

Die Förderschwerpunkte (Destinationen) in „Cluster 5“, Klima, Energie, Mobilität

Destination 1 Climate science

Climate Science

Destination 2

Cross-sectoral Solutions for the
Climate Transition

Cities

Batteries

Citizen and Stakeholder
Engagement

Destination 3 Energy supply

Renewable
Energy

Energy System,
Grid and Storage

CCUS

Cross-Cutting
Activities

Destination 4 Energy demand

Buildings

Industry

Destination 5

Clean and competitive solutions
for all transport modes

Zero- Emission Road
Transport

Aviation

Waterborne
Transport

Transport-related health
and environmental issues

Destination 6

Transport and Smart Mobility
services

Connected, cooperative
and automated mobility

Multimodal and
sustainable transport
systems for passengers
and goods

Safety and resilience



Übersicht, spezifisch auf Luftfahrt bezogene Calls (Destination 5)

Topic Code	Topic Title	ToA	Year	Budget (Mio €)	Bdgt/Prjct (Mio €)	# of Prjcts	TRL
Call opened:	13.12.2022						
Call closed:	20.04.2023						
HORIZON-CL5-2023-D5-01-07	Hydrogen-powered aviation (refueling and supply systems for liquid hydrogen)	IA	2023	20,00	8-10	2	6
HORIZON-CL5-2023-D5-01-08	Accelerating climate neutral hydrogen-powered/electrified aviation (electrified powertrain of a megawatt class)	RIA		17,00	3-4	4	2-3
HORIZON-CL5-2023-D5-01-09	Competitiveness and digital transformation in aviation – advancing further capabilities, digital approach to design	RIA		15,00	3-5	4	2-4
HORIZON-CL5-2023-D5-01-10	Aviation research synergies between Horizon Europe, AZEA and National programs (LS)	CSA		2,00	2	1	
Call opened:	07.12.2023						
Call closed:	18.04.2024						
HORIZON-CL5-2024-D5-01-07	Accelerating climate neutral aviation, minimising non-CO2 emissions	RIA	2024	17,00	4-5	4	2-4
HORIZON-CL5-2024-D5-01-08	Competitiveness and digital transformation in aviation – advancing further composite aerostructures (LS)	RIA		16,00	3-5	4	2-4
HORIZON-CL5-2024-D5-01-09	Impact monitoring of EU Aviation R&I (impact monitoring toolbox)	RIA		8,00	8	1	
HORIZON-CL5-2024-D5-01-10	Towards a flying testbed for European leadership in aviation	RIA		16,00	16	1	4-5

Total: 111 Mio €, 8 Calls, 21 Projekte

Förderinstrumente

Indirekte Kosten:
25% der direkt
geförderten Kosten

- **RIA – Research and Innovation Action**

- neues Wissen und Entwicklung neuer Technologien
- Förderquote 100 % der direkten Kosten

TRL 3 - 5

- **IA – Innovation Action**

- Demonstration neuer Technologien und Lösungsansätze
- Förderquote 60% (non-profit organisations: 100%)

TRL 5 - 8

- **CSA – Coordination and Support Action**

- Standardisierung, Verbreitung, Vernetzung, Studien...
- Förderquote 100%

TRL 7 - 9

Weitere Calls mit Luftfahrtbezug

HORIZON-CL5-2024-D5-01-17: Assessment of air pollutant emissions from low-carbon fuels in the heavy-duty, aviation, and maritime sectors

- **Technology packages** to mitigate the emerging forms of pollution are proposed and projections updated
- **Reliable scientific data** to guide future policy and technology choices
- **Guiding principles for optimized Design, Operation and Maintenance**, to minimize emissions, for designers and operators.

HORIZON-CL5-2023-D6-01-11: Aviation safety - Uncertainty quantification for safety and risk management

Expected Outcome: Project results should focus to the **quantification of uncertainty (UQ)** in all aspects of the design, manufacturing and operations for achieving high level of safety and a better management of risks.

- UQ for modelling/simulation of **design, manufacturing and integration** processes.
- UQ for **operational aspects**, UQ for **virtual certification**.
- **Big data processing and data science** for safety intelligence and risk management.
- **Validation campaigns** in challenging test cases

