



# FAME & CCAM Partnership Clusters

## CCAM Data Sharing & Test Data Space



PrepDSpace4Mobility

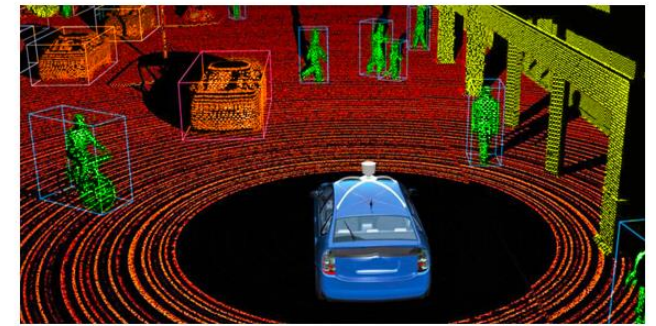
Dr. Stephane Dreher ERTICO – ITS Europe

PrepDSpace4Mobility Workshop  
10 May 2023 (online)

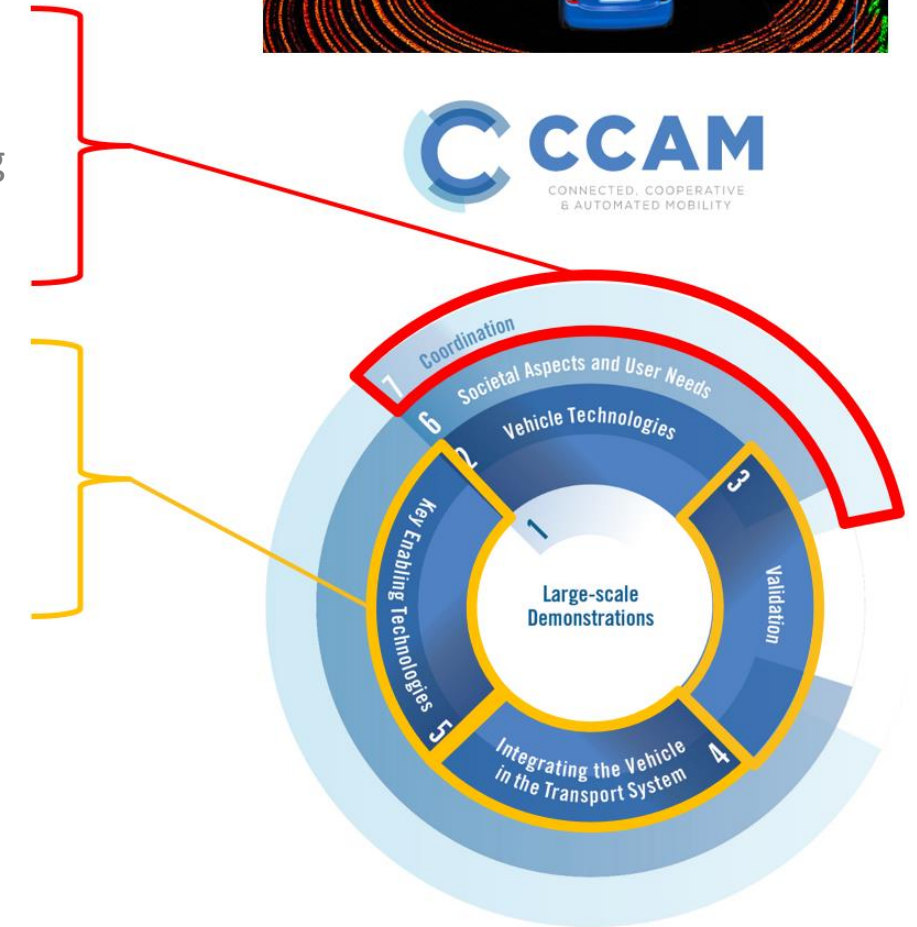
FAME is funded by  
the European Union Horizon Europe  
Work Programme



# CCAM Data Sharing Context & Challenges



- Many diverse tests are ongoing across Europe and coordination is needed for synergies between tests
  - Significant resources are spent collecting data – less resources analysing or re-using existing datasets.
- CCAM specific Use Cases require non-competitive data sharing
  - Safety & validation, ADS monitoring
  - AI training
  - Digital Twins
- EU Policy context: horizontal (EU Data Strategy) and sectoral (in-vehicle data, ITS Directive) legislation developments
  - Gap between mobility / logistics and CCAM data needs

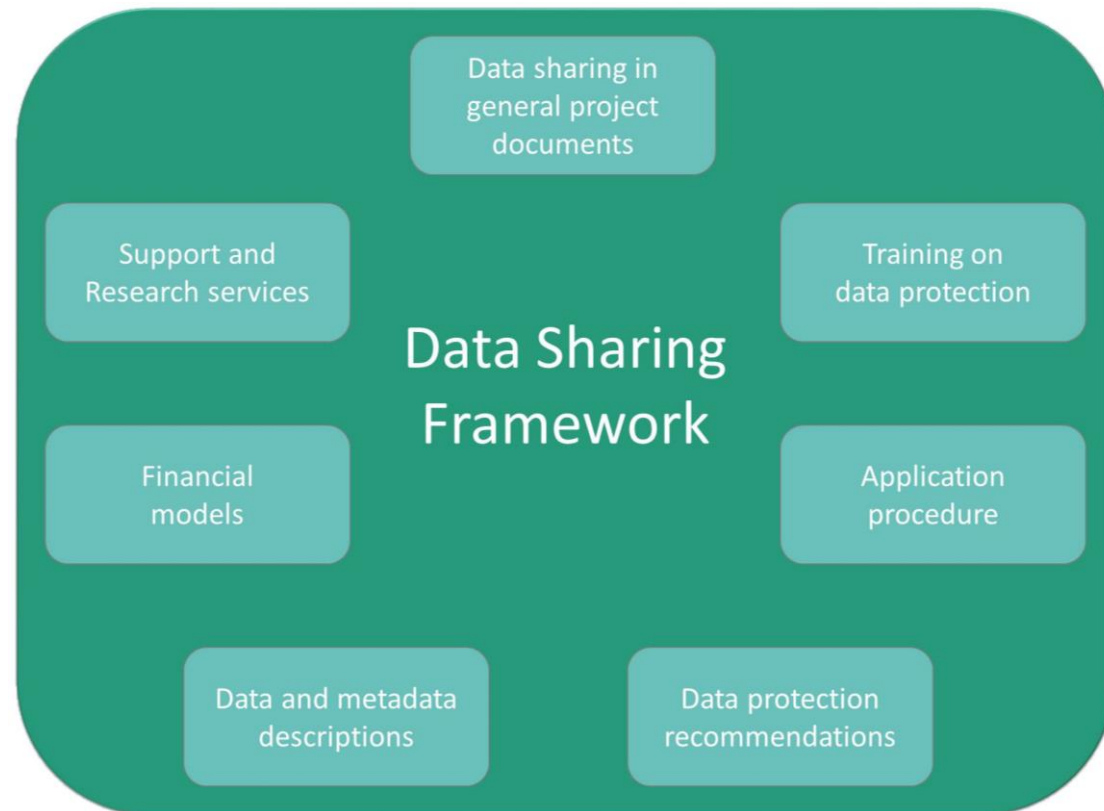


European Partnership on CCAM  
<https://www.ccam.eu/>

# Test Data Sharing Framework

## ARCADE CSA

- Oct 2018 – July 2022
- 23 partners from 11 States
- 50+ associated partners
- 2000 subscribers



The screenshot shows the 'Methodology - Data Sharing Framework' page on the website [connectedautomateddriving.eu](https://connectedautomateddriving.eu). The page includes a search bar, a navigation menu, and a main content area with the following text:

**Methodology - Data Sharing Framework**

The Data Sharing Framework (DSF) is based on needs from automation pilots and requirements from the General Data Protection Regulation (GDPR, REGULATION (EU) 2016/679). Updates based on the last years' of experience in implementing the DSF were included in the updated version (v1.1) of the framework.

The FOT-Net Data Sharing Framework consists of:

- project agreement content, including guidelines and checklists to facilitate data sharing in the agreements, which together with legal and ethical considerations are essential for data sharing. The project agreements include the grant agreement (the work), the consortium agreement, the participant agreement and the data sharing agreement;
- data and metadata description recommendations to facilitate the use of the data.

A 'Feedback form' pop-up is visible in the bottom right corner of the screenshot.

<https://connectedautomateddriving.eu/data-sharing/methodology-data-sharing-framework/>



ARCADE is funded by the EU Horizon 2020 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.

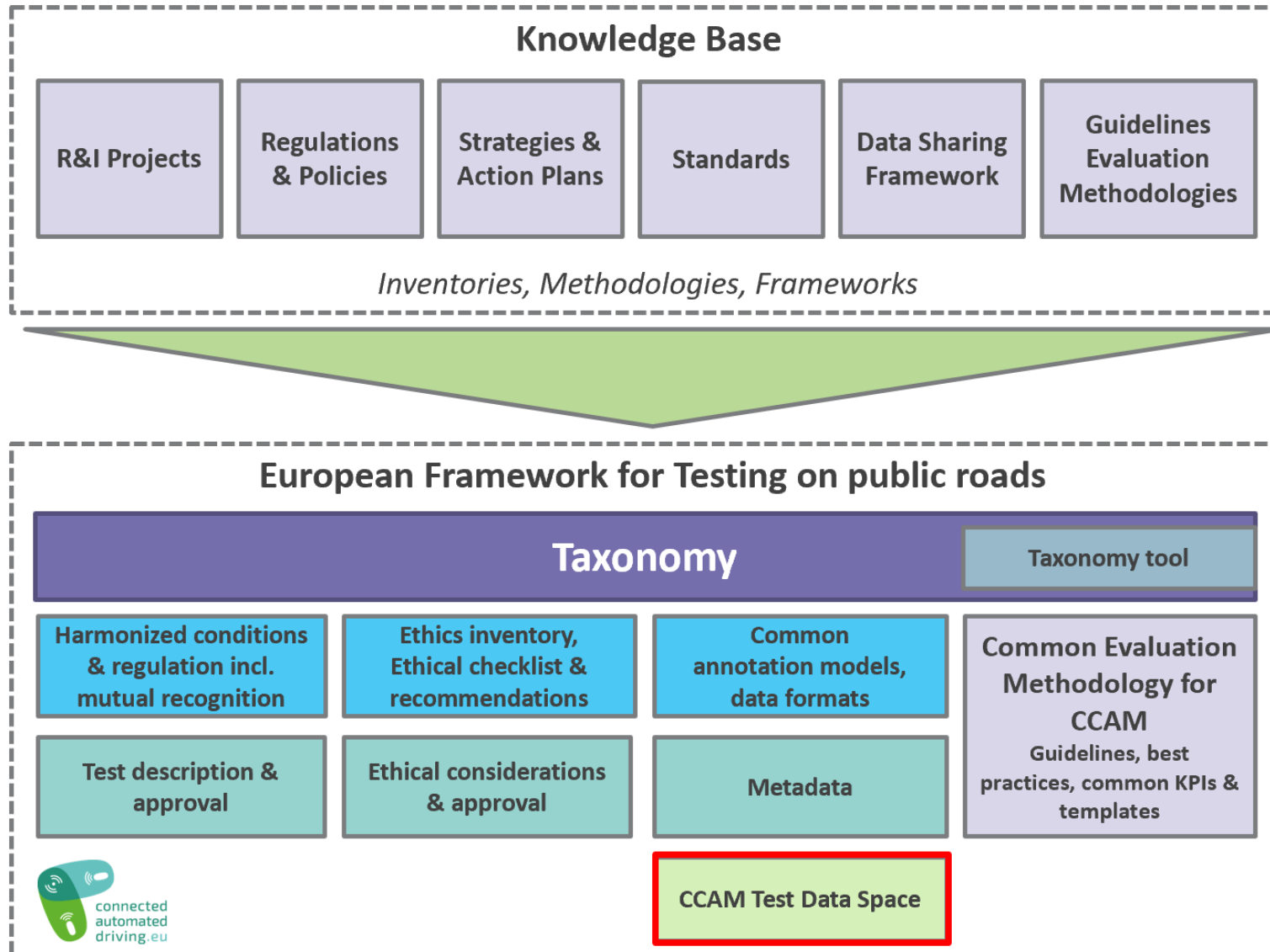


**Engage the stakeholder network** of the CCAM partnership and enrich it by the broader European and international CCAM stakeholder community for the further development, alignment and exploitation of the content of the Knowledge Base and the development of a common methodology and testing framework



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*)

# Building an EU Framework for Testing



## Test Data Space

- Collection of best practices on data sharing, data formats, labelling, access, processing and transfer
- Specification for a common open and accessible Test Data Exchange Platform
- Develop an annotation model
  
- Implement a Proof of concept based on an existing platform demonstrating technical and administrative aspects of CCAM test data sharing

# CCAM R&I Project Cooperation for the TDS

Large Scale  
Demonstrations



Vehicle  
Technologies



Integrating in  
Transport System



Validation



Key Enabling  
Technologies



Societal  
Aspects



FAME



# Next Steps for CCAM Data Sharing ?

## ARCADE

### Data Sharing Framework

- Recommendations enabling data re-use
- Focus on FOT and NDS
- Support for agreements and contracts, training, application procedures, financial models



## FAME

### Federated CCAM Test Data Space (TDS)

- Focus on facilitating test data exchange
- Build on principles of GAIA-X
- Implementing existing software platforms



### CCAM Safety Assurance Framework

- Method and toolchain for evaluation
- Federated EU scenario data framework and test case library



## Mobility Data Space



### CCAM Data Spaces

- Tools and datasets from CCAM Clusters
- Link to data providers and data users for CCAM services
  
- **FAME Test Data Space**
- **EU wide database of test scenarios**
- ...





# Thank You

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