

ECo-AT is supporting the 5th ETSI Plugtest for Co-Operative Services in Livorno (ITA)

In an effort to support ITS deployment and validate the ETSI ITS Release 1 standards, ETSI, has organized a 5th Cooperative Mobility Services Plugtest in Livorno (ITA) from 9-18 November 2016, focusing on Co-operative Mobile Systems standards from ETSI, CEN and ISO and to test the interoperability of ITS equipment from all key vendors.

ECo-AT and its industry partners have been heavily involved in the preparation and execution of the Plugtest and thus have had a major impact on the selection and characteristics of use cases as well as the architecture and interfaces under test.

The Plugtest consists of ten use cases, which are demonstrated in the port of Livorno and the nearby expressway SGC Firenze-Pisa-Livorno. Six of these use cases correspond directly to similar use cases from the ECo-AT project and at least two of them (UC5, UC9) were added after successful specification and tests in ECo-AT.

ETSI Plugtest Use Case	Corresponding ECo-AT Use Case
UC1 Road Works Warning	ECo-AT Roadworks Warning
UC2 Distribution of Road Hazard Signals	ECo-AT Other DENM Applications
UC3 Time To Green / Traffic Sign Violation	ECo-AT Intersection Safety
UC4 Vehicle Data Aggregation	ECo-AT CAM Aggregation
UC5 In-Vehicle Signage	ECo-AT In-Vehicle Signage
UC6 Intersection Collision Risk Warning	
UC7 Longitudinal Collision Risk Warning	
UC8 Loading zone management	
UC9 Protected Zones	ECo-AT Coexistence
UC10 Authorization Tickets Reloading	

As a consequence ITS infrastructure vendors have the opportunity to directly deploy RSUs in the Port and along the expressway and test these use cases. ECo-AT industry partners

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IMPRESSUM:

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KAPSCH, SIEMENS and SWARCO have decided to be part and test their ECo-AT developed Roadside ITS Stations for interoperability on-site during the Plugtest.

However, ECo-AT use cases and RSUs are not the limit of ECo-AT's involvement in the Plugtest: the RSUs deployed in Livorno by KAPSCH, SIEMENS and SWARCO are directly connect to the ECo-AT C-ITS system in Vienna and get all necessary data for providing UC1 and UC4 in Livorno from the ECo-AT systems in Vienna. They are demonstrating and thus validating the complete ECo-AT communication chain for these use cases.

Furthermore, local Plugtest supporters Autostrade Tech and AVR are providing an ECo-AT-based interface for UC1 on site, additional to their native interfaces for Plugtest support. The additional interface is fully compliant to the ECo-AT system architecture

This wide range adoption of ECo-AT use cases and architecture principles is a very promising sign that ECo-AT is well on the right path towards deployment of first generation ITS services. Being part in a Plugtest in such a manner will ensure interoperability of the ECo-AT system concept.

Marko Jandrisits,
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Project Summary

Acronym: ECo-AT
Title: European Corridor – Austrian Testbed for Cooperative Systems
Programme: Klima- und Energiefonds: Jahresprogramm 2012, Programmlinie Verkehr, Programm „Innovation für grüne und effiziente Mobilität – Umsetzungsmaßnahmen im Rahmen des nationalen Aktionsplans für Intelligente Verkehrssysteme (IVS)“
Duration: 01/2013 – 04/2017 (52 Monate)
Topic: Intelligent Traffic Systems – Cooperative ITS
Budget: 11.800.000.- Euro
Funding: 5.000.000.- Euro
Website: www.eco-at.info
Partner: Autobahnen- und Schnellstraßen-Finanzierungs-Aktiengesellschaft vertreten durch ASFINAG Maut Service GmbH (Projektleitung), KAPSCH TrafficCom AG, SWARCO Aktiengesellschaft, Siemens AG Österreich, Vereinigung High Tech Marketing, Volvo Technology AB, FTW Forschungszentrum Telekommunikation Wien GmbH, Bundesanstalt für Straßenwesen, ITS Vienna Region / Verkehrsverbund Ost-Region (VOR) GmbH

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