



# C-ROADS GERMANY

C-ITS Deployment is underway! Part III  
Amsterdam, 14 February 2017

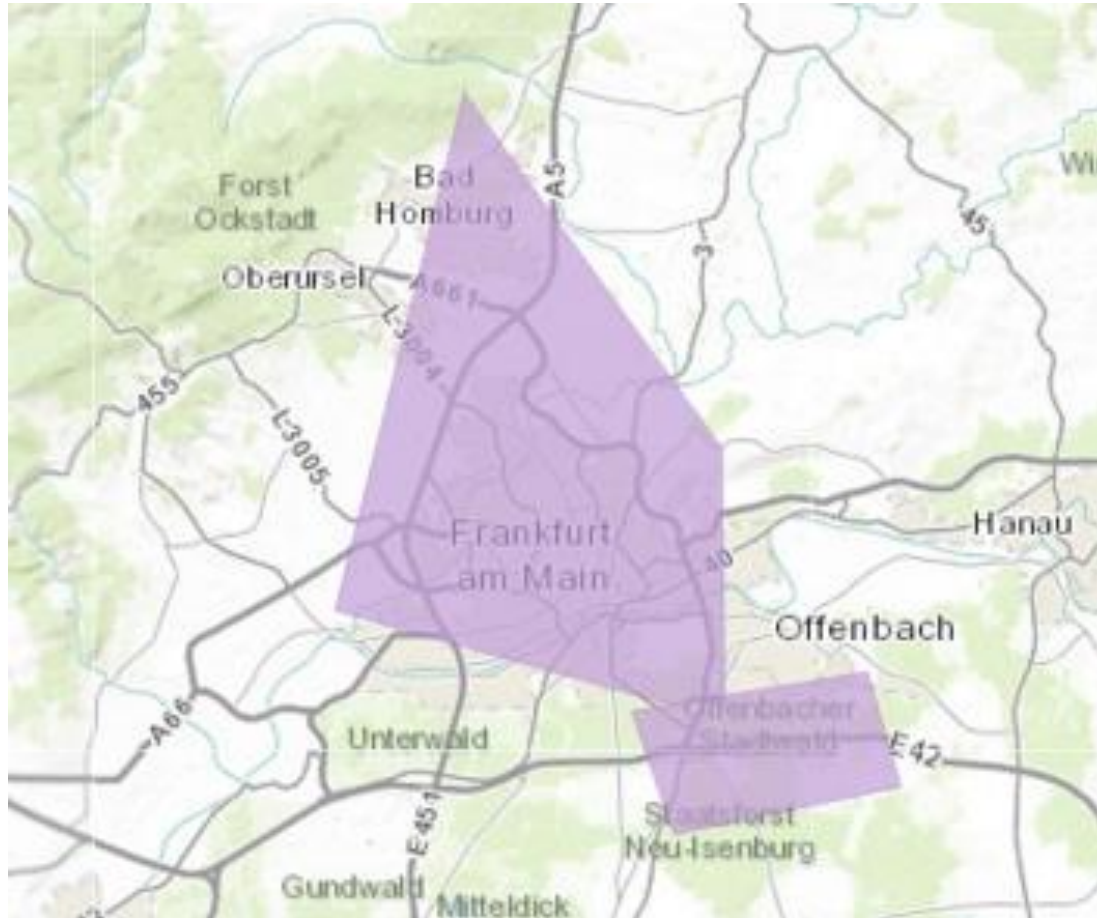
# C-Roads Germany

- Duration: 01.02.2016 – 31.12.2020
- Budget: 9.930.884,00 €
- Consortium: 17 Beneficiaries
  
- Coordinator: ITS automotive nord GmbH
- Technical Implementing Officer: Bundesanstalt für Straßenwesen
- Lead Hessian Pilot Site: Hessen Mobil
- Lead Lower Saxony Pilot Site: Nordsys GmbH

- Other beneficiaries:
  - Niedersächsisches Ministerium für Wirtschaft, Arbeit und Verkehr
  - SWARCO Traffic Systems GmbH
  - Continental Teves AG & Co. oHG
  - AVT STOYE GmbH
  - GEVAS software Systementwicklung und Verkehrsinformatik GmbH
  - HEUSCH BOESEFELDT GmbH
  - Bayrische Medien Technik GmbH
  - Hessen Digital Radio GmbH
  - Garmin Würzburg GmbH
  - ESCRYPT GmbH – Embedded Security
  - INGENIEURGESELLSCHAFT FÜR AUTO UND VERKEHR GmbH
  - e-Shuttle GmbH
  - OECON Products & Services GmbH



# Hessian Pilot Site



# Lower Saxony Pilot Site



# C-Roads Germany Activity Map



C-ROADS **Coordination Platform**

**Activity 1: C-Roads Platform**

**Activity 2: Horizontal Activities**

**Activity 3:  
Hessian  
C-ITS Pilot Activities**

**Activity 4:  
Lower Saxony  
C-ITS Pilot Activities**

AT

BE

CZ

FR

C-Roads Germany

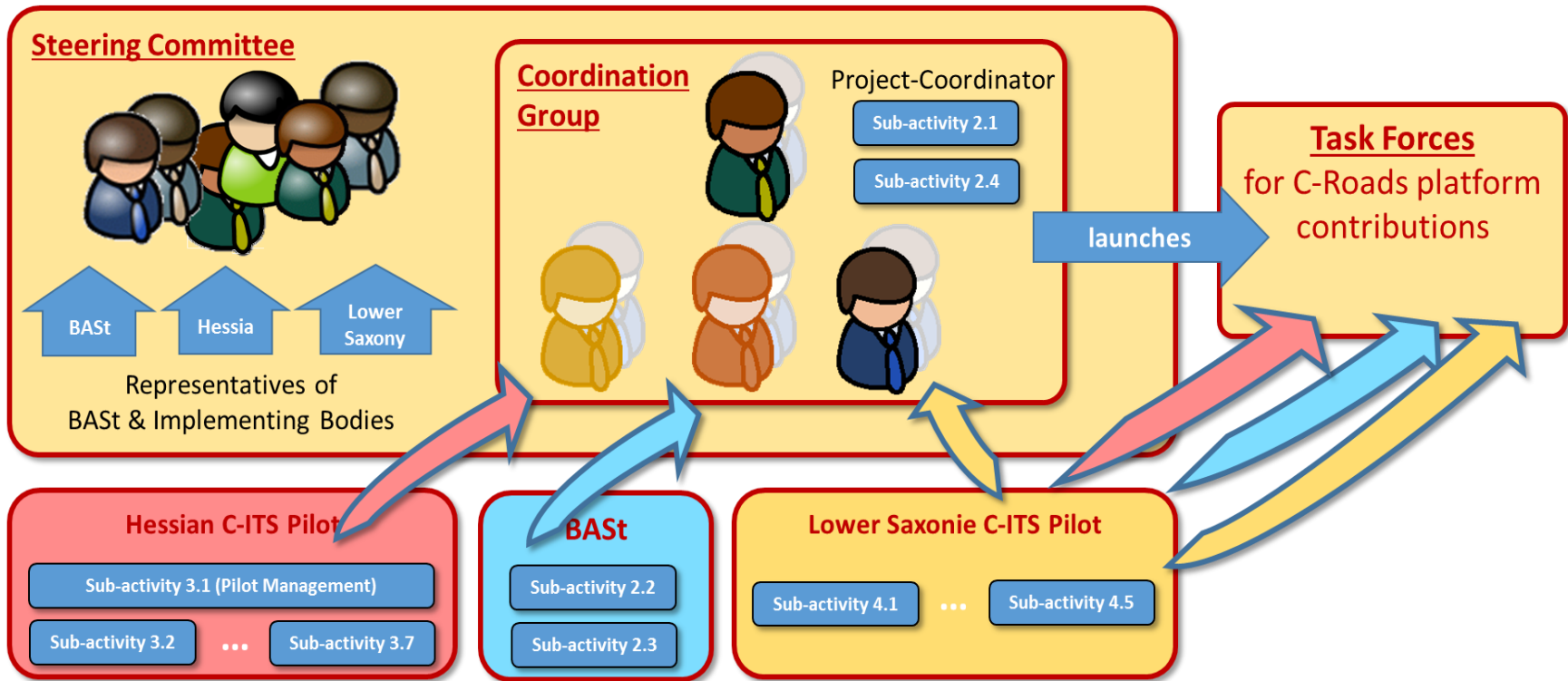
NL

SI

UK



# C-Roads Germany Organisation





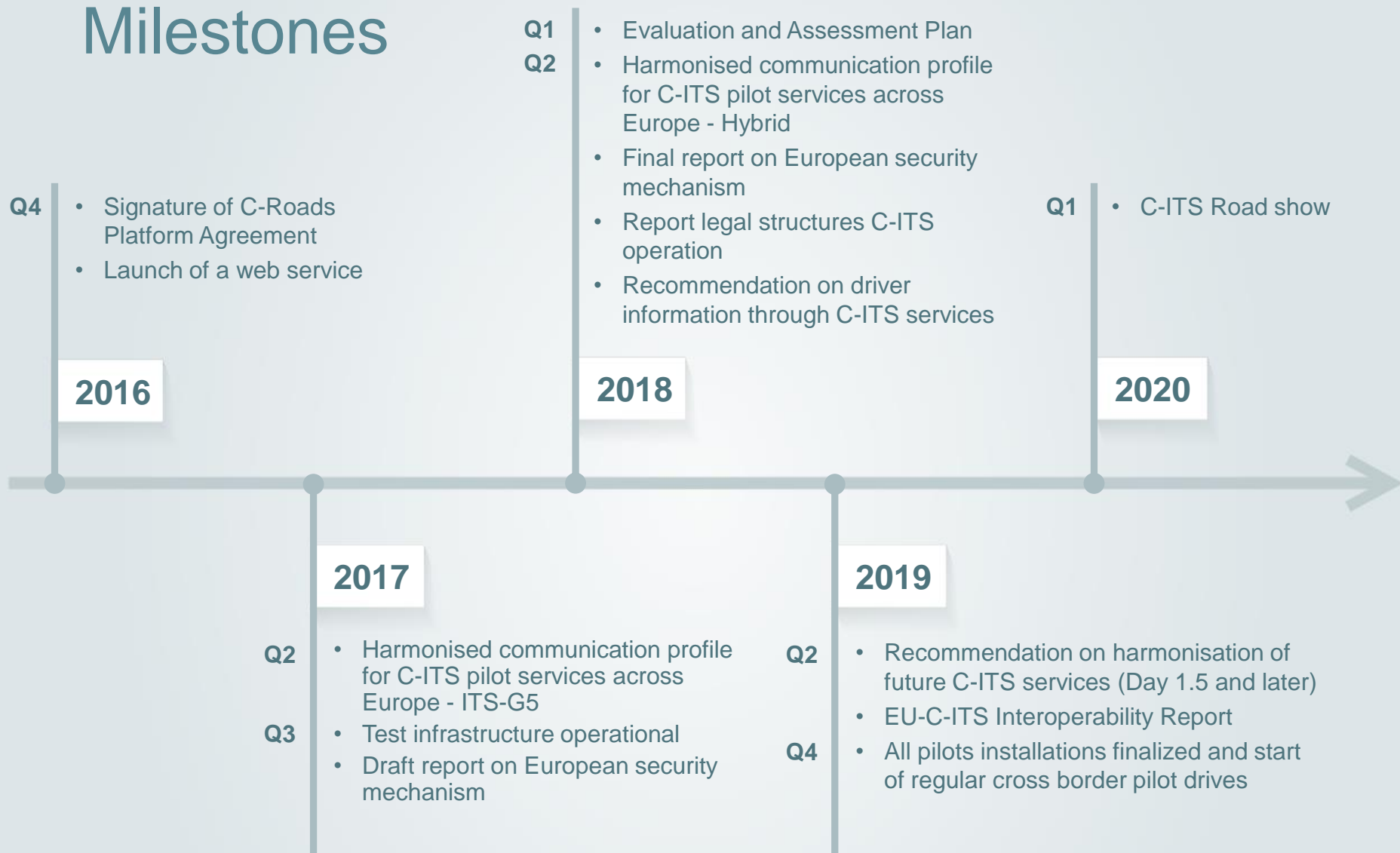


# C-ROADS GERMANY: ACTIVITY 1

# Activity 1 Sub-activities

- Sub-activity 1.1: Pilot tracking
- Sub-activity 1.2: Organisational aspects of C-ITS
- Sub-activity 1.3: Technical aspects of C-ITS
- Sub-activity 1.4: Evaluation and assessment

# Milestones





## C-ROADS GERMANY: ACTIVITY 2



# Activity 2 Sub-activities

- Sub-activity 2.1: National Project Management
- Sub-activity 2.2: National Technical Coordination
- Sub-activity 2.3: Evaluation
- Sub-activity 2.4: Communication and Dissemination

# Activity 2 Meilensteine

No.	Act.	Name	Date	Means of Verification
1	2.1	CRG Kick-Off Meeting	Q4/2016	Approval of the action initiation document by the CRG Coordination Group
2	2.1	CRG Final Meeting	Q4/2020	Approval of the action finalisation document by the CRG Coordination Group
3	2.2	Recommendation on driver information through C-ITS services	Q1/2018	Report available and approved by the CRG Coordination Group
4	2.3	First test vehicles equipped and operational	Q4/2017	First test vehicle verified by the CRG Coordination Group
5	2.3	Integrated report about cross-test results in different pilot sites	Q3/2019	Report available and approved by the CRG Coordination Group
6	2.4	CRG website	Q1/2017	Website online, hard copy verified by the CRG Steering Committee

# SA 2.1: National Project Management

- Responsible for the performance and execution of activities within the C-Roads-Germany project towards European Services (i.e. EC and INEA)
- Coordinate communication flows within the C-Roads-Germany, between C-Roads-Germany and the C-Roads-Platform as well as with external stakeholders and the general public.
- Deliverables
  - Management work plan
  - C-Roads-Germany pilots descriptions & organisation plans
  - Annual action status reports



# SA 2.2: National Technical Coordination

- Harmonisation activities on national level
- Best practices for procurement processes and stakeholder structures
- Coordination and monitoring of the development of service specifications (security, interfaces for data and service exchange, HMI aspects, ...)
- Clear description of services piloted

# SA 2.3: Evaluation

- Assess the achieved results within the CRG pilot sites
  - Indicators will be used to monitor and demonstrate the progress, evaluate impacts and performance
  
- Aligned assessment methodologies in the EU
  - Documentation of the operational experiences
  - Estimation of the quality of the deployed services
  
- First phase on national level, second phase on European level
  - External performed cross-site tests

# SA 2.4: Communication and Dissemination

- Communication and dissemination plan incl. dissemination material
- Calendar of relevant events
- Website
- Newsletter
- Conferences



## C-ROADS GERMANY: ACTIVITY 3



# Activity 3 Sub-activities

- Sub-activity 3.1: Pilot Management
- Sub-activity 3.2: Roadworks Warning Service Deployment (RWW)
- Sub-activity 3.3: Slow or Stationary Vehicle Ahead Warning Service Deployment (SSVW)
- Sub-activity 3.4: Traffic Jam Ahead Warning Service Deployment (TJW)
- Sub-activity 3.5: Shockwave Damping Service Deployment (SWD)
- Sub-activity 3.6: Green Light Optimal Speed Advisory Service Deployment (GLOSA)
- Sub-activity 3.7: Probe Vehicle Data Service Deployment (PVD)

# Activity 3 Meilensteine

No.	Act.	Name	Date	Means of Verification
7	3	Hessian pilot organisation and deployment plan ready	Q2/2017	Report available and approved by the CRG Coordination Group
8	3	C-ITS system architecture and overarching technical specifications are defined	Q3/2017	Report available and approved by the CRG Coordination Group
9	3	Launch of public procurement procedure	Q3/2017	Approval of the activity initiation document by the CRG Coordination Group
10	3	Hessian services RWW, SSVW, and PVD operational	Q4/2018	Services operational and verified by the CRG Coordination Group
11	3	Hessian services GLOSA, TJW, and SWD operational	Q4/2019	Services operational and verified by the CRG Coordination Group
12	3	Hessian final demonstration event of all services	Q3/2020	Approval of the activity finalisation document by the CRG Coordination Group



# C-ROADS GERMANY: ACTIVITY 4



# Activity 4 Sub-activities

- Sub-activity 4.1: Preparation of C-ITS Deployment
- Sub-activity 4.2: Slow or Stationary Vehicle Ahead Warning Service (SSVW)
- Sub-activity 4.3: In-Vehicle Information / In-Vehicle Signage Service (IVI/IVS)
- Sub-activity 4.4: Probe Vehicle Data Service (PVD)
- Sub-activity 4.5: Traffic Management Centre Integration

# Activity 4 Meilensteine

No.	Act.	Name	Date	Means of Verification
13	4	Lower Saxony Kick-Off Meeting	Q4/2016	Approval of the activity initiation document by the CRG Coordination Group
14	4	Lower Saxony pilot organisation and deployment plan ready	Q2/2017	Report available and approved by the CRG Coordination Group
15	4	Lower Saxony C-ITS preparation report	Q2/2020	Report available and approved by the CRG Steering Committee
16	4	Lower Saxony service SSVW operational	Q4/2018	Services operational and verified by the CRG Coordination Group
17	4	Lower Saxony services IVI/IVS and PVD operational	Q4/2019	Services operational and verified by the CRG Coordination Group
18	4	Lower Saxony final demonstration event of all services	Q3/2020	Approval of the activity finalisation document by the CRG Coordination Group



# THANK YOU FOR YOUR ATTENTION

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