

EASA-managed Research projects

Addressing research needs of aviation authorities

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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



37 projects in research sub-portfolio



Some of EASA Research projects

| | |
|--|---|
| <p><u>RWYMT, TRIPLE-ONE</u></p> <p>Enhancing runway safety standards through new scientific evidence</p> | <p><u>FS, MGB, VRS</u></p> <p>address rotorcraft safety standards with research on solutions of previous accidents</p> |
| <p><u>MLEAP</u></p> <p>build up expertise for enabling the approval of safety-relevant artificial intelligence applications</p> | <p><u>NOISE, EMISSIONS, MbM</u></p> <p>Advance sustainability through enhanced regulatory environmental tools</p> |
| <p><u>MODEL-SI, VIRTUA, DATAPP</u></p> <p>Research on regulatory aspects to enable digital transformation</p> | <p><u>MESAFE, CaVD, DM</u></p> <p>Addressing and enhancing health standards of critical aviation safety personnel</p> |

Aviation authority research needs



Environment

- New SAF production pathways



Security impacting safety

- AI aspects, conflict zones



Artificial intelligence

- Human factors



Data for Safety

- Future use cases



Health / medical

- Obstructive sleep apnea, high air space operations



Automation

- Impact on responsibilities flight crew and air traffic controllers



ATM / ANS

- Performance of ground equipment, airspace classifications



Air operations

- Flight time limitations for emCO



Drones

- BVLOS operations

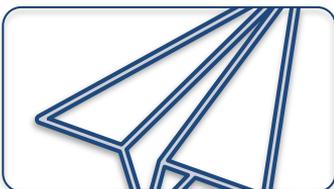


Dissemination and benefits management



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

