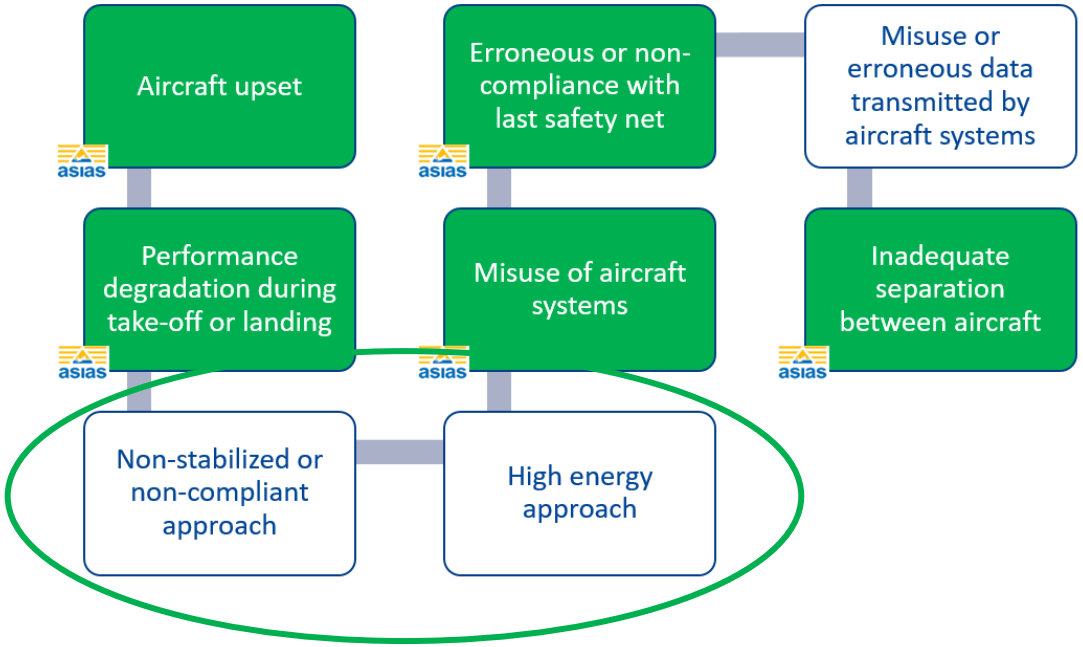
- Preparatory SP WebEx meeting
  - Timing: **second half of November 2020**
  - Objectives:
  - ➢ On-boarding of the new SP members (if any) as well as new external expert/consultant on the Supervisory Panel (role and past missions)
  - ➢ Define objectives and work out practical action plan for onsite audit of DPPO Palantir in December 2020 (see next point)
  - ➢ Additional objective -> investigate and agree on the monitoring capabilities to be provided by the DPPO to the SP (e.g. user accesses monitoring)
  - ⇒ Prepare briefing and suggested methods of audit to be passed on to the DPPO to allow for the proper preparation of the audit

- Audit of the DPPO/of D4S Foundry by the SP
  - Timing: **December 2020**
  - **Remote format required due covid-19**
  - **Adjustments required?** How to secure availability of/access to DPPO's experts?? Can initial objectives be maintained??
  - Check the implementation of the D4S DaGo (V1.2) -> "3 main zones", "user access rights", "blacklisting data", "data transfer" …
  - Check the implementation of the data fusion -> "bucketing", "de-identification"
  - Check IT infrastructure and infosecurity -> discuss outcome of the Penetration testing executed on EASA Foundry (*)

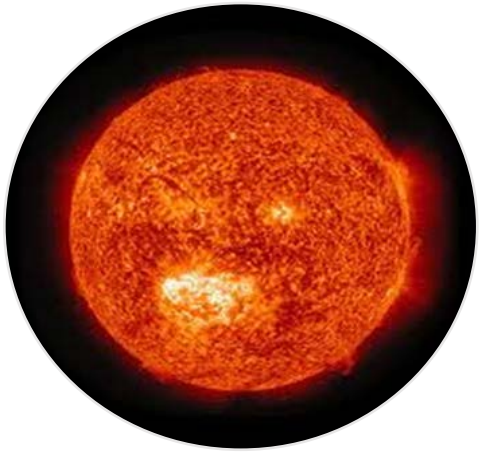
** KLM infosec has indicated wanting to perform an announced Pentesting on EASA Foundry*
In the past, DLH infosec had as well announced their will to perform such a Pentest
Either one of both confirms their statement of wanting to contract such a Pentest OR the SP lead enquires within EASA if it can be contracted via that way.
In either case, if the Pentest is confirmed to be executed, the SP will work with DPPO to set this up in an organised, non-disruptive manner and time

Additional Metrics

1. Complement the set of FDM Metrics
⇒ Approach and Landing



2. Explore the 1st fusion-based Metrics
⇒ MAC



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Hello User — Welcome to D4S Foundry ✈.
Apps
TB Chairs
My Recent Files
Recent Announcements
ECR Dashboard
View the ECR Dashboard, based on safety metrics in ECR Safety Reports via ECCAIRS
Your files
Your personal files and analysis is stored here
All files
Directory of all files and projects in Foundry
Information about Palantir Foundry and how to use the tools within it
DEMO

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