

European Partnership under Horizon Europe

Connected, Cooperative and Automated Mobility  
(CCAM)

*European leadership in safe and sustainable road  
transport through automation*

# Presentation content

- Background & Timeframe
- Consultation process & Openness
- Approach of governance
- Key EU Policy references
- Vision and societal objectives
- Problem drivers, expected impacts and general objectives
- Necessity for a Partnership
- Involvement of Member States
- Coordination with other Partnerships
- Next steps

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## Background

- Drafting started after last CCAM Platform meeting on 24 January, where the European Commission requested the preparation of a Proposal.
- Drafting team by major European associations: EUCAR (automotive OEMs), CEDR (national road authorities), ERTICO (ITS Europe), POLIS (cities and regions), CLEPA (automotive supply industry), EARPA (automotive research providers), ECTRI (transport research institutes), UITP (public transport stakeholders), FIA (mobility users), ALICE (logistics), EPoSS (smart systems). Coordination by ERTRAC.
- 17 February: public workshop to gather stakeholders interests
- Mid March: stakeholders consultation on draft Proposal
- End March: deliver the Proposal to the EC, following the template

# Timeframe

## **Step-by-step, but tasks running in parallel:**

- March: deliver the Proposal to the EC, following the template
- June: awaiting confirmation of Partnerships in Horizon Europe
- April-June: develop the Roadmap (SRIA) of the Partnership
- May-October: create the CCAM stakeholders association
- September-October: signature of the Partnership contract

**Timing depending from the EU institutional process!**

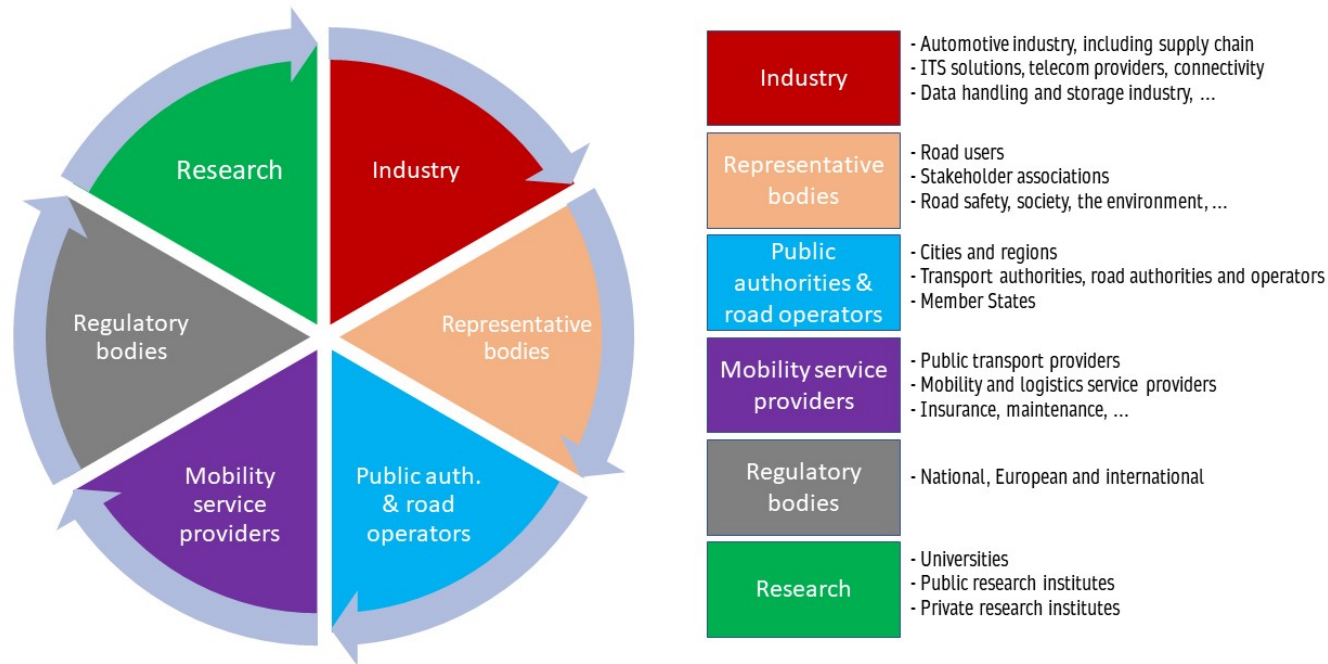
## Consultation process

- 13-23 March: stakeholders consultation on the Proposal
- Public distribution of the draft Proposal
- Powerpoint presentation sent as attachment for process explanation
  - Ask to express interest to be involved in the Partnership preparation (building on the stakeholders community);
  - Participants to indicate on which areas they would you like to contribute and how;
  - Collect feedback on the Proposal draft text, asking where it could benefit from further strengthening?
- There will be a second stakeholders consultation in April/May on the Roadmap (SRIA) drafting
- Objective to get a good draft Roadmap (SRIA) in June.

## Openness to participate

- Everybody welcome to contribute to the proposal:
  - Stakeholders consultation will be organised. Member States and associations to help dissemination.
- All stakeholders invited to join the new association to be created:
  - All types: research, industry, national and public bodies, representative bodies, mobility services providers, etc.
- Calls will be fully open for anyone to apply:
  - Standard rules of participation in Horizon Europe will apply.
  - Participation not limited to the members of the association.

A large number of actors need to be involved in the development, large-scale testing and validation of CCAM solutions, addressing technical and non-technical challenges:





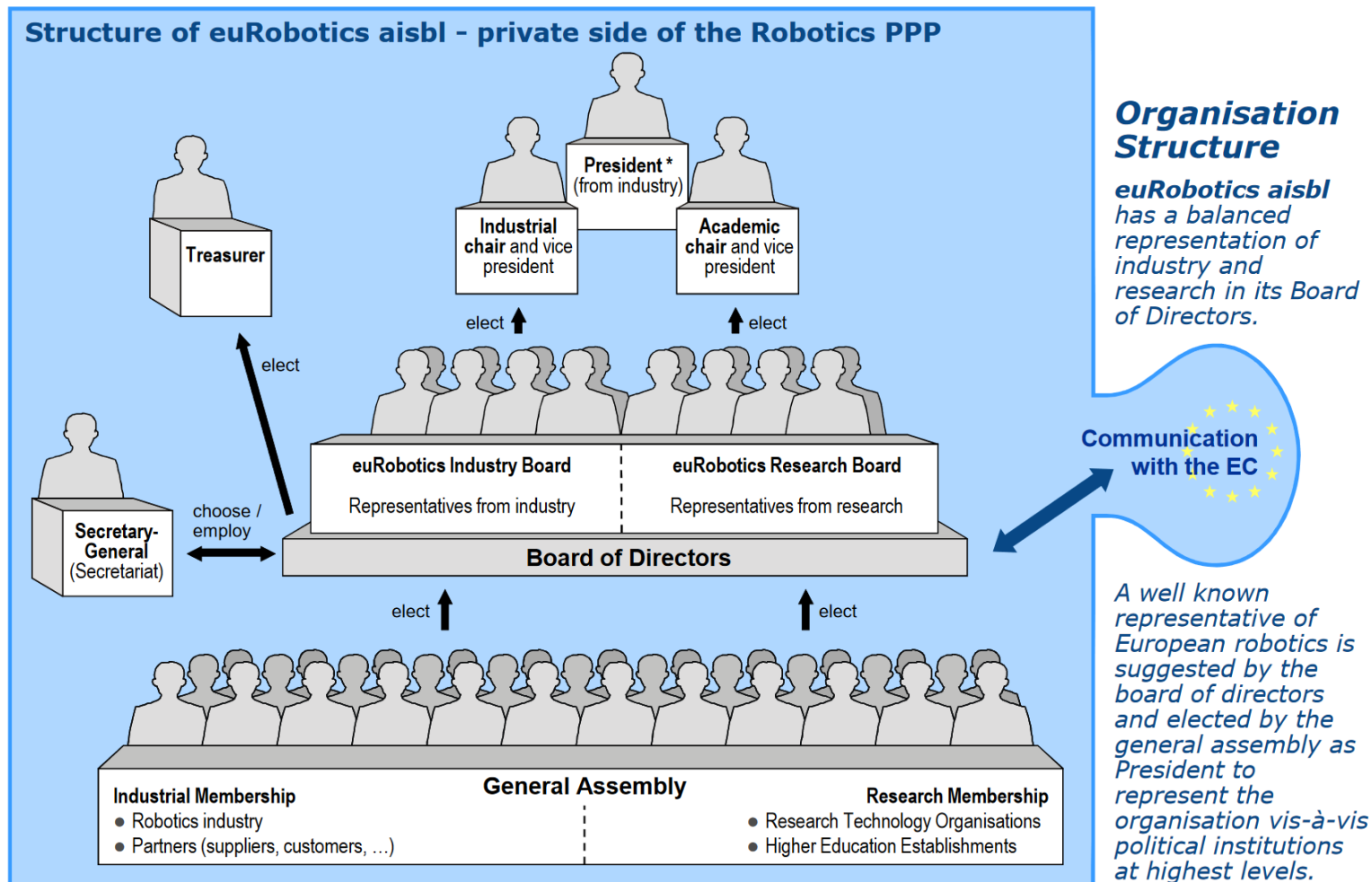
## Approach of governance

- **Full openness:** all the different stakeholders have the opportunity to participate, during all the lifetime of the Partnership, including SMEs, universities, local authorities, newcomers, etc.
- **Flexibility:** follow the roadmap listing the R&I actions, but can adapt the priorities year by year.

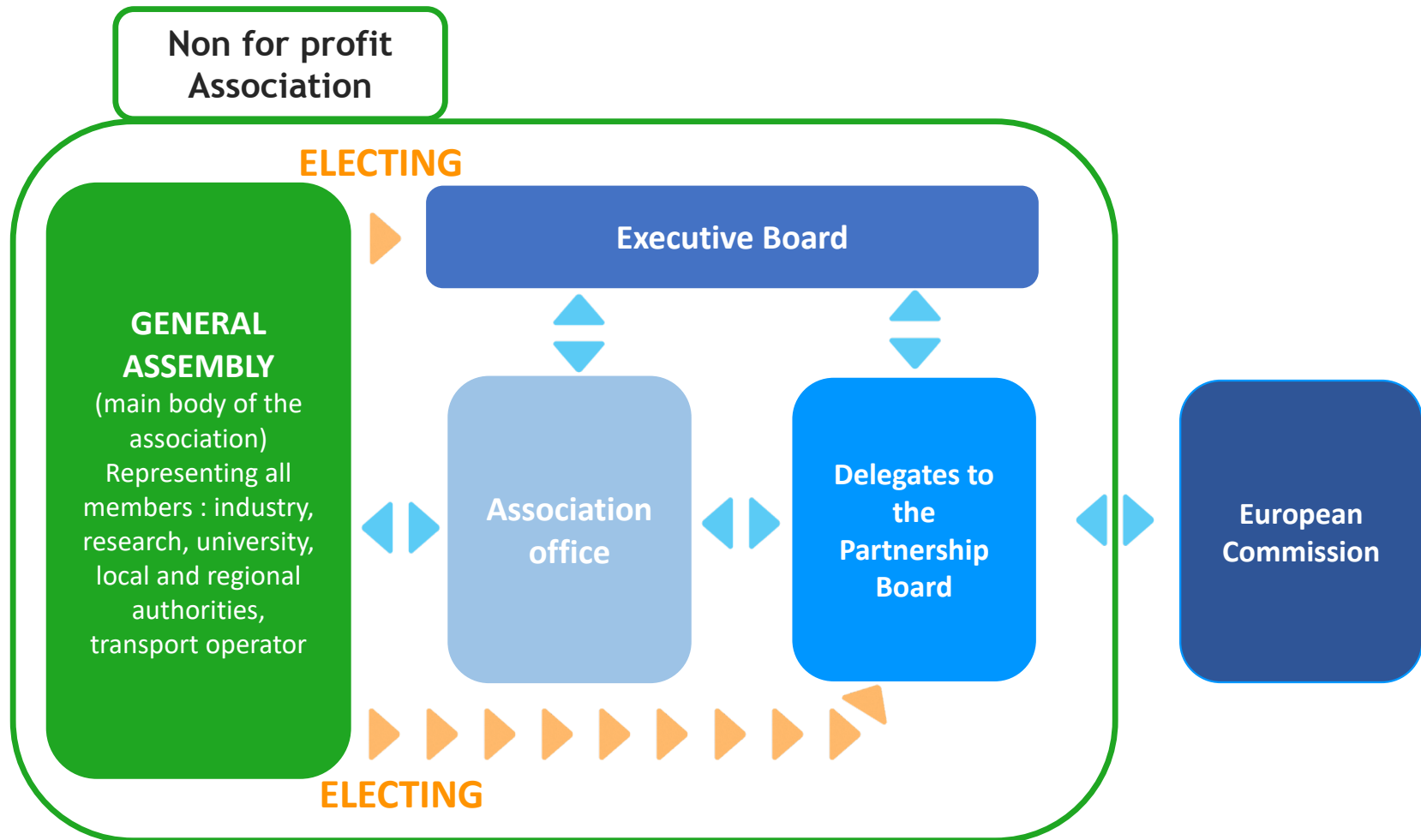
⇒ **Co-Programmed instrument**

**Look at examples from existing Partnership associations**

# Example Robotics cPPP



## Example European Green Vehicles Initiative cPPP



## Be careful with misunderstandings!

- No initial financial commitment foreseen to participate in the Partnership.
- The association fee will be very low: 500-5000€ range, depending on type.
- The association will draft consolidated recommendations to the calls: the calls will be published by the EC, and then open for anybody to apply, member or non-member of the association.
- The association will not organise project proposals and will not support any.
- The association will not intervene in the evaluation process.

This partnership differs from Joint Undertakings / Institutional Partnerships!

- ✓ Read and understand the Co-Programmed Partnership in Horizon Europe
- ✓ If something is unclear, ask the EC or ask your European association

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## Key EU Policy references

- Communication “On the road to automated mobility: An EU strategy for mobility of the future”: European Commission vision on Connected, Cooperative and Automated Mobility (CCAM).
- **European Green Deal**: Europe to become the world first climate-neutral continent by 2050. For mobility: goal to leverage the digitalisation of transport with smart and automated mobility systems.
- Final report of the high-level group on the competitiveness and sustainable growth of the automotive industry in the EU (**GEAR 2030**): including recommendations for automated and connected vehicles.
- **Declaration of Amsterdam** highlighted the willingness of EU Member States to cooperate and agree on joint goals and actions to facilitate the introduction of connected and automated driving on European roads

## Vision and societal objectives

With full **integration in the transport system**, CCAM is expected to **reshape mobility** in Europe and to contribute significantly to achieving the following **societal objectives**:

- **Safety**: Reducing the number of road fatalities and accidents by addressing accidents caused by human errors;
- **Environment**: Reducing transport emissions and congestion by efficient use of transport capacity, smoothening traffic flows and removing unnecessary trips;
- **Inclusiveness**: Ensuring inclusive mobility for persons and goods by providing mobility access to excluded groups; and
- **Competitiveness**: Strengthen competitiveness of European industries by technological leadership, ensuring long-term growth and jobs.

## Problem drivers

- Advanced CCAM solutions are not mature for market take up yet and current investment levels in CCAM R&I in the EU are insufficient to maintain and extend EU industrial leadership.
- Current R&I efforts are fragmented with a lack of a coherent, longer term vision.
- A well organised, large and complex, cross-sectorial value chain is required to build complete CCAM solutions, which currently is only in place for parts the value chain.
- Insufficient demand as the society is not yet prepared or accepting a transition to CCAM enabled mobility. Potential implications and impacts of integration of CCAM solutions into the mobility system are not well understood.



Expected Impact	General objectives
Improving <b>safety</b> and <b>security</b> of the transport system drastically	<ul style="list-style-type: none"> <li>• Reduced number of fatalities and injuries in road transport</li> <li>• Safe and efficient co-existence between automated and non-automated “conventional” traffic for a long transition period of mixed traffic</li> </ul>
Meeting <b>societal needs</b> for <b>mobility</b> while <b>reducing environmental</b> impacts and strengthening our economy	<ul style="list-style-type: none"> <li>• High public acceptance and adoption of CCAM with clear understanding of its benefits and limits</li> <li>• Increased efficiency of transport flows (people and goods) leading to better use of infrastructure capacity and preservation of public space</li> <li>• Reduced transport emissions and congestion</li> </ul>
Maintain and <b>extend industrial leadership</b> for new jobs and economic growth all over Europe	<ul style="list-style-type: none"> <li>• Making Europe a world leader in the deployment of connected and automated mobility for people and goods</li> <li>• More focused and long-term investments in R&amp;I, development and pre-deployment of CCAM.</li> </ul>
<b>Strengthen</b> leadership in all technological and societal aspects of CCAM through targeted <b>knowledge</b> and <b>capacity building</b>	<ul style="list-style-type: none"> <li>• Support the creation, dissemination and capitalisation of knowledge to accelerate the development and improvement of CCAM enabled solutions</li> </ul>

## Necessity for a European Partnership

Innovation by CCAM requires a **System** approach and a **multi-stakeholders** collaboration

- ⇒ Support activities going across sectors (e.g. automotive and infras.)
- ⇒ Avoid fragmentation of research, testing and demonstration
- ⇒ Build together a shared vision with common objectives, and define together the priorities for Research & Innovation Actions
- ⇒ Remove innovation barriers and accelerate implementation

## Involving industry and researchers but also public authorities:

- **Member States:** opportunity for the MS to coordinate between the European and their national R&I funding and testing activities; to streamline their investments in infrastructures; and align their regulatory actions and transport policy objectives.
- **Regional and local actors:** for testing in real traffic conditions, for integration into mobility services, and for citizens involvement.

⇒ Promote coordination of European, national and local activities.

⇒ Generate impacts at European scale.

# Involvement of Member States

The different portfolios of Member States roles in CCAM requires different levels (i.e. categories) of involvement with a range of activities tailored to the needs and preferences of individual Member States. The specific involvement of every Member State is open in the following categories:

- Continuous involvement **as partner** in key processes (comprising the full range from strategy to operational tasks, also including performing research activities) within the CCAM Partnership.
- Interaction and dialogue on CCAM on an annual basis (information provision from CCAM partnership to Member States, advice from Member States) **as member** of a national Member States 'Advisory Board'.

## Building blocks for the Roadmap drafting

- R&I action areas from CCAM Platform Working Group 1
- STRIA Roadmap
- JRC Report
- ERTRAC CAD Roadmap
- ARCADE Roadmap
- ...

## Coordination with other Partnerships

- Key Digital Technologies
- Smart Networks and Services
- AI, data, robotics
- Driving Urban Transition towards Sustainable Urban Future
- Towards zero-emission road transport (2ZERO)
- Transforming Europe's rail system
- High performance computing
- Photonics Europe

## Next steps

- 13-23 March: stakeholders consultation on the Proposal
- April-June: develop the Roadmap (SRIA) of the Partnership
- April/May: second stakeholders consultation on the Roadmap (SRIA)

=> **Developing a CCAM stakeholders community**