



# European Framework for coordination of CCAM R&I and Testing

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SIP-adus  
Workshop  
2022

11 October 2022  
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# The need for an EU Coordination Framework



<p>Declaration of Amsterdam HLM GEAR 2030</p>	<ul style="list-style-type: none"> <li>• Need for a <b>coherent European framework</b> for the deployment of <b>interoperable connected and automated driving</b></li> <li>• Need for increased coordination and exchange on lessons learnt during testing on subjects of public interest</li> </ul>
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<p>CCAM Platform WG2</p>	<p><i>“The desire for a <b>common evaluation methodology</b> stems from the <b>need to be able to compare evaluation results</b> from various tests and projects, allow for <b>complementing evaluations</b> and meta-analysis over multiple evaluation studies and assess impacts, also on the systems level, of deploying CCAM technologies and systems. <b>Several tried-and-tested methodologies are available</b> – new projects should know about these so <b>they do not have to start from scratch</b>“</i></p>
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<p>CCAM Partnership Specific Objective</p>	<ul style="list-style-type: none"> <li>• Long-term <b>coordination framework</b> for R&amp;I and large-scale testing activities, involving all relevant public and private stakeholders from European, national and regional levels</li> <li>• Expand and disseminate the <b>knowledge base on CCAM</b> solutions, stakeholders, R&amp;I programmes and projects, and testing activities</li> </ul>
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Tuesday, October 11, 2022

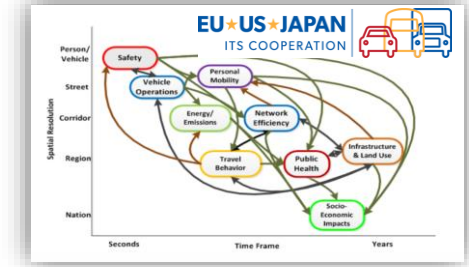
# ARCADE

- Oct 2018 – July 2022
- 23 partners - 11 States
- 60+ associated partners

## R&I Projects

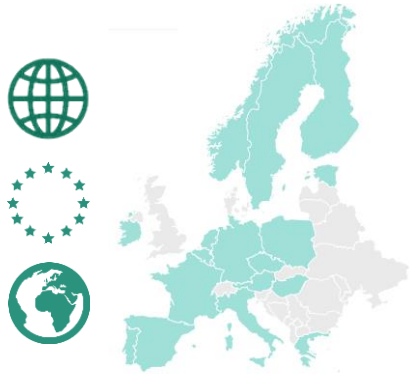


## Evaluation Methodologies



*The “one-stop shop” for all CCAM related activities in Europe*

## Policies & Regulations



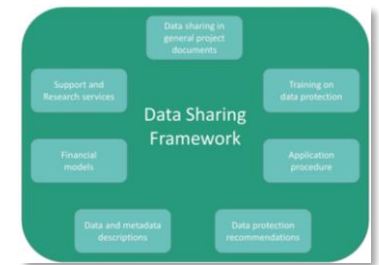
## Strategies & Action Plans



## News, Events, EUCAD



## Data Sharing Framework



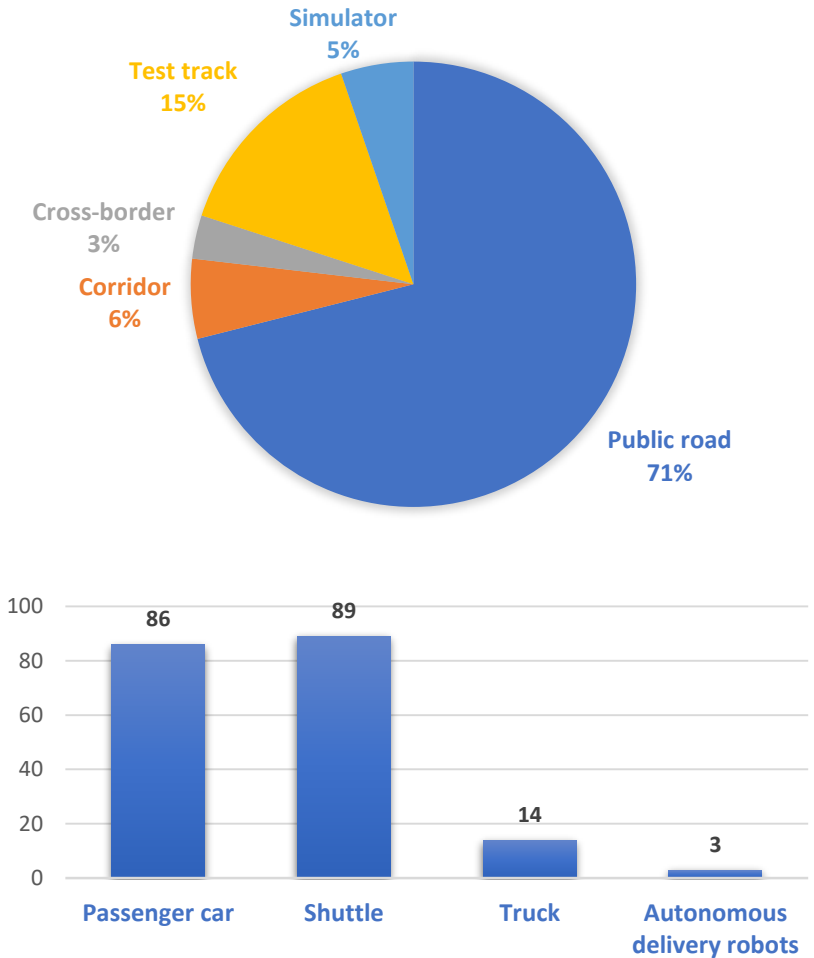
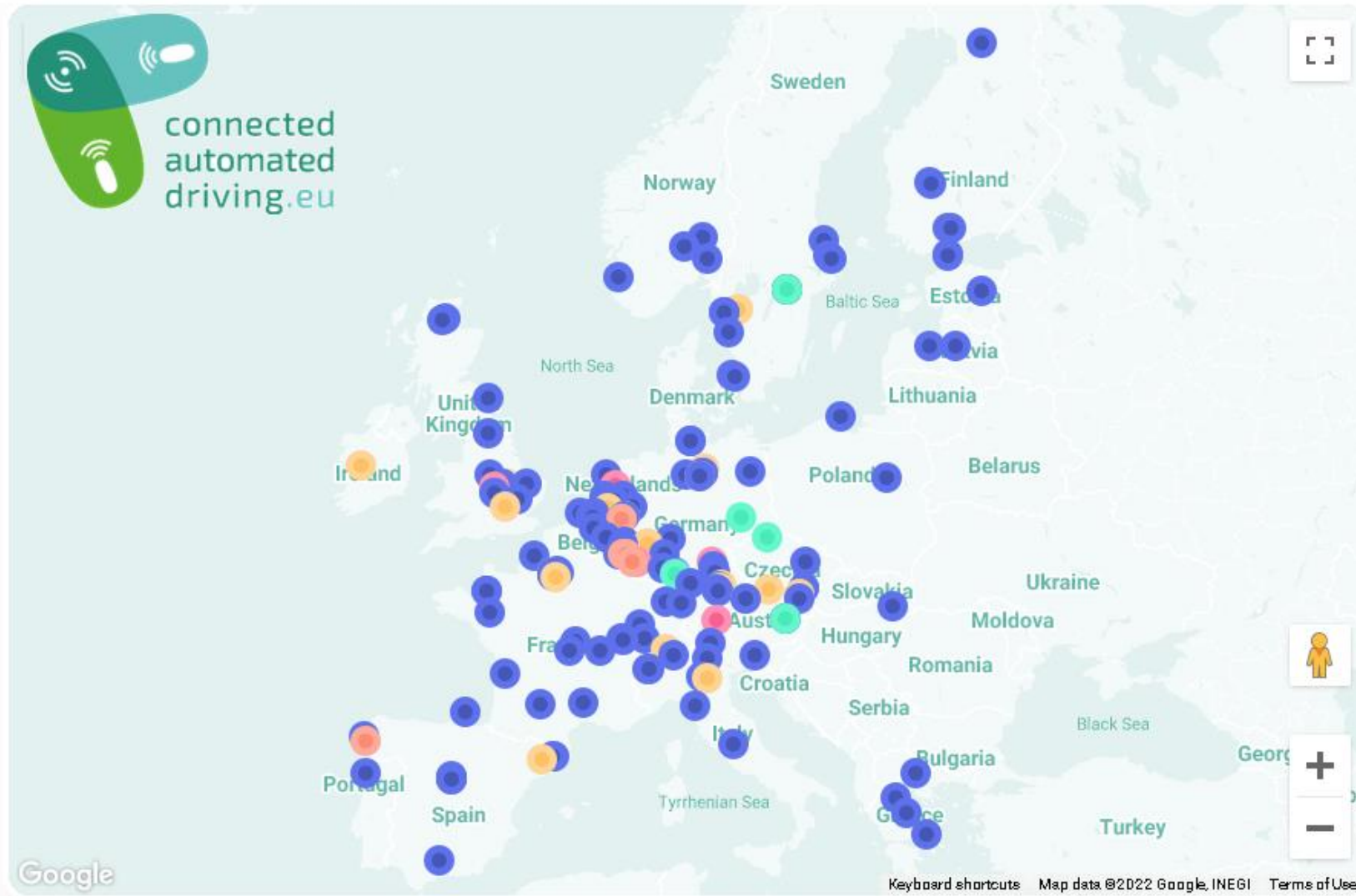
## Standards

Standards Collection

Standard Number	Title	Published on	Status
ISO 22747:2022	Performance evaluation of... (part 1) - Performance evaluation of... (part 1)	15/03/2022	Approved
ISO 22747:2022	Performance evaluation of... (part 2) - Performance evaluation of... (part 2)	15/03/2022	Approved
ISO 22747:2022	Performance evaluation of... (part 3) - Performance evaluation of... (part 3)	15/03/2022	Approved
ISO 22747:2022	Performance evaluation of... (part 4) - Performance evaluation of... (part 4)	15/03/2022	Approved
ISO 22747:2022	Performance evaluation of... (part 5) - Performance evaluation of... (part 5)	15/03/2022	Approved
ISO 22747:2022	Performance evaluation of... (part 6) - Performance evaluation of... (part 6)	15/03/2022	Approved
ISO 22747:2022	Performance evaluation of... (part 7) - Performance evaluation of... (part 7)	15/03/2022	Approved
ISO 22747:2022	Performance evaluation of... (part 8) - Performance evaluation of... (part 8)	15/03/2022	Approved
ISO 22747:2022	Performance evaluation of... (part 9) - Performance evaluation of... (part 9)	15/03/2022	Approved
ISO 22747:2022	Performance evaluation of... (part 10) - Performance evaluation of... (part 10)	15/03/2022	Approved

# Mapping the European CCAM Testing Landscape

~180 mapped sites from 58 projects



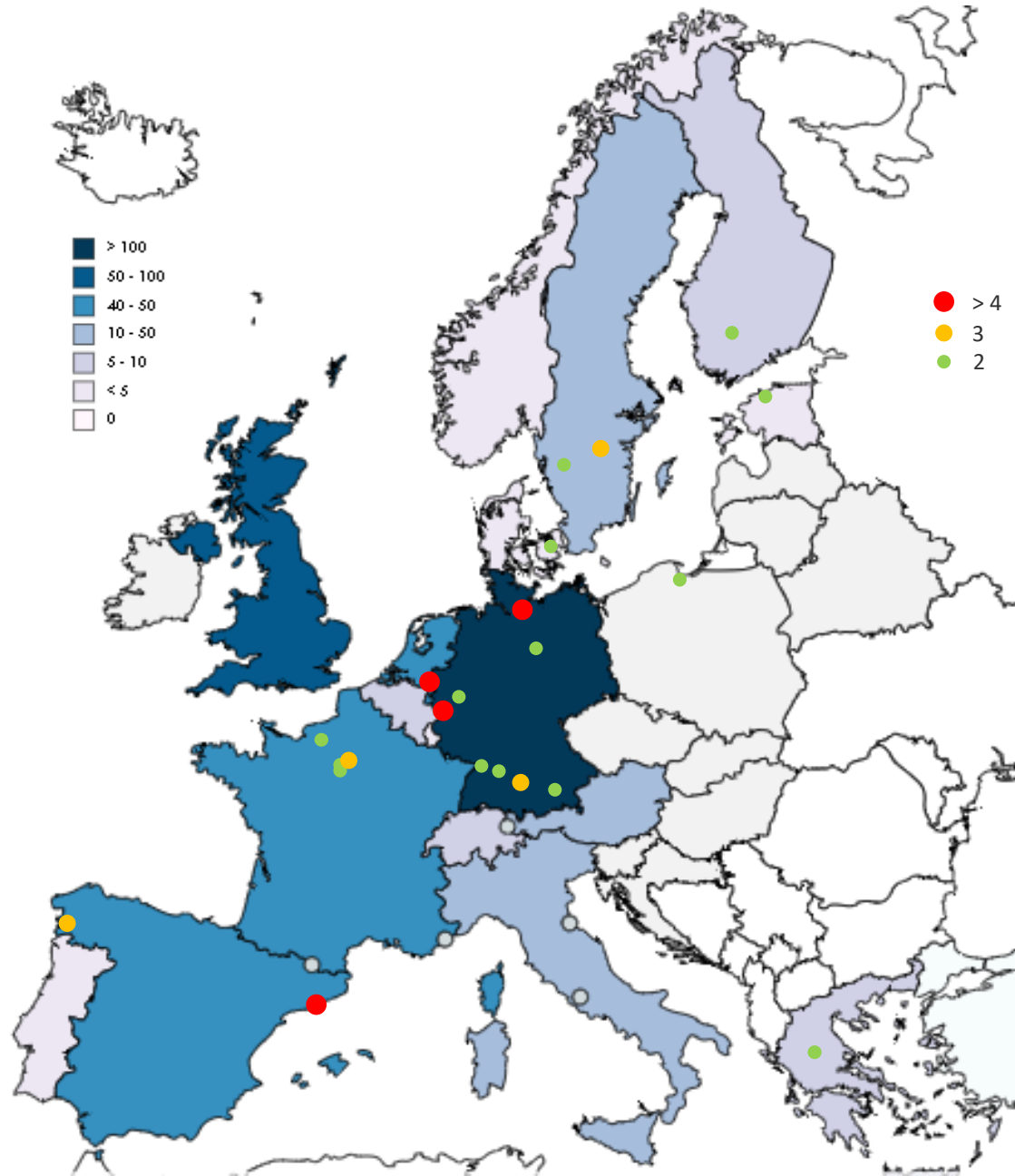
● Public road ● Corridor ● Cross-border ● Test track ● Simulator

Source: FAME Knowledge Base Status September 2022

FAME is funded by the EU Horizon Europe Work Programme

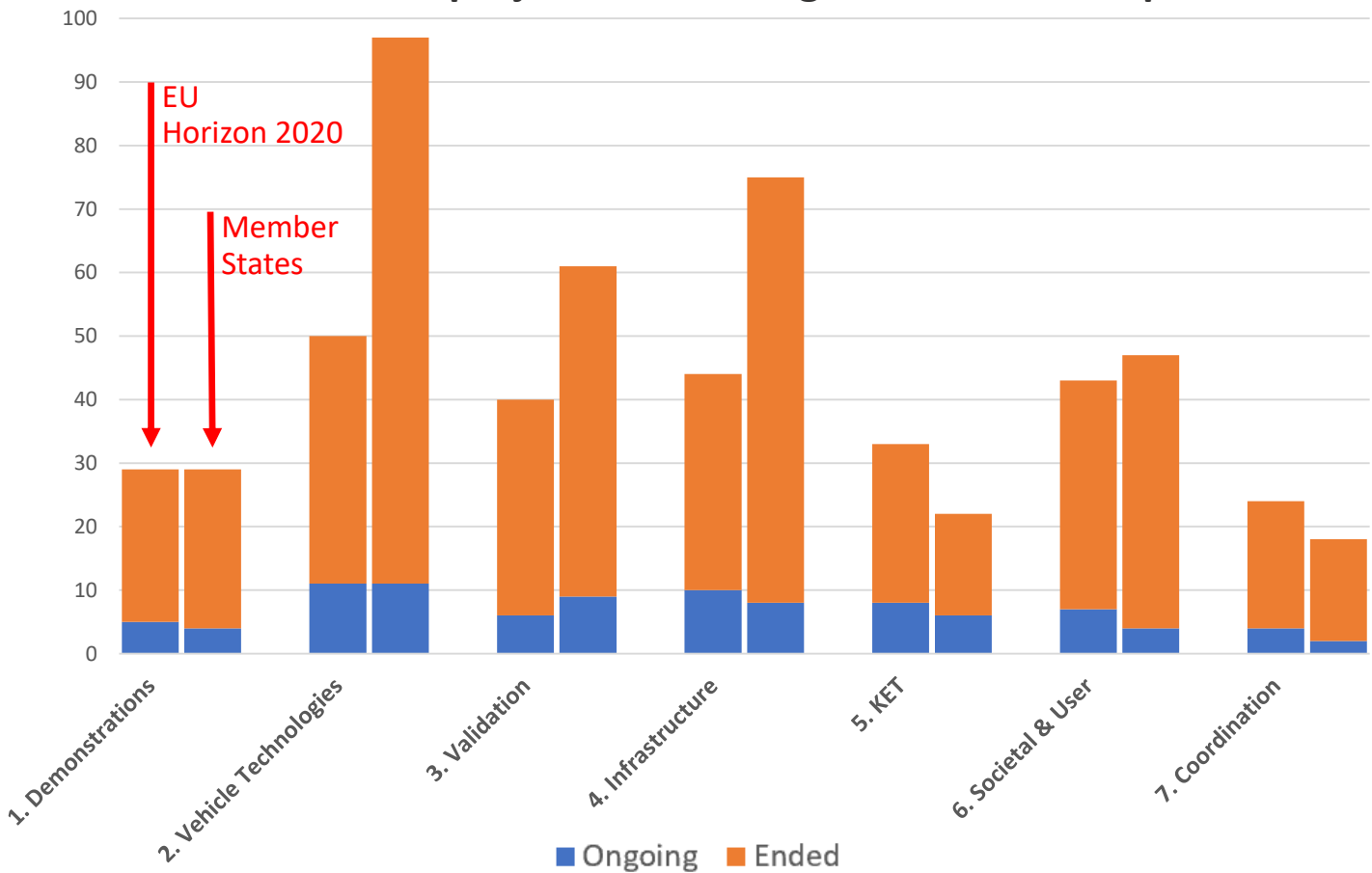


# European CCAM Hot Spots



# CCAM R&I Projects Analysis

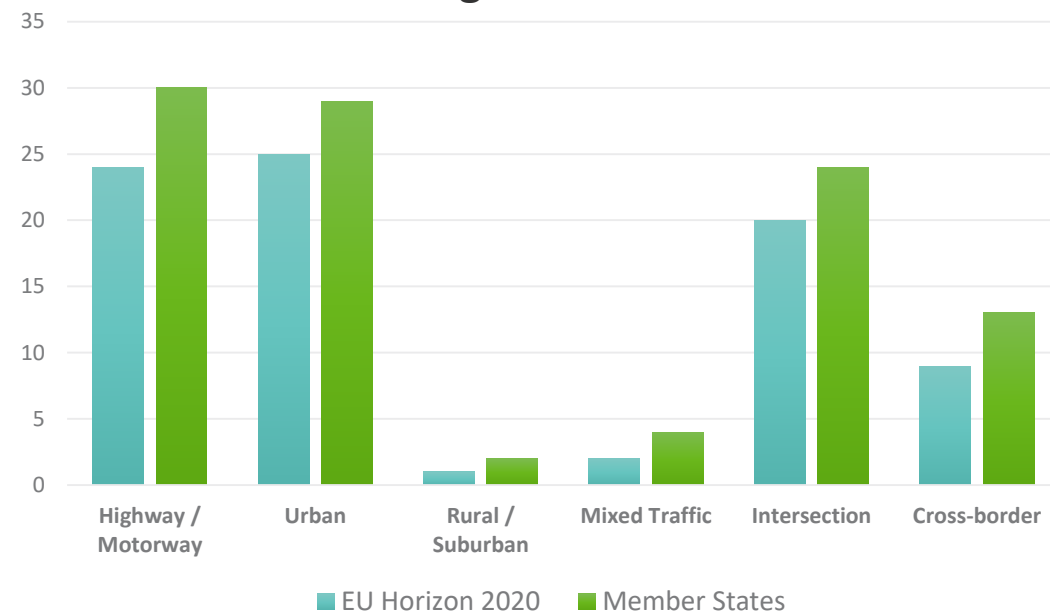
## Number of projects addressing CCAM Cluster topics



331 Projects as of 30 September 2022  
158 from Member States



## Driving Environment



# FAME

## Framework for coordination of Automated Mobility in Europe



European Commission funded  
Coordination and Support Actions

### VRA

2013 – 2016

### CARTRE

2016 – 2018

### ARCADE

October 2018 – July 2022

23 partners from 11 States

50+ associated partners

2000 subscribers

### FAME

July 2022 – June 2025

23 partners from 12 States



THE FAME PROJECT IS FUNDED BY THE  
EUROPEAN UNION HORIZON EUROPE  
WORK PROGRAMME

# Challenges

Lack of common vocabulary and common evaluation methodology

Different national policy and legal frameworks

Insufficient test data sharing

Fragmentation of R&I and scattered knowledge

Lack of consensus and engagement in knowledge sharing



Establish a **European framework for CCAM testing** activities on public road comprising taxonomy, the CEM, CCAM TDS and a legal & ethical framework



Develop a **common evaluation method (CEM)** that provides guidance on how to set up and carry out an evaluation or assessment of direct and indirect (wider socio-economic) impacts directed at different user groups.



Develop a **CCAM test data space (TDS)** to establish trusted data sharing between different types of stakeholders within the CCAM community.



**Engage the stakeholder network** of the CCAM partnership and enrich it by the broader European and international CCAM stakeholder community for the further development, alignment and exploitation of the content of the Knowledge Base and the development of a common methodology and testing framework

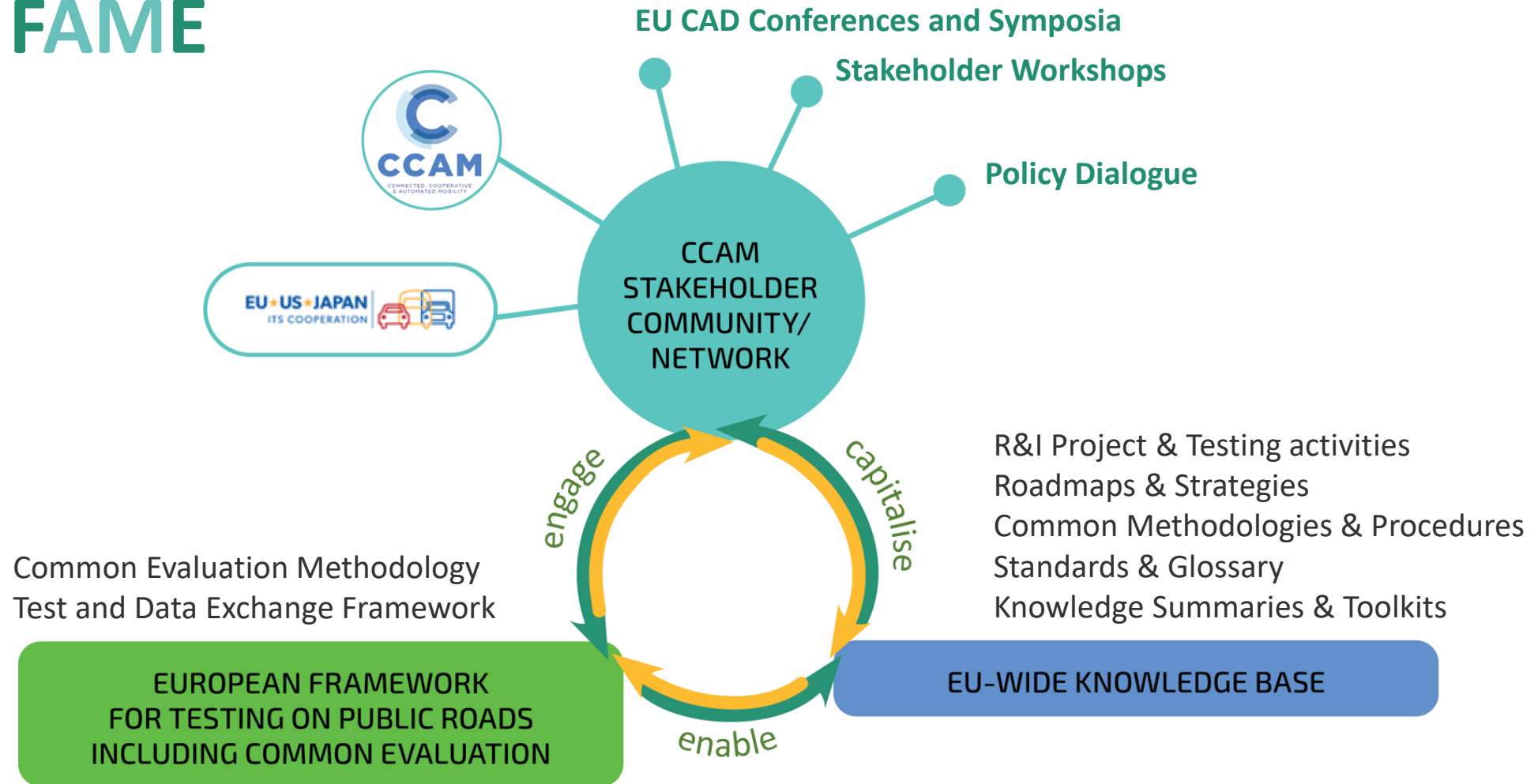


Enhance the **EU-wide Knowledge Base** with an efficient governance mechanism, ensuring continuous contribution from CCAM stakeholders to serve their needs and the CCAM partnership (*SRIA*)





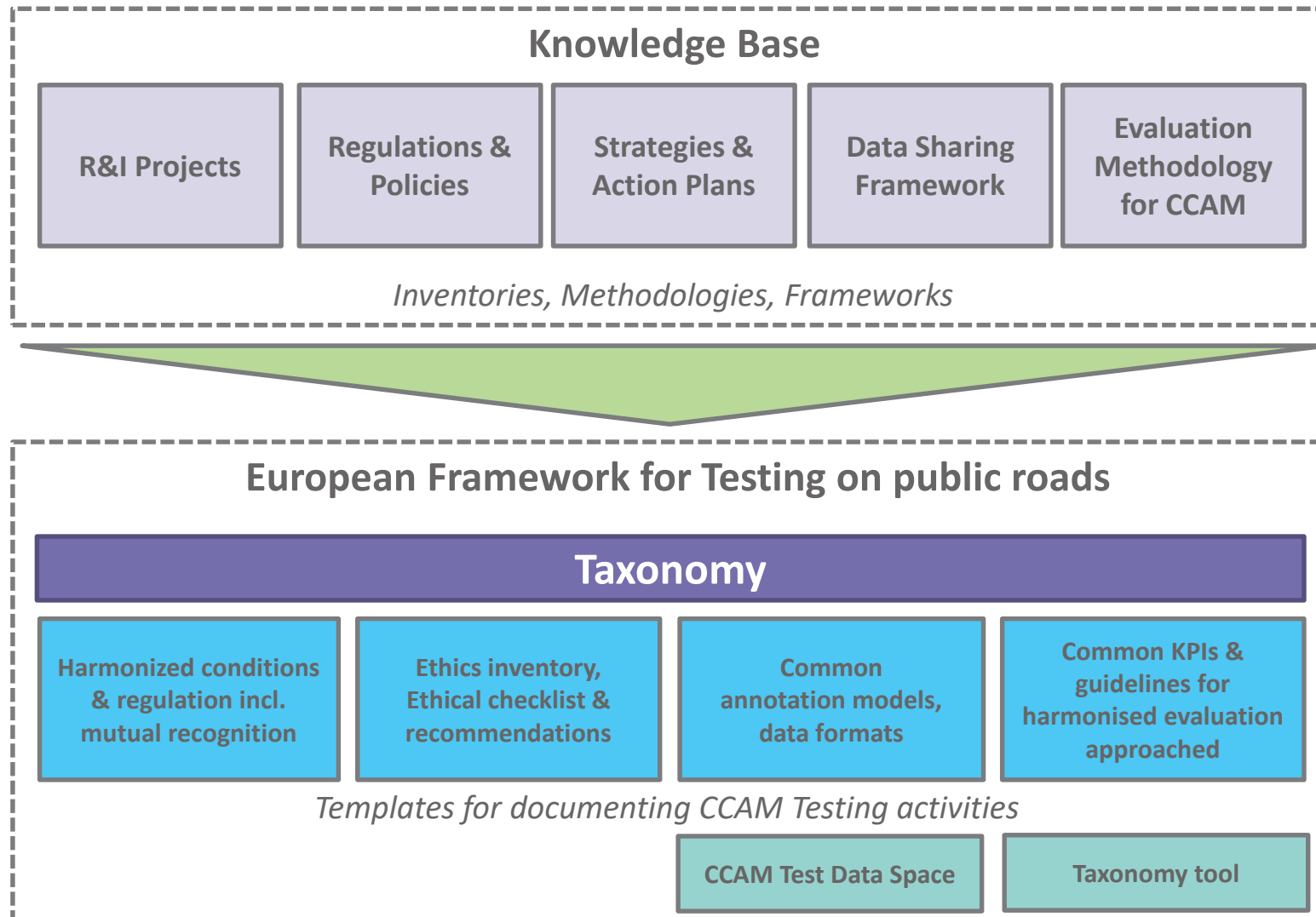
# FAME



<https://www.connectedautomateddriving.eu/>



# Building the EU Framework for Testing



## Support

- R&I Agenda
- Organisation & setup of pilots and demonstrations
- Moving into operations
- Member States alignment

## Target groups

- CCAM Stakeholders
- Authorities, Cities
- Decision makers
- Citizens,...





# Save the Date

3-4 May 2023

# CONFERENCE

## Connected and Automated Driving



# Thank you

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