



1ST CORAI SUMMIT ON THE FUTURE OF AUTONOMOUS MOBILITY



European Committee
of the Regions

SISCOGA^{4CCAM} - Test Bed for Connected & Automated Driving

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EVOLUTION OF MOBILITY: KEY MACRO-TRENDS



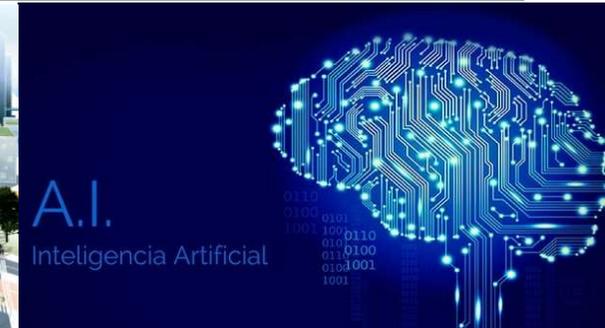
Aging of the population



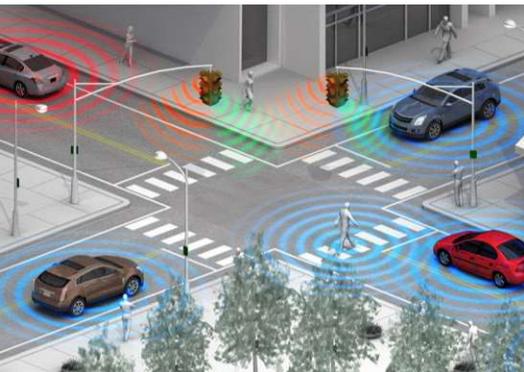
Increase of urban population



Intelligent Infrastructures



Artificial Intelligence



Connected Vehicles



Autonomous Vehicles

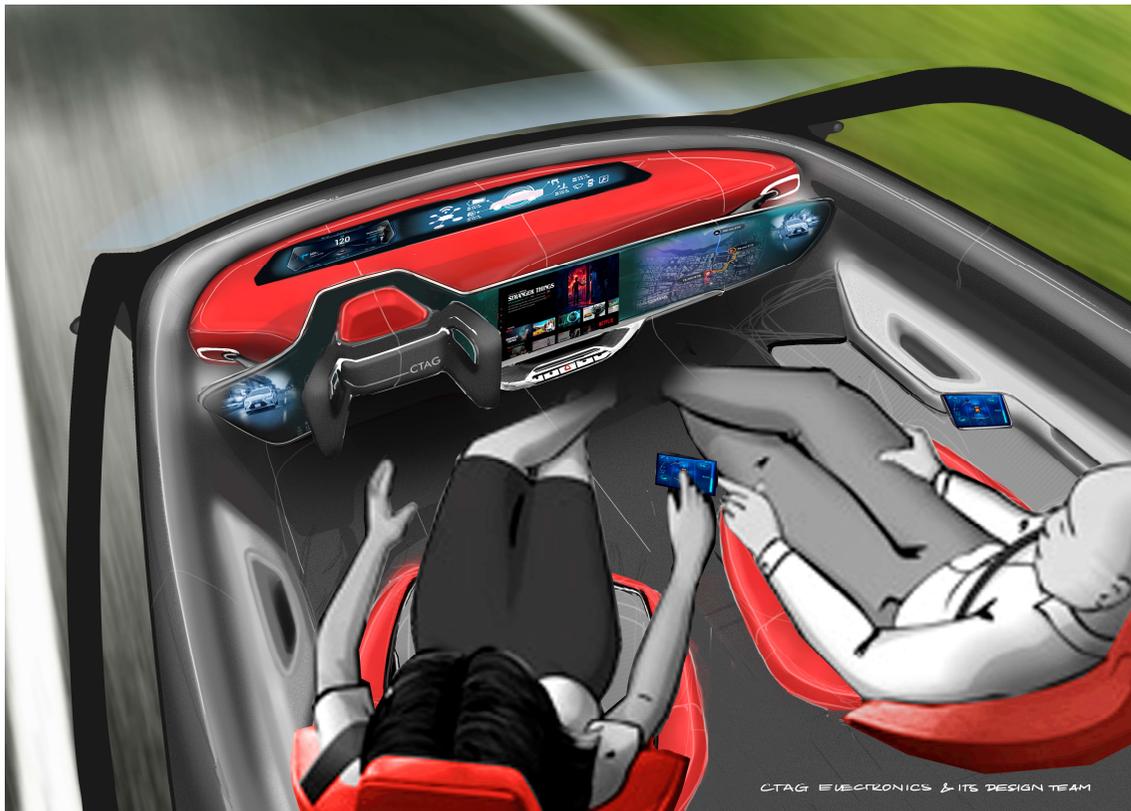


Electrification



MaaS

NEXT GENERATION VEHICLES

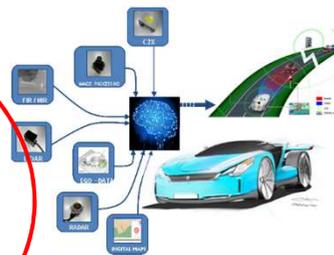


SMARTER
CLEANER
SAFER
AUTOMATED
CONNECTED

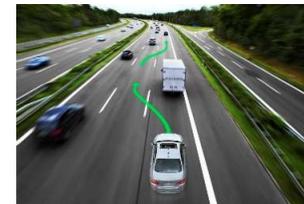
AUTONOMOUS DRIVING CHALLENGES



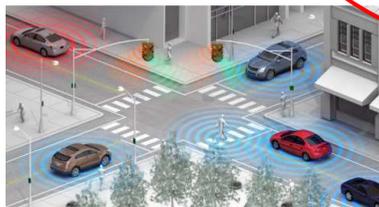
Testing and Validation



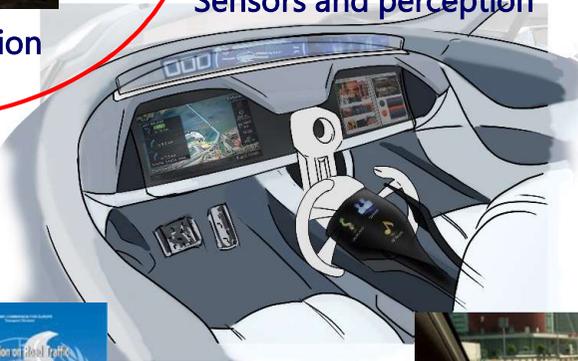
Sensors and perception



Functions and control



Connectivity



HMI and Human Factors

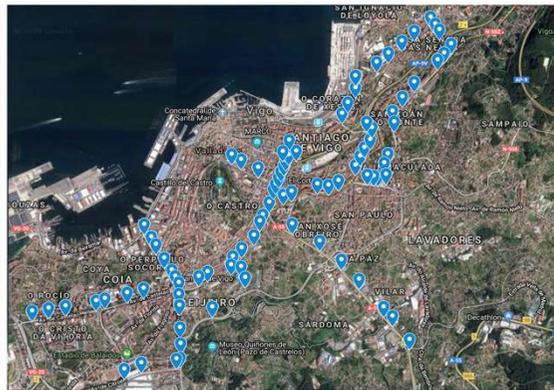
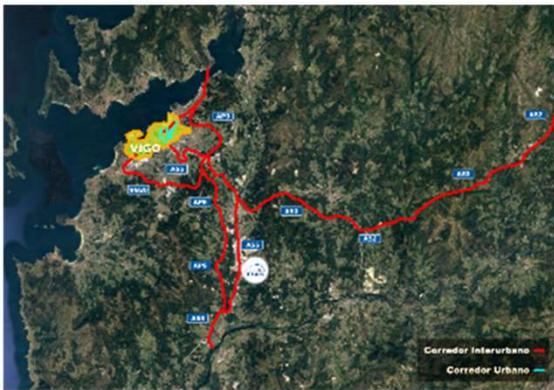


Road and infrastructure adaptation

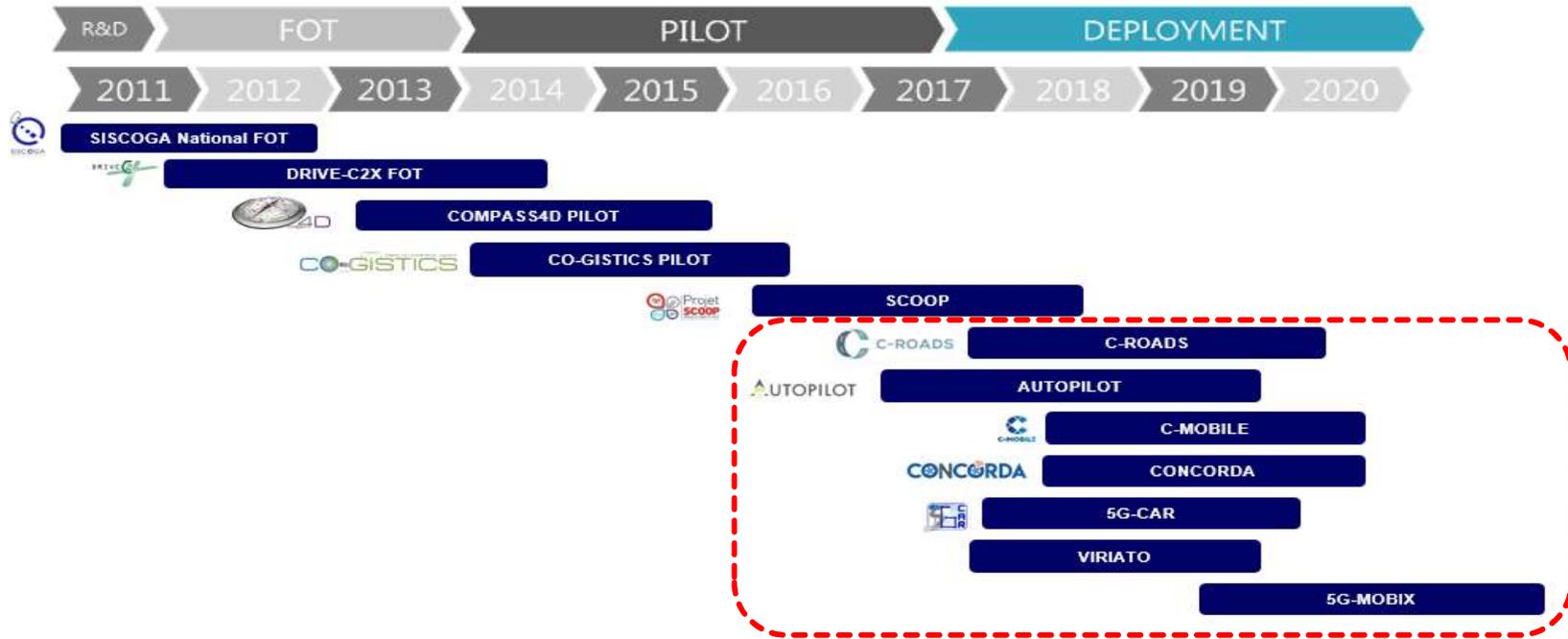


Legislation

SISCOGA⁴CCAM TEST-BED



SISCOGA^{4CCAM} TEST-BED. EU PROJECTS AND PILOTS

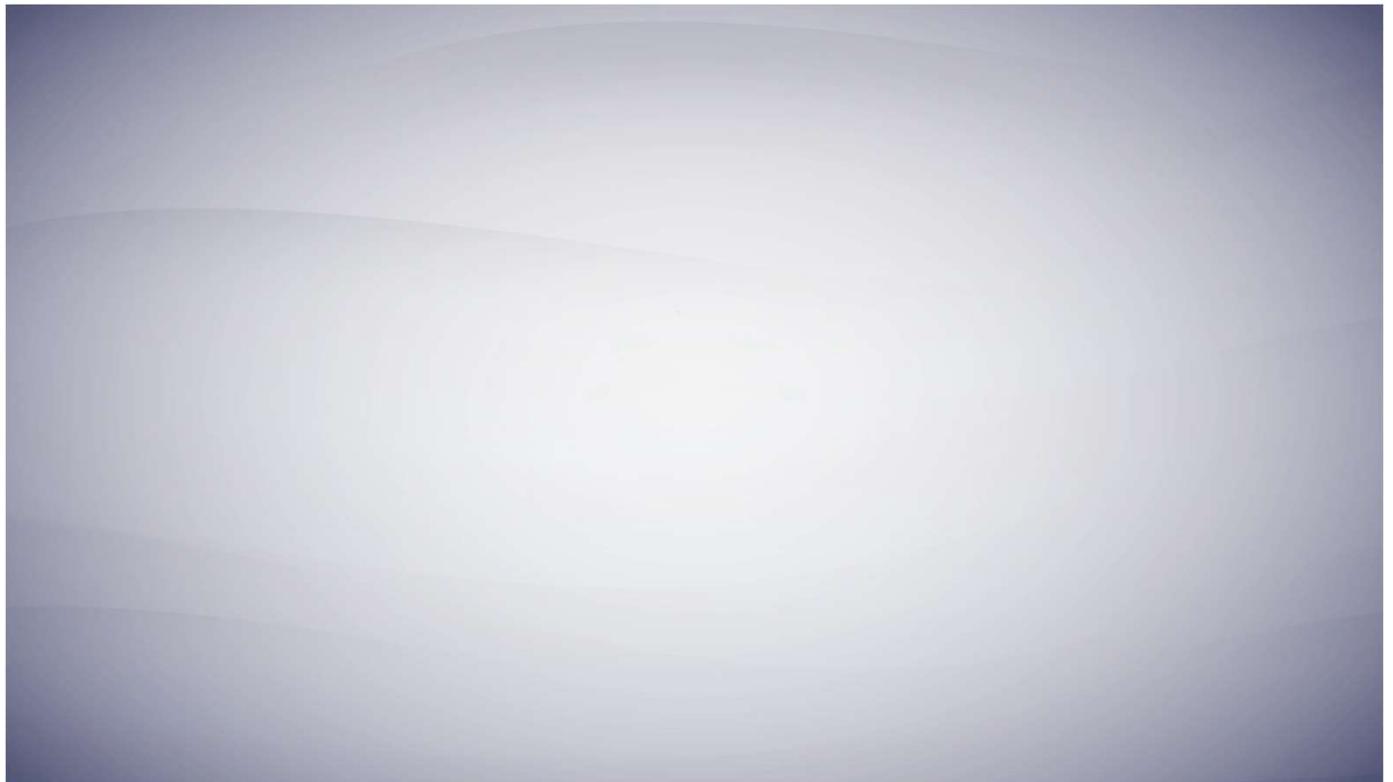


KEY FEATURES OF THE PROJECT

- **Objectives:** To create and maintain a permanent European Test-bed for early testing of CCAM (Cooperative Connected Autonomous Mobility), including CCAM Labs, CCAM Proving Grounds and CCAM Open roads with cross-border capabilities
- **Time frame:** Permanent
- **Stakeholders:** Regional and National Administrations (Xunta Galicia, DGT, ...), OEMs (PSA, ...), Telecom operators (Telefonica, Vodafone, ...), Infrastructure providers (Ferrovial, ICEACSA, Nokia, Ericsson, ...), Fleet operators (Vitrassa, ALSA, taxis, ...)
- **The potential of the project in the región.** Automotive, road transport and TIC are key industries in the Galician Region and therefore CCAM opportunities will significantly influence the mid-long term regional economy
- **Investment opportunities.** Attraction of new CCAM projects and activities to Galician Region. Fast deployment of new CCAM technologies in the region increasing new business opportunities.
- **Possible transnational cooperation for Innovation.** Galician stakeholders are keen on transnational cooperation through R&D European programmes related to CCAM. Specific strong cooperation with Portugal.

MAIN ACHIEVEMENTS

- An **already operative South European innovative CCAM Testbed** that is participating in key European R&D common efforts (i.e. CONCORDA, AUTOPILOT, 5G-MOBIX, ...) and that allows close to deployment ADAS and AD testing with OEMs and Tier1 suppliers
- Creation of many new R&D **high level jobs** in the region in the ADAS and CCAM domain, training present and new engineers in the key technologies related to this field.
- **Test of new mobility and transportation concepts** in the region thorough the different R&D projects and pilots.
- **Early engagement of final users** and citizens in CCAM Field Operational Test activities



AMBITIONS FOR THE FUTURE REQUEST TO:

- Regional government:
 - To continue the efforts to enhance CCAM testing capabilities with new testing facilities
 - To support the deployment of new connectivity technologies and intelligent infrastructures in the region
 - To promote new training courses and programmes in new CCAM related key technologies (5G, artificial intelligence, ITS, ciber-security, ...)
 - To explore specific needs and requirements to support rural CCAM use cases

- National government:
 - To evolve the legislative framework to facilitate and to accelerate testing and deployment of CCAM solutions
 - To support regional governments strategies related to CCAM

- European Commission:
 - To promote a harmonised European approach for CCAM and accelerate the use of common standards and legislative framework
 - To create a European network of regional CCAM test-beds to accelerate common deployment and to better use the European capabilities
 - To push the improvement and adaptation of road infrastructure including road classification in terms of autonomous level supported

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