BE OPEN

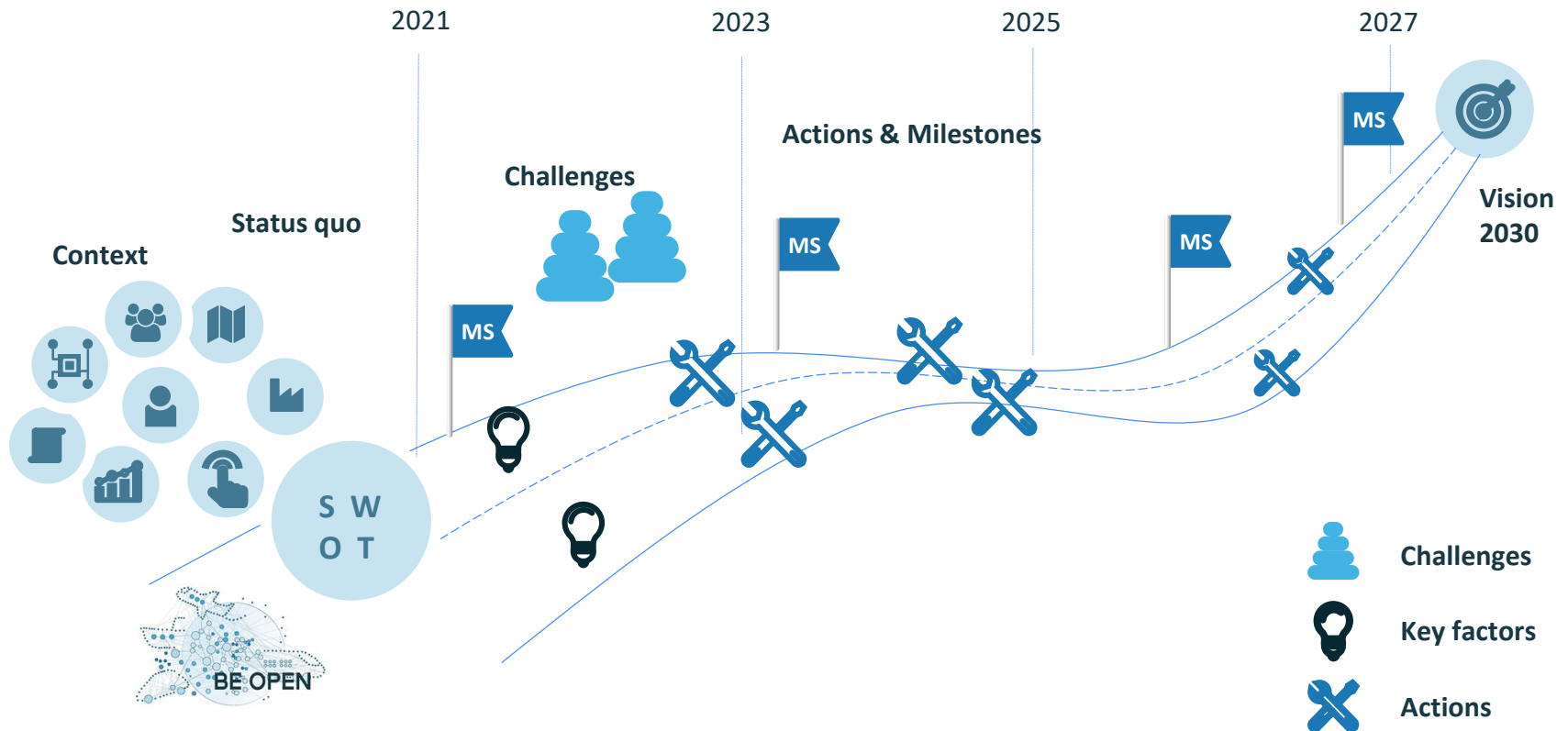# European forum and oBsErvatory for OPEN science in transport

Making Open Science the new normal for transport research

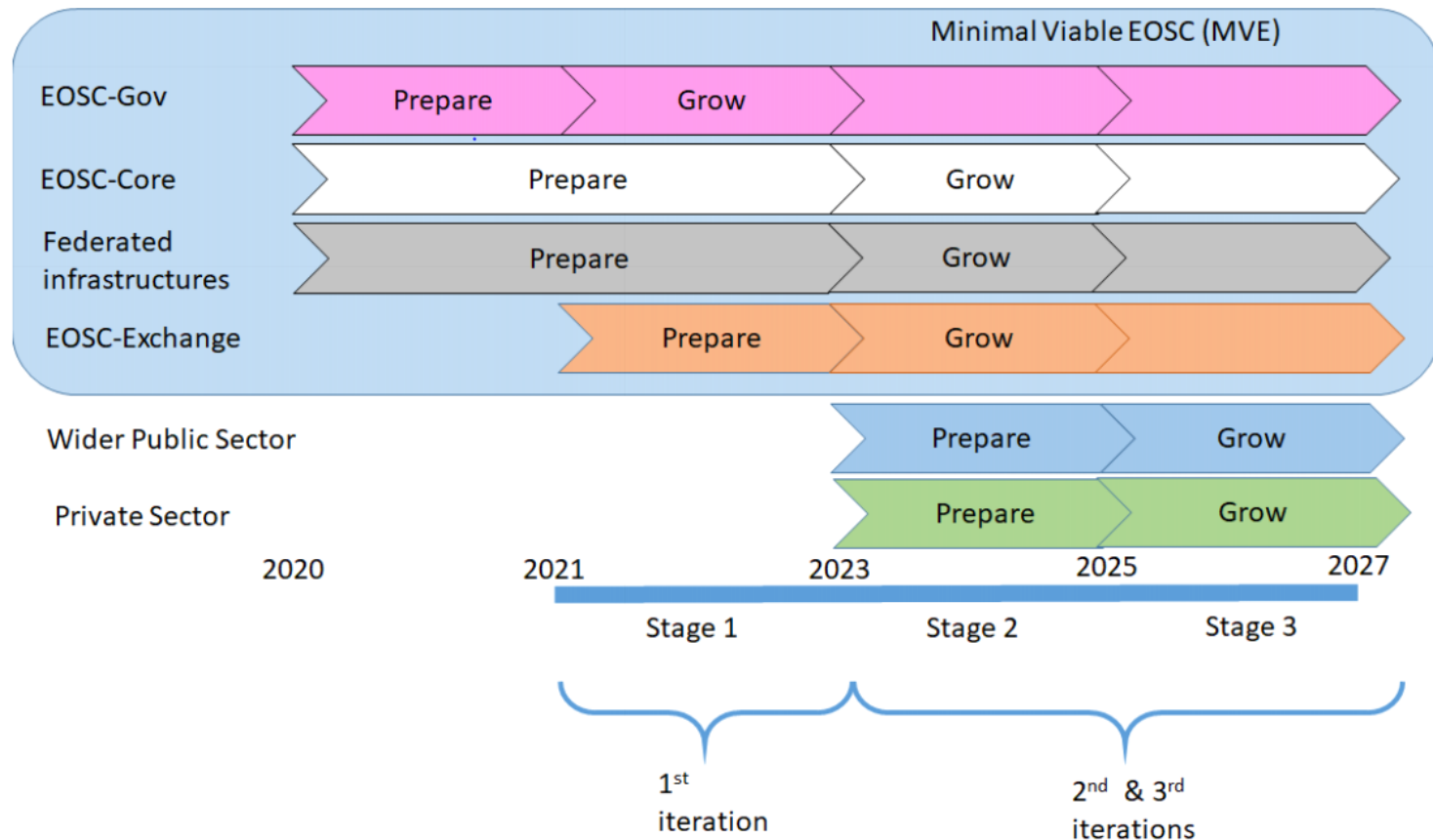### Roadmap for promoting Open Science in transport

Dr Gereon Meyer, VDI/VDE-IT

Roadmapping Process

A systemic roadmapping process to implement Open Science in transport research has been initialized through the BE OPEN project.

Link to EOSC SRIA

The roadmap to promote Open Science in transport research is aligned with the strategy of the European Open Science Cloud (EOSC).

Stakeholder Map

The community of Open Science in transport research and the wider stakeholder circle are in active exchange to make OSTR the new normal in transport research.

Crucial Developments in the Context of Open Science in transport research (OSTR)

Political Developments

Horizon Europe sets Open Science by default in most call types

Is the transport sector prepared for this?

Crucial Developments in the Context of Open Science in transport research (OSTR)

Political Developments

European initiatives support the establishment of communities, infrastructure & governances models for OSTR

EUROPEAN OPEN SCIENCE CLOUD

BE OPEN

OpenAIRE

…

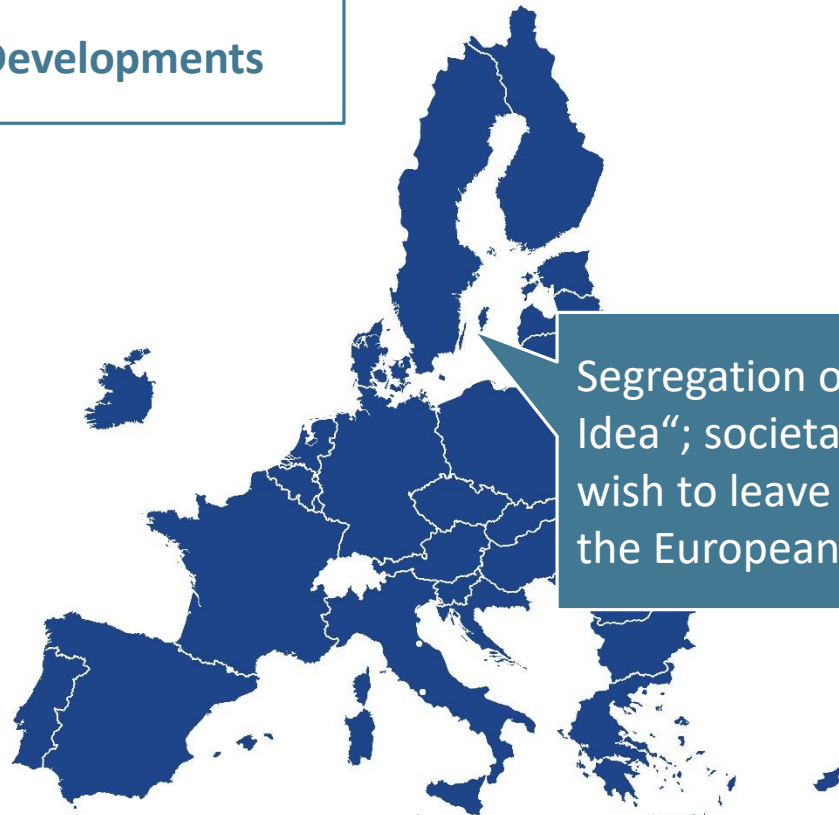# Crucial Developments in the Context of Open Science in transport research (OSTR)

Technological Developments

Big data from new sources (sensors, platforms, …) can lead to insights to better plan new solutions and infrastructure.

Joint infrastructures are built up to share research data to solve complex issues such as automated driving (e.g. GAIA-X)

Image: Adobe Stock/ zapp2photo

Crucial Developments in the Context of Open Science in transport research (OSTR)

Socio-ecologic Developments

Segregation of the „European Idea"; societal groups either wish to leave EU or to support the European Union.

How can mobility as part of the„Eurpean Idea" contribute to answer pressing questions of our time (e.g. climate change)?

Image: Adobe Stock/ peter-hermes-furian

Crucial Developments in the Context of Open Science in transport research (OSTR)

Socio-ecologic Developments

More citizens require transparency and participation in decision-making

Demand for seamless, safe, secure, inclusive and sustainable mobility within the planetary boundaries.
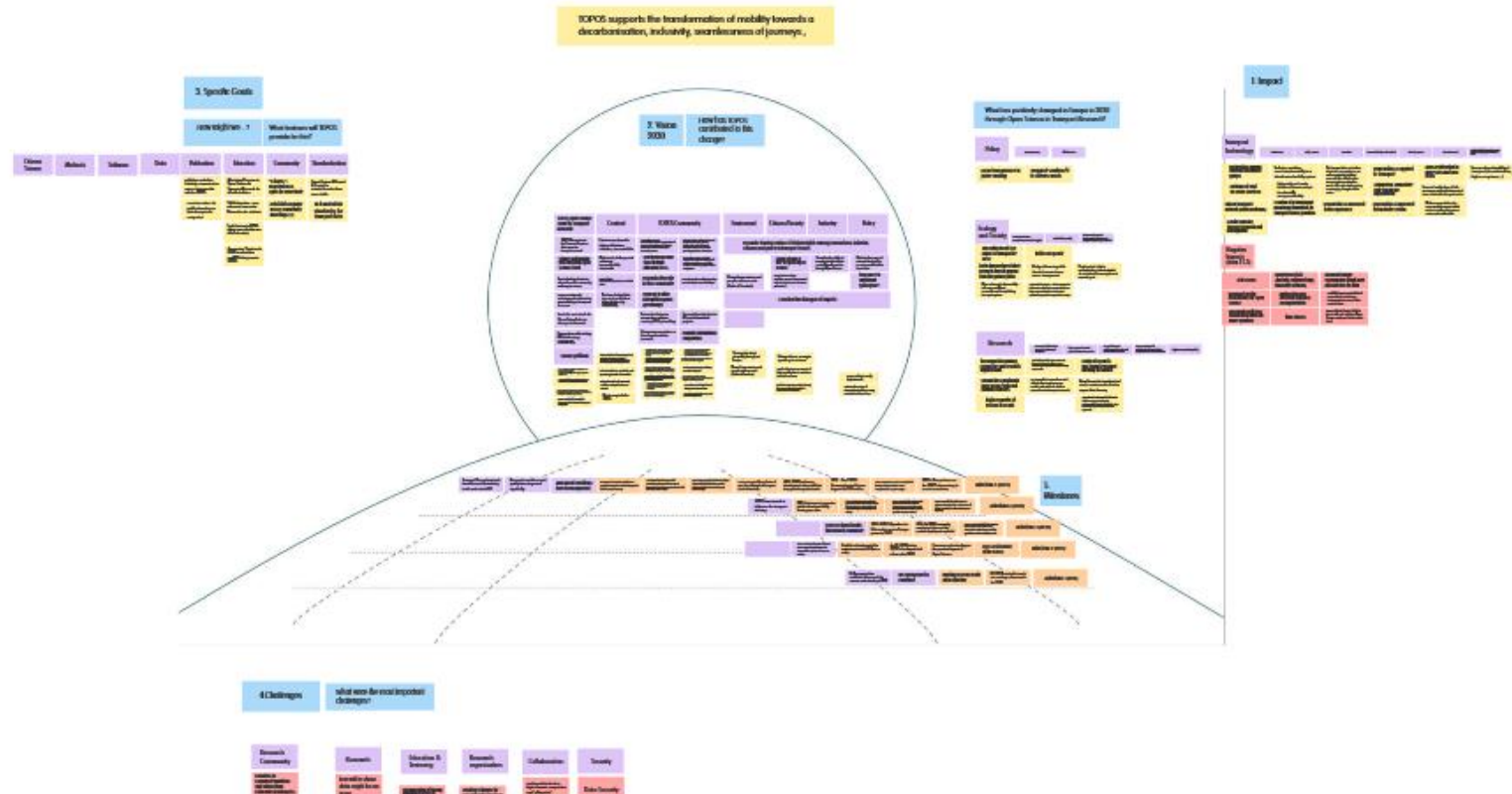
Image: Adobe Stock/ ink drop

Crucial Developments in the Context of Open Science in transport research (OSTR)

Economic Conditions

Slow increase of open innovation

A great part of research results are not open to the public for industrial application purposes

Image: Adobe Stock/StockPhotoPro

Vision 2030 for Open Science in Transport Research

In workshops with representatives of the community of Open Science in transport research possible positive and negative impacts of OSTR were identified to formulate a joint vision for 2030.
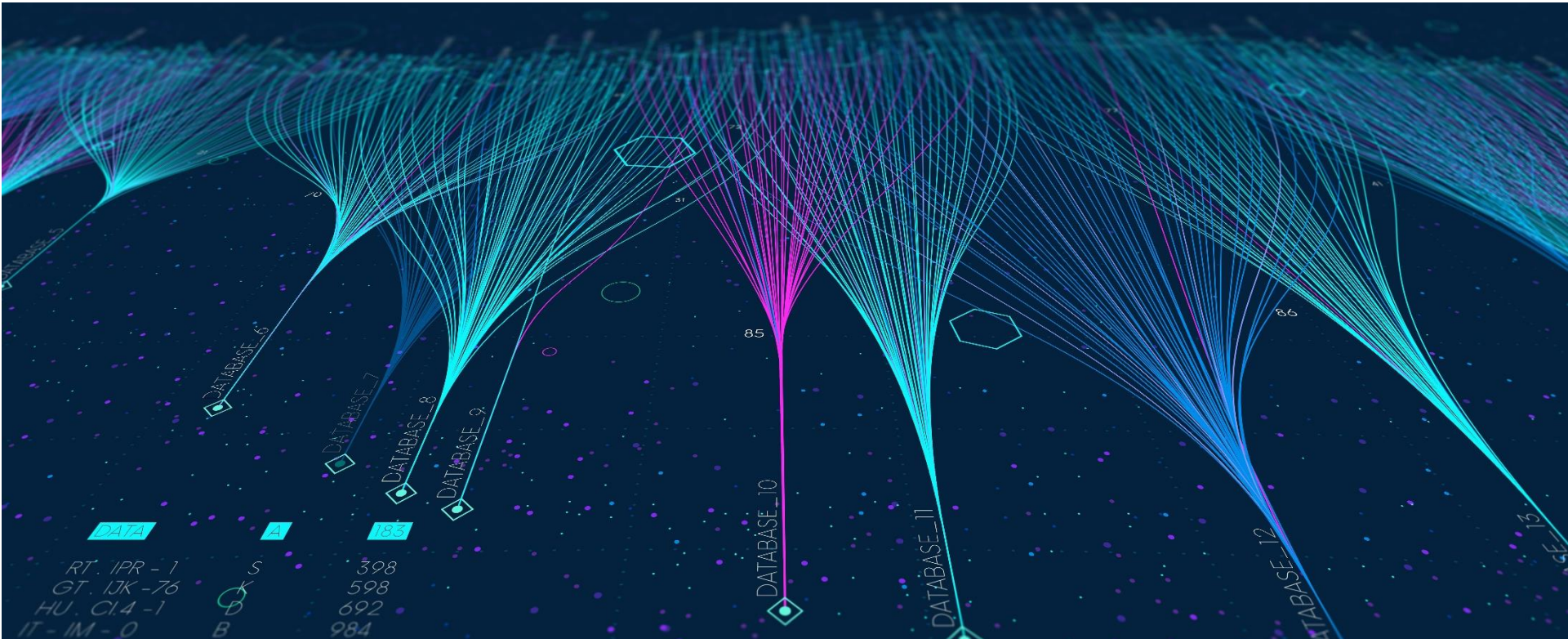
Vision 2030 for Open Science in Transport Research

Transformation of mobility towards safety, security, decarbonisation, openess and inclusivity and seamlessness succeeds due to the willingness of both users and operators to share data and solutions in transparent processes.

Image: Adobe Stock/ dmitrymoi

Vision 2030 for Open Science in Transport Research

Emerging technologies and novel methods provide high-class meta data analytics and new tools supporting Open Science in transport research.

Vision 2030 for Open Science in Transport Research

More effective use of public research budgets and transfer of best practices, e.g. between modes, locations and use cases.

Image: Adobe Stock/markus-mainka

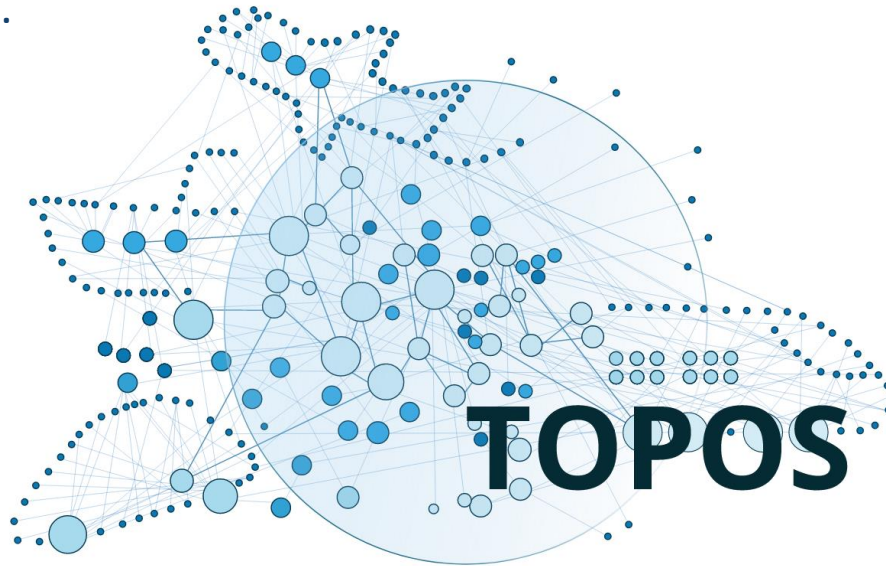# Vision 2030 for Open Science in Transport Research

Increased transparency and involvement of citizens in science and policy decision-making processes to make their voices heard.

Ways forward to realizing Open Science in Transport Research

Develop further the **TOPOS Observatory** to provide the community and stakeholders the Common European Data Space for OSTR with high quality research results.

Embrace a constructive dialogue on trends, challenges and solutions in mobility and OSTR through the **TOPOS Forum** and new exchange formats. **Agree on standards and optimize governance models**.

Key Issue of Open Science in Transport Research

How far can we embrace the culture of sharing data to improve quality of mobility and to connect Europe without risking public security and privacy?

Image: Adobe Stock/hutpaza