

# Climate Optimized Flight Routes – The Path from Research to Operations

Dr. **Ralph Leemüller**, DFS Deutsche Flugsicherung GmbH

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Studies in research often promise a fast system implementation and usage in operation. But especially in safety critical areas like air navigation services it can be recognized that it takes quite a long time from proclaimed "ready for use" at research level until actual operational use. Why this difference? Often, necessary aspects like safety assessment, certification, and training procedures for operators cannot be analyzed by researcher. The validation under operational circumstances may lead to additional questions.



M. Stanislav, pexels.com

The presentation will demonstrate several challenges in the actual discussion about avoidance of persistent contrails. The German project D-KULT (Demonstrator klima- und umweltfreundlicher Lufttransport, Juni 2022 bis Mai 2025) works on several solutions and its ideas are presented during the lecture.

*Ralph Leemüller has accumulated knowledge from many years in the research and development division at DFS. He has experience in product management of air traffic simulators as well as management of complex systems in national and in international projects. Currently, he works on the evaluation of procedures to mitigate climate impact through air traffic management.*

DGLR / HAW Prof. Dr.-Ing. Dieter Scholz  
RAeS Richard Sanderson

Tel.: 040 42875 8825  
Tel.: 04167 92012

[info@ProfScholz.de](mailto:info@ProfScholz.de)  
[events@raes-hamburg.de](mailto:events@raes-hamburg.de)



DGLR Bezirksgruppe Hamburg  
RAeS Hamburg Branch  
VDI, Arbeitskreis L&R Hamburg  
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