

Cross-border harmonisation, end-user services and urban installations

Introduction

X4ITS entered its third project year with a clear focus on innovation and impact. This year's fact sheet highlights the project's progress in **developing end-user services, expanding C-ITS installations, and the establishment of a Memorandum of Understanding (MoU) on Traffic Management Plans (TMPs)**. These advancements mark a significant step towards enhancing mobility, efficiency, and collaboration across Europe's transport networks.

C-ITS connecting highways and urban areas

The third technical workshop, which took place in Ljubljana, Slovenia, focussed on C-ITS, connecting highways and urban areas. Deployments across Europe on regional and city levels were presented as well as technical frameworks of brokers and nodes. Discussions during the workshop included the question, why cities and municipalities should facilitate C-ITS instead of other technologies.

The Ministry of Transport (CZ) presented the status of C-ITS implementations in Czech Republic. Challenges regarding implementations differ for municipalities and road operators. The national C-ITS strategy (2025-2031) aims to offer strategic support to municipalities, road and public transport operators.

The Ministry of Infrastructure (SI) showcased the national centre C-ITS node in Slovenia and near-future C-ITS environment and architecture. The goal is to offer services to providers and harmonise C-ITS on national and international level.

AustriaTech presented the current status of their C-ITS broker in Austria, which is one of only two active brokers nationwide, enabling long-range C-ITS message publishing for Austria's cities and provinces.

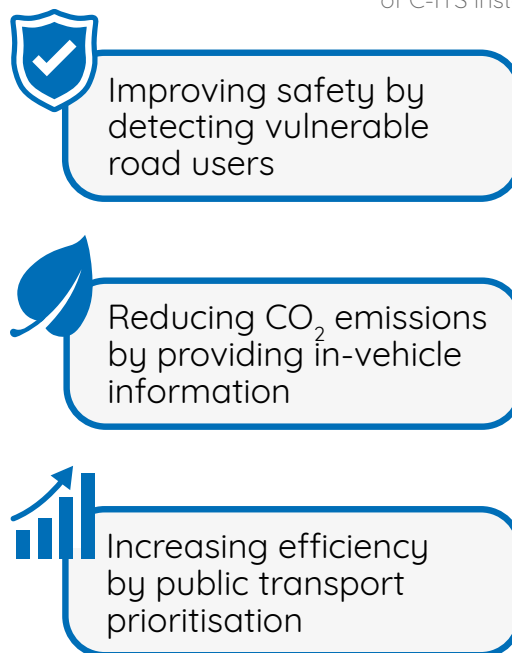
Key findings of the third workshop

Facilitating C-ITS in cities/municipalities enables:

- ✓ Increased safety when entering/exiting highways, crossings with railroads
- ✓ Improvement of traffic management & communication standards
- ✓ Safe, future-proof investment, pushing green goals & increasing quality of life

Objectives of C-ITS installations in urban areas

Figure 1: Objectives of C-ITS installations



On-Board Unit (OBU) and Roadside Unit (RSU) installations are taking place in the cities of Linz, Klagenfurt, Vienna, Budapest and Ljubljana to increase public transport efficiency and emergency vehicle prioritisation. The number of planned implementations can be seen in figure 2.

Key figures

currently implemented / total planned



Roadside Units
32 / 137



On-Board Units
13 / 97



Variable Message Signs
6 / 273



CCTV cameras
28 / 630



Km TEN-T with roadside data collection
505 / 1073



Km secondary roads with roadside data collection
15 / 665

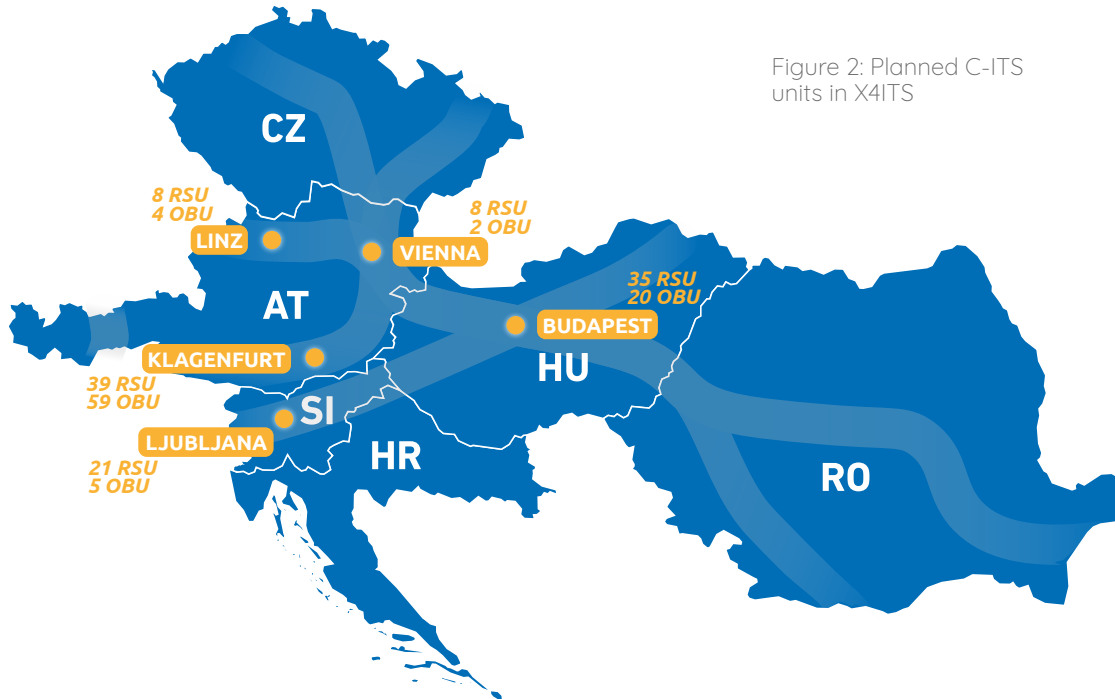


Multimodal nodes with digital infrastructure
13 / 25



Km secondary road with digital infrastructure
3 / 60

Figure 2: Planned C-ITS units in X4ITS



Cross border harmonisation of end-user services

The fourth technical workshop in Klagenfurt, Austria focused on the RTTI landscape around Europe with examples of project partners from Austria, Slovenia and Croatia as well as the prioritisation of public transport and emergency vehicles in Klagenfurt.

Several partners, especially road authorities, are implementing services for end-users. **The Delegated Regulation on the provision of real-time traffic information services (RTTI)** aims at fostering collaboration and innovation in the European transport sector. The provision of up-to-date traffic data is a central foundation for efficient and sustainable traffic management and improved road safety.

The Austrian road operator ASFINAG is developing updates for its web and smartphone apps, including information regarding construction sites and road corridors. These updates are designed to improve navigation and multimodal route planning for end-users, as well as travel time forecasts and the toll shop as part of ASFINAG's 2026 roadmap.

The Slovenian road operator DARS is also upgrading their Promet+ website and application. This is an important tool for providing harmonised real-time traffic information services to road users. A new update also enables users to receive traffic information via AndroidAuto.

The Croatian road operator MMPI/HC is using an open service protocol, which provides improved and more structured processes for digital traffic information for end-users and operators, compared to less uniform and heterogenous inputs before. This feature includes event detection, reporting, data entries including validation, processing and dissemination of information to the public.

Key findings of the fourth workshop

- ✓ Most users rely on commercial navigation platforms (Apple Maps, Google Maps, TomTom ...) and do not consider information from road authorities
- ✓ Insufficient incorporation of up-to-date information by commercial navigation platforms
- ✓ Outcome: Encourage service providers to use most current data