

Open ScienCe Aeronautic & Air Transport Research

The OSCAR project has addressed the current perception, acceptance, and implementation of Open Science in the field of European Aeronautics and Air Transport (AAT) research and in those fields where European AAT research issues interact with, e.g. other transport modes and technology OSCAR exchange.

OSCAR aimed at paving the way towards Open Science in European aviation research by a detailed analysis of the landscape and by developing, alidating, and promoting a suitable Open Science Concept. Furthermore, the OSCAR team worked towards: nutshell

- Setting up a community of transport research organisations willing to work on the basis of an agreed Open Science Code of Conduct.
- Creating a solid knowledge base on the implementation of Open Science approaches in transport research, and in particular on current constraints and bottlenecks in this field.
- Leading to improved efficiency, quality and integrity and, when relevant, interdisciplinarity of transport research, speeding up the path from research to innovation and promoting citizens' engagement in the scientific process.

WP2

in a



WP3

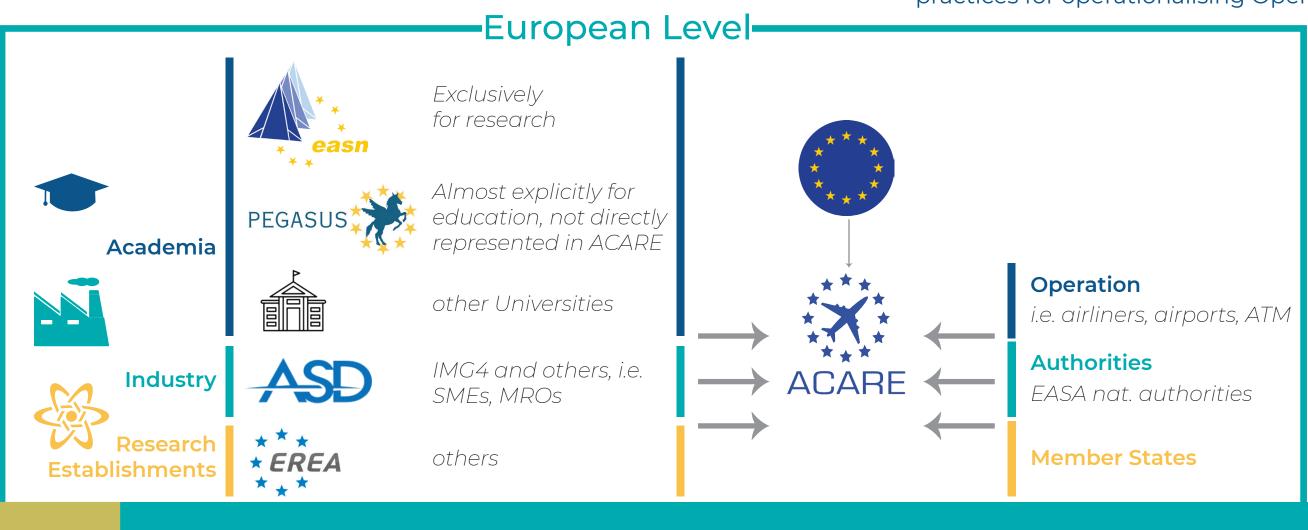
WP2 aimed at capturing the current extend that Open Science principles are The main objective of WP3 was to identify national, European and international aimed at mapping the landscape of Open Science in AAT research through twofold approach was followed: surveys and interviews on the existing practices and expectations. The latter i) Hold a series of virtual interviews with relevant European projects; revealed that both, the researchers and the management of Research ii) Organise a conference on Open Science led by a renowned expert in this field Establishments and Academia, are in favour of implementing Open Science. On that would allow to improve the level of knowledge of researchers on Open the other side, the industrial sector seems more reluctant, thus further efforts as Science. well as appropriate clarifications, tools and political arrangements would be To identify international partners, the OSCAR partners capitalized on their needed for convincing them for the benefits of Open Science. T2.3 dealt with the contacts in IFAR and identified several key members for sharing their expertise analysis of established Consortium Agreement Models. The analysis showed that and best practices on Open Science, through interviews. The different points of the most relevant issues considered in the CAMs are:

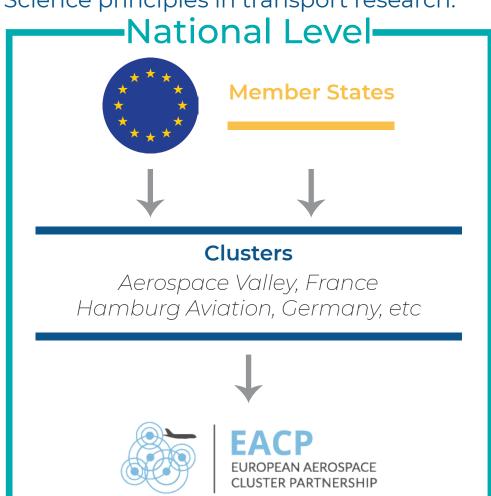
responsibility.

implementation of Open Science. The results revealed that the exploitation of Science. A joint strategy could therefore be implemented in the AAT and other existing platforms dedicated to Aviation would appreciably boost the transport areas. By participating in numerous relevant events, the OSCAR team implementation of Open Science in Aviation.

applicable in the AAT Research performed in Europe. Task 2.1 aimed to identify the partners in the AAT field and, through the organization of forums, workshops and spectrum of Aviation stakeholders and set-up communication channels. T2.2 other events, to exchange ideas and best practices on Open Science principles. A

views between the stakeholders of AAT Research and those of Transport in 1. Intellectual Property, 2. Open Source Software, 3. Open Data, 4. Ethics and general, were analysed through a survey, which revealed that they share much more similarities than differences in the perception of Open Science. In both T2.4 aimed at the identification and adaption of suitable tools to facilitate the fields, confidentiality is the main obstacle for the implementation of Open has been able to achieve its objectives, namely to exchange ideas and share best practices for operationalising Open Science principles in transport research.





WP4

The OSCAR Code of Conduct

takes into account the specific requirements of the European policy making adjustment of the developed Code was provided. workflows.

The OSCAR Code is a hybrid rule-based, aspirational Code with focus on clear Open Science is not well implemented and this may be due to factors such as principles. It was developed in a hybrid button-up, top-down approach. Its use lack of promotion of Open Science, lack of flexibility of rules applicable to Open can improve European AAT research projects by accelerating innovation cycles and regain trust. Moreover, extensive theoretical and ethical background stakeholders. information on Open Science and Codes has been provided, including intellectual property, the European legal framework, benefits of Open Science been provided, taking into consideration fears and expectations of the AAT and FAQ. This information enables the AAT community to ethically interpret and Community. Lastly, conclusions on the assessment of the final version of the practically implement not only the OSCAR Code, but Open Science and other Code in pilot cases have been extracted. Codes of Conduct in general in their research projects.

Demonstration & Validation

WP5

In WP4, we developed one of the first Code of Conduct (Code) of its kind: an Within WP5, demonstration and validation of the OSCAR Open Science Code Open Science Code for European research projects. The OSCAR Open Science was performed by simulating its application on ongoing European projects, Code is short and easy to use. A practical implementation guide on how to use duly selected as pilot cases. In particular, the impact of the Code on the it in European research projects has also been created. Additionally, a project's implementation was examined (IPR issues, publications & other maintenance workflow and update pattern for the Code has been provided, that dissemination activities) and input for potential modifications and fine

> The Code was tested on 3 types of projects: IA, RIA and CSA. It was revealed that Science to publications and research data and a reluctance by defaults from

> In addition, a set of recommendations for updating and finalizing the Code has







This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 824350.