CCAM PARTNERSHIP
IN HORIZON EUROPE
@ EFECS, Amsterdam
Armin Gräter, 24.11.22
EUROPEAN LEADERSHIP IN SAFE AND SUSTAINABLE ROAD TRANSPORT THROUGH AUTOMATION

- Strengthen Competitiveness of European Industries
- Increase Safety in road transport
- Reduce negative impact from road transport on environment
- Ensure inclusive mobility and good access for all
CCAM ACTIVITIES AND TIMEFRAME

- Contributing to shape the CCAM Horizon Europe research call topics.
- Networking opportunities at the European and international levels.
- Updating the CCAM Strategic Research and Innovation Agenda (SRIA) with the selected research projects’ results.
- Joint actions with many other European and international stakeholders.
- Contributing to the development of European standardisations and regulations.

**PHASE 1**
(2021-2024)
Developing the building blocks

**PHASE 2**
(2025-2027)
Advancing technical maturity

**PHASE 3**
(2028-2030)
Large-scale Demonstrations

cam.eu
CCAM SYNERGIES – THE IDEA

- Photonics
- Key digital technologies - KDT
- AI, data and robotics - AI
- Smart networks and services - SNS
- High Performance Computing - HPC

Towards zero emission road transport - 2ZERO

Deployment

- Digital Europe Programme (DEP)
- Connecting Europe Facility (CEF)
- Cohesion policy funds
- Important Projects of Common European Interest (IPCEI)
- ETS Innovation Fund
- Modernisation Fund

Large-scale Demonstrations

Driving Urban Transitions - DUT

Transforming Europe’s rail system
POTENTIAL FIELDS OF COOPERATION

HARDWARE

SOFTWARE

SYSTEM

ARTIFICIAL INTELLIGENCE

BIG DATA

CCAM Cluster 2
Vehicle Technologies

CCAM Cluster 5 Key
Enabling Technologies
Renault and Google team up to develop a ‘software defined’ vehicle

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BY KEVIN PETERS

**KEY POINTS**

- Using artificial intelligence, the two companies plan to create a “digital skin” of a new vehicle.

- Digital twins aim to replicate physical objects in a virtual setting so that they can be tested and monitored before real-world deployment.

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**Squawk on the Street**

- Here’s how much money you’d have now if you invested $1,000 in Walmart 50 years ago.

- Qatar to ban beer at World Cup stadiums in dramatic reversal two days before tournament starts.

- Fitch's CIO paints a rosier picture of the economic outlook as inflation eases.

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**TRENDING NOW**

- Walmart to ban beer at World Cup stadiums in dramatic reversal two days before tournament starts.
THANK YOU!

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CLUSTER 2: VEHICLE TECHNOLOGIES

R&I Actions

• 2.1 - Environment perception technologies for CCAM
• 2.2 - Safe and reliable on-board decision-making technologies
• 2.3 - Preventive and protective safety for highly automated vehicles
• 2.4 - Human Machine Interaction (HMI) development for on-board technology
• 2.5 - Addressing User-Centric Development of CCAM

Operational Objectives

• Establish a long-term coordination framework for R&I and large-scale testing activities
• Common methodologies available to validate the safe system function of CCAM use cases by 2026
• Enable trustworthy interaction between all traffic participants and CCAM by 2028
• Expand and disseminate the knowledge base on CCAM solutions during the entire Partnership duration
CLUSTER 5: KEY ENABLING TECHNOLOGIES

R&I Actions

• 5.1 - Cybersecure components and systems
• 5.2 - Robustness and resilience
• 5.3 - Explainable concepts and training of AI for CCAM applications
• 5.4 - AI for situational awareness
• 5.5 - System architecture for data sharing

Operational Objectives

• Establish a long-term coordination framework for R&I and large-scale testing activities
• Exploit new and emerging knowledge fields for large scale demonstrations in 2027
• Enable trustworthy interaction between all traffic participants and CCAM by 2028
• Expand and disseminate the knowledge base on CCAM solutions during the entire Partnership duration