Call for applications for Short Term Scientific Missions

Short Term Scientific Missions (STSM) are funded as part of the COST Action CA16222 **Wider Impacts and Scenario Evaluation of Autonomous and Connected Transport (WISE-ACT)**. This is a research network funded by COST European Cooperation in Science and Technology. The Action aims to build a European network of experienced scholars, young researchers and industry representatives working on the transition to autonomous and connected transport.

Short-Term Scientific Missions (STSM) allow scientists to conduct short research and study visits to a research institution or laboratory in another COST Country in order to strengthen the existing networks and to foster collaboration, to learn a new technique or to use instruments, data and/or methods not available in their own institution and to contribute to the scientific objectives of the Action.

The COST Action CA16222 has five working groups. STSMs are considered a great opportunity for participants to focus their work on research interests that have been highlighted by WGs or introduce new ones in light of the COST Action objectives (for details visit http://www.wise-act.eu/about/objectives). In this Call, the Action wishes to focus on a number of tasks as outlined in the MoU and WBP3. Applicants may focus on the proposed topics to fulfil Action tasks and objectives. Note that this does not exclude other topics, which might also be funded through this or other Calls in the course of this Action.

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1. STSM Topic: *Finalise the Glossary of AV related terms*

Description: *The STSM is linked with MoU: RO1 and aims at contributing in the development of a common ACT terminology across Europe. The successful candidate will complete and finalise the Action Glossary, building on outputs of the two previous stages. The output should be a list of >50 ACT related terms to be published online, including their definition, related terms and source. It should also be translated in at least one more language other than English. Following the STSM final report, selected parts of the STSM output will be included on the Action website.*

Potential Hosts: *Torino (IT), Udine (IT), London (UK)*

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2. STSM Topic: *Provide evidence to contribute in understanding the Value of Travel Time in an ACT scenario*

Description: *The STSM is linked with MoU: WG2/T4 and aims at contributing in providing concrete evidence relating to the use and valuation of travel time during at least one specific Autonomous and Connected Transport Scenario. Starting with a systematic literature review, the successful candidate will review at least 25 contemporary studies and projects (e.g. MoTiV) to generate a database of relevant VoTT estimates, categorised by the different scenarios used to estimate VoTT. Outputs will include: i) the VoTT studies/projects database ii) a report summarising VoTT estimates based on the systematic review. The successful candidate will be invited to submit outputs to one of the upcoming Action Special Issues.*

Potential Hosts: *Zilina (SK)*

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3.   STSM Topic: ***Enhancing the visualisation of ACT deployment***

Description: *The STSM is linked with MoU: RO2/RO4 and aims at improving existing and developing new visualisation approaches regarding ACT deployment. Appropriate visualisation formats from diverse disciplines will be reviewed and appropriate samples generated based on existing ACT information based on input by existing Action outputs or other ACT projects. The outputs of this STSM will include images, maps and other visualisation recommendations linked with ACT deployment, which will be used as input for the Action Whitepaper.*

Potential Host: *London (UK)*

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4.   STSM Topic: ***Developing ACT deployment scenarios linking individual driving with network efficiency***

Description: *The STSM is linked with MoU: RO3 and aims at developing at least three complex ACT scenarios incorporating individual vehicle behaviour within urban traffic and evaluating them through transport simulation software (e.g. SUMO, AIMSUN). By defining and comparing simulation results in different settings i.e. large and small cities, it will contribute in progressing from corridor based to network based planning. The outputs of this STSM will include the specification of at least three complex ACT scenarios, as well as identifying the relationship between automated driving style and network efficiency for automated transport. The successful STSM applicant will be invited to submit outputs of the full STSM report to one of the Action 2020 Special Issues.*

Potential Host: *Ljubljana (SI)*

Those interested in submitting an application should consult the CA16222 STSM Guidelines attached to this Call for details about eligibility, grants, criteria for evaluation of applications/proposals and how to apply.

Grant Period: This Call covers the grant period 1st May 2019 – 31st March 2020 and any STSM should be completed during this period. This Call will fund STSMs up to a total value of EUR 2500, subject to any adjustments according to the relevant COST guidelines.

Deadline: Applications should be received by e-mail until **1st December 2019**. Decisions will be announced by 3rd December 2019.

Contacts:
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Additional information about the COST Action CA16222: http://www.cost.eu/COST_Actions/ca/CA16222

Additional information available in the COST Vademecum http://www.cost.eu/Vademecum