

H2020 Transport 2016 call

Brokerage event
November 5th 2015

CI3: Centre for Innovation In smart
Infrastructures



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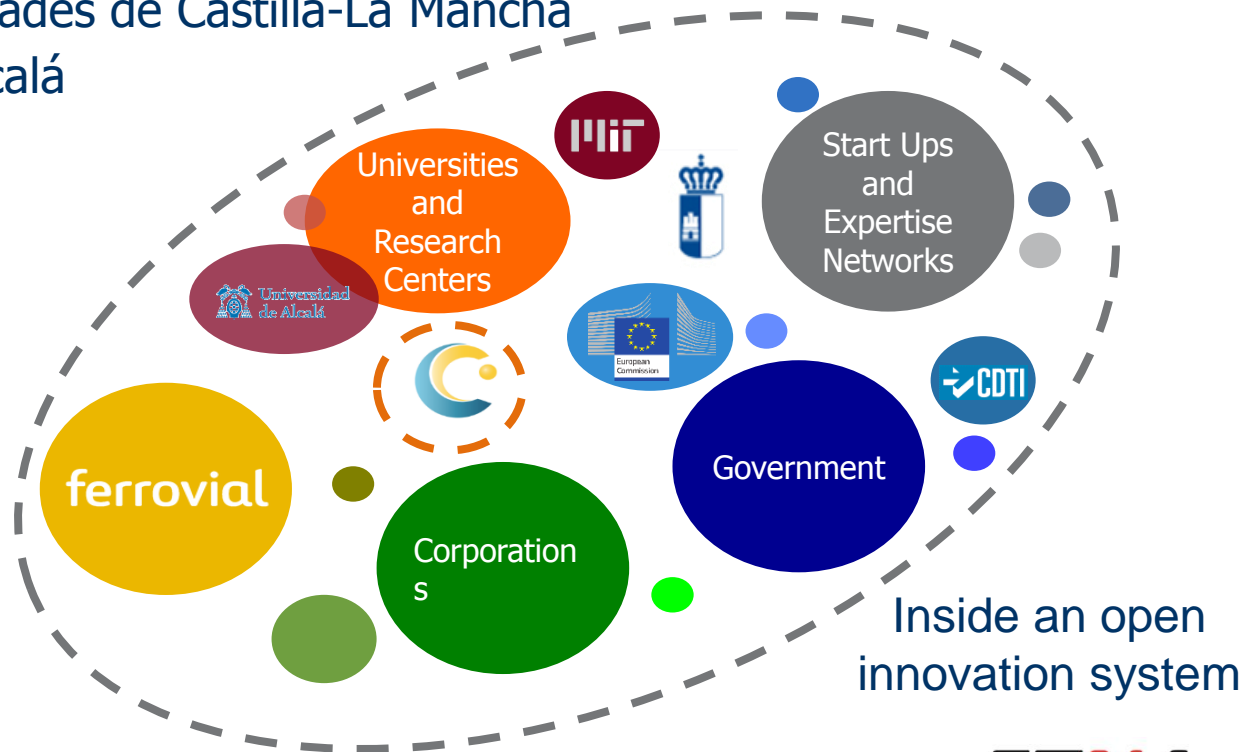
✓ **Non profit Foundation since 2010**

✓ **Trustees:**

- Junta de Comunidades de Castilla-La Mancha
- Universidad de Alcalá
- Ferrovial

✓ **Location:**

- Guadalajara



CI3: Centre for Innovation In smart Infrastructures



AIMS – CI3

- **Promotion & development** of IT technologies applied to infrastructures.
- Creation of an specific environment for **smart, social & eco-efficient** projects.
- Promotion of innovative solutions and technological services for advanced infrastructure projects, both in **urban and interurban environment**.
- Encourage hi-tech transfer between **universities and private companies**.



CI3: Centre for Innovation In smart Infrastructures



ACTIVITIES – CI3

- ✓ Identify, request for tenders and contract, self funded projects.
- ✓ Participate in National and European funded proposals.
- ✓ External consultancy services in innovation:
 - ✓ Energy efficiency
 - ✓ IT
 - ✓ Smart Cities
 - ✓ Natural Environment
 - ✓ Innovation Management
 - ✓ Infrastructures and Services
- ✓ Support companies in H2020 proposals. Collaboration in consortiums building.
- ✓ Manufacturing and commercialization of own technological solutions.



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SMART CITY & URBAN MOBILITY– CI3 Guadalajara Living Lab (Spain)

- Agreement signed between CI3 and the Guadalajara Council.
- Open innovation environment.
- **Smart city small-size projects.**



5 projects:

- ✓ Living Lab Guadacan (Bindogs)
- ✓ Living Lab Smartcross
- ✓ Living Lab tuciud**app**
- ✓ Living Lab Smart
- ✓ Living Lab Smartaparc

Smart bin for dog waste connected to internet by GPRS, identifies the user. Offers to frequent users

Monitoring of pedestrian crossings using cameras and computer vision application in real time

Consists on a massive implementation of QR tags on urban elements linked to local information services

Monitoring of environmental parameters using low-cost sensors; data transmitted by a wireless network

Real-time information of available on-Street parking places by using Computer Vision

living lab tuciud**app**

Despliegue 200 códigos QR



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Previous / ongoing projects in the area



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ferrovial



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AIMS – FERROVIAL

INNOVATION FIGURES

- **42,6 M€** investment 2014 in R&D
- **+30%** increased investment from 2013
- **50** ongoing projects
- **200** patents



LINES OF ACTION

- Foster a culture of innovation among employees
- Adequate protection and exploitation of the results of innovation
- Promotion opportunities for innovation in the priority areas
- Coordination of global strategy and innovation policies



PROJECTS – FERROVIAL

FERROVIAL SERVICES

- City lights
- Test of Digital Services for Buildings Energy Efficiency (TEDS4BEE)



FERROVIAL AIRPORTS

- Power floor
- Mobile Display Units



CINTRA (Toll roads)

- Dynamic toll pricing (managed lines)
- Satelise (GNSS Tolling)



FERROVIAL AGROMAN

- Ciudad 2020 (Smart cities)
- BIM methodology applied to construction processes



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HORIZON 2020 TOPICS

ROAD SAFETY

- MG 3.4-2015. Transport infrastructure innovation to increase the transport system safety at modal and intermodal level (including nodes and interchanges)

INTELLIGENT TRANSPORT SYSTEMS

- MG-6.2-2016. Large-scale demonstration(s) of cooperative ITS

AUTOMATED ROAD TRANSPORT

- ART-02. Automation pilots for passenger cars
- ART-05. Road infrastructure to support the transition to automation and the coexistence of conventional and automated vehicles on the same network

SOCIO-ECONOMIC AND BEHAVIOURAL RESEARCH

- MG 8.2-2017. Big data in Transport: Research opportunities, challenges and limitations



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THANKS FOR YOUR ATTENTION

