DLR DESIGN CHALLENGE 2024
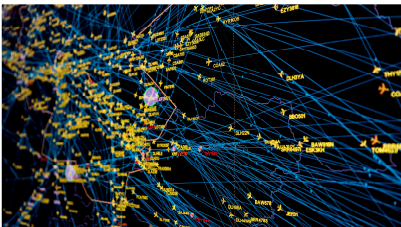
Future mobility on regional routes!

Background

The ongoing climate crisis requires innovative solutions in all areas of life, including aviation. This year, the DLR Design Challenge is calling for the development of concepts for new, climate-efficient aircraft to serve a network of regional routes. By integrating novel concepts and sustainable technologies, the aircraft should help to reduce climate impact while also enabling cost-efficient operating models for regional flight routes.

In this year's challenge, the teams will be given a network of routes to be served by their aircraft concept. They will have the freedom to choose some of the aircraft requirements to most efficiently accomplish the overall task. The students will have to accept the challenge of balancing the choice of technologies and operational concept to find an optimal point in the open solution space. This requires not only consideration of technological feasibility, but also analysis of operational aspects, economic viability and environmental impact. By integrating these different aspects, the teams should develop holistic concepts that combine the goals of sustainability and efficiency in aviation.

Organization

You and your fellow students are interested? The German Aerospace Center (DLR) is inviting you to represent your university at the DLR Design Challenge 2024. For team registration, please get in touch with the responsible supervisors at your university, who will forward the registration to DesignChallenge@dlr.de.

- Maximum six team members, whereas each team must be represented by at least one team member at each event
- Kick-Off event and release of the detailed design task
- Preparation of a technical report for the documentation of the results
- Closing event and presentation of the results by all teams
- Evaluation of the reports by a jury of experts from the DLR
- Presentation of the winning designs at an aviation congress

More detailed timeline along with further participation requirements will be given due notice.

08.02.024
Announcement of the design challenge

21.03.2024
Kick-off event for the task announcement

August 2024
Closing event for results presentations and award ceremony

14.03.2024
Team Registration Deadline

21.07.2024
Report deadline

September/ October 2024
Presentation at an aviation congress