

# 4D compass webinar

## *ITS Living Labs in Europe: state of play & outlook to the future*

16 December 2016, 10:00 – 11:30 CET



# Agenda

## Introduction

- **Giacomo Somma**, ERTICO (BE)

## Presentations

- *From pilot projects to large scale C-ITS deployment in Bordeaux and New Aquitaine region*, **Jean-Philippe Méchin**, CEREMA (FR)
- *The Austrian ITS Living Lab and the C-Roads Platform on harmonised C-ITS deployments*, **Alexander Frötscher**, AustriaTech (AT)
- *Dutch testbed cooperative and automated driving*, **Peter Colon**, Brabant ITS Agency (NL)
- *Finnish Traffic lab and C-ITS deployment*, **Ilkka Kotilainen**, FTA (FI)
- *The Living Lab Bus*, **Juho Kostinen**, VTT (FI)
- *Smart City living lab in Catalonia*, **Marcos Pillado**, IDIADA (ES)

## Question & Answers

- *Your questions*, **Anyone from the audience** 😊

## Closing

- **Giacomo Somma**, ERTICO





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# Introduction

# Compass4D achievements 2013-2015



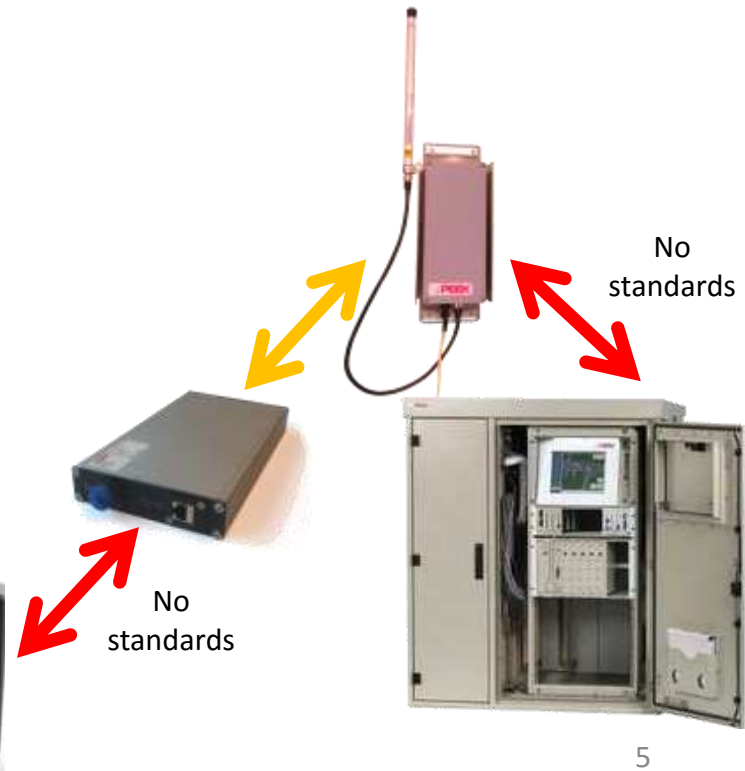
- **Objective:**
  - Pilot 3 C-ITS services in 7 cities for road users to increase energy efficiency and road safety
- **C-ITS services:**
  - Energy Efficient Intersection Service (EEIS)
  - Road Hazard Warning (RHW)
  - Red Light Violation Warning (RLVW)
- **Vehicles & Infrastructure:**
  - Vehicles: 650+ (Heavy, Light & Emergency vehicles)
  - Road-side units: 130+ (ITS-G5) + 150+ (3G/LTE)
  - On-board units: 270+ (ITS-G5) + 450+ (3G/LTE)
  - Drivers: 1200+
- **After-project life:**
  - Move from pilot to large-scale deployment for sustainable market roll-out
  - 50 public & private stakeholders



# Compass4D challenges 2016 – ...



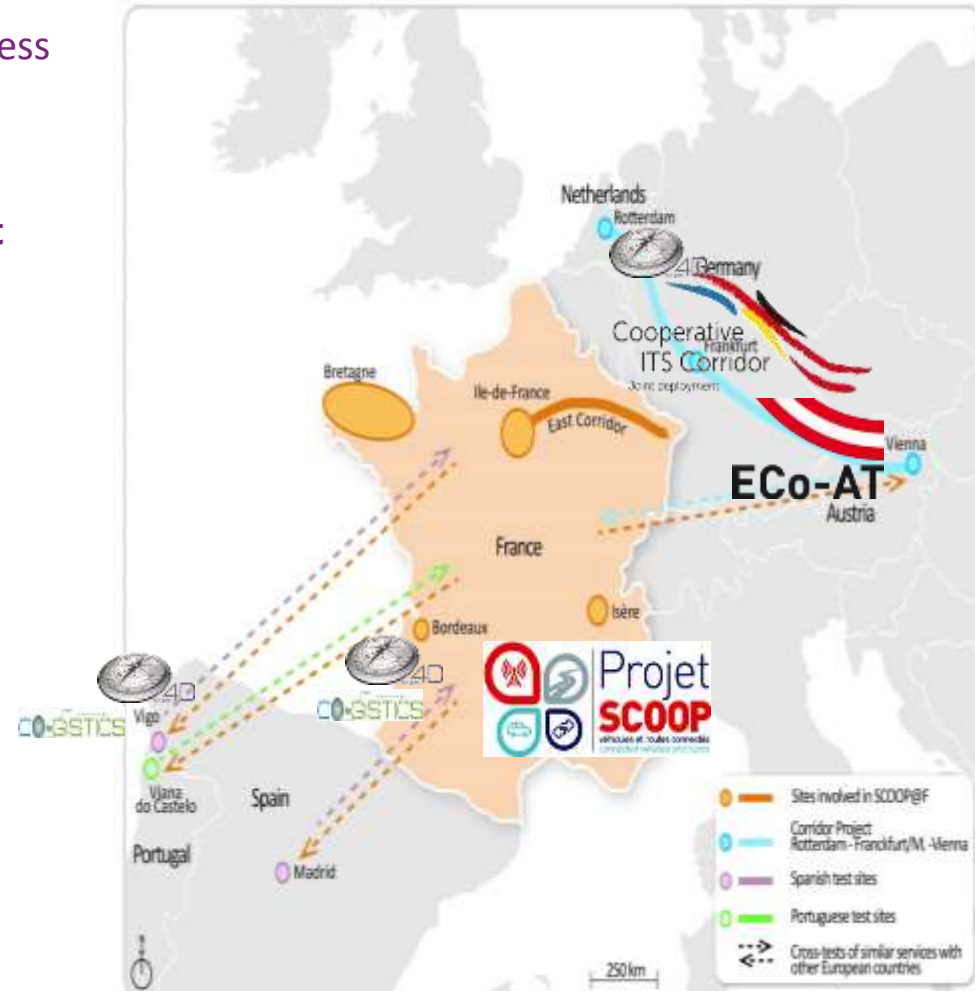
- **Traffic Management procedures and systems have not been created with C-ITS in mind:**
  - TMC ↔ RSU
- **Lack of experiences with C-ITS from local providers:**
  - Installation work → OBU / RSU configuration → Programming → Maintenance / Upgrade
- **Standards:**
  - No backward compatibility between OBU / RSU
  - No standards between TLC / RSU
  - No standards between OBU / HMI
- **Technology evolution:**



# Compass4D challenges 2016 – ...



- **Testing / improvement of interoperability, conformity and performance of Compass4D C-ITS solutions**
  - Common pan-EU testing & validation process
  - Learning by doing approach
- **Exchange of knowledge, experiences and best practices based on real-life cooperative mobility solutions and their costs / benefits**
  - Network of European living labs





# Presentations

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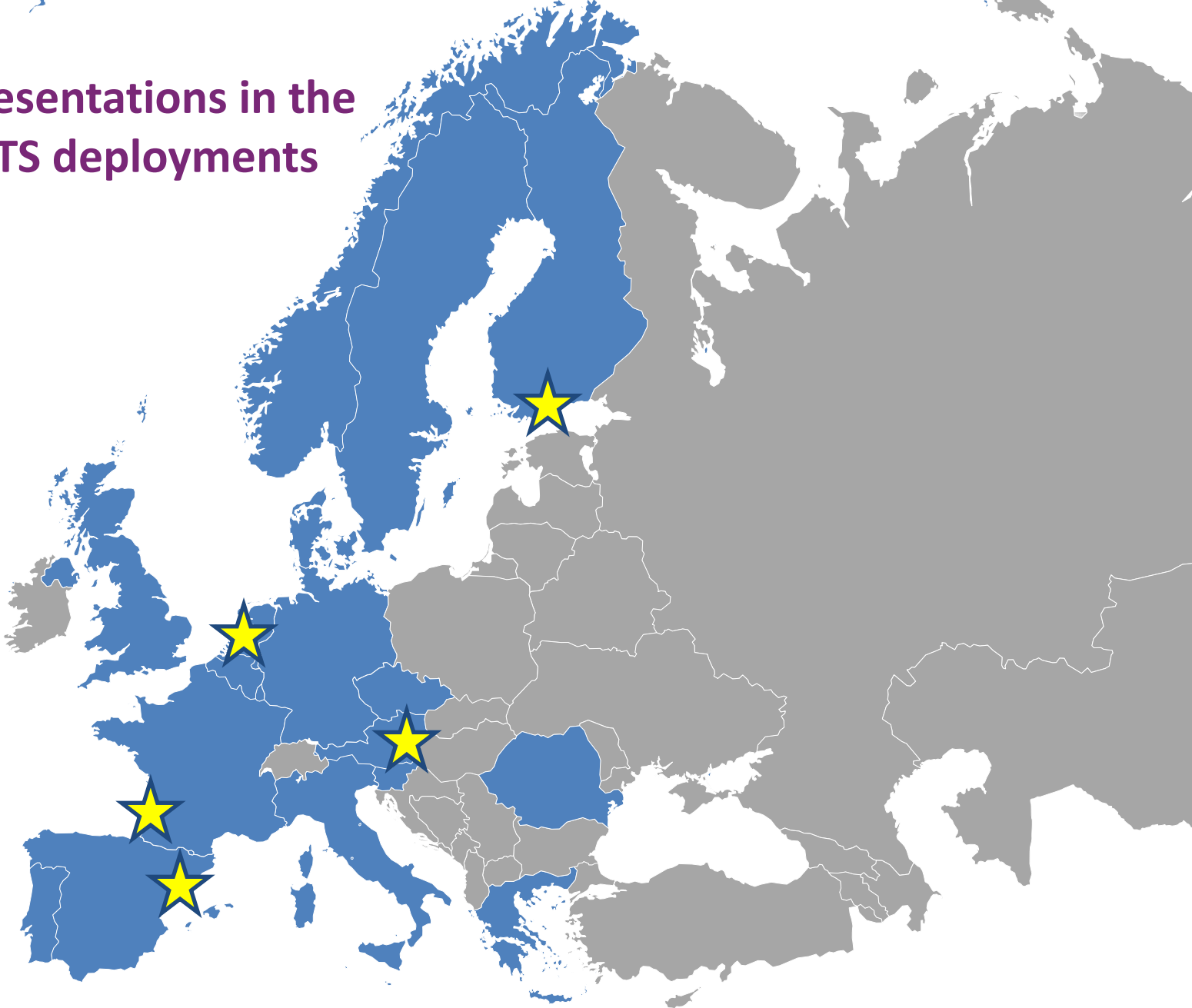


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# Closing



# Today's presentations in the wider EU ITS deployments



# What's next: 2017 – ...



- Development or adaptation of use cases with necessary updates / upgrades to ensure operability, maintainability & continuity of C-ITS services deployed and reduce related costs:

- Hybrid solutions → services now on both ITS-G5 & LTE/5G

- What we need:

- Harmonised reference architectures (NL, FI, FR, AT, CONVERGE, MOBiNET)
  - Quick-win services improvement & bundling (V2X) based on existing solutions
  - Approach: Multi-modal, Urban ↔ inter-urban ↔ highway
  - Replication capabilities & validated deployment processes
  - Functioning Public-Private Partnerships & ref. SUMP
  - Multi-stakeholder socio-economic CBA
  - C-ITS integration with interactive TM



GLOSA Time-to-red Speed advice



GLOSA Time-to-green



GLOSA HGV priority (right)



Speed limit violation GLOSA switched off



# CAPITAL: Collaborative cApacity Programme on ITS Training-educAtion and Liaison



Create a **platform of practitioners** in the **public and private** sector in the field of C-ITS deployment by establishing synergies with existing regional, European and international activities

Identify and assess the **capacity needs** and **knowledge gaps** and constraints of the practitioners in the field of C-ITS

Develop an ITS deployment **transferability handbook** of case studies and support the decision making process for deploying C-ITS

Design, implement and assess the collaborative **capacity-building** programme in 6 European cities

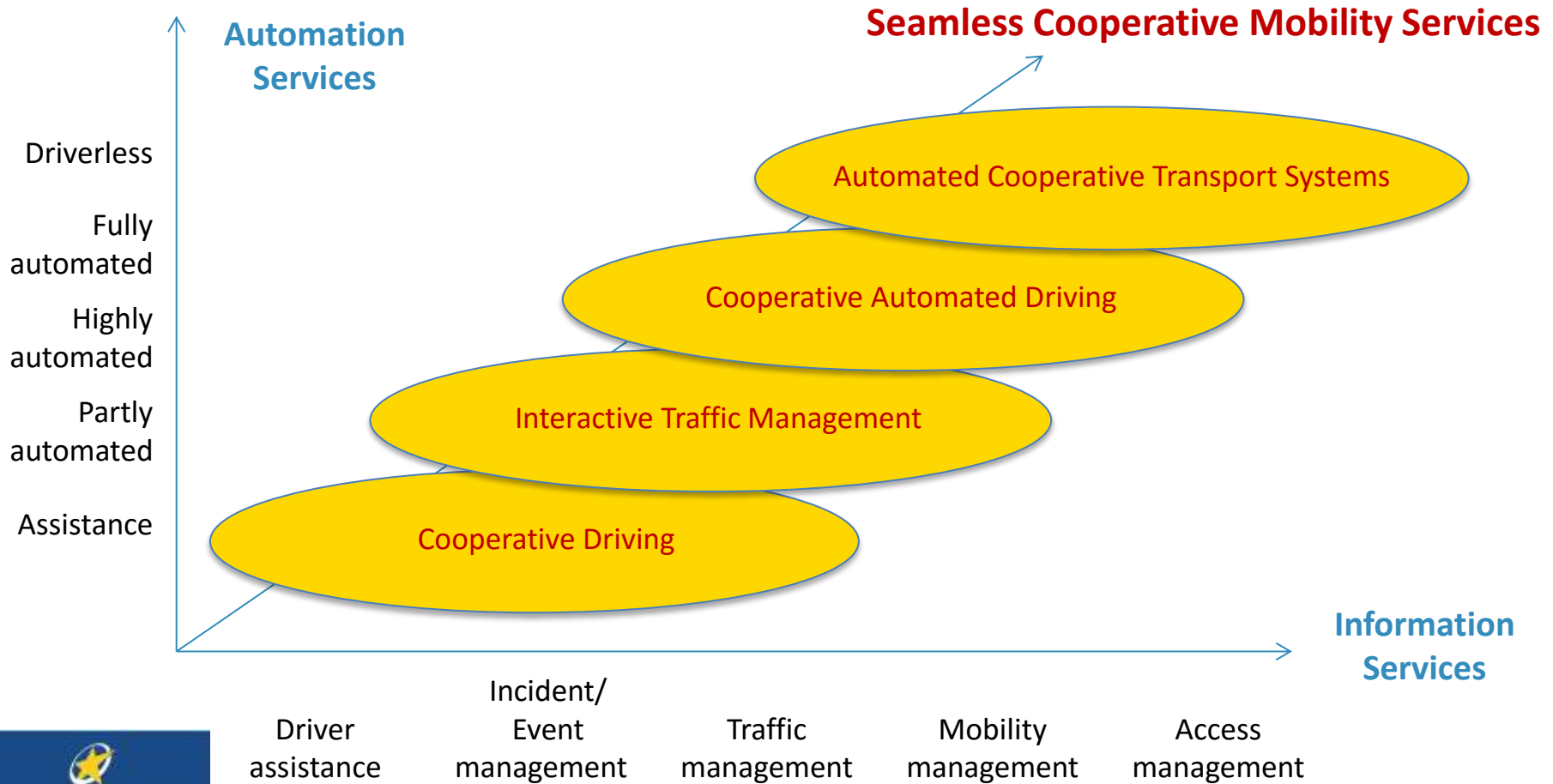
Develop a **user awareness strategy** and promote dissemination and awareness of the collaborative capacity-building programme to other ITS stakeholders

## Contacts:

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# Cooperative Mobility Services Roadmap



# Need for public-private partnership

## The concept

Bringing cities, industry and users together to develop and deploy ITS solutions



## The purpose

Large-scale deployment of bundled Day 1-1.5 C-ITS services in different settings (urban, interurban, cross-border) in complex environments (highly dense or sparse population, compact cities with widespread outskirts, isolated or rural areas) with large, different user groups (i.e. drivers, pedestrians, cyclists)



*Interested?  
Come to us & join today  
the C-ITS of tomorrow!*

**Thank you**

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