



# Celtic-Plus<sup>+</sup>

Smart Connected World  
Pitch of the Project Proposals

Celtic-Plus  
Proposers Day  
16 March 2016,  
CDTI, Madrid



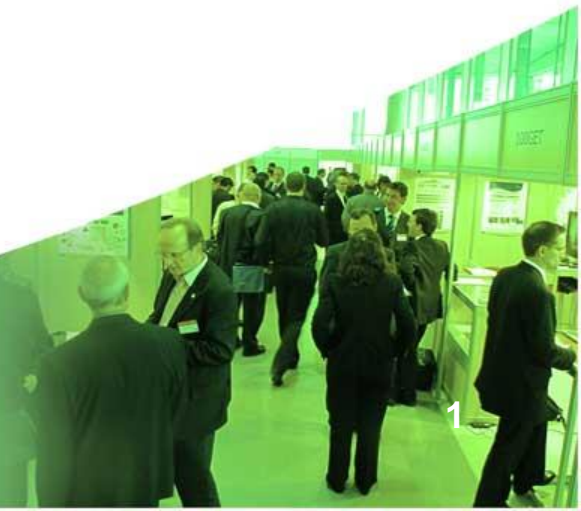
## ICON: Intelligent Vehicular Communication for 5G Networks

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instituto de  
telecomunicações

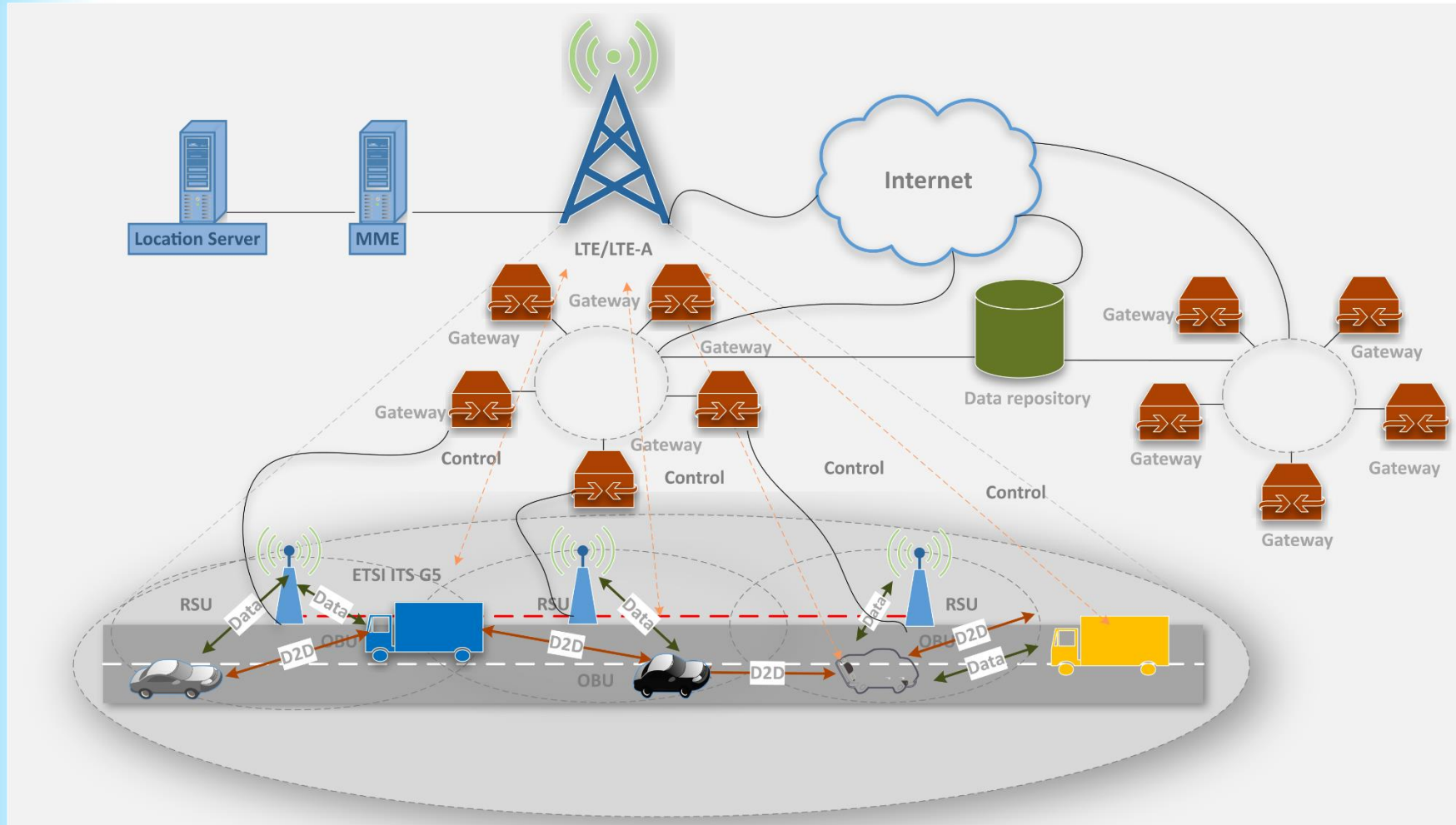


## Instituto de Telecomunicações (IT, [www.it.pt](http://www.it.pt))

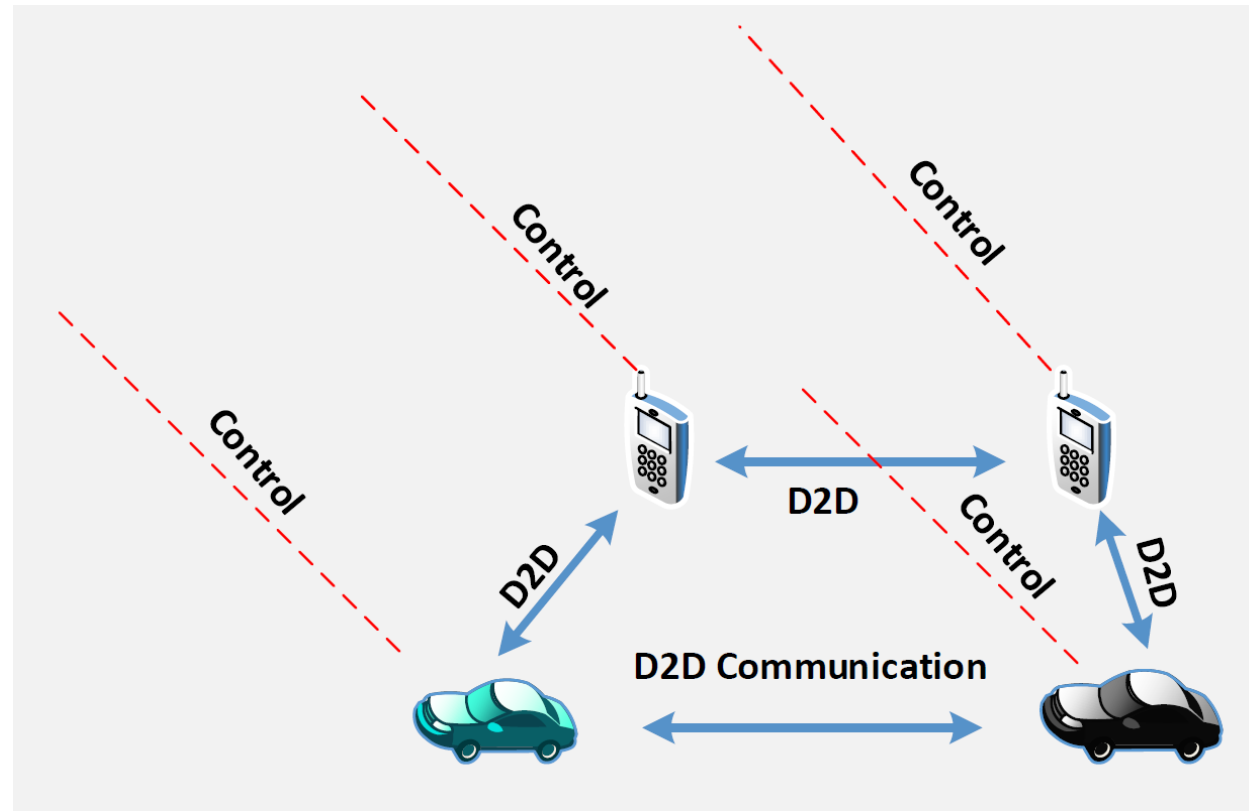
- **Research Institute** (Association of 6 Portuguese universities, 1 public telecom operator, 1 telecom equipment manufacturer)
- **Established in 1992**
- **Hosts more than 300 PhDs**
- **250 PhD Students**
- **200 MSc students**
- **currently involved in more than 100 national and 30 international R&D projects.**

- **Towards 5G vehicular communication**
  - **Traffic offloading**
  - **Device to Device communication**
- **Always connected (a hybrid solution)**
  - **Enhance throughput**
  - **Support of delay constraint communication**
  - **Enhance converge**
  - **QoS**
- **Secure and cooperative Vehicular communication**
- **Proximity Services**
- **Large Scale testbed based testing (min 500 devices)**

# ICON – Concept Scenario

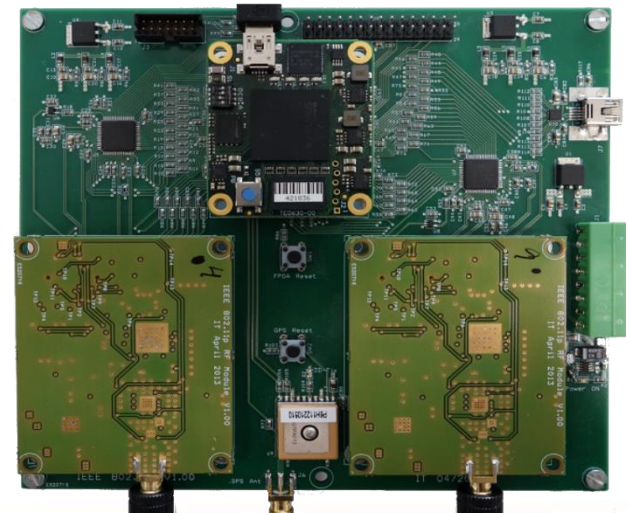
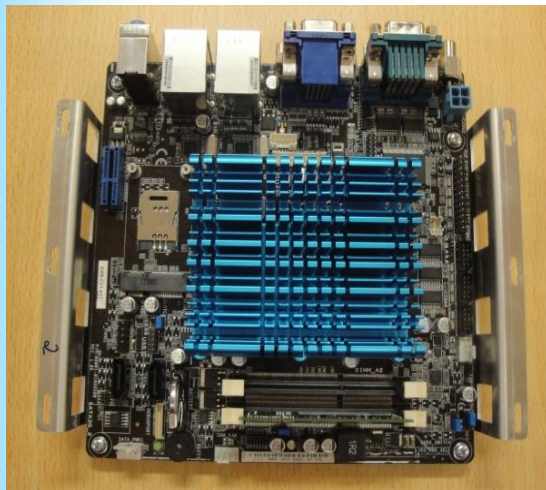


- D2D vehicular Communication
- Proximity Services



# Target Product

- We are expecting to produce a final product accomplishing ICON defined goals.
- Existing Prototype: IT2S



# Partners

- 1. Instituto de Telecomunicações – Portugal**
- 2. Micro I/O (SME) – Portugal**
- 3. Brisa – Portugal**

***We are looking for partners having expertise in:***

- 1. Technologies such as LTE, LTE-A and Vehicular networks (IEEE 802.11p)**
- 2. D2D Communication**
- 3. Big data**
- 4. Security**
- 5. Sensor Networks**

For more information and interest to participate please contact:

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