

**European forum and oBsErvatory
for OPEN science in transport**

**100th Transportation Research Board
Annual Meeting, Session “Open
Science in Transportation: Challenges
and Opportunities in a COVID-19 Era”
January 21st, 2021**

The BE OPEN project: a European initiative to promote, regulate & standardize Open Science (OS) in Transport

Prof. Maria Boile,
Director MSc in Shipping Dep. of Maritime Studies, University of Piraeus & Head of Unit, CERTH-HIT & Affiliated Faculty, Center for Advanced Infrastructure and Transportation, Rutgers University & BE OPEN coordinator

and

Dr. Afroditi Anagnostopoulou,
Head of Economic and Social Impacts of Transport Systems Laboratory, CERTH-HIT & BE OPEN Technical Manager

BE OPEN



Duration: 30 months

Start Date: 01-01-2019

Call: H2020-MG-2018-SingleStage-INEA

*Type of Action: Coordination and Support
Action*

GA Number: 824323

Overall Budget: € 1,997,283.75

EU Contribution: € 1,997,283.75

CONSORTIUM & THIRD PARTIES

The image displays a grid of logos for consortium members and third parties, organized into four rows:

- Row 1:** CERTH (Centre for Research & Technology Hellas), ATHENA, DLR, ectri, and Transport Research Centre.
- Row 2:** EURNEX, EATEO (European Association of Aviation Training and Educational Organizations), FEHRL, AIT (Austrian Institute of Technology), ZNEC (Laboratório Nacional de Engenharia Civil), and VILNIUS GEOMINAS (Faculty of Environmental Engineering Road Research Institute).
- Row 3:** Moving Innovation, Humanist (Virtual Centre of Excellence), toi, Konnekt-able, National Technical University of Athens, and Osborne Clarke.
- Row 4:** SCIPEDIA, UITP (Advancing Public Transport), VDI|VDE|IT, WEGEMT (The German University of Applied Sciences), GOAŃSK UNIVERSITY OF TECHNOLOGY, and University of Strathclyde Glasgow.

(Third Parties)

CHALLENGES AND OPPORTUNITIES IN A COVID-19 ERA

Open science assumes an increased significance and different meaning on:

- reliable and transparent open science principles
- policies that remove barriers and accelerate sharing of research

Transport sector:

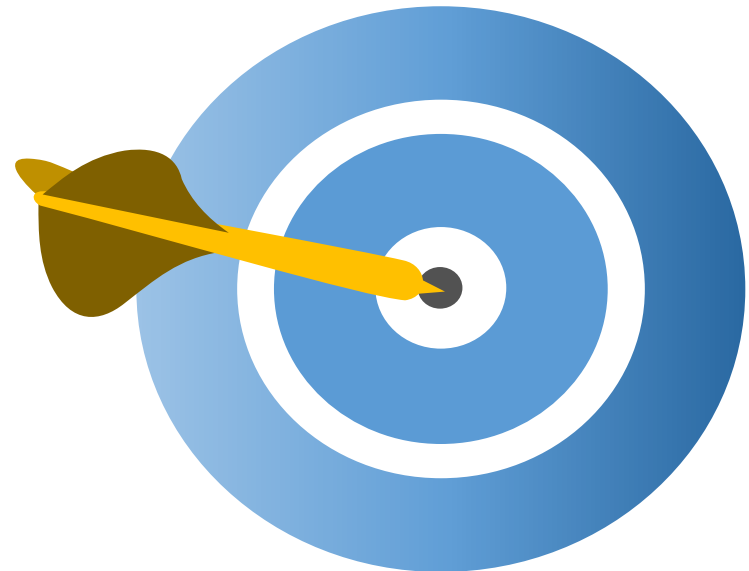
- ✓ Taming the spread of the pandemic
- ✓ Ensuring adequate food and supplies when and where needed
- ✓ Improving transport system resiliency
- ✓ Dealing with the impact of emergencies on the transport system
- ✓ Addressing the COVID-19 vaccine logistics challenges

OBJECTIVES

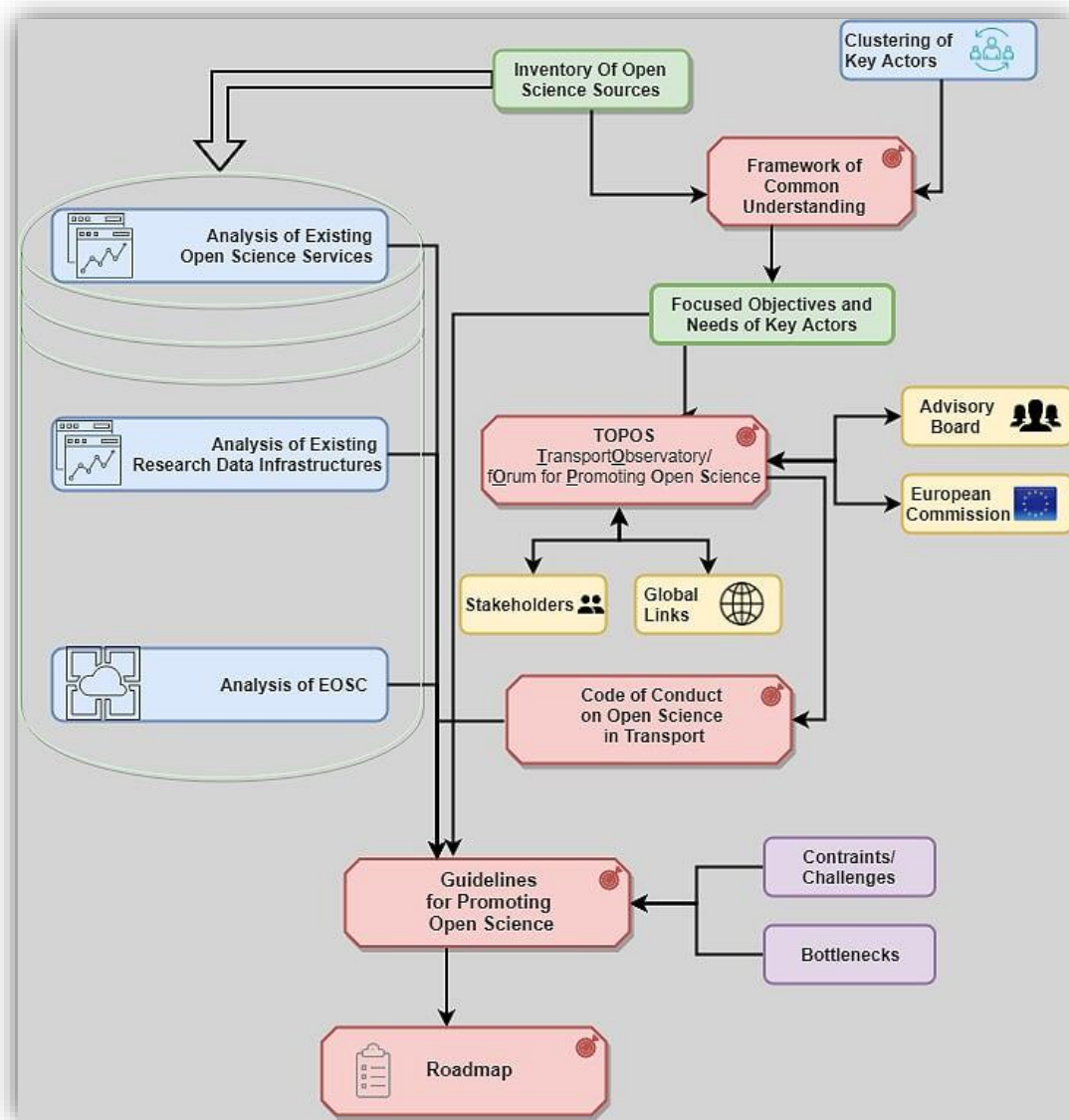
Capitalize upon existing initiatives enabling Open Science

Facilitate a common understanding among actors

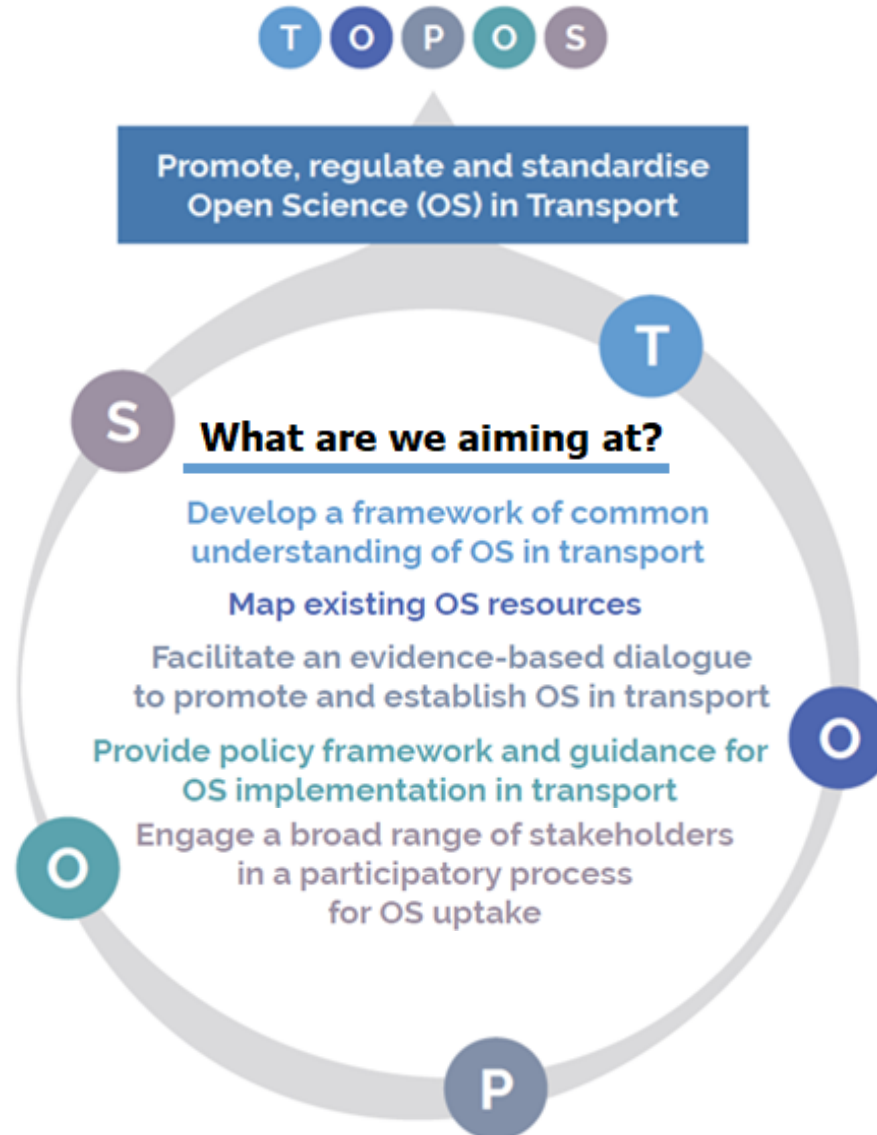
Monitor progress in order to facilitate continuous improvements in Open Science exploitation



SYSTEMATIC IMPLEMENTATION SOLUTION



TRANSPORT FORUM/OBSERVATORY FOR PROMOTING OPEN SCIENCE (TOPOS)



TOPOS TOOL



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



TOPOS Observatory aims to showcase the status and progress of open science uptake in transport research. It focuses on promoting territorial and cross border cooperation and contributing in the optimization of open science in transport research.

www.topos-observatory.eu/



TOPOS fOrum for national and European stakeholders – public and private - aims to exchange ideas and share best practices for operationalising Open Science principles in transport research.

RESULTS

1

Reviewed scientific sources and produced a **systematic taxonomy of key actors**, a unified transport terminology and related research and investigation instruments in each of the 6 competence areas

2

Produced a **framework of common understanding of OS in the transport research**, which provides a structured definition of general transport context facilitating the general framing of scientific researches & analyzing their practices and expectations in implementing OS in transport research

3

Described and classified all relevant **use cases affecting current and future research trends and related industrial developments** in the transport arena

4

Conducted a mapping of open access publications, policy and repository in European transport research covering all aspects of transport domain

RESULTS

5

Reviewed the **use of Open data and software in European transport research** as well as the **existence of business models** for infrastructure of Open Science

6

Summarized the challenges and opportunities for **aligning Transport research with EOSC**

7

Prepared the knowledge on Open Science in transport research for the future by **proposing governance model for Open Science in European transport research**

8

Developed the **membership and governance scheme of the TOPOS forum and observatory** describing how the above schemes should be implemented and assessed

9

Achieved a cooperation with the **OSCAR project** & Initiated a collaboration with the **Blue-Cloud** and the **FNS-Cloud projects**

PROGRESS BEYOND THE STATE OF THE ART

Dealing with behavioral issues and user needs by i) focusing on the objectives and priorities of the spectrum of stakeholders, ii) developing governance and new operational/business models for enhancing Open Science and iii) describing the rationale of how to create and capture value in economic and social context

Development of appropriate regulatory frameworks and policies to support innovation and deployment i.e. the European Code of Conduct on OS in transport research

Engagement of international stakeholders for mutual learning and sharing experiences for operationalizing OS principles in transport research.

Join our community



beopen-project.eu



[@OpenScTransport](https://twitter.com/OpenScTransport)



[BE OPEN Group](#)



[Newsletter](#)



[BEOPEN community](#)

