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European forum and oBsErvatory for OPEN science in transport

EuroCRIS, 2019

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« Open Science in transport: stakeholders involved and their areas of interest, main gaps and opportunities to overcome »

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Type of Action: Coordination and Support

Action

GA Number: 824323

Overall Budget: € 1,997,283.75

EU Contribution: € 1,997,283.75

BE OPEN partners

- ✓ 17 partners
- ✓ 8 third parties
- ✓ 8 Work Packages
- ✓ 32 Deliverables



(Third Parties)

BE OPEN Objectives:



Promote, regulate and standardise Open Science (OS) in Transport

- to promote Open Science in transport research
- assist in regulating and standardizing
- Create a common understanding
- identify and put in place the mechanisms
- Transport Observatory / fOrum for Promoting Open Science.



What are we alming at?

Develop a framework of common understanding of OS in transport

Map existing OS resources

Facilitate an evidence-based dialogue to promote and establish OS in transport

Provide policy framework and guidance for OS implementation in transport

Engage a broad range of stakeholders in a participatory process for OS uptake

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EXPECTED IMPACTS (1/2)

01

TOPOS forum and observatory tool will contribute to creating a **solid knowledge base on the implementation of Open Science** approach in transport research



Governance and new operational/business models will be developed for enhancing Open Science by describing the rationale of how to create and capture value in economic and social context



The **European Code of Conduct on Open Science in transport** will be developed proposing recommendations and proper guidelines that allow setting up a community of transport research organizations

EXPECTED IMPACTS (2/2)



Awareness and visibility (authorities, Industrial and SMEs Associations in Transport, Publishing Companies, and the various European Technology Platforms, and strong media coverage) will be created



International stakeholders will be engaged in mutual learning and sharing experiences

MEGA THEMES



WP 1 Focused Objectives of Key Actors

➤Task 1.1 Clustering of Key Actors

➤Task 1.2 Open Scince Framework, terminology and instruments

>Task 1.3 Stakeholders needs and objectives

T1.1 Analysis of main actors involved





Transport planning area



T1.2 Open Science framework, terminology and instruments

Connect transport modes, stakeholders and competence areas to extrapolate the main challenges to be addressed by the framework structure

List Open Science main challenges, analyses transport sector stakeholders experience and proposes a framework

Approach



Interrelation of Stakeholders

Competence area	Primary stakeholder	Secondary stakeholders
Legal/ Regulatory	Policy makers, public authorities Transport networks, commercial transport & logistics	Research centres, universities
Technological	Research centres, universities Commercial transport, logistics industry Transport network, policy makers	Transport network, policy makers
Transport planning	Public authorities, transport networks, policy makers	Commercial transport & logistics Research centres & universities.
Business modelling	Policy maker, public authority, transport networks, Commercial transport & logistics	Research centres & universities
Socio-economic	Public authorities, commercial transport, logistics & transport network	Transport network
Environmental	Research centres & universities Public authorities, commercial transport, logistics & policy makers	NGOs & community organizations Citizens

Survey – Stakeholder-centered Study



Challenges

- Data fragmentation, large datasets and lack of data quality and security
- Lack of:
 - >technological framework (standards, etc.)
 - skilled experts
- Large variety of stakeholders, privacy principles
- Legal framework is insufficient
- → Establish **common understanding** among all stakeholders
- → Provide a common **technical framework**
- → develop appropriate **funding mechanisms**

Framework



Metrics



Metrics help us to identify the areas where changes need to be done

- Altimetrics research indicators based on social media
- Bibliometrics citation and content analyses

Need for Next Generation Metrics

Refelcting transparency, diversity and reflexivity

Challenges & Opportunities

Identified Challenge	Framework Topics	Opportunities
Fragmented data & large variety of stakeholders:	Policy and Guidelines, Dissemination of Open Science in transport research data	Research Data Alliance (RDA)/ RDA Europe 4 Transport fOrum/ Observatory for Promoting Open Science - TOPOS Implementation Roadmap for the European Science Cloud – Communication European Cloud FREYA V-Advance
Data quality	Explicit guidelines	EU ODP EUROSTAT FAIR European Commission Open Research Publishing Platform TRIMIS
Enhancing data	Data protection and	Cyber security framework

Challenges & Opportunities

Identified Challenge	Framework Topics	Opportunities
Technological challenge	Support and research services	Transport Research Cloud (TRC) eInfraCentral Next generation repository FREYA EOSC-Hub OpenAIRE-Advanced GO-BUILD – coordinating FAIR technology
Lack of skilled experts	Training requirements	GO-Train, European Skills and Qualifications Matrix for Open Science. FOSTER Plus
Legal challenges	Policy	Policy development to create common understanding EOSCPilot Open Science Policy Platform V-Advance GO CHANGE
Funding	Financial schemes	EC initiative to support Open Science

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