



EASA
European Aviation Safety Agency

Data4Safety

The European Big Data Programme for Aviation Safety

EOFDM Conference, 5 April 2016

Your safety is our mission.

An agency of the European Union 

TE.GEN.00409-001



Way ahead for safe civil aviation

Search for
precursors of
accidents
“See it coming”

Need for
intelligence,
assembly of data
and serious
analytical capacity

Risk Based
Oversight
“Know where to
look”





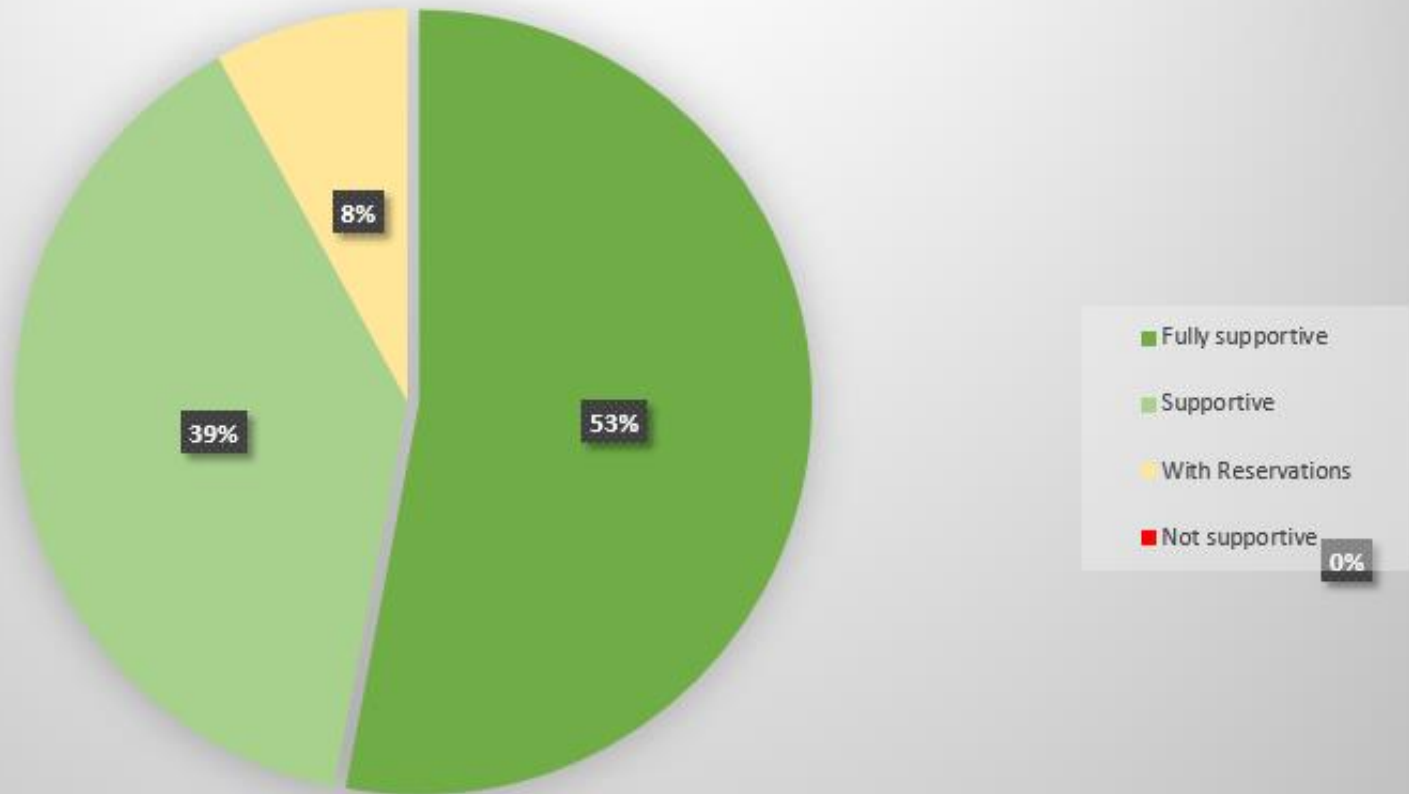
Big Data - Feasibility Study

- EASA commissioned a Feasibility Study in 2015
- The two main questions raised by the study were about
 - ❖ The technical feasibility and the main relevant Big Data solutions
 - ❖ Consultation of the stakeholders: readiness to share data and join the programme.



Overall support of the initiative by the industry

Would you be supportive of a European data exchange programme that aims at identifying and analysing aviation safety risks in Europe?





Key elements of *Data4Safety*



A **voluntary** and **collaborative** partnership amongst all stakeholders



Independent governance to reflect the partnership and collaborative approach (dual management authorities/industry)



An IT organisation with Big Data Competence



Outcome shared for the benefit of the whole community:
Risk identification and analysis



Linked with other international initiatives (US, Asia-Pacific, IATA,...)



Who will be in?

All European aviation stakeholders



Linked by a charter

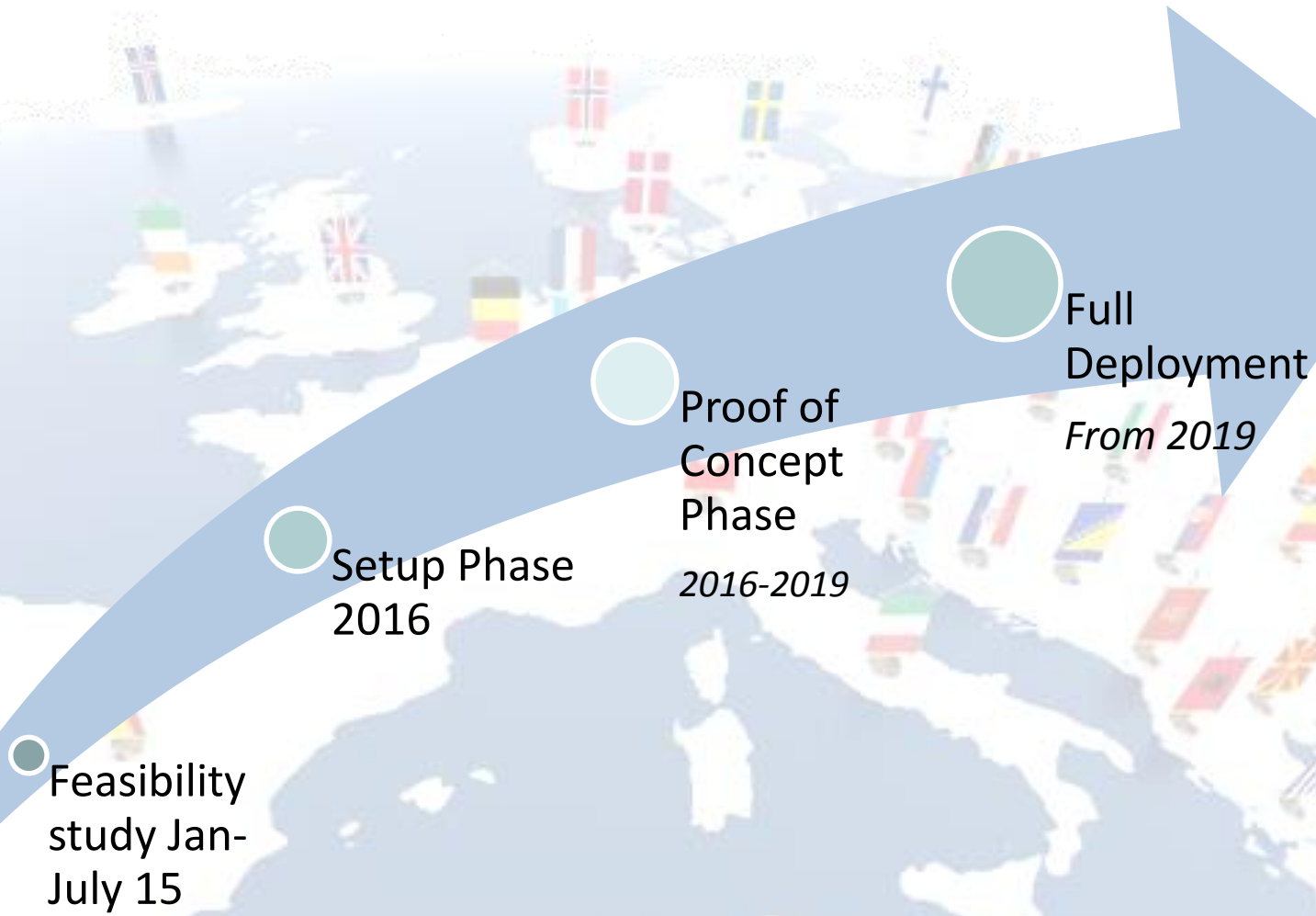


Proof of Concept Phase

- The study also concluded on the necessity to have a proof of concept phase as a next phase before going to the potential full deployment.
- The proof of concept will be done with a limited number of stakeholders and will enable to confirm the expected benefits while testing the technical and governance models.

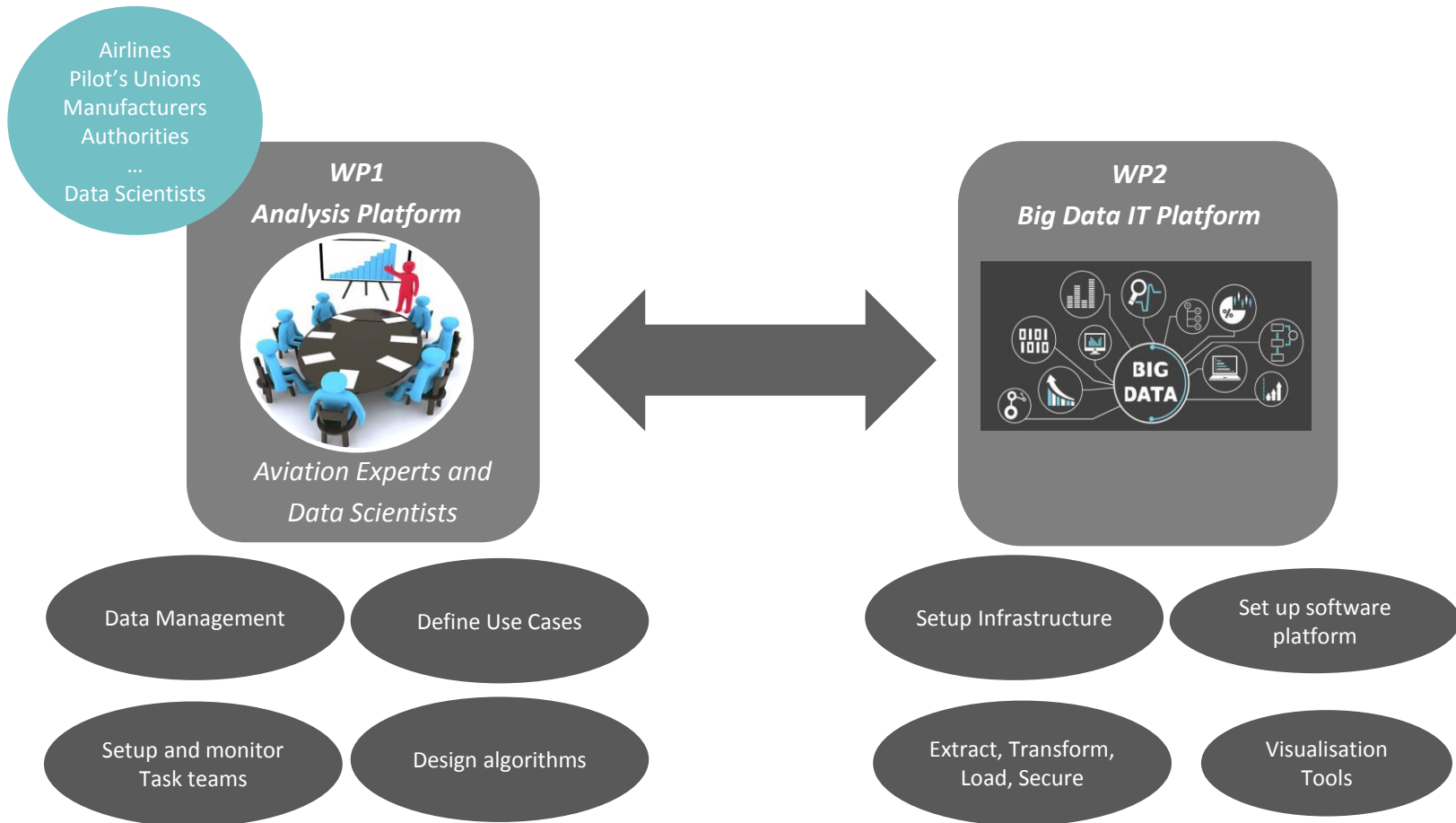


The Road to *Data4Safety* programme





Proof of Concept Setup





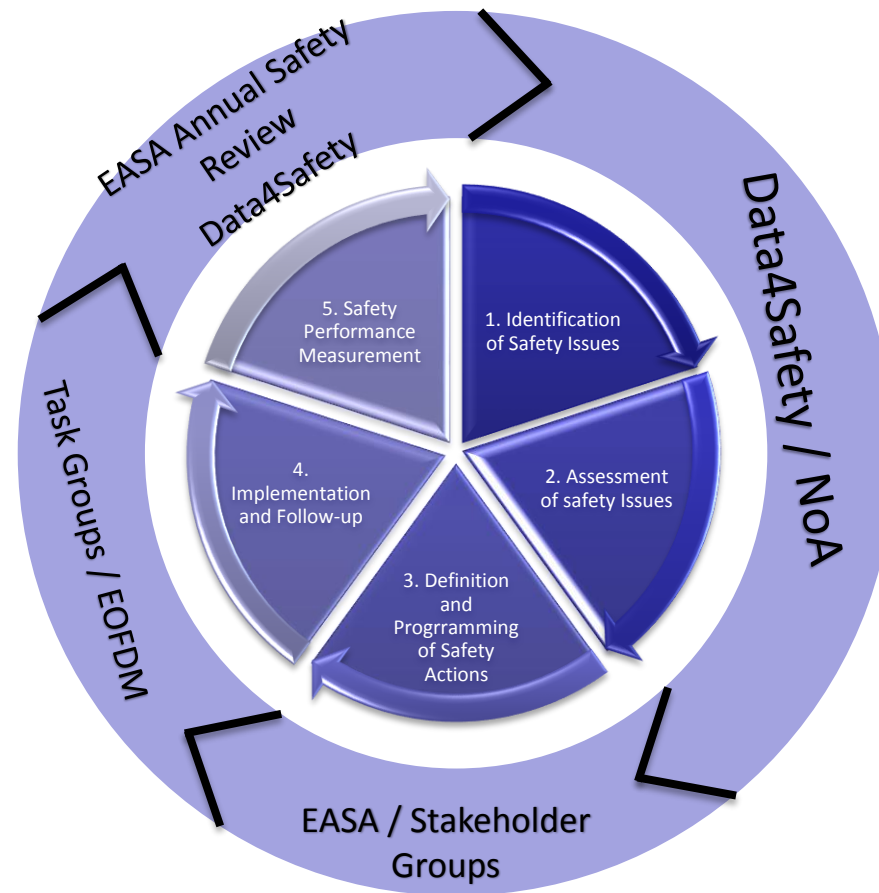
The bigger picture: safety risk management in Europe



How will Data4Safety integrate in the bigger picture?



The bigger picture: safety risk management in Europe





The Safety Aviation Forum for Europe

➤ Why?

- Enable a full and wide-scale engagement of the safety community
- Provide a European-wide safety network and information sharing forum
- Natural complement to the **Data4Safety** programme
- Collaborative and voluntary “Mike off” forum to enable open dialogue

➤ Proposal of format

- Co-organised EASA/Industry
- A 3-day forum, once a year.
- Plenary sessions: Presentation of the EPAS and ASR / Forum for D4S to present work and progress,/theme chosen
- Breakout thematic sessions. Presentation chosen by industry





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Thank you for your attention

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