

**VERIFICATION AND
VALIDATION CHALLENGES
IN THE CCAM PERSPECTIVE**

Mr. Francesco Valentini, PhD

Project Manager - Network and Communication Engineer
Radiolabs
Italy

**LISBON
2023**

Mission

Radiolabs

A not-for-profit research centre including:



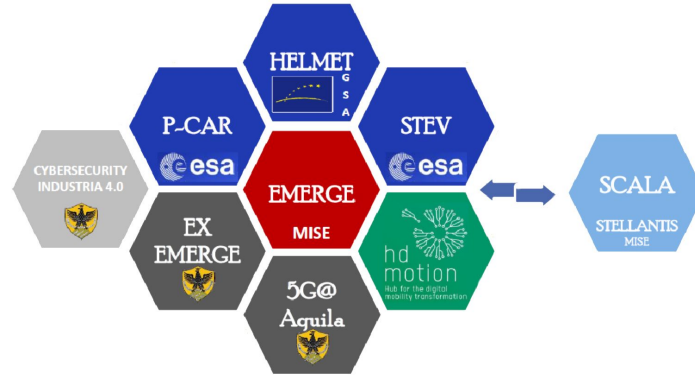
COMMUNICATIONS
5G - 6G - Satellite
FRMCS – V2X
Intelligence Defined Networks

GEO LOCALIZATION
High Accuracy High Integrity
Applications
Multi Sensors and Hybrid Systems

CYBER SECURITY
Secure Communications
Resilient GNSS signal processing
Intelligence Defined Security

- Innovation and technology transfer
- Enabling technologies for autonomous driving
- Laboratories for supporting validation & certification

Radiolabs Projects Ecosystem



National project for the development and validation of **KET for the connected vehicle** (*connectivity, positioning, cybers and cloud/edge*).

A laboratory funded by ESA for **safety and performance evaluation of GNSS-based positioning systems** for the CCAM of the near future.



Verification and Validation Challenges

Complementary
Testing Approaches

Many Stakeholders
Involved

VERIFICATION AND VALIDATION IN THE CCAM PERSPECTIVE

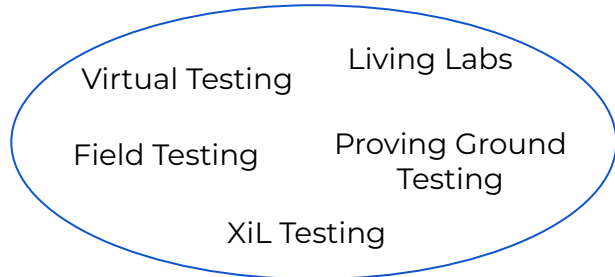
Multiple
Key Enabling
Technologies

What will be
Needed

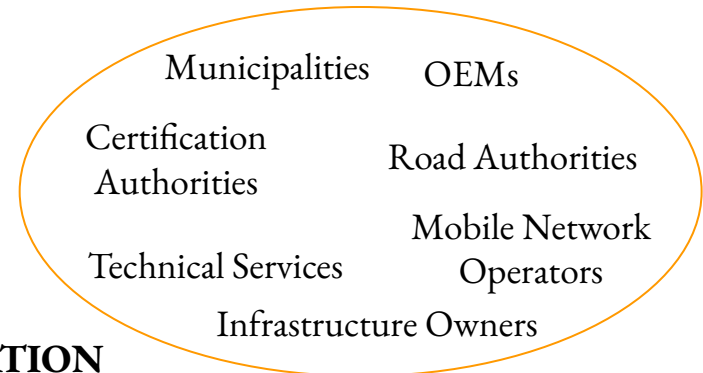
Synergies and
Lessons Learnt

Verification and Validation Challenges

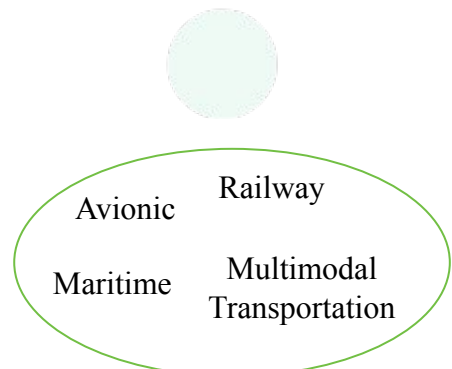
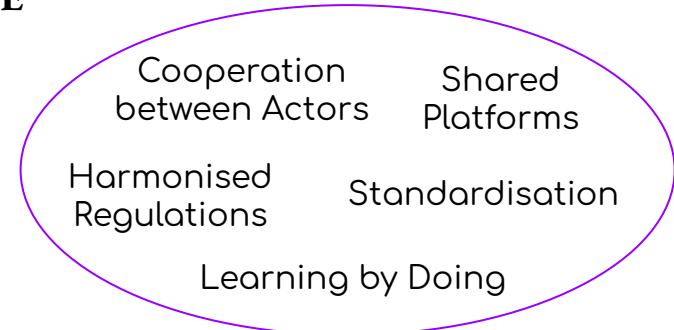
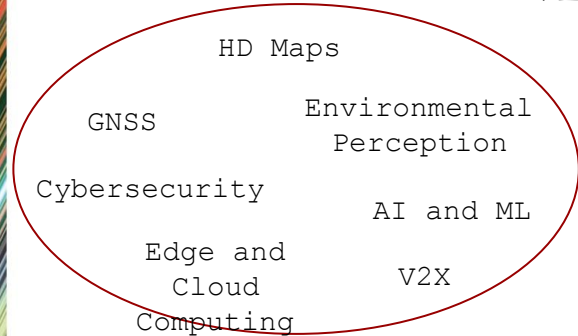
Complementary Testing Approaches



Many Stakeholders Involved



VERIFICATION AND VALIDATION IN THE CCAM PERSPECTIVE



Multiple Key Enabling Technologies

What will be Needed

Synergies and Lessons Learnt



ITS:
The Game
Changer.



**EUROPEAN
CONGRESS**

**LISBON, PORTUGAL
22-24 MAY 2023**

ITS: The Game Changer.

Thank you!