

GERMAN INTERNATIONAL COOPERATION IN FUNDED AERONAUTICS RESEARCH PROJECTS

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Programme Management Agency for Aviation Research


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DLR

Projektträger
Luftfahrtforschung

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- ▶ Overview of LuFo VII-1
 - ▶ LuFo International
 - ▶ AREANA Project and Synergy MoU

History LuFo I - VI



348 proposals with 1.143 participants and

630 applications in last Call LuFo VI-3



Research funding LuFo
since 30 years

appr. 3.800 projects totally with
3,8 Bn. € funding volume,

of that 1.100 constantly with 1,3 Bn. € funding
volume (duration end after 01.01.2024)



Strengthening of SME

Creates increase of SME funding part up to
15% of total volume.



Project duration commonly 3 ¼
years

Central goal of LuFo Klima VII

Central goal of the seventh aviation research programme, LuFo Klima VII is:

A significant reduction of the climate effects of aviation (CO₂ and Non-CO₂)

But also open to competitiveness projects (!)



- In LuFo Klima VII three main calls (VII-1 to VII-3) are planned:
 - LuFo Klima VII-1 Call 2024 (Granting period 2025/2026)
 - LuFo Klima VII-2 Call 2026 (Granting period 2027/2028)
 - LuFo Klima VII-3 Call 2028 (Granting period 2029/2030)
- Two special intermediate calls in LuFo VII-1:
 - „UpLift“: Hydrogen Flying Testbed and Ground Test Equipment
 - **International Cooperation Projects**

International cooperation in LuFo VII



First International Cooperation Call in LuFo Klima VII-1:

- Call opened for submission of sketches on **04. April 2025** and closed on **04. June 2025**.
- **32 sketches** were submitted from **13 partner countries**
- Upon evaluation **5 sketches** were considered for funding, and invitations for a detailed proposal were sent out.
- Total budget for the successful projects within the first call will be in the range of **30 M€ (German and international funding)**

Second International Cooperation Call in LuFo Klima VII-2:

- It is decided to offer international cooperation opportunities again in 2026 as part of the „AREANA JoinED Call 2025/26“ which will be published end of **October 2025**.

The AREANA Project



- Aviation Research Ecosystem Advanced Novel Approach
- EU HORIZON-CL5-2023-D5-01-10
- 01.01.2024 – 31.12.2025
- 15 partners

Aviation research synergies between Horizon Europe, AZEA and National programs

Workpackages & Participants

| | | | |
|---|---|---|---|
| <p>R&I aviation programs synergies</p> <p>Leader: Projektträger Luftfahrtforschung</p> | <p>AERODAYS 2025 Organization</p> <p>Leader: Lukasiewicz Institute of Aviation</p> | <p>Support of the Alliance on Zero Emission Aviation</p> <p>Leader: CZECH AVIATION RESEARCH CENTRE</p> | <p>Management, Dissemination and Communication</p> <p>Leader: CZECH AVIATION RESEARCH CENTRE</p> |
|---|---|---|---|

CZ, DE, PL, FR, NL, IT, AT, RO, UK, BE, AT, PT, CH, UA, ES

**STRONGER TOGETHER:
CREATING SYNERGIES FOR A COMMON
FUTURE OF EUROPEAN AVIATION**

- June 2025, 7 partners from 5 European countries signed the AREANA Synergy MoU
- UKRI joined as 8th Partner in July
- In September, 1st in-person meeting of the General Assembly:
 - Procedure Manual approved
 - „Lighthouse Project Workshop“
 - „JoinED“ Call preparation started
 - Participation of CDTI from Spain with „guest status“

The Members of the ASMG

| | | | | |
|---|--|--|---|---|
|  |  |  |  |  |
|  |  Bundesministerium für Wirtschaft und Energie |  Bundesministerium Innovation, Mobilität und Infrastruktur |  |  Ministerie van Infrastructuur en Waterstaat |
|  | |  FFG Forschung wirkt. | |  LUCHTVAART in transitie |

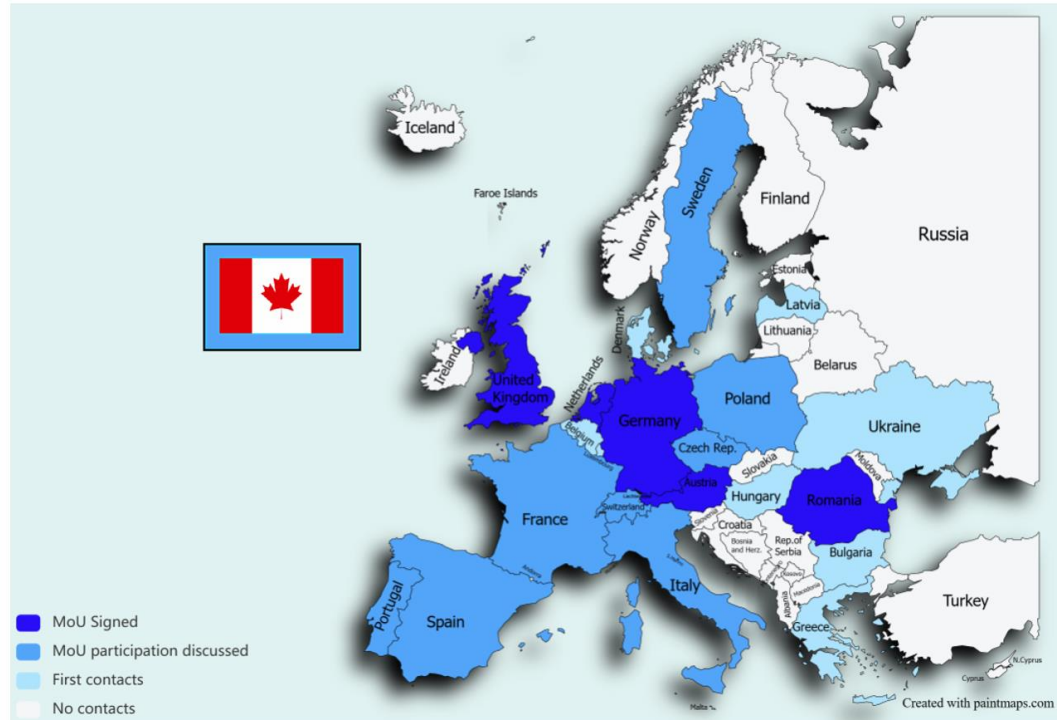
7 Reasons to Join the “AREANA MoU”

- Guaranteed access to the **AREANA “JoinED Call”** European funding programme cooperation (40 Mio €+ Funding in 2026 expected)
- Instant international visibility of your funding programme by listing as **“Preferred Partner”**
- Better chances for your participants by **“Bonus Points”** to “Preferred Partners during the **evaluation process**
- Participation in **Joint Strategy Exchange (+)** with other national ministries and leading research programmes
- Full inclusion in **Joint Data Base** (ECARE Digital Platform) guaranteed
- Option of **own funding initiatives** that focus on your key strategic targets/competencies with a natural pool of partners
- Membership in the **General Assembly of dedicated aviation research experts**, committed to strengthen European aviation by a fair and efficient partnership

The AREANA Synergy MoU Group:

Planning to connect European, national & regional funding

In Europe and beyond



Activity Implementation

“JoinED Call”

- 2025 German pilot project
- 2026/27 starting Oct 2025
- 8+ participating programmes

“Strategy Comparison”

- Creating a joint strategy structure
- All 5 Signatory countries involved

“Data Transparency”

- Using the ECARE Digital Platform
- Using the joint strategy structure
- Supporting “Twinning”

“Infrastructure Activities”

- Cooperation with ongoing European efforts

Questions / Contact data

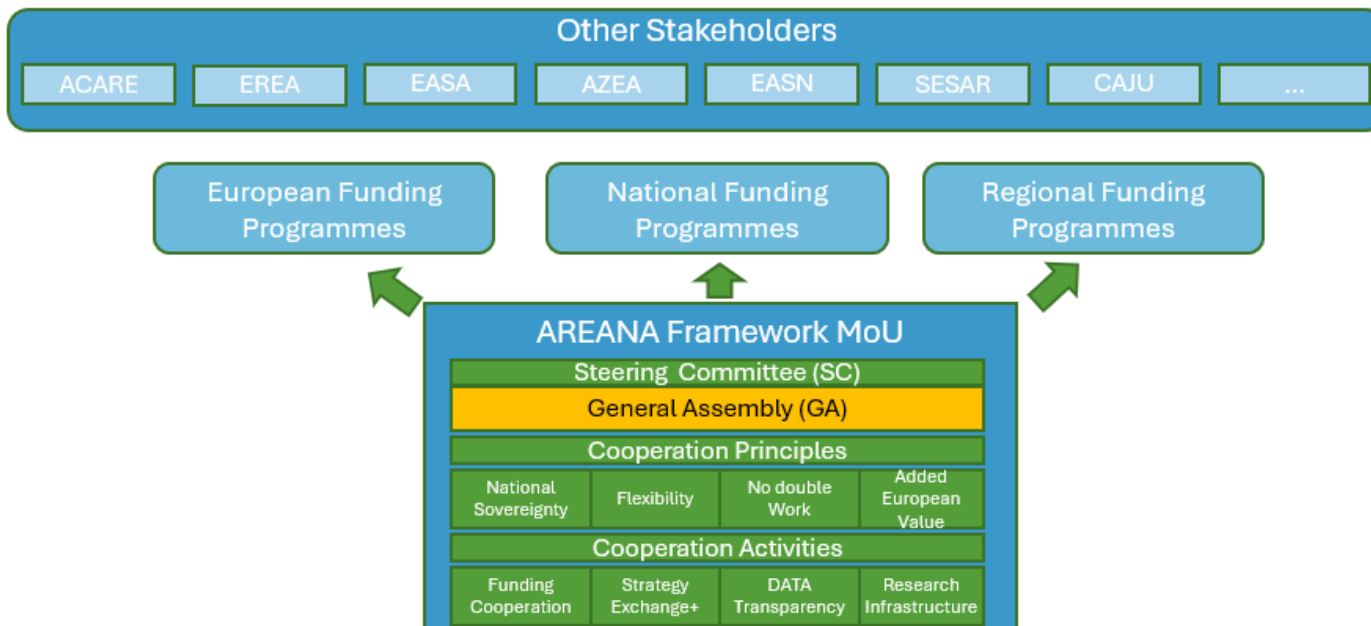


| | | |
|--|---|---|
| <p>Nele Harperath</p> <p>European cooperation</p> <p>nele.harperath@dlr.de Tel: +49 228 447-198</p> | <p>Hartwig Hagena</p> <p>European cooperation concepts</p> <p>hartwig.hagena@dlr.de Tel: +49 228 447-199</p> | <p>Dr. Peter Linde</p> <p>Cooperation with Sweden</p> <p>peter.linde@dlr.de Tel: +49 228 447-424</p> |
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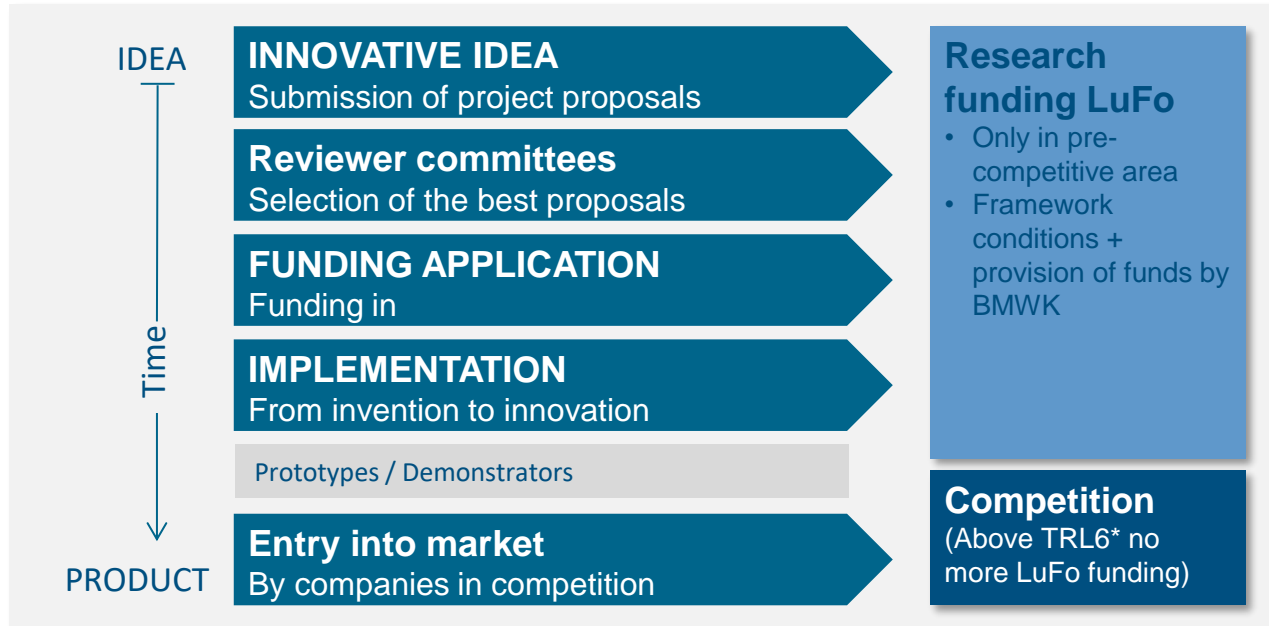
Backup Slides



The AREANA „Synergy“ MoU



How LuFo works



LuFo Klima VII-1 - Systematics

For questions about international cooperation with the German National Aeronautics Research Programme, please contact:
 Programme lines Grant recipient Max. funding rate



Projektträger
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| | Programme lines | Grant recipient | Max. funding rate |
|----|---|--|---|
| 01 | Disruptive technologies Climate neutral aviation | Scientific institutions (SCI) (Universities and research agencies) | Funding rate WIS 100% Proof of industrial application potential (Support letter IND/KMU) (Max. 600 T€ pro Institut) |
| 02 | Industrial research | Companies of commercial economy (IND/SME) and Scientific institutions (SCI) | Funding rate IND 50% Funding rate SME 65% Funding rate SCI 100% Projects of industrial research Technological focus at IND/KMU, Joint project leader IND/KMU (Max. 15 Mio.€ pro Verbund) |
| 03 | Industrial research - SME | Small and medium companies (SME) of commercial economy and Scientific institutions (SCI) | Funding rate SME 65% (max. 750 T€ Zuwendung je Partner) Funding rate SME 100% (max. 1200 T€ Zuwendung je Partner) Projects of industrial research Technological focus at KMU, joint project leader KMU |
| 04 | Experimental development | Companies of commercial economy (IND/SME) und Scientific institutions (SCI) | Funding rate IND 25% Funding rate SME 40% Funding rate SCI 100% Experimental development projects (Max. 15 M. € per Project) |

International cooperation of the Programme Management Agency for Aviation Research

International research activities



Associated partners (without public funding)

Basic cooperation on commercial „give & take“-basis,
for example the United States

Bi-national cooperation- partner (with public funding)

More "symbiotic relation", the resources will be more
intensively and broadly used, e.g

- Austrian/German projects
- British/German projects
- In planning: The Netherlands, Sweden...

Optimization of the European research cooperation (Project AREANA)

Member in research network GARTEUR for civil and military aeronautics research

National point of contact for the European Framework research programmes

Ongoing discussions* with potential partners from:

National Level

- Canada
- France
- Italy
- Malta
- Poland
- Portugal
- Spain
- Sweden


Regional Level

- Bremen (DE)
- Hamburg (DE)
- Niedersachsen (DE)
- Occitanie (FR)
- Zürich (CH)
- Vaud (CH)

* The concept of a MoU between signatories, willing to support synergies in aviation research has been presented by the AREANA project first in 22.01.25. Parties from the above shown countries/regions have shown since then different level of interest in joining the EPSG. The Target of the project is to reach at least 15 participants to the EPSG till end of 2025. Further growth is expected in the years after.

Evaluation criteria

- Contribution on federal level:
 - (50) – Contribution to reduction of climate impact
 - (20) – Contribution to acceptance by passengers and society
 - (20) – Contribution to cost efficiency
 - (40) – Innovation, exceedance of state of the art
 - (20) – Time- and cost estimation
 - (20) – Selection of the partners of the joint project / network creation
- Contribution by individual partners:
 - (30) – Resilient solution path of each main work package and utilization perspective of each partner contribution
 - (40) – Resilient utilization perspective of each partner
 - (10) – Qualifikation of the partners participating in the joint project
- Max. 260 Overall points

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- ▶ Introduction to the Programme Management Agency for Aviation Research
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 - ▶ AREANA

Programme Management Agency for Aviation Research

Deutlich kürzen oder nur Bild von unserem Bürogebäude und 3 Bullet Points : working for Ministry, national and Regional Programmes („German Vinnova“)

Our core tasks

The Programme Management Agency for Aviation Research (PT-LF):

- Supports the Ministry for Economic Affairs and Energy (BMWE) in the implementation of the Federal Aeronautics Research Programme („LuFo Klima“)
- Supports the federal states that complement the Federal Aeronautics Research Programme with their own programmes
- Acts as national point of contact for aeronautics in network creation in the European Framework programme



- The focus of LuFo Klima VII-1 is based on **three pillars**:
 1. **Alternative climate neutral propulsion technologies (open energy carrier),**
 2. **Reduction of the energy demand, and**
 3. **Increase of the competitiveness, resource efficiency, decreasing the ecological imprint and improvement of the social acceptance.**
- **The funding of pillar 1 takes place through the Climate- and Transformation fund (KTF) of the federal government.**
- **The funding of pillars 2 and 3 takes place through the aeronautics research programme of the Ministry of Economics and Climate Protection**

LuFo Klima VII - Overview



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- Intermediate calls for project funding from KTF in the years 2025 and 2027 for coordination and utilization of the implemented ground test rigs and the acquired „Flying Testbeds“ for validation of climate neutral propulsion technologies in the frame of LuFo VI-3 UpLift
(<https://www.uplift-h2-aviation.de/>)
- Flexibilisation for pre-selected cooperation projects with European or other international cooperation