



Message Architecture for Long Term Road Works Warning (and beyond)

17 October 2017
BASt, Bergisch Gladbach

CODECS at a glance



- **Title:** COoperative ITS DEployment COordination SSupport
- **Acronym:** CODECS
- **Duration:** 1 May 2015 – 30 April 2018 (36 month)
- **Sustaining C-ITS deployment in Europe by**
 - Coordinating initial deployment activities
 - Aligning deployment road maps
 - Giving strategy coordination support
 - Raising awareness for the idea of cooperative road traffic

➔ To support a **concerted roll-out of C-ITS across Europe**



CODECS Workshops



Coordinating Initial Deployment Activities



- **C-ITS Deployment is underway! Part I & II**
 - Workshop series jointly organised with the Amsterdam Group
 - Status reports of C-ITS corridors & pilots
 - Discussion of open deployment issues
 - To be continued in 2017!



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Strategy Coordination Support



- **Workshops on "C-ITS and Cities"**
 - in Cooperation with H2020 CSA CIMEC
 - Foster understanding of C-ITS technology components
 - Exchanging experiences between Cities
 - Discussing new use cases
 - Next workshop: 14 November in Barcelona



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Roadmapping for cooperative ITS deployment



- **Roadmapping Workshop**
 - Discussion of future C-ITS use cases and benefits
 - especially for public transport, vulnerable road users & services on top of safety applications
- **Workshop on C-ITS Use Cases**
 - Enabling common understanding of use cases
 - Definition of terms: Use case, scenario
 - Use case descriptions & priorities
- **In progress: Use case definition & stakeholder roles**
 - Documentation of inventory: Use cases, priorities and required support of stakeholders



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Partners & Contact



- To join the CODECS network, contact us!

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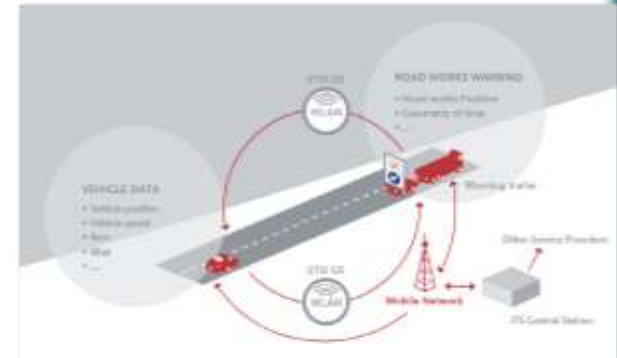
www.codecs-project.eu



This project has received funding from the *European Union's Horizon 2020 research and innovation programme* under Grant Agreement No 653339

C-ITS Day One Services

#	Day 1 Services
1	Emergency electronic brake light
2	Emergency vehicle approaching
3	Slow or stationary vehicle(s)
4	Traffic jam ahead warning
5	Hazardous location notification
6	Road works warning
7	Weather conditions
8	In-vehicle signage
9	In-vehicle speed limits
10	Probe vehicle data
11	Shockwave damping
12	Green Light Optimal Speed Advisory (GLOSA) / Time To Green (TTG)
13	Signal violation/Intersection safety
14	Traffic signal priority request by designated vehicles



List of Day One / Day 1.5 services from C-ITS Platform available at <http://ec.europa.eu/transport/themes/its/doc/c-its-platform-final-report-january-2016.pdf>

C-ITS Day One Services

Typical V2V

- Hazardous location warning
- Slow vehicle warning
- Stationary vehicle warning
- Emergency Brake Light
- Emergency vehicle warning
- Motorcycle approaching indication

I2V provided by infrastructure / V2I

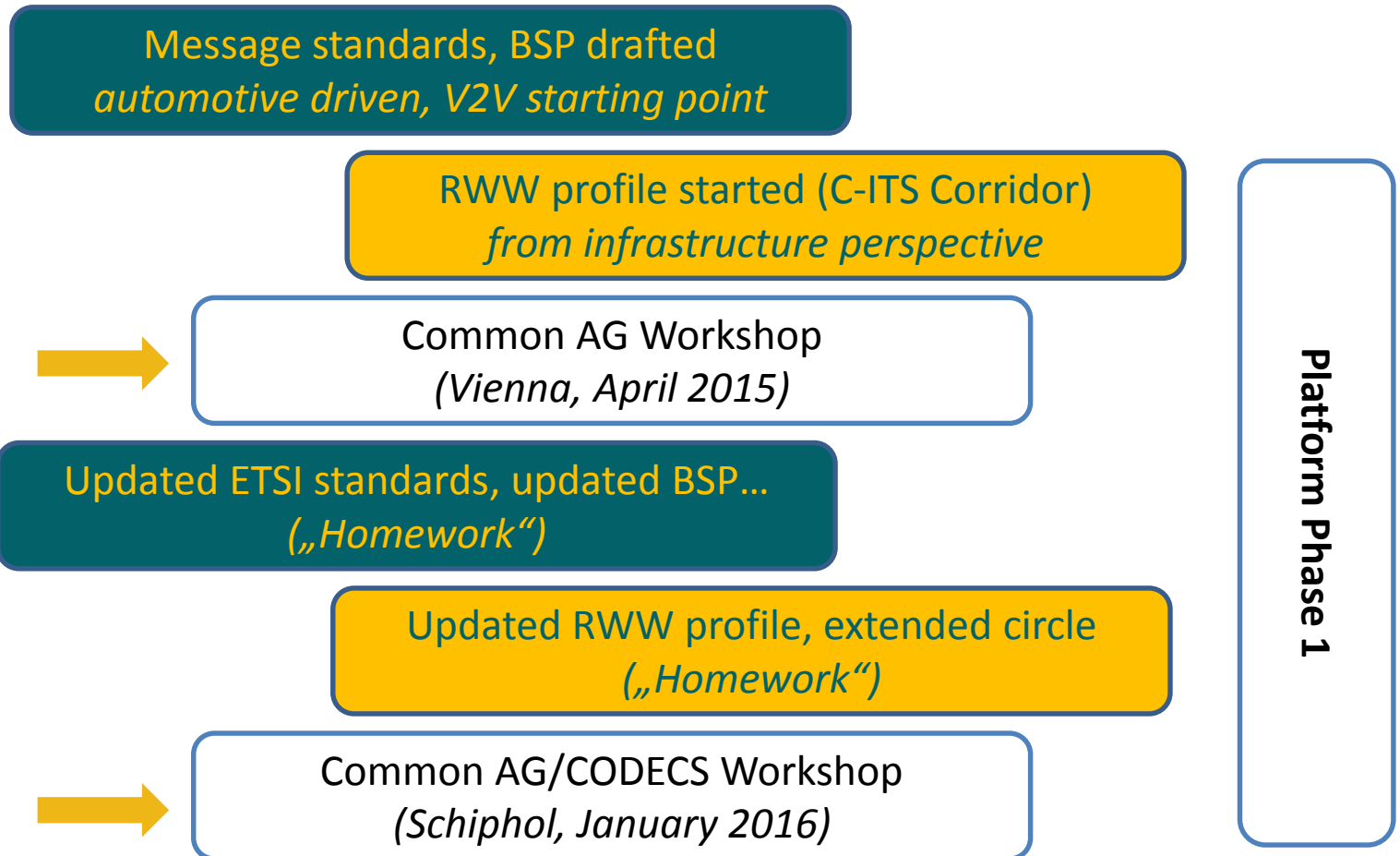
- Road works warning
- In-vehicle signage/information
- Signal phase and timing of traffic lights
- Probe vehicle data (Floating Car Data)



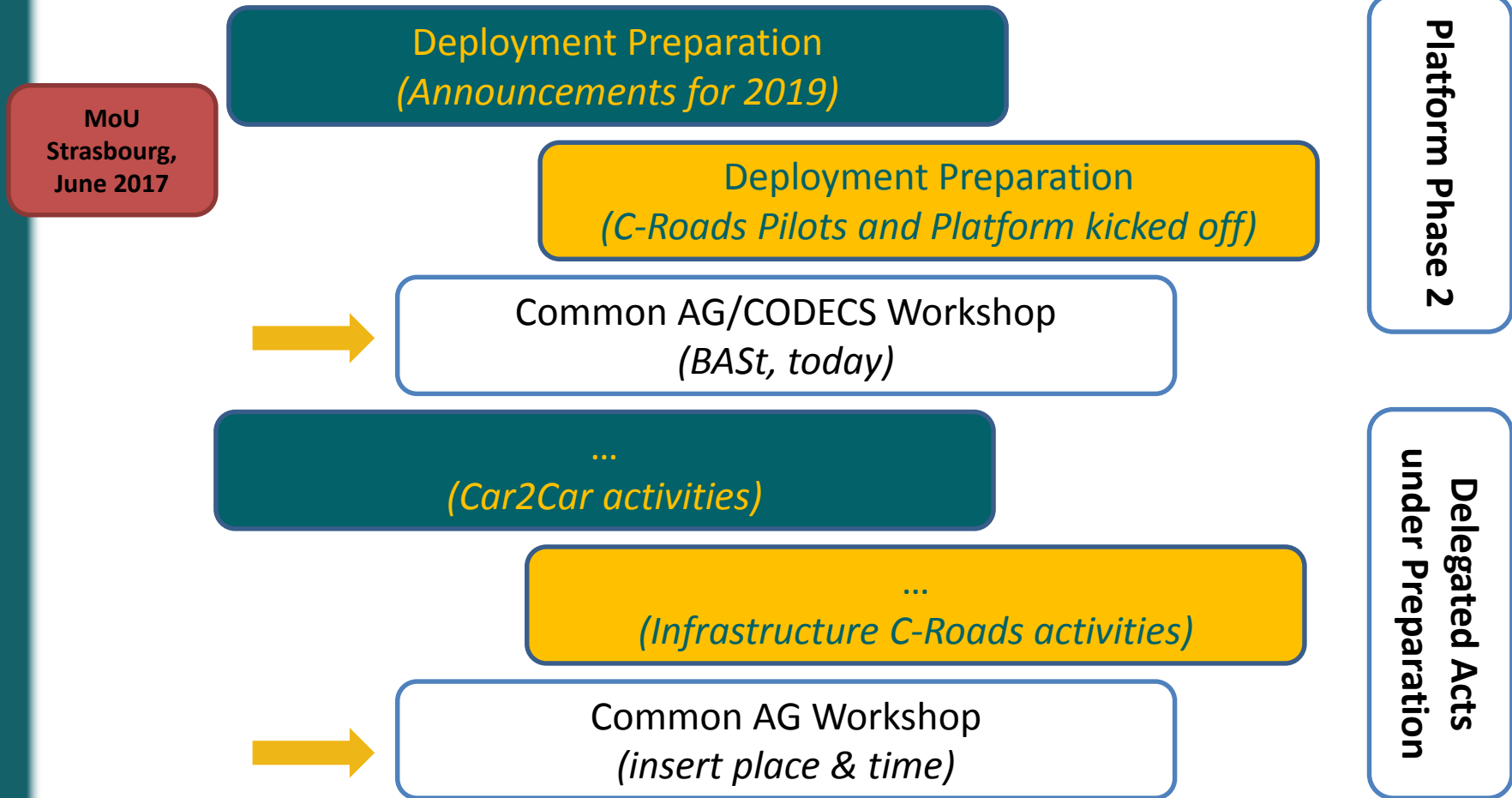
Get It On The Road, Get It In the Car.



Previous Steps (1/2)



Previous Steps (2/2)



Status & Outlook



- **Amsterdam Group White Papers available**
 - RWW as most mature technical specification
- **MoU between Car2Car and C-Roads**
 - Exchange of documents
 - Agreement on specifications for I2V/V2I
- ➔ **Future workshops needed**
- **How to deal with....**
 - extension / combination of existing use cases
 - introduction of new use cases / services / message formats
 - changes/updates of specifications

AG White Papers



[Home](#) [Events](#) [Calendar](#) [Road Map](#) [White papers](#) [Corridor initiatives](#)

White papers

The Amsterdam Group White Papers for three C-ITS services are available for download below (publication date: April 2016).

The present documents have been developed within the Amsterdam Group and might be further elaborated within the Amsterdam Group. The Amsterdam Group and its members accept no liability for any use of this documents and other documents from the Amsterdam Group for implementation.

The Amsterdam Group documents should be obtained directly from the Amsterdam Group.

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[Road Works Warning \(RWW\)](#)

- Functional Description
- Message Set and Triggering Conditions

Please note: Version 3.0 of the document Message Set & Triggering Conditions (including the long-term road works) is in preparation.

[In-Vehicle Information \(IVI\)](#)

[Signal Phase and Time \(SPaT\) and Map Data \(MAP\)](#)

Share

Agenda



Tuesday, 17 October 2017

09.30 Registration & Coffee

10.00 Welcome and setting in the scene

Torsten Geißler, Sandro Berndt,
Bundesanstalt fuer Straßenwesen BAST

Introduction to the challenge including preliminary discussion

Jaap Vreeswijk, *MAPtm*

10.30 Long-Term Road Works Warning – Understanding the primary purpose of message sets (e.g. DENM, IVI and MAP)

Peter Meckel, *ASFINAG*, Josef Kaltwasser
Alexander Paier, *Kapsch*
David Kelley, Andreas Schmid, *Swarco*

11.30 I2V message architecture – Defining principles for a common message architecture

Structured discussion, guided by MAPtm

12.45 Lunch & Networking

13.30 And beyond – future of profiling, upcoming use cases lacking applicable message sets

Peter Meckel, *ASFINAG*, Josef Kaltwasser
Martin Volny, *INTENS*
Paul Spaanderman, *Pauls Consultancy*

14.30 Coffee & Networking

15.00 Extension of message sets and future of profiling, backwards compatibility

Structured discussion

16.00 Summary & Closing

16.30 End of Workshop

Agenda is subject to alterations

Venue:

Bundesanstalt für Straßenwesen (BAST)
Brüderstraße 53
51427 Bergisch Gladbach
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