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Preliminary market consultation and contextual non-binding request for offer (organization of a demonstrative session of an automated driving shuttle)

Project and CUP: D39G18000040002- MENTOR – INTERREG ITALY-SWITZERLAND

Dear service provider,

NOI SpA intends to initiate a preliminary market consultation pursuant to art. 20 of LP no. 16/2015 and art. 40 of Directive 2014/24/EC for the execution of a demonstrative session of an automated driving shuttle in the scope of the aforementioned project and as described in more detail in the Annex.

NOI SpA invites all interested economic operators to participate by filling in an expression of interest, **in the form of a non-binding quote/offer**, in relation to the products and requirements described in the Annex.

Where applicable, NOI SpA **reserves the right of a direct award of the contract pursuant to article 36, para. 2, letter a) of D.Lgs. 50/2016.**

DEADLINE FOR THE DELIVERY OF THE OFFER (17.05.2019):
The offer is to be sent exclusively by e-mail to r.cavaliere@noi.bz.it

Best regards
Roberto Cavaliere

ANNEX: Details of the preliminary market consultation

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1. The MENTOR project

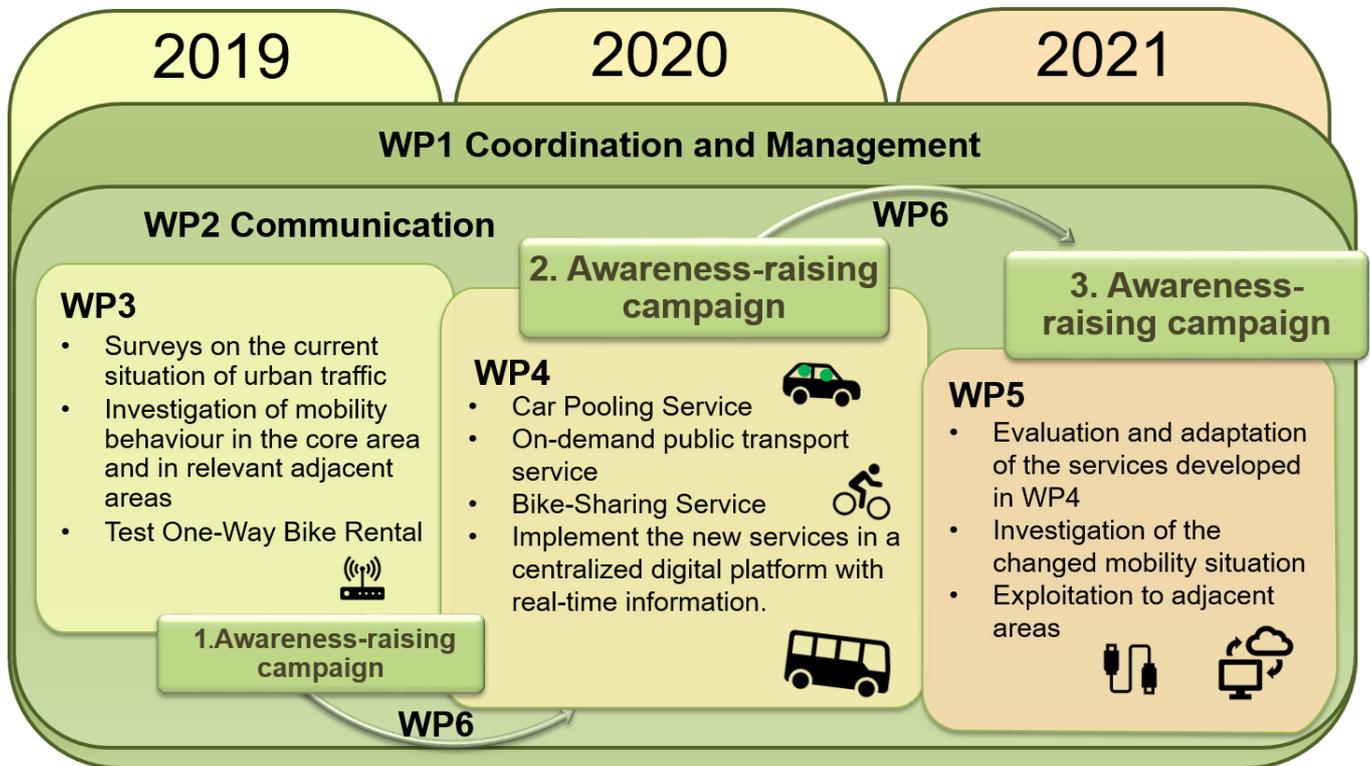
The MENTOR project is a project financed by the **Interreg-V-A Italy-Switzerland** programme, coordinated by the Municipality of Merano and implemented in collaboration with **NOI Techpark**, **SASA**, the **Municipality of Brig-Glis** in the Canton of Valais and **Postauto**.

The aim of the project is to demonstrate a concept of "**Mobility-as-a-Service**" (MaaS) in the two pilot municipalities, which are representative of the Alpine environment. MaaS is currently one of the main drivers of technological innovation in mobility and is based on the idea of being able to combat the use of the private car with integrated packages of sustainable mobility services, which the user can easily use, book and pay.

The demonstration will be carried out on three axes of intervention:

- **Experimentation of new mobility services**, designed to be integrated with the public transport offer, which in the vision of the project partners must be the backbone of a MaaS ecosystem. Specifically, following services will be tested:
 - **Merano**: car pooling service, bike sharing service, on-demand service
 - **Brig-Glis**: on-demand transport service
- **Experimentation of MaaS tools, aimed at making access to these services as simple as possible**:
 - **Merano**: evolution of the experimental portal mobility.meran.eu. In particular, a real-time inter-modal routing function will be developed, so that people can have a valid travel option for each possible travel from A to B.
 - **Brig-Glis**: an evolution of the MaaS app that Postauto is already implementing will be tested.
- **Demonstration of automated mobility services**, aimed at creating a high acceptance by local travellers to use this new generation of vehicles. In particular, a first demonstration of small self-driving shuttles on predefined, traffic-free routes in Merano and Brig-Glis is planned for September 2019.

The project started in December 2019 with an expected duration of 3 years. An overview of the project activities is summarized in the following picture.



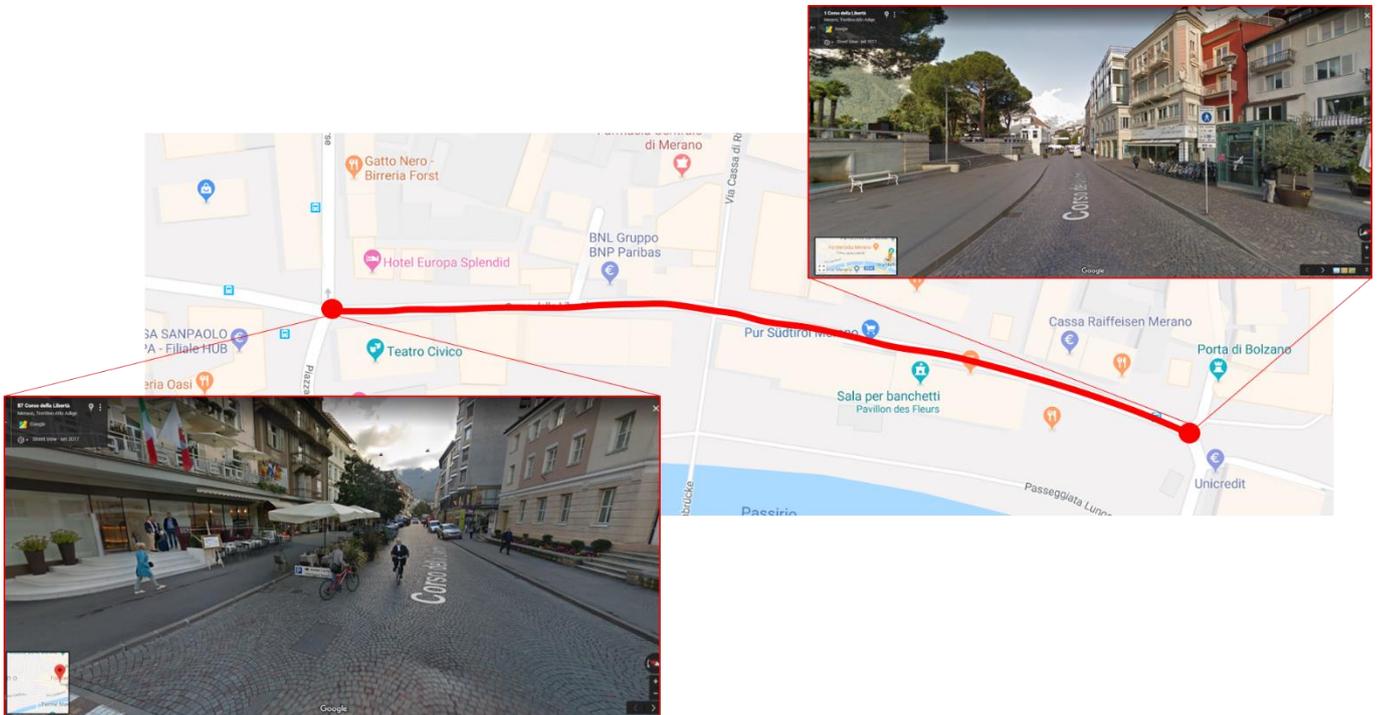
2. Demonstration of automated driving shuttle

The purpose of the market consultation is to find a suitable service provider that is able to organize the aforementioned demonstration of one or more automated driving shuttles in the city of **Merano**.

The demonstration will take place during the **European Mobility Week** (16-22.09) within the **Corso della Libertà / Freiheitstrasse** (see figure below). The length of the proposed route is about 400 meters. The vehicle must be able to rotate at the end of the stretch so to begin the travel of the route in the opposite direction.

The street will be closed to motorized traffic for the occasion, and all necessary safety measures will be implemented by the Municipality of Merano. It is however foreseen the possibility for people to drive on the shuttle. Pedestrians and bicycles could be allowed to travel along the demonstration route, in order to demonstrate the safety capabilities of the automated shuttle; it could be however decided to restrict the transit also to these transport modes.

The exact definition of the route will be defined together with the service provider during the implementation phase. It is possible that the Municipality of Merano can decide to organize such demonstration activities partially or totally on an another equivalent test route during the demonstration period. All these possible scenarios will be investigated together with the chosen supplier, which will be selected according to the technical and economical estimation related to this reference route. Additional costs could be covered by an integration of the contract.



The vehicle to be used for the demonstration should be a shuttle capable to transport 12 passengers at maximum. The shuttle should have been already used in previous similar demonstration or test activities. The service provider describes in detail in its offer the technical peculiarities of the proposed shuttle and the amount and location of driving tests that have been already carried out with the vehicle, highlighting eventual positive / negative aspects that have been encountered (e.g. accidents, etc.).

The request is to be intended as the simple execution of such demonstration session as a service, e.g. by renting one (or more) suitable shuttles for the duration of the activity. In the scope of this market consultation it is excluded the possibility to purchase such vehicles.

3. List of requested services

In light of what aforementioned described, the following services are required:

- **Preparation:** installation / uninstallation of equipment (e.g. GNSS base station), path mapping, transport and delivery of the shuttle, etc. In order to properly prepare the demonstration, the service provider is also requested to participate to at least two meetings in Merano with the local authorities in charge of the authorization processes.
- **Demonstration execution:** supervision of automated shuttles' operations including the presence of an operator on-board for the whole period of the demonstration, presentation to public about shuttles' technical features during the whole demonstration period. The duration of the demonstration will be at maximum 7 days, starting on Monday, September 16th and ending on Sunday, September 22nd. The reference opening of the demonstration will be 9:30 – 12:30 and 14:00 – 17:00. It is possible to foresee a different period for this demonstration, according to the time availability of the service provider which needs to be clearly indicated in the offer.

- **Final reporting:** preparation and delivery of a final report, describing in detail the outcome of the demonstration service. The report must at least include a detailed quantification of the transported passengers and a detailed description of eventual events / malfunctioning that have taken place. The service provider describes how transported passengers will be counted during the demonstration, i.e. automatically or manually.

The service provider describes in its offer a technical concept on how it is proposed to carry the following activities and what is explicitly requested to the project partners for the proper organization of such demonstration.

4. Conditions and obligations

The safe operation of the automated driving shuttles is under the complete responsibility of the service provider.

The service provider accepts to work in deep cooperation with NOI Techpark and the other project partners in order to define and co-implement all necessary safety measures which are needed, in full compliance with the laws in force. In its offer the bidder provides a concept on how responsibilities are typically distributed among all the involved organizations for such demonstrations and how they could be applied for this specific request.

The service provider must include in its offer all service fees, including e.g. insurance or other relevant services.

The service provider must ensure that the automated shuttle can properly provide the demonstration service for at least the 90% of the entire time of the demonstration. In case of total service availability below this threshold, the following penalty will be applied:

$$\text{Penalty} = (\text{Target service availability} - \text{Actual service availability}) * \text{contract amount}$$

Example:

- Target service availability: 90%
- Actual service availability: 80%
- Target service availability – Actual service availability = 10%
- Contract amount: 40.000 €
- Penalty: 10%*40.000 € = 4.000 €

The penalty will be applied in the payment of the (final) invoice.

5. Timing of implementation

The service provider provides a detailed proposal of timing of implementation of the aforementioned services, in particular for the preparation of the demonstrative session.

6. Contents of the offer

An economic offer is required for the requested services. A list of references relevant to the activities required in this market consultation shall also be provided, e.g. similar traffic-free demonstrations, test sites in real-traffic conditions, test of new

mobility services, etc. Additional information which is deemed to be relevant for the execution of such demonstrative sessions shall also be included. The price for the execution of the demonstrative sessions shall be given on a daily basis, so to give the possibility to evaluate the costs for a smaller / longer demonstrative period. Finally, please indicate any collaboration with other companies and the presence of any subcontracts. The offer in its entirety must not exceed 15 pages of documentation.

7. Invoicing procedures

All billing details will be indicated in the order. NOI Techpark is subject to the system of electronic invoicing with split payments. A unique invoice is foreseen, at conclusion of the requested services. An initial invoice can also be foreseen if explicitly requested by the service provider.