Open Source Community Day •••• Co

23 - 24 September



Co-located with

CO CONNECT AIOTI Days 2025

COM TRUST & RESILIENCE

CONNECT Project

Focus: Integrate Trustworthiness in security & safety

CCAM



Estibaliz Arzoz Fernandez (Trialog)

Open Source Community Day **CONNECT Highlights**



CONNECT Continuous and Efficient Cooperative Trust Management for **Resilient CCAM**

Call/Topic

HORIZON-CL5-2021-D6-01-04 Safe, Resilient Transport and Smart Mobility services for passengers and goods

Project Grant Agreement: No. 101069688

Project Coordinator: Technikon

Budget: 21.9 M Euro Grant: 17.9 M Euro **Duration**: 36 months

Start Date: 1st September 2022

Number of Use Cases: 3

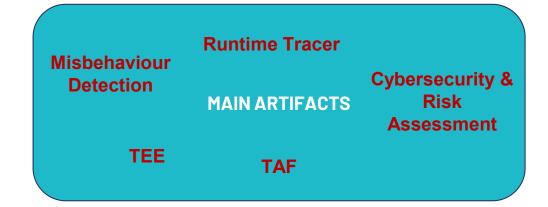
AI Trustworthiness CCAM

Vehicle 2X Ethics Trust DOMAIN

Computing In-vehicle services

Vision

Unlock the use of V2X messages for day2+ applications by enabling vehicles to quantify the trustworthiness of the exchanged data.



Open Source CONNECT Impact Video Community Day

 https://vimeo.com/showcase/connect-videoshowcase?share=copy



Open Source Objectives

Project objectives (Moving towards Zero Trust for CCAM)

- Creation of mechanisms for assessing dynamic trust relationships and defining a trust model
 and trust reasoning framework based on which involved entities can establish trust for
 cooperatively executing safety-critical functions. (Quantify Trust by reasoning under
 uncertainty).
- Defines and leverages attestation mechanisms to enable the establishment of trust relationships and trust calculations in next generation CCAM. This includes the integration of TEE technologies, which can offer guarantees and assurances for the establishment of trust through the required proofs/claims.
- Allow a vehicle to outsource calculations to the backend (MEC or cloud). To this end, we will
 design and implement a decision-making mechanism to determine which calculations need to
 remain on the vehicle and which can be offloaded on the infrastructure. Involves two parameter:

 a) the operational calculation and b) the trust calculations.
- Ethical dimension of Trust Management
- Simulation, Validation & Evaluation of CONNECT Framework



15/09/2025

Open Source Community Day

Open source strategy

Open SourceDevelopment Plan:

- 5 Artifacts as open source
- Validation of KERs through 3 Demos
- Assessment ISO/IEC 25010:2011 Product Quality Model.
- Validation in 2 iterations



https://linktr.ee/horizonconnect

Open source repositories:

- TAF
- TEE Libraries
- Runtime TRACER
- Foreseen
 collaboration with
 SDV Eclipse
 Working group
 (Eclipse Software
 Defined Vehicle)



Open Source Standardization & Impact Activity

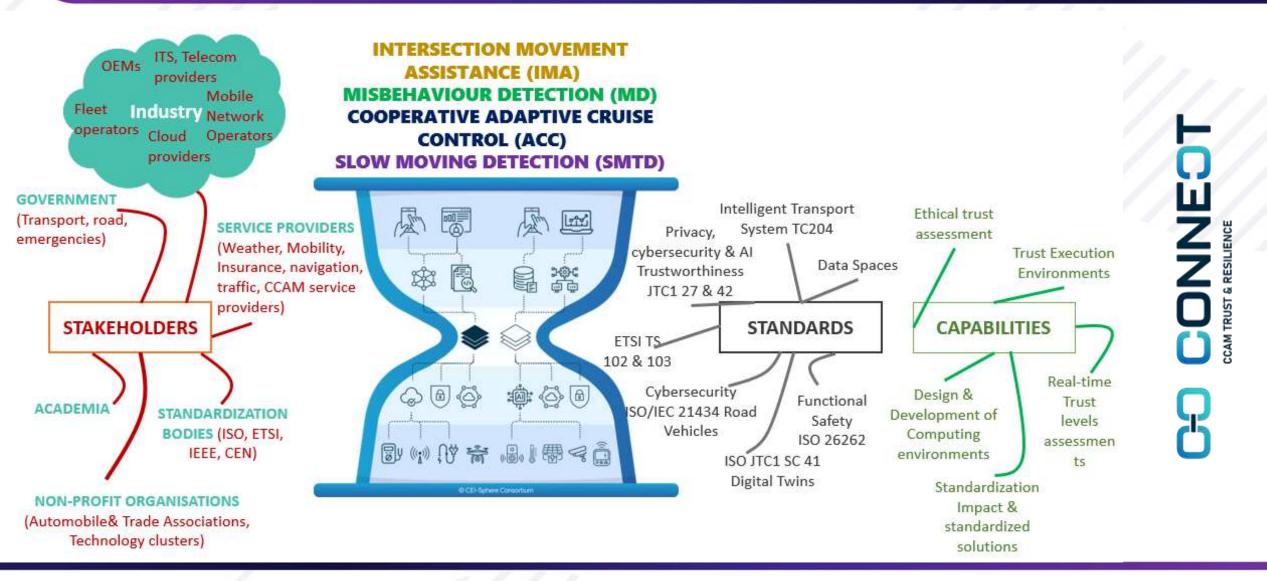
- **TRUST COMPUTING GROUP 204**
- **6** 5GAA Trust4Auto Working Item
 - White paper participation
 - CONNECT contributions
- **©** ETSI Security Week

 Presentation of CONNECT work
- **©** Contribution to ISO TC22/SC32/WG11 Road Vehicles
- **©** Contribution to ISO/IEC JTC1/WG13 Trustworthiness

- More than 21 Scientific papers in conferences
 - 8 Journal high level publications
- Workshop on Trustworthy AI
 - 8 Journal high level publications
- Ciaison-Clustering:
 - CCAM Association
 - Car2Car
 - CEPS WG on Post-Quantum Crypto



Open Source HOURGLASS MODEL APPLICATION Community Day



15/09/2025



Thank you

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