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# THE IMPLEMENTATION OF AUTOMATED ROAD TRANSPORT WHAT ARE THE IMPEDING AND PROMOTING FACTORS ON A MULTILEVEL-PERSPECTIVE FOR AUTHORITIES?

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## Short Description

This challenge aims to point out which factors affected the implementation of Automated Road Transport (ART). The vertical multilevel approach (macro, meso, micro) helps the authorities to understand the preconditions on an integrative way. The participants give the results an international view and can discuss the related innovations for ART.

## Main part

Automated road transport (ART) will change spatial development, the transport system and governance structures. Public authorities have to learn how to deal with these new technologies, particularly in their sustainable mobility plans, street design and regional development plans. The EU-INTERREG Project “Automated Road Transport for the North Sea Region (ART-Forum) will create a debating ground for local/regional authorities address risks and opportunities, and help guide policy development with regard to the impact that ART could have on the road transport system. Like the transnational EU-Project, a joint dialog and discussion at the session with transnational participants can better accomplish results than alone. How can stakeholder an authorities deal with the challenges of the automated driving? What are the impediments for the implementation? How can innovations adapt to the society and policy framework? To better understand and categorize the factors that influence innovation adaption on autonomous driving, this challenge presumes a level-based approach, sorting impeding and promoting factors according to vertical macro-meso-micro logics. The macro-level comprises the supreme factors associated with environment and society, the intermediate meso-level lies between the overarching macro conditions and individual agency, covers regional institutions and organizations, and the micro-level or actor level, includes the actions and interactions of users as consumers as well as adopted products or services.

For this challenge session, the participants have to discuss and fill out a 3x2-table on the tablecloth. The promoting und impeding factors must be assigned to each multi-level (macro, meso, micro). The first group concentrates on that task. The following groups can add missing factors and formulate recommendations and solutions for the elimination of the impeding factors.

## What is new?

There is a significant need to raise awareness and build knowledge among policy makers and public stakeholders about the potential impact of ART on the transport system, spatial relationships and policies. The multilevel-approach is characterised by a vertical view and is pointing out which objectives and barriers are crucial for the implementation of Automated Road Transport.

## What is transferable to other cities and regions?

Because the technological development of ART is fast and new, the cities and regions in Europe are handling with similar requirements, challenges and barriers according to the implementation of that new mobility innovation. The factors are building a basis for following discussions and activities. The related level of acting makes the strategies for implement ART much easier.

**What are outcomes and conclusions?**

The gap between technological developments in the area of ART and the needs of cities and regions needs to be bridged: 1) so that local stakeholders understand the potential and risks of impacts of these technologies and 2) so that developers can understand the needs of the communities in which their technologies will be deployed.

**Who are the main target groups?**

Local, public and regional authorities, Municipalities, Urban and transport planners, policy makers and consultants.

**Link to the project**

[northsearegion.eu/art-forum/](http://northsearegion.eu/art-forum/)