

EASA-managed Research projects

Addressing research needs of aviation authorities

**Marcella Miano – Strategic Management and Research
Section Manager**

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EASA involvement in R&I



Aviation authorities **depend on research results** to perform their core activities (rulemaking, certification, standardisation) and **develop new competences**



R&I projects contribute to **improve safety and address existing and future challenges**



R&I projects play a key role to **identify and assess the impact of emerging risks** stemming from new technologies or new business models



R&I projects **accompany innovation** and the **introduction of new technologies and innovative operations** in a timely, efficient, safe manner

EASA-managed research projects from Horizon funds



WP 2019-2020

- 13 MEUR
- 10 projects



WP 2021-22

- 14.2MEUR
- 20 projects



WP 2023-24

- 8.5 MEUR
- 7 projects

37 projects in research sub-portfolio

6 closed

24 ongoing

7 in preparation

Some of EASA Research projects

RWYMT, TRIPLE-ONE

Enhancing runway safety standards through new scientific evidence

FS, MGB, VRS

address rotorcraft safety standards with research on solutions of previous accidents

MLEAP

build up expertise for enabling the approval of safety-relevant artificial intelligence applications

NOISE, EMISSIONS, MbM

Advance sustainability through enhanced regulatory environmental tools

MODEL-SI, VIRTUA, DATAPP

Research on regulatory aspects to enable digital transformation

MESAFE, CaVD, DM

Addressing and enhancing health standards of critical aviation safety personnel

Aviation authority research needs



Environment

- New SAF production pathways



Data for Safety

- Future uses cases



ATM / ANS

- Performance of ground equipment, airspace classifications



Security impacting safety

- AI aspects, conflict zones



Health / medical

- Obstructive sleep apnea, high air space operations



Air operations

- Flight time limitations for emCO



Artificial intelligence

- Human factors



Automation

- Impact on responsibilities flight crew and air traffic controllers



Drones

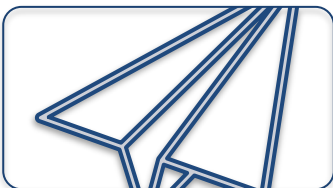
- BVLOS operations

Dissemination and benefits management



Dissemination and knowledge sharing

- For each Research project key stakeholders are defined and targeted communication planned
- Dissemination events (conferences, webinar) are organised
- Research results are published on EASA website and promoted through social media



Geared to benefit generation

- Post-project action plan defined outlining how the results shall be used after project completion to support core activities
- Results will be used for rulemaking, concept papers, technical roadmaps, guidance material
- Results enable authorities for a more focussed certification, approval oversight, standardisation



Cooperation is key in Research

- Close cooperation established with NAAs, Industry, Academia and Research centers to exploit research results, share knowledge and address the challenges affecting the aviation ecosystem

Thank you for your attention

