



1<sup>ST</sup> CORAI SUMMIT ON THE  
FUTURE OF AUTONOMOUS MOBILITY



European Committee  
of the Regions

BRUSSELS, 9/10/2019

# Navarra Automotive Testing Zone

Dr. Nere Garmendia

## BACKGROUND

### NAVARRA AND THE REGIONAL INNOVATION SMART SPECIALIZATION STRATEGY (RIS3)

Nafarroako  
Gobernua  Gobierno  
de Navarra



  
NAFARROA **S<sup>3</sup>** NAVARRA  
Garapen Estrategia Estrategia de Desarrollo

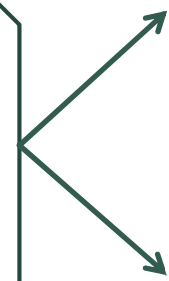


24 CHALLENGES

2017: Smart Specialization Strategy (S3)

#### 1st challenge

- Directing the capacities of the industrial sector of automotive towards the development of the electric vehicle and its components, as well as to favor the development and implementation in Navarra of new mobility solutions (electric vehicle, autonomous driving ...).



 **NAITEC**  
CENTRO TECNOLÓGICO DE  
AUTOMOCIÓN Y MECATRÓNICA

 **NA VEAC**  
sustainable  
mobility

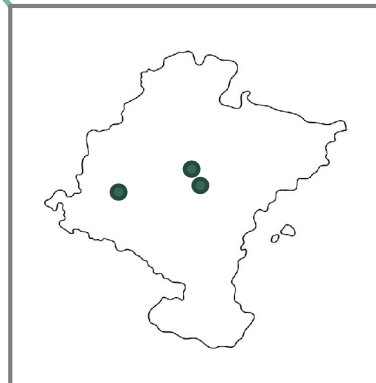
Pioneering  
territory



Navarra  
Automotive  
Testing Zone  
project

# NAITEC

## AUTOMOTIVE AND MECHATRONICS TECHNOLOGY CENTER

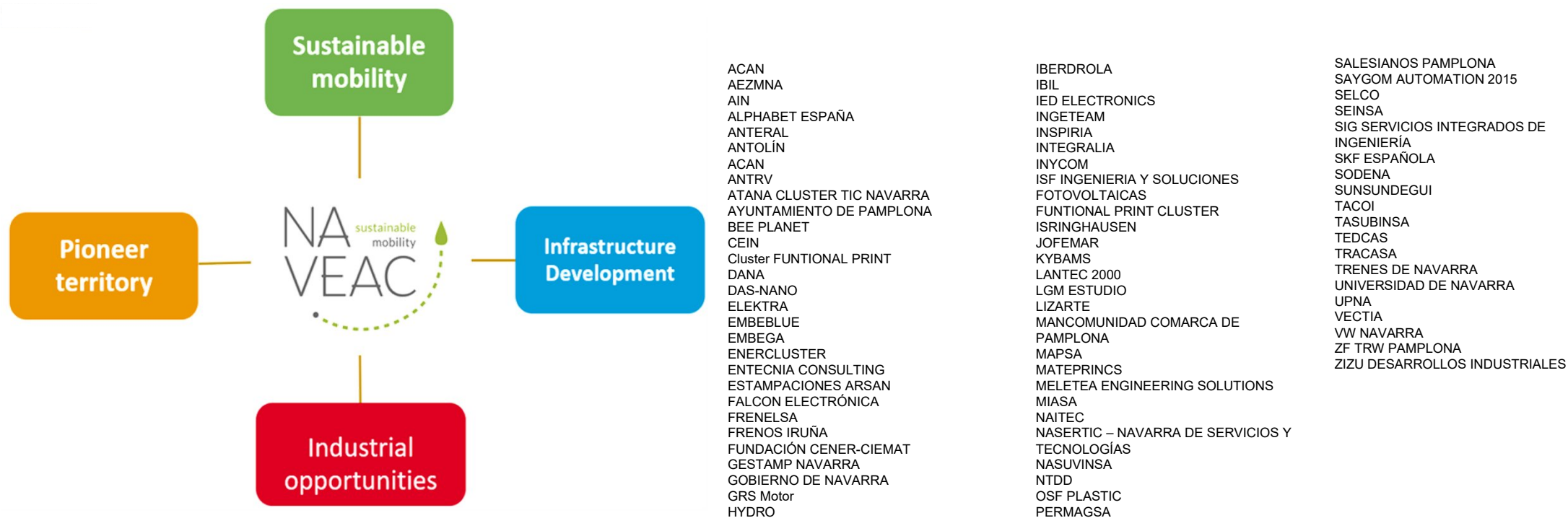


- A **Technology Center** with a vocation to generate value in the **Automotive and Mechatronics** sector, both in the challenges that arise on a day-to-day basis, and in the future challenges associated with the new concepts of mobility.
- Supporting and advising the transition to **smart factories and processes**.
- Providing **innovative solutions** in which the knowledge, experience and professionalism of our teams are a differential value.
- Promoting **alliances** with other agents whenever necessary.

# NAVEAC

## NAVARRA AUTONOMOUS AND CONNECTED ELECTRIC VEHICLE

- **NAVEAC:** Automotive Platform 2017-2020 to foster the sector transformation towards electrical vehicles and new mobility solutions (self-driving and connected vehicles).

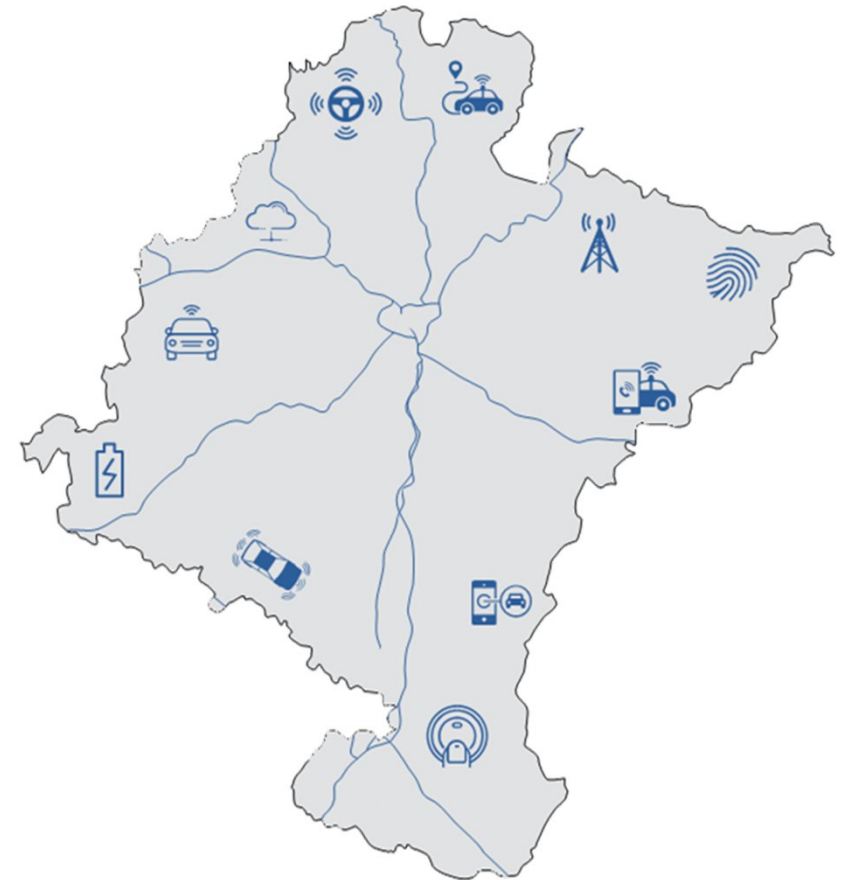


# NAVARRA AUTOMOTIVE TESTING ZONE

## WHY?

### NAVARRA: UNIQUE AND INTERESTING SINGULARITIES

- **Competences in traffic matters**
  - Competence to cut, limit, and manage traffic
  - Full competence in road construction and maintenance in Region
- **Great geothermal, bioclimatic and human variety**
  - 3,823 km road length
  - Orographic routes diversity
- **Radio-fiber connectivity throughout Navarre**
  - 4G-5G Network
  - Government of Navarre fibre Network
  - Telecommunication Centers Network
  - 2 Data Centers
- **Precision and intelligent cartography on all tracks**
- **Strong automotive industry**
- **Innovation and Technological solutions**

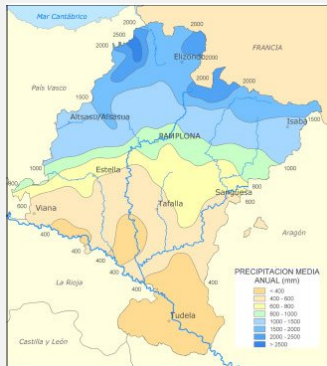


# NAVARRA AUTOMOTIVE TESTING ZONE

## SINGULARITIES: FACTS



Fiber network



Climate variety

**AUTOMOTIVE INDUSTRY**  
**ACCOUNTS FOR A**  
**QUARTER OF INDUSTRIAL**  
**GDP, WHICH IN TURN**  
**REPRESENTS 29% OF**  
**ITS REGIONAL GDP**



DIRECT  
JOBS

12,000  
4,3 %



SUPPLYING  
COMPANIES

+100



REGIONAL  
GPD

6 %



TURNOVER

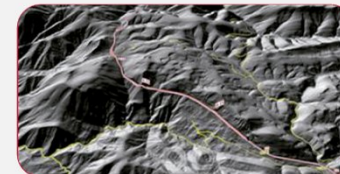
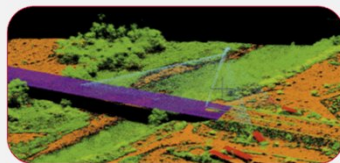
5,100m.  
25 %



MANUFACTURED  
CARS

300,000  
units

Orographic routes diversity



Regional traffic  
competences





# TRACASA

## AMBITIONS FOR THE FUTURE



# tracasa

Nafarroako  
Gobernua  Gobierno  
de Navarra

Company in Navarre located at the ecocity of Sarriguren

National and international projects focused  
in Geospatial Information management

**37**  
Years  
experience

**90**  
High Qualified  
people

**>500**  
Clients

**7M €**  
Annual  
Turnover



1<sup>st</sup> CoRAI Summit on the Future of Autonomous Mobility



## HD Mapping



## 3D Models

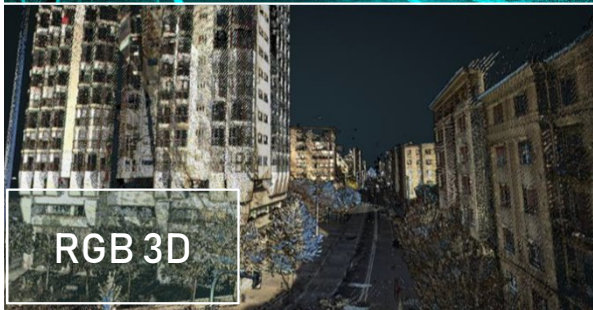
Mapping



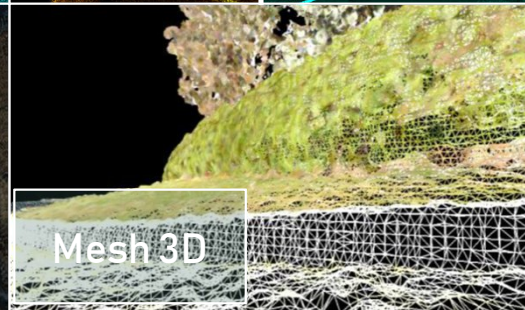
Infrastructures



RGB 3D



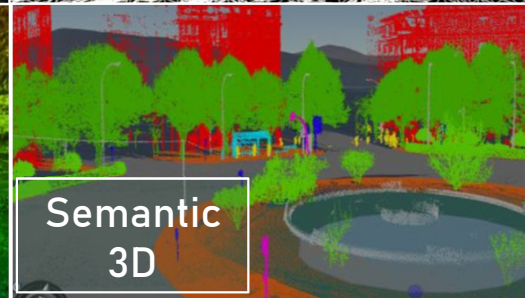
Mesh 3D



DEM



Semantic 3D



## Simulation and Lab





# NAVARRA AUTOMOTIVE TESTING ZONE

## AMBITIONS FOR THE FUTURE REQUEST TO:

- Regional government:
  - Increase in R&D fundings for sustainable mobility
    - Electric car and other energy sources
    - New materials: weigh reduction and/or advanced functionalities
    - New fabrication processes
- National government:
  - Investment for the creation of a national network for autonomous vehicle testing
- European Commission:
  - Creation of a European testing zone network.
  - European standard system for connected and autonomous vehicle



# NAVARRA AUTOMOTIVE TESTING ZONE

## THE TEAM & CONTACTS



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