



National Technical University of Athens
Road Safety Observatory

Online
workshop
in the framework of

6TH UN GLOBAL ROAD SAFETY WEEK

17 - 23 May 2021



Streets for Life

#Love30



Thursday
20 May
2021

Innovation in Road Safety Research

Open science in road safety

Katerina Folla

Transportation Engineer, Research Associate

Together with:
George Yannis



The BeOpen project

- **Title of the project:**
European forum and oBsEratory for OPEN science in transport
- **Partners:**
17 participants and 9 third parties
- **Duration of the project:**
30 months (January 2019 – June 2021)
- **Framework Programme:**
Horizon 2020 - The EU Union Framework Programme for Research and Innovation – Mobility for Growth



Participant	Country
CERTH	EL
TOI	NO
ECTRI	BE
VDI/VDE	DE
ATHENA RC	EL
OC	DE
FEHRL	BE
FIT	IT
NTUA	EL
DLR	DE
EATEO	CY
EURNEX e. V.	DE
WEGEMT	NL
UITP	BE
HUMANIST	FR
Konnekt-able Technologies	IE
Scipedia S.L.	ES



Background

- **Open Science** is a new approach to the scientific process, aiming to provide accessibility to all levels of research community and society, increase integrity and reproducibility of research
- The rapid growth of **digital technologies** and new collaborative tools enable the vision of Open Science
- In the EU, the **European Open Science Cloud (EOSC)** has initiated as a single point of access to all European research data, data services, tools and standards
- Within this context, there is a need for promoting Open Science within the **transport research community**



BeOpen Methodology



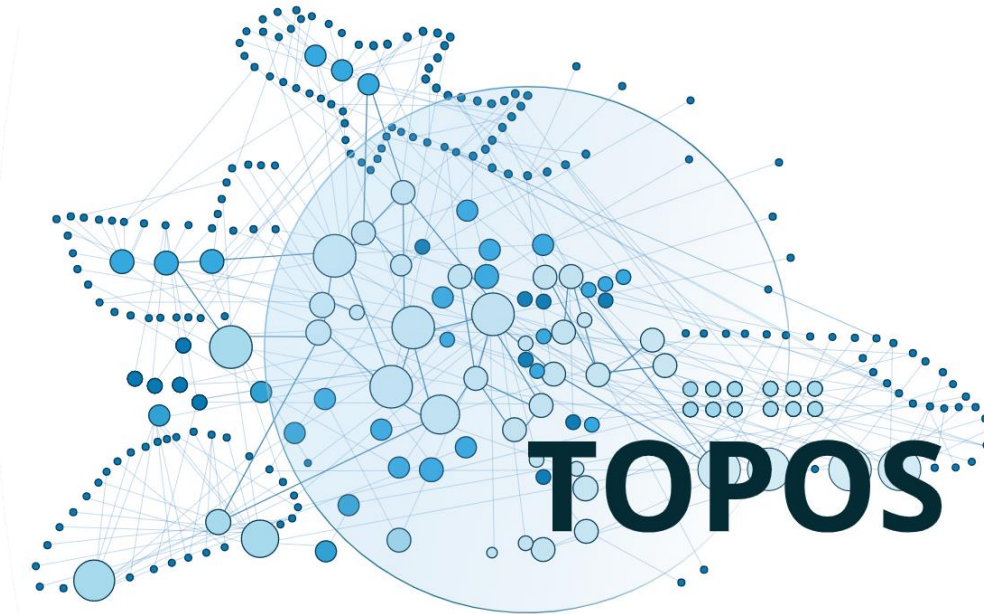
- Develop a **framework of common understanding**
- Develop an **inventory of Open Science resources** (research outcomes, services and research data infrastructures) related to all transport modes
- Set up the **TOPOS Observatory and Forum**, that will act as an evidence-based, community driven sharing of knowledge and experiences
- Develop a **"Code of Conduct"** to provide the legal and ethical guidance needed to operationalize Open Science principles
- Formulate a **set of guidelines** for decision making and planning



TOPOS Forum and Observatory



- **TOPOS** will contribute to creating a solid knowledge base on the implementation of Open Science approach in transport research
- TOPOS (<https://www.topos-observatory.eu/>) contains:
 - **TOPOS forum**, for national and European stakeholders (public and private) to exchange ideas and share best practices for operationalising Open Science principles in transport research
 - **TOPOS observatory**, which gathers all research results (publications, data, software) related to transport research in Europe
- The aim of TOPOS is to **empower research and industry communities** to develop Open Science solutions following the EOSC principles and under a commonly agreed Code of Conduct



TOPOS Forum and Observatory



TOPOS

BEOPEN

OpenAIRE

Scipedia

FORUM

OBSERVATORY

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.

TOPOS OBSERVATORY
FOR ORGANISATIONS

TOPOS OBSERVATORY
FOR INDIVIDUALS

TOPOS FORUM
FOR STAKEHOLDERS

"ORGANISATIONS"
User Manual

"INDIVIDUALS"
User Manual

"FORUM"
User Manual



The BE OPEN project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 824323.



Open Road Safety Information Systems



Road Safety Observatories

- [ERSO, European Road Safety Observatory](#)
- [OISEVI, Ibero-American Observatory](#)
- [African Road Safety Observatory](#)
- [NRSO – NTUA Road Safety Observatory](#)



Road Safety Decision Support Systems

- [SafeFITS, UNECE-Global Road Safety Model](#)
- [SafetyCube, EU Road Safety DSS](#)
- [iRAP, Road Safety ToolKit](#)
- [PRACT, CEDR](#)
- [US NHTSA/FHWA CMF Clearinghouse](#)



Scientific and Social Impact

- During the last years, several Open Road Safety Information Systems have been developed, **adding significant value** to the quest for safer roads worldwide
- The more developed Information Systems are associated with countries and regions with higher road safety performance and are a direct sign of **advanced road safety culture**
- Road Safety Information Systems are key management tools for developing road safety capacity and **engaging stakeholders** (not only for providing scientific evidence but also for monitoring efforts)
- Making road safety research results more accessible contributes to **better and more efficient science** and provides greater evaluation by the scientific community



Future Challenges

- Open Science could increase the current **great potential** of Road Safety Systems with:
 - more data and knowledge
 - broader geographical coverage
- **Global impact could be optimized** through:
 - a network of open science road safety systems
 - standardisation of data, processes and systems
 - evidence-based & customized best practice guidelines
- **"As open as possible and as closed as necessary"**: issues of personal data protection, confidentiality, IPR concerns etc. should be tackled





National Technical University of Athens
Road Safety Observatory

Online
workshop
in the framework of

6TH UN GLOBAL ROAD SAFETY WEEK

17 - 23 May 2021



Streets for Life

#Love30



Thursday
20 May
2021

Innovation in Road Safety Research

Open science in road safety

Katerina Folla

Transportation Engineer, Research Associate

Together with:
George Yannis

