

Call for Expressions of Interest

Use cases to be tested and studies to be proposed on the Franco-German-Luxemburgish Cross-border Digital Test Bed

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Deadline: first wave 02/07/2018, second wave: 15/09/2018

This call for expressions of interest is intended to collect interest from local authorities, companies and academia, located in France (FR), Germany (DE) or Luxemburg (LUX), to experiment and evaluate vehicle connectivity and automation use cases on the large crossborder area between France, Germany and Luxemburg.

Based on the responses, the ministries, in the three countries, in charge on managing the FR-DE-LUX trilateral cooperation, will be able to estimated and prioritize their efforts, including, if relevant, financial support, to domains (e.g. use cases, evaluation items, zones) according to the interest and willingness from stakeholders to propose tests and studies.

The overall objective of the DE-FR-LUX cooperation is to test innovative technologies linked to automated and connected driving through experiments which results will allow accumulation and share of lessons learned between stakeholders from the three countries.

About the 'Cross-border Test Bed'

On September 29th, 2016, the Governments of Germany and France launched the "Franco-German Initiative on Electric and Digital Mobility". The objective of the initiative is to enhance cooperation between the two countries in order to progress innovations in the spheres of electric mobility and automated and connected driving. By launching this initiative, the two countries affirmed their joint commitment to a sustainable European transport policy that is fit for the future.

In the field of automated and connected driving, the Franco-German initiative provides for cooperation on the following points:

- Assessment of challenges of the use of automated and connected vehicles, with a focus on safety and traffic management impacts, as well as interactions with the infrastructure and other vehicles or road users;
- Assessment of medium-term impacts of automated and connected driving on mobility and the environment;
- Identification of the need for joint experimental or pilot projects;
- Exchange of experiences regarding driving skills and training needs.

On 14 September 2017, Luxembourg joined the cooperation, and additional objectives were added to the trilateral cooperation:

- support the development of innovating and tailored mobility services, for example towards rural zones;

- aim at developing a joint large scale pilot project in the cross-border regions;
- pay a particular attention to acceptability and ethical issues;
- support common and proactive initiatives in European and international institutions.

This cooperation resulted in producing a concept document that aims to express public authorities' (both national / federal / regional / local) objectives, view points and expectations on use cases and evaluation issues to be addressed on the test bed. This document has incorporated feedback from the industry and academia expressed at a tri-national seminar held in Paris on January 29th, 2018.

Expected focus of the tests and studies

Proposed use cases or thematic studies are expected to be related to the following key thematic areas (for which a more precise description is provided in the detailed concept document of the FR-DE-LUX digital test bed).

- Connected and automated vehicles use cases involving cross-border shuttle services, driving environments on highways (such as toll areas crossing) or on network adjacent to highways
- Demonstration of the cross-border continuity of perception functionalities ensuring interoperability in the three different countries.
- Local surveys on acceptance and studies on impact of automated and connected driving
- Studies on data access and use, namely on new business models, data property, privacy, juridical aspects, governance or user acceptance.

Expected content of the interest expression

The interest expression (the « proposal ») is expected to present:

- a functional description of the foreseen use cases or thematic purpose of the study
- location, perimeter of the experiment or study (or various options for this location)
- stakeholders involved
- proposed actions including:
 - environment description and analysis;
 - groundwork for the methodological and operational conditions;
 - experiment implementation description;
 - experiment and acceptance assessment;
 - transferability study;
 - project management;
 - communication;
- main evaluation results foreseen for example:
 - demand analysis;
 - safety analysis (including road network safety and relevance analysis);
 - business models and costs;
 - behaviour analysis (incl. driving & mobility behaviour, perception, acceptance);
 - governance issues and regulation analysis

An estimate of the total cost of the proposal would be appreciated, though not mandatory at this stage.

Submission of applications

Applicants will find all relevant documents for the submission of their response at the following points of contacts:

Points of Contact

The Single Point of Contact in Germany will be:

Communication and Coordination Platform for Automated Driving (KOAF) at the Federal Ministry of Transport and Digital Infrastructure

E-Mail: koaf@bmvi.bund.de

Tel.: +49 30 18300 -6247 / -6248

The Single Point of Contact in France will be:

DGITM/SAGS/EP at the Ministry for an Ecological and Solidary Transition (MTES)

E-Mail: site-transfrontiere-automatisation@developpement-durable.gouv.fr

Tel.: +33 1 40 81 87 37 or +33 1 40 81 11 18

The Single Point of Contact in Luxemburg will be:

Ministry of Sustainable Development and Infrastructure (MDDI) & Ministry of the Economy (MECO)

E-Mail: crossborder@testbed.lu

Tel. MDDI: +352 247-84947 / -84958 ; Tel. MECO: +352 247-88435 / -88413

Applications must be submitted in accordance with the formal requirements and within the given deadline.

The applications must be submitted electronically via the points of contact mentioned above.

Deadline for the submission of interest:

The first set of submission is expected on **02/07/2018**. A second wave of submission is possible until **15/09/2018**.