



EASA
European Aviation Safety Agency

Data4Safety

The European Big Data Programme for Aviation Safety

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Your safety is our mission.

An agency of the European Union 

TE.GEN.00409-001



Why?

What?

How?



TEXT MINING

HIGH SPEED COMPUTING





The European Safety Risk Management Cycle





Vision for the future

Data4Safety

1. Identification
of Safety Issues

2. Assessment
of Safety Issues

5. Safety
Performance

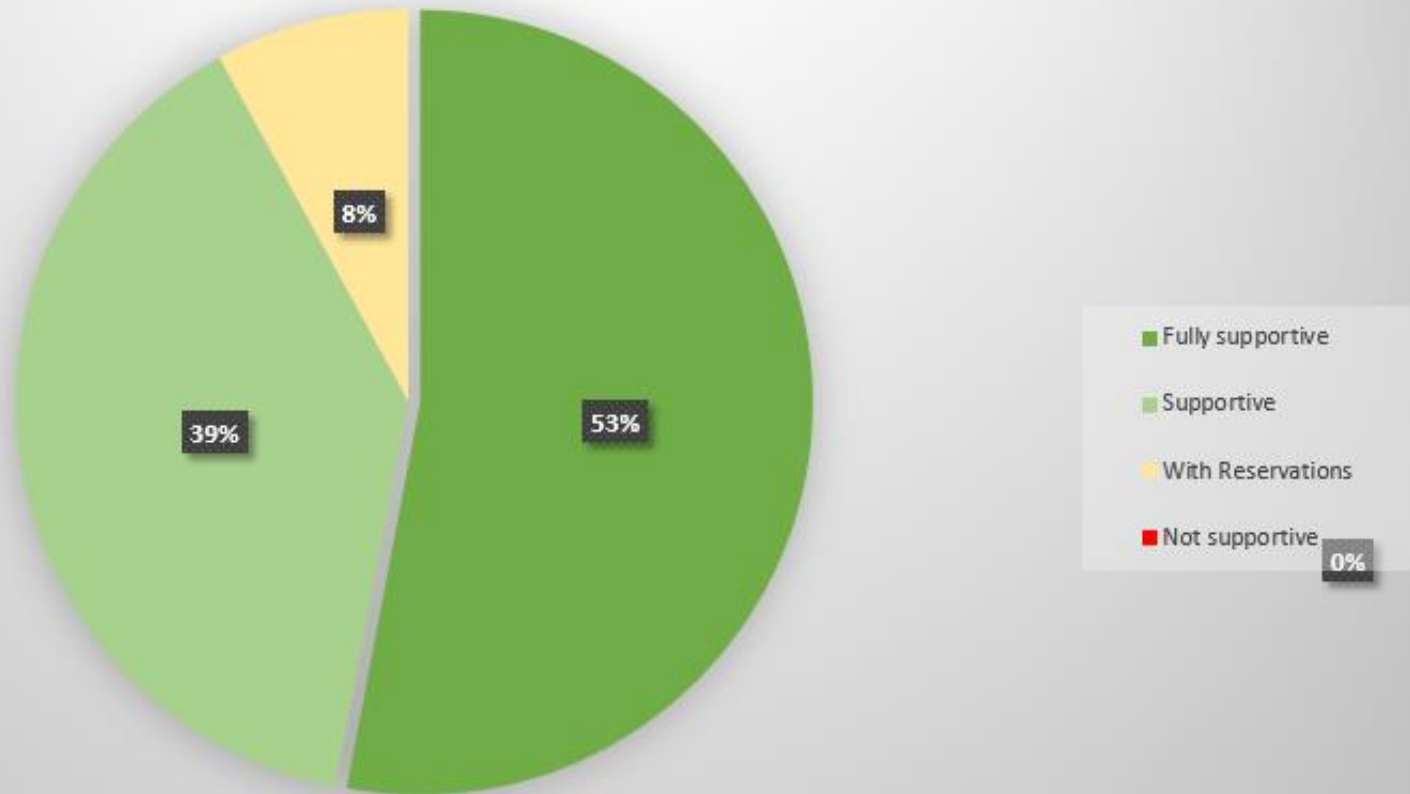
Process fundamentally based on Data Collection and Analysis





Feasibility Study: 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 out of the consultation



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



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



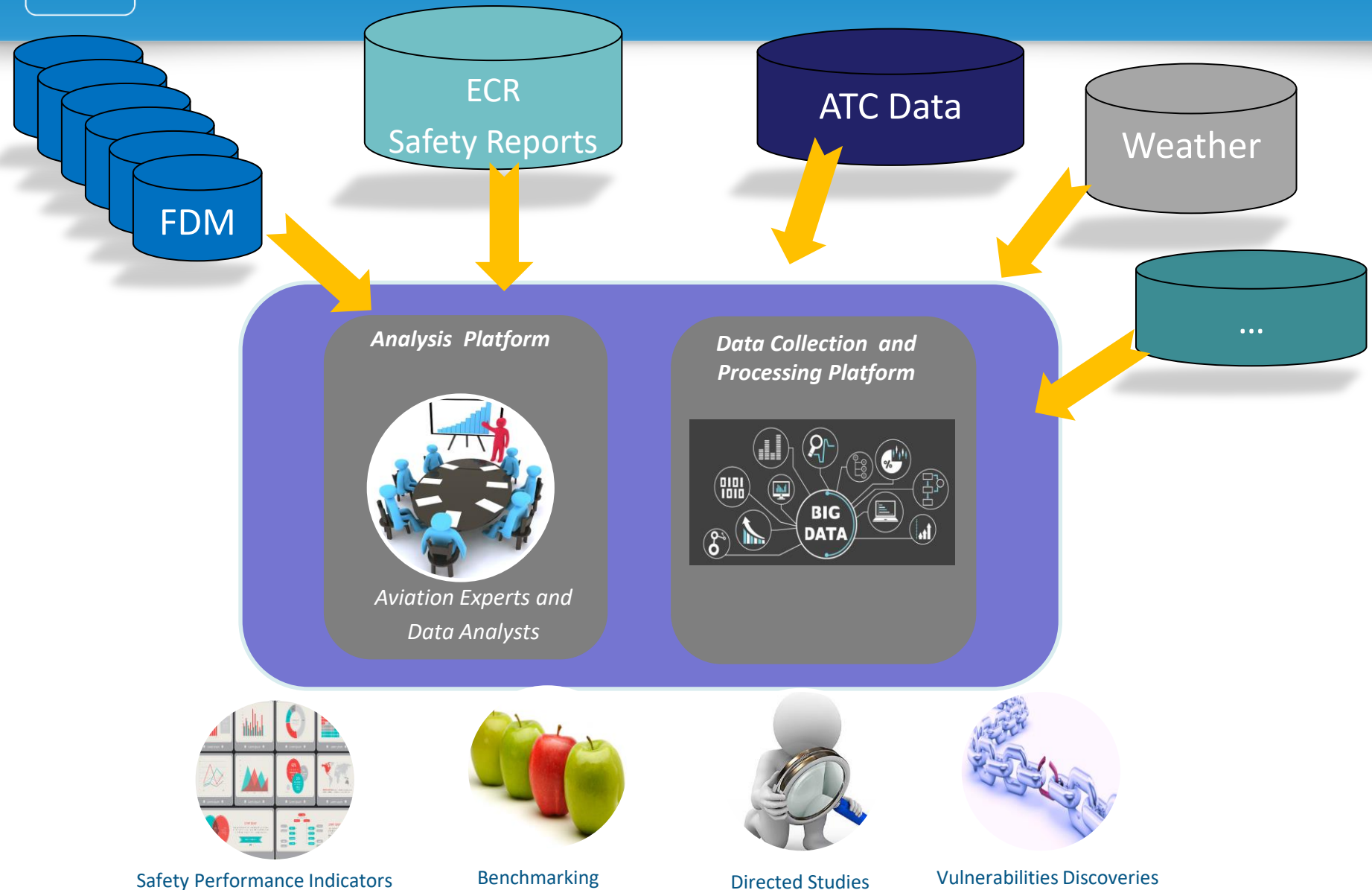
Outcome shared for the benefit of the whole community (Risk identification and analysis)



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



Data4Safety Programme and Platforms





2016 – 2019 Proof of Concept Phase

- The initial Feasibility Study concluded on the necessity to have a proof of concept 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.
- Proof of Concept phase is planned over 3 years



- **EASA and D4S Members**
 - Partner contribution for the PoC in kind: Expertise and Data
- **Data Processing and Protecting Organisation (Big Data IT Provider)**
 - Private organisation selected via a public tender
- **Data Scientists/Analysts team**
 - Selection of data scientist and analyst via a public tender
 - **Completed with potential partners (Members/Research Partners)**



Partnering with Research

Main aim:

- Access state-of-the-art research developments to prepare D4S 'cruise phase'

Actions undertaken:

- Identify relevant projects and check for possible synergies

Next:

- Networking with projects: technical exchanges – early lessons
- Assess opportunities for testing solutions



The Road to *Data4Safety* programme

Feasibility study

Jan-July 15

Setup Phase

July 15- June 2016

Proof of Concept Phase

June 2016-2019

KOM at technical level on June, 29th

First Steering Board Meeting 18 Nov 2016

Operational Phase

From 2019/2020



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Your Questions ?

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