TRANSPORT RESEARCH DATA CULTURE & SURVEY HIGHLIGHTS

We ran a survey to identify researcher needs.

Here's what we found.

THE TOP TWO CLOUD SERVICE NEEDS WERE:

Access to transport data

Advanced search options

"If I have to work as hard to find and understand the data set as I would to create my own data, I'd rather create my own data."

Only **5%** shared data openly, **28%** shared under restrictions and **20%** shared on request.

3 CATEGORIES OF DATA FOR THE TRANSPORT RESEARCH CLOUD

Original (raw) research data
e.g. Field Operational Tests and Naturalistic Driving Studies

Operational data related to research
e.g. accident data, transport volumes data

Data evidencing published research

Report and recommendations from the

EXPERT GROUP ON OPEN SCIENCE TRANSPORT RESEARCH CLOUD

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Many thanks to all who responded to the survey and in particular to the European Commission who commissioned and oversaw the work.
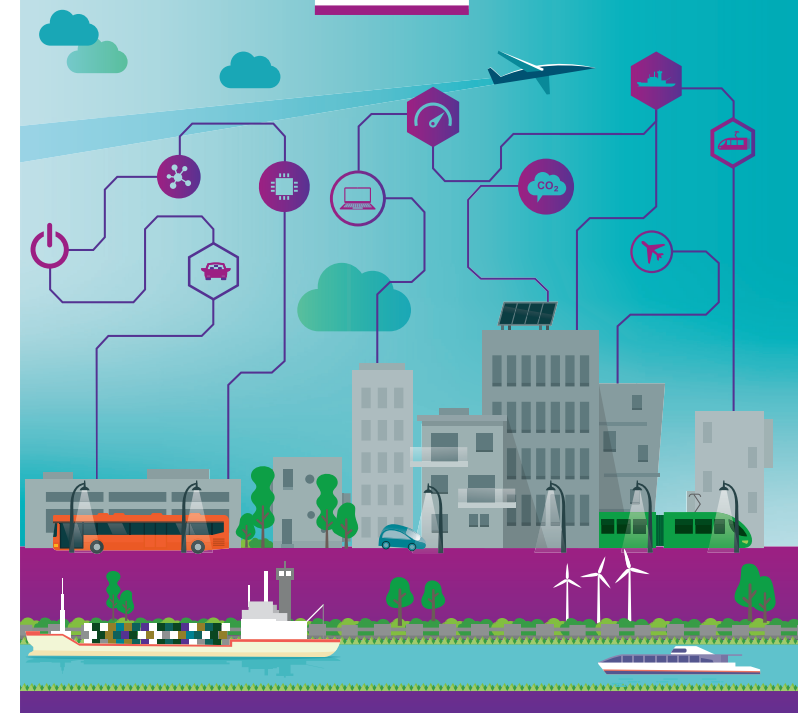
Practical information

FIND OUT MORE AT:
https://ec.europa.eu/research/transport

FULL REPORT AND SURVEY DATA AT:
https://doi.org/10.5281/zenodo.1469661

European Commission

Expert Group on
Transport Research Cloud

Addressing research domain needs in the thematic pillars of European Open Science Cloud

Research and Innovation

MANDATE

The Expert Group was commissioned in order to explore the feasibility and framework conditions for data sharing in transport research.

THE GROUP HAD A REMIT TO:

- Identify the main needs, obstacles and opportunities for data sharing & open science

- Identify the scope and the characteristics of data to be included in a possible Transport Research Cloud

- Identify data mining and analysis requirements and tools

- Identify a common set of cloud-based services

- Assess the relevance of the international dimension of a possible Transport Research Cloud

- Provide recommendations for different options of funding of a possible Transport Research Cloud

RECOMMENDATIONS

AGREE POLICY

- Make data Open and FAIR by default

- Ensure Intellectual Property management doesn't unnecessarily limit data sharing

DEFINE VALUE

- Ensure cloud services generate value

- Develop a sustainable business model

IMPLEMENT

- Define metadata standards for the discovery of transport research data

- Agree data formats and documentation to support understanding and reuse

- Incentivise researchers to share & reuse transport data

- Provide data mining and high-performance analysis tools to work with data at scale

- Offer secure data services for controlled sharing/restricted access

- Provide support and training to assist in culture change

ACTIONS

Bring together the research community and transport operators to co-design and agree data standards for the field.

Build on existing standards / specifications that have been adopted e.g. DCAT-AP.

Fund a Community Support Action to share best practice, build a network of expertise and generate a culture of Open and FAIR data in transport research.*

Develop a Code of Conduct for Transport Research Data that ensures data are shared and reused appropriately, safeguarding individual privacy and commercial interests while maximising the return on investment of public funds.*

* Actions to be funded under the European Commission's Horizon 2020, Smart, Green and Integrated Transport Work Programme 2018-2020.

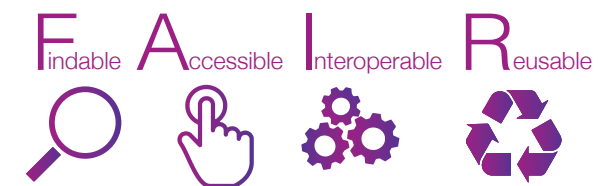**Findable Accessible Interoperable Reusable**

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