



8TH EASA INTERNATIONAL

JOINING FORCES FOR
SAFER AND GREENER
AVIATION WORLDWIDE

COOPERATION FORUM



COLOMBO, SRI LANKA
19-21 MARCH 2024

ECCAIRS2: ICAO and EASA's International Strategy

ICF/8 Sri Lanka
March 2024



ECCAIRS2



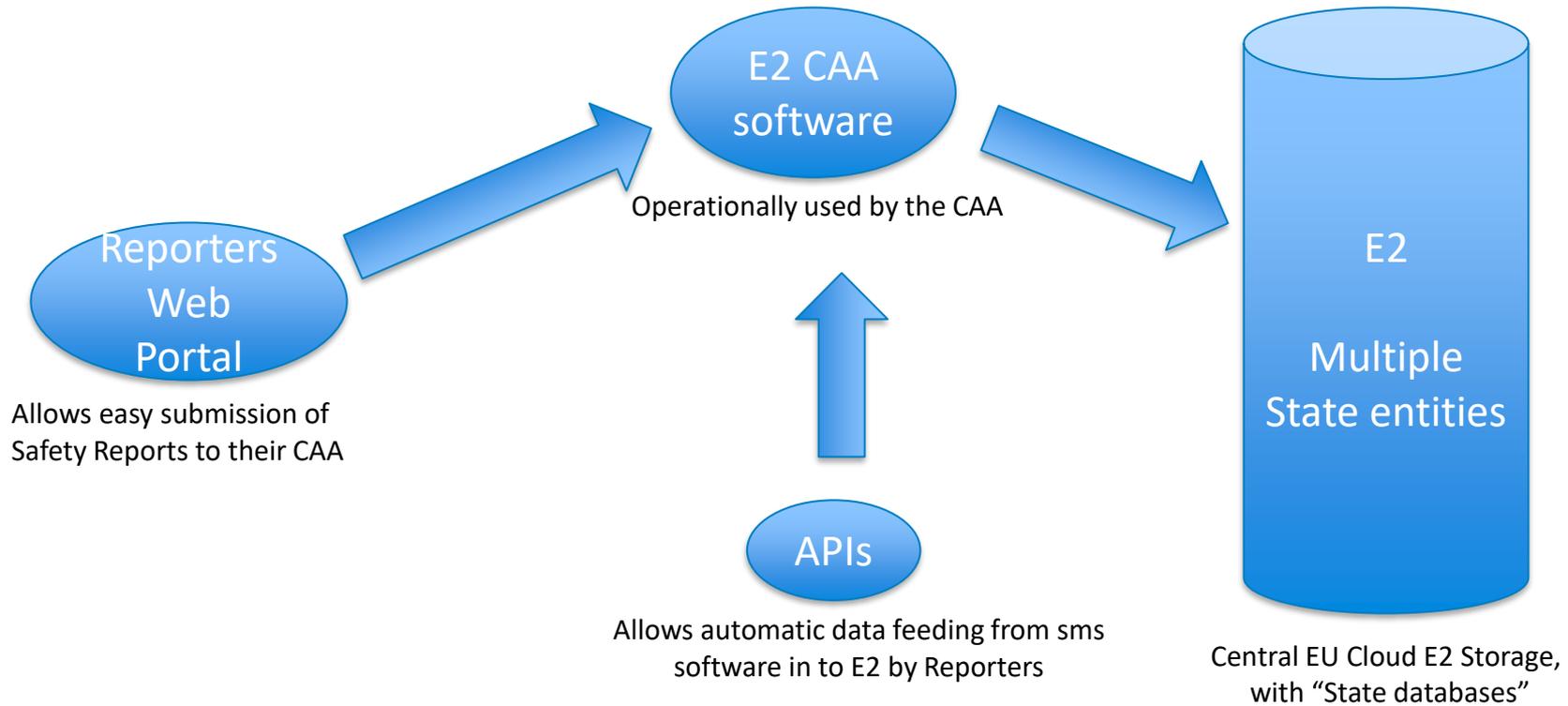
Your safety is our mission.

History of ECCAIRS and drivers for the creation of E2

- *The current ECCAIRS (E1) has been in existence for over 3 decades*
- *E1 was developed and supported by EU DG JRC*
 - *IT Technology behind E1 was from the “80ties” and had a heavy Architecture because of decentral and individual “PC & Server installations”*
- *E1 is no longer available for new installations and no longer under maintenance or support for running instances as of 2020*

- *EASA has not taken over E1 “as-is” from JRC, but has redeveloped the solution, naming it ECCAIRS 2 or E2 in short.*
- *E2 is a central, EU Cloud solution without any local PC/Server installation. Browser Internet access only.*
- *E1 is no longer available for new installations and no longer under maintenance or support for running instances as of 2020*

ECCAIRS 2 : the basic flow highlighted



Principles for ICAO States desiring to get their own E2 system

- *The EU has signed a revised Working Arrangement with ICAO on ECCAIRS*
- *The WA revision focusses on the potential use of E2 for ICAO States*
- *ICAO endorses that ICAO States can request their own E2 instance*
 - *Becoming part of the global, central E2 cloud system of EASA*
 - *E2 solutions cannot be installed locally at/on ICAO State IT systems*
- *Boarding trajectory:*
 - *Procure an ICAO iPack “ECCAIRS 2 Annex 19” when available. **This is a one-off cost.***
 - *This iPack is being designed and created by ICAO with full support and input of EASA*
 - *Target of ICAO is to have it available by Q3 2024*
 - *This iPack will contain the setup and configuration and admin-training of the ICAO State’s own E2 instance*
- *In parallel to the procurement and delivery of this iPack, the ICAO State will have to sign a Service Agreement with EASA*
 - *This is a contract between the ICAO State and EASA directly*
 - *It enumerates the E2 services and support levels provided by EASA*
 - *For those services and support, the ICAO State will commit to pay a yearly E2 usage fee to EASA. **This is a yearly recurrent cost.***
 - *Height of the fee will be driven by the assessed size and usage of E2 by the ICAO State*
 - *Fee is based on cost elements for the E2 EU Cloud and the support services*

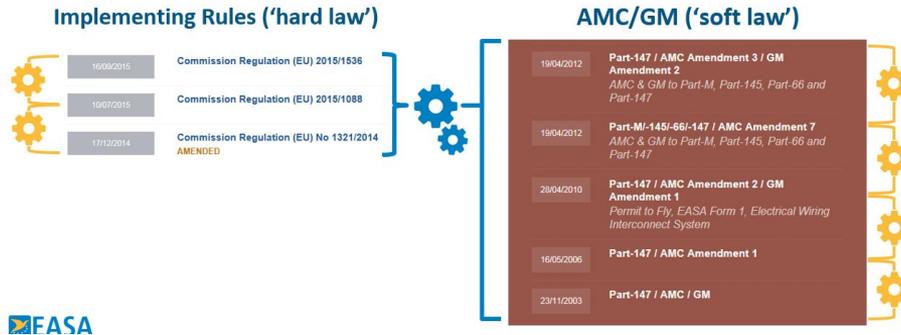
EASA eRules

Modern way of presenting aviation rules

Your safety is our mission.

Trigger for eRules (back in 2016)

- Lack of single source of rules
- Complexity of European aviation regulatory system
- Inefficiency in internal and external processes



Business requirements (back in 2016)

- Consolidate regulatory material scattered over different sites
- Create consolidated outputs (**Easy Access Rules**) in different formats
- Share consolidated outputs with stakeholders

Easy Access Rules – available in 3 formats



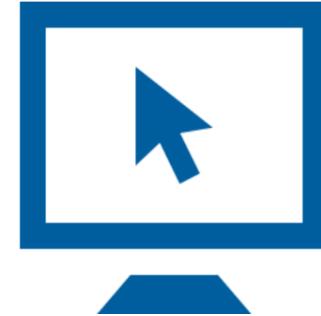
PDF format – as of 2017

- Consolidated, structured content
- One of most downloaded files on EASA website



Online format – as of 2020

- Adjustment to mobile views (tablets, phones)
- Online filters to provide a view tailored to users' needs



XML format – as of 2022

- Machine-readable format – for integration with stakeholders' applications



Data4Safety

Partnership for Data Driven Aviation Safety Analysis

Supported by EASA

D4S Briefing for ICF/8



Data4Safety explained in one paragraph

The Data4Safety Programme (D4S) is a **strategic initiative, objective and priority** of the Agency (ref. EASA Single Programming Document).

D4S is a **voluntary partnership** of the **EASA Members States** and the **Industry** that aims at **inferring unprecedented aviation intelligence**, e.g. to **identify and manage safety risks** or **support data driven change** in both the fields of **safety** and **sustainability**.

This is done by organising a **massive collection of aviation data sources** and, equally important, **organising the analytical capacity** amongst all **EASA aviation partners (both EASA MSs and Industry)**.

This will take the **collaborative work of EASA with the Industry and the EASA MSs** at a scale never achieved before in Europe.

D4S is led by EASA and powered by its Members

Programme key Principles



Collaborativeness

The success of the *Data4Safety* programme is reliant on a cooperative effort involving the entire aviation community, the European Union institutions, oversight authorities, industry and unions. The programme members contribute the programme in a cooperative manner.

Voluntariness

The programme is a partnership that is joined or left by the members on a voluntary basis.

Confidentiality

The programme members are obliged to confidentiality in relation to all data and intelligence derived from the programme. A member may voluntarily choose to allow access to the identified data it supplies under the conditions specified in the rules and procedures document.

Just Culture

The programme is aligned with the Just Culture principle as defined in European Union regulation 376/2014 and the European Corporate Just Culture Declaration.

Safety first

The primary goal of the programme is safety and as such the programme aims at supporting the identification and assessment of the systemic safety risks at European level as well as the measurement of safety performance. The programme also supports the members in enhancing their own safety performance. The programme has also the ability to support **sustainable aviation, security and cybersecurity** when they impact safety. The programme will not allow any other purpose contrary to its spirit such as seeking mercantile purposes or for a targeted oversight on a given organisation or individual

Out there!



Objective Deliverables

Expert Knowledge



Flight Data



Traffic data



Safety Reports



Weather,
and more...



Know where to look

See it coming

Act!

Metrics



Directed Studies



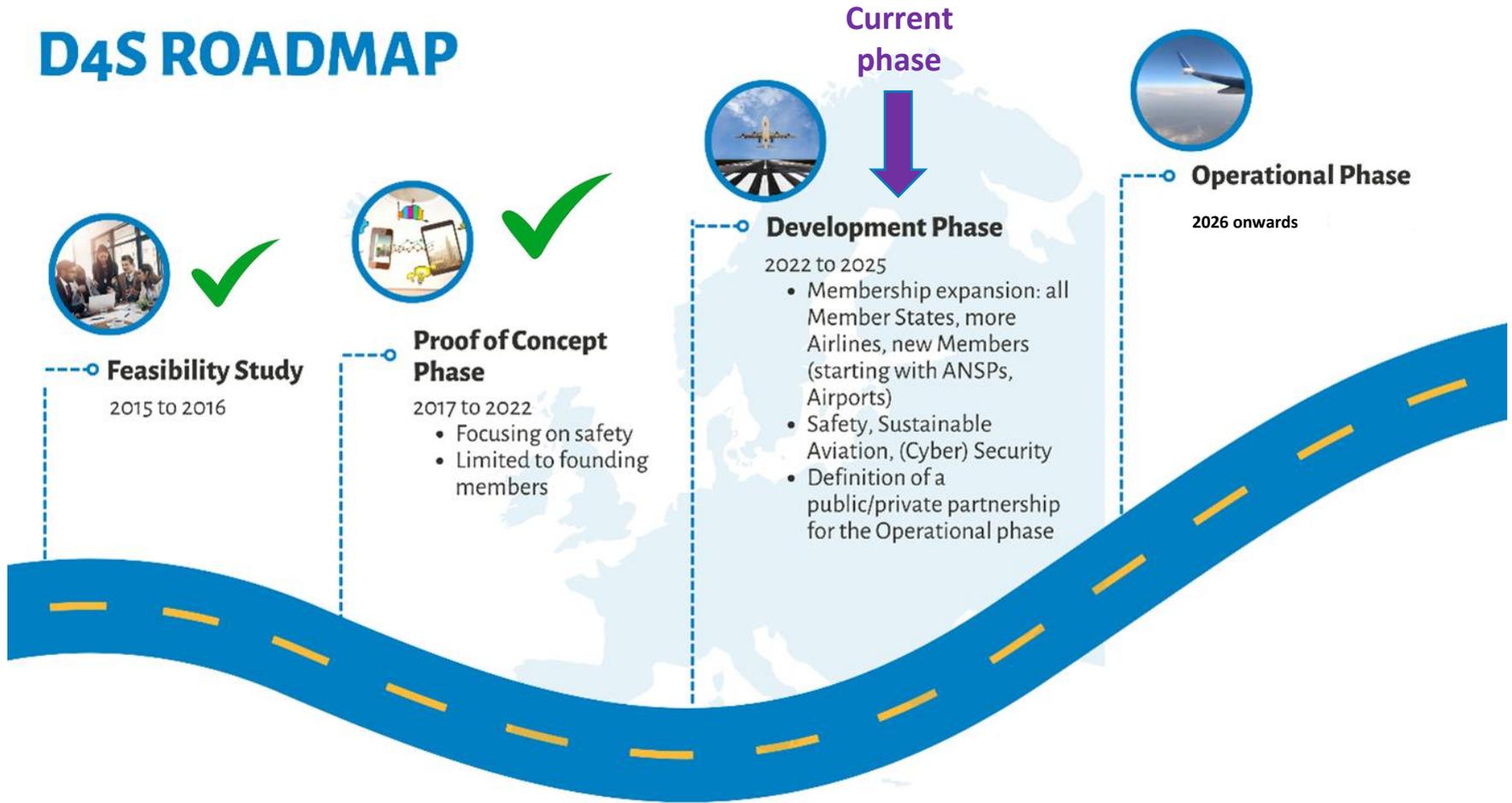
Blind Benchmarking



Vulnerability Discoveries



D4S ROADMAP



Data4Safety Development Phase (DEV)

⇒ High-level roadmap for expansion

1st expansion wave
(2023)

More EU Air Operators
More EASA MSs
Open to ATM/ANSPs

Airports

Rotorcraft

Engine/OEM

Training /
Maintenance

GA



Data4Safety expansion and membership (status March 2024)



Air Operators

British Airways*
EasyJet*
Iberia*
KLM*
Ryanair*
Vueling*
Aer Lingus
Norwegian
TAP (Portugal)
Wizz Air
Edelweiss Air
Luxair
TUI Fly (Belgium)
HOP!



EASA MSs

Ireland*
France*
Spain*
Belgium
Bulgaria
Croatia
Denmark
Finland
Italy
Luxembourg
Netherlands
Norway
Portugal
Romania
Slovenia



ATM

Airnav Ireland
Austro Control
Eurocontrol MUAC
DFS
DSNA
ENAIRE
ENAV
SKYGUIDE



OEMs

Airbus*
Boeing*



Aviation Professional Representatives

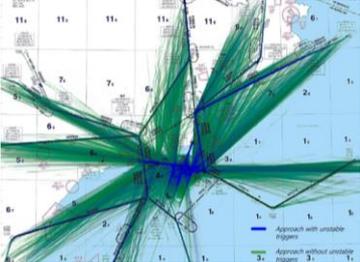
ECA*
IFATCA

(*) D4S Founding Member (from Proof of Concept phase)
Member seating at the D4S Governing Bodies

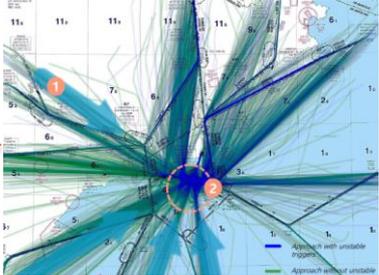


Directed Study Approach Path Management

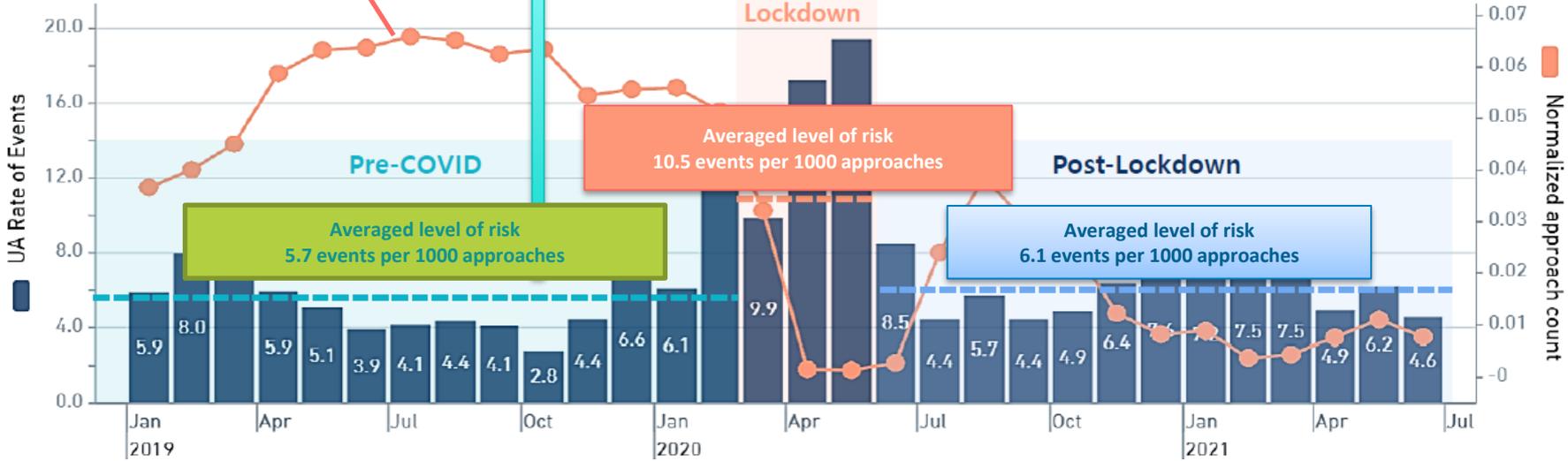
Example of risk monitoring during approach and landings



Europe (Eurocontrol data)



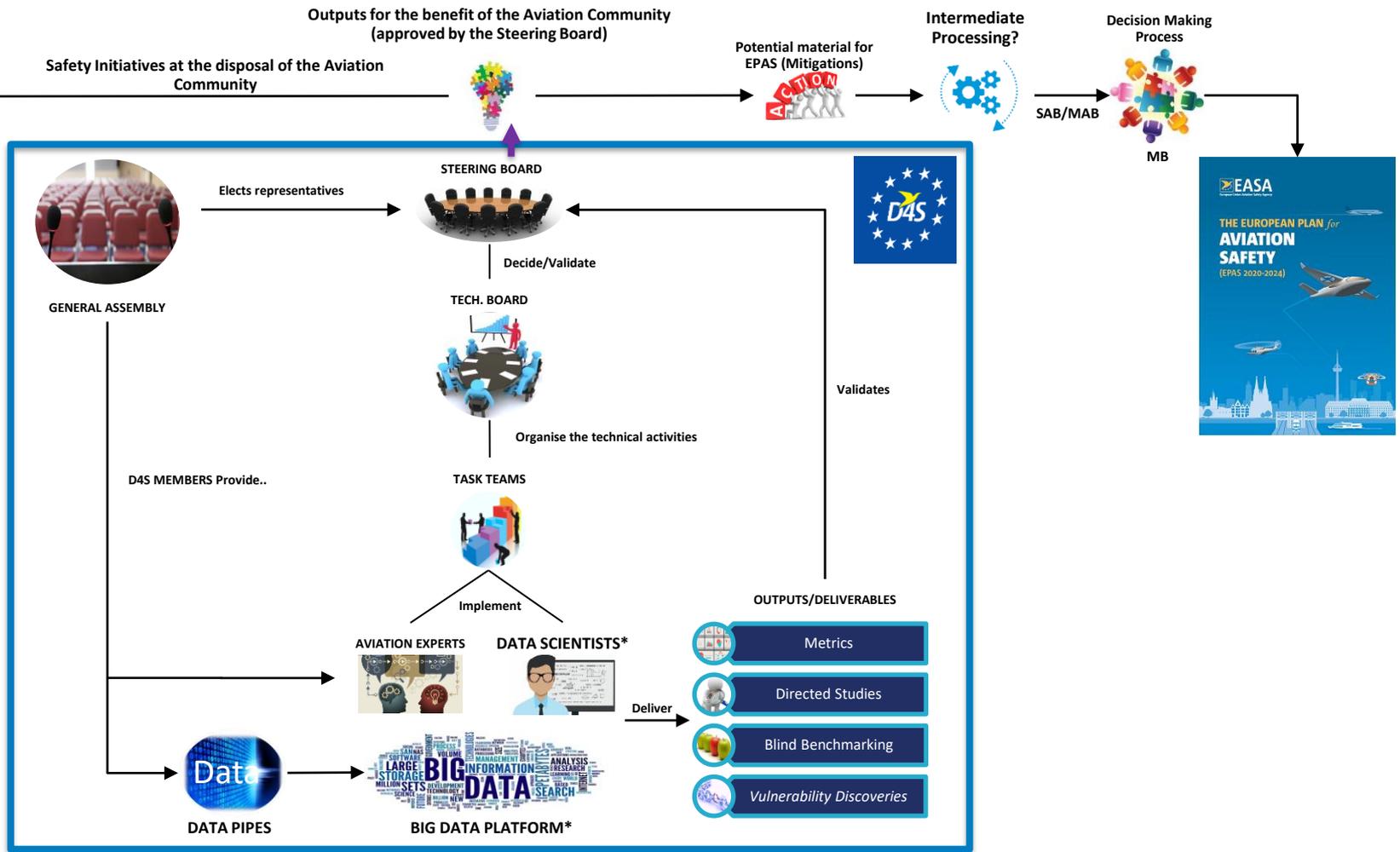
Approaches evaluated 1,421,560 approaches	Unstable Approaches 5.85 UAs per 1,000 app.
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D4S Benefits

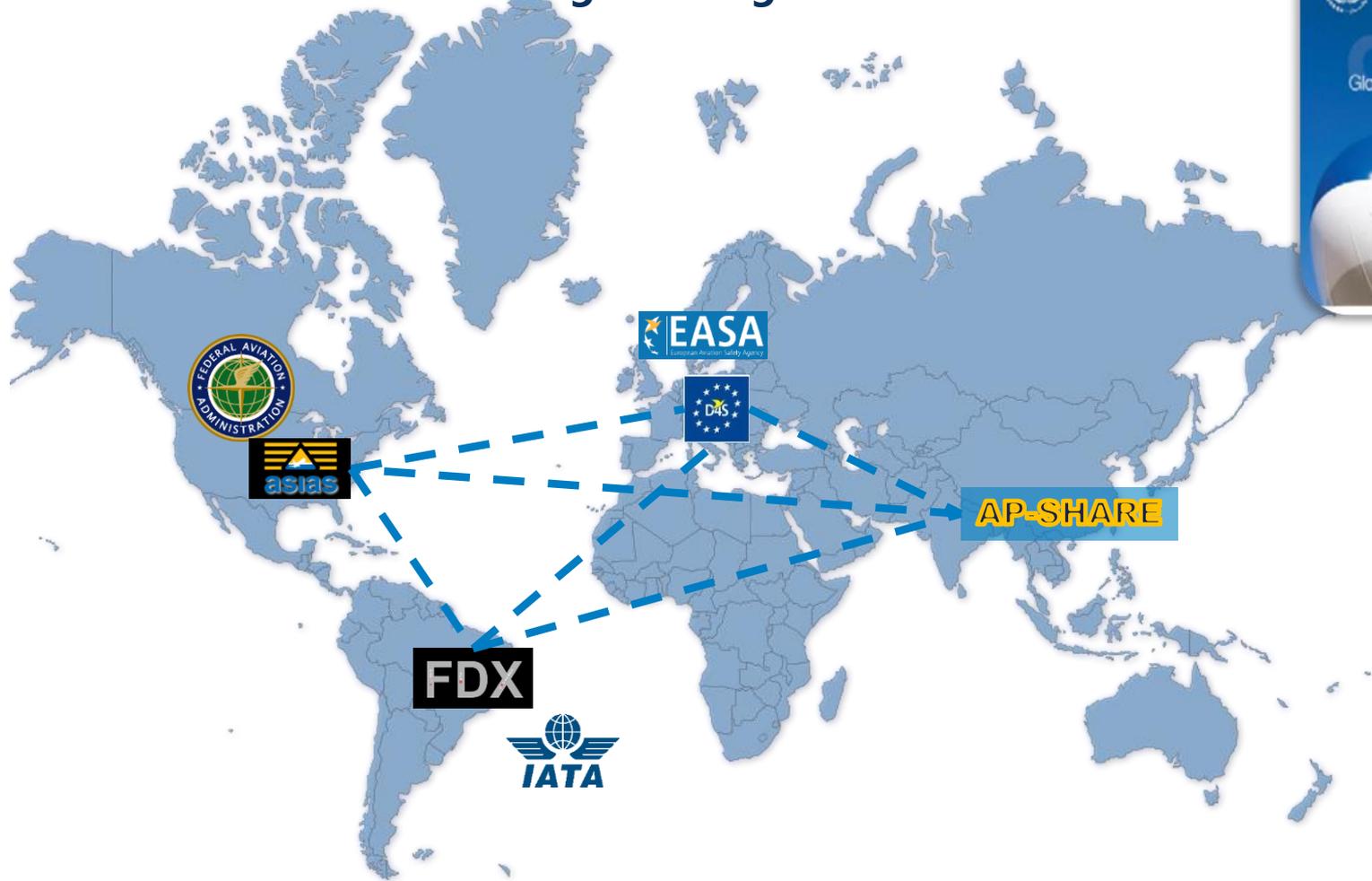


AVIATION COMMUNITY



*contracted by EASA

Setting a new global standard





European Union Aviation Safety Agency

EASA Corner

Update on International Cooperation

Carla Iorio

EASA – International Cooperation Section Manager

An Agency of the European Union 



Funded by the
European Union

8TH EASA INTERNATIONAL COOPERATION FORUM

JOINING FORCES FOR
SAFER AND GREENER
AVIATION WORLDWIDE



Contents Outline



Evolution from 2019 to date

Agency level
International Strategy level
Partnership level



Update at level of

Technical Cooperation
Regional Cooperation
Institutional/Agreements
International Representation

8TH EASA
INTERNATIONAL
COOPERATION
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JOINING FORCES FOR
SAFER AND GREENER
AVIATION WORLDWIDE



European Union Aviation Safety Agency



Mission: Ever Safer & Greener Civil Aviation in Europe and Worldwide

Established
2002



800+

aviation experts
& administrators

Headquarters in
Cologne
Office in
Brussels



31 EASA member states
= 27 + 4
EU + Switzerland, Norway
Iceland, Liechtenstein



**Rulemaking
& Standards**

EASA drafts regulatory material, including Certification Specifications, Guiding Material



**Certification
& Approvals**

EASA certifies aviation products and approves organisations



**International
Cooperation**

Cooperate with international actors in order to achieve the highest safety level for EU citizens globally



**Safety
Intelligence**

EASA provides actionable safety intelligence through the collection and analysis of safety data.



**Oversight
& Support**

EASA provides both oversight and support to Member States in fields where it has shared competence



**Research &
Innovation**

EASA supports research, innovation and new developments of the aviation sector

Resilience & Innovation as Agency's strategic objectives



Overcome COVID-19 - Tackle challenges into Opportunities: new topics embraced in aviation sector



EASA moves with changing times
Being resilient & adaptable to a dynamic sector



Return to 2019 traffic levels worldwide in 2025 is foreseen



Research/New technologies
Innovative air mobility solutions



EASA Enhanced Focus

Safety

A special attention to regional organisations

Environment

CORSIA, climate change actions (SAF, LTAG)

New airspace users / Aerodromes

(e)VTOL certification / Drones management / Aerodromes certif.

(Cyber)Security

New regulation (PART-IS) published end of 2022

Health Safety

Updated protocol published on 11th May 2022

ECCAIRS 2.0

New agreement signed with ICAO in 2023



Innovative Air Mobility

Drones, eVTOL, vertiports & -pads, start-ups



Sustainability

SAF, CORSIA, electrical propulsion, noise/emission reduction



Cyber Security

Impact on aircraft design, development and operation

International Strategic Objectives up to 2019

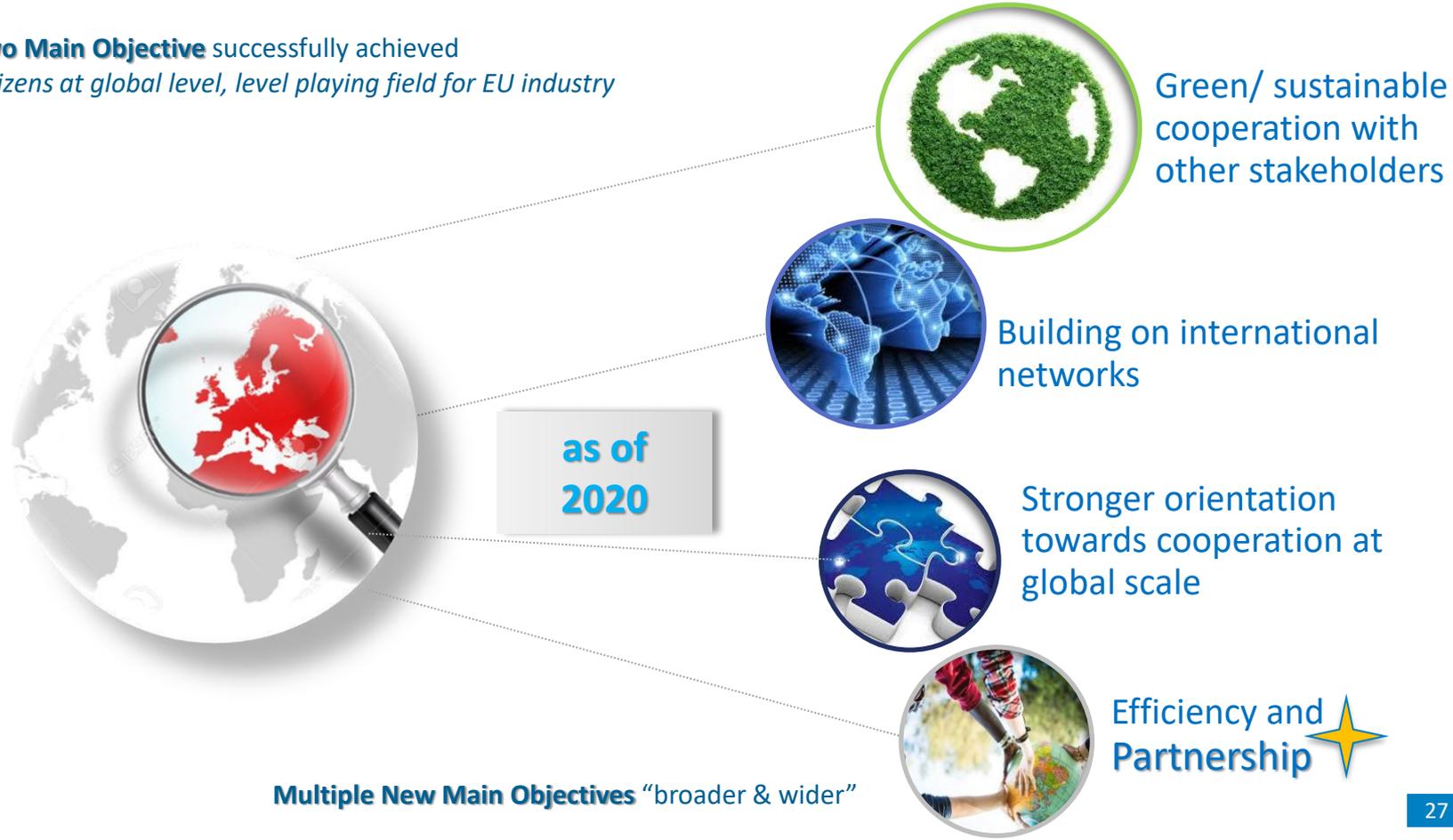


To protect citizens' interests in safety and environmental protection at global level

To facilitate and support aviation industry needs and interests at global level

Evolution of International Strategic Approach

Two Main Objective successfully achieved
Safety for EU citizens at global level, level playing field for EU industry



Multiple New Main Objectives “broader & wider”

The value of Partnership & EU's global footprint

EASA is aiming to increase cooperation based on a Partnership approach worldwide through joint initiatives with:

- ❑ National Aviation Authorities
- ❑ Accident Investigation Authorities
- ❑ Air Navigation Service Providers
- ❑ Industry



Thank you for your attention

easa.europa.eu/connect



Your safety is our mission.

An Agency of the European Union 