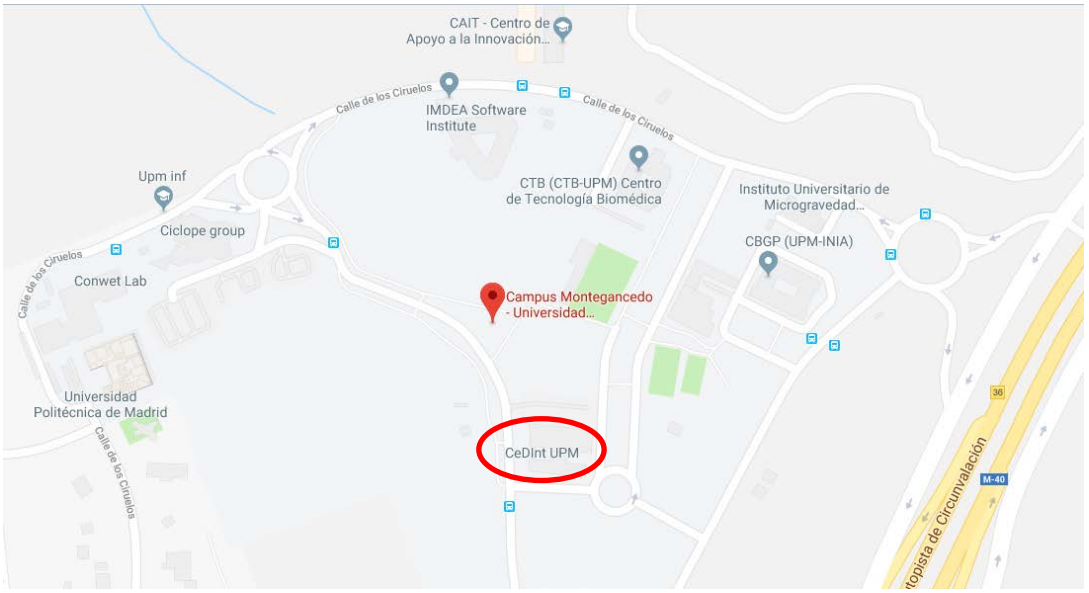
TR@NSENER
High Level Conference:
"DIGITAL TRANSFORMATION OF CITIES: CREATING VALUE WITH NOVEL AND ENERGY-EFFICIENT APPLICATIONS"
Madrid, 13th February 2018

Venue: CeDInt - Universidad Politécnica de Madrid
Campus de Montegancedo, Pozuelo de Alarcón. Madrid
Salón de Actos



Bus transportation from UPM Rectorate (c/Ramiro de Maeztu, 7) at 8h30

"DIGITAL TRANSFORMATION OF CITIES: CREATING VALUE WITH NOVEL AND ENERGY-EFFICIENT APPLICATIONS"

Energy management is one of the most demanding issues within urban areas. Cities, indeed, represent three quarters of energy consumption and 80% of CO2 emissions worldwide, and are set to host three quarters of the world's population in 2050.

To cope with this continued urban growth, **new alternatives to manage cities and make them more energy effective** are necessary. Digital technologies can play a pivotal role in this, making a rational and responsible use of resources. In fact, many **ICT-based systems** have already been proposed and tested in order to solve a wide variety of issues within the Smart City, such as: public lighting optimization, efficient energy use in buildings and other infrastructures, traffic management, air quality improvement, etc.

On the other hand, the emergence of **The Internet of Things (IoT)**, which enables the connection of almost every city-element to the Internet, provides a huge and appealing amount of data to the Smart City ecosystem. These data also create value by enriching the offer and quality of applications conceived for the management of the city infrastructures.

Considering all the above, this **High Level Conference aims to show examples on how ICTs and IoT technologies are currently creating value towards an energy transition** by reducing energy consumption and improving management of infrastructures in urban areas.

This High-Level Conference is being run as part of the European Cooperation Network on Energy Transition in Electricity - TR@NSENER – project. This European project, financed by FEDER funds, is led by the French University Université Toulouse III – Paul Sabatier and includes the participation of the Foundation for Energy Sustainability (FUNSEAM), the Faculdade de Ciências of the Universidade de Lisboa (FCUL), the Universidad Politécnica de Madrid, the University of Beira Interior, the CIRCE Foundation, PROMES and the Technological Corporation of Andalusia (CTA). TR@NSENER aims to contribute to transnational cooperation in order to solve common problems in the southwestern region of Europe.

AGENDA

09h00 PARTICIPANTS REGISTRATION

09h30 WELCOME AND INTRODUCTION

- Asunción Gómez Pérez, Vice-Rector for Research, Innovation and Doctoral Studies – Universidad Politécnica de Madrid
- Asunción Santamaría Galdón, Center for Energy Efficiency, Virtual Reality, Optical Engineering and Biometry (CeDInt-UPM)

10h00 KEY-NOTE SPEAKERS

- Javier Rodriguez, Deputy Director for Innovation and Smart City, **Madrid City Council**
- Tamara Hodas, Responsible of the European Projects Office, **Sevilla City Council**

10h45 Coffee Break

11h15 SESSION 1: Energy-efficiency in the Smart City

- Guillermo del Campo, Researcher, **CeDInt-UPM**
- Elena Navarro, Innovation Manager, **Ferrovial Servicios**
- Helena Gibert, Innovation Project Manager, **Gas Natural Fenosa**
- Juan Miguel Arronis, Project Manager, **IMESAPI**
- Pablo Arboleya, Professor, **University of Oviedo**

Chairman: Rocío Martínez - CeDInt-UPM

12h30 SESSION 2: Integration of Renewable Energy in Smart Cities

- Estefania Caamaño, Professor, **Solar Energy Institute (IES-UPM)**
- Miguel Fernández, CEO, **dotGIS**
- Alejandra López, Head of Network Commercial Operations, **VIESGO Distribución**
- Javier Fernández, **SMA Solar Technology**
- Francisco López, Technical R&D Manager, **MAGTEL**

Chairman: Rocío Martínez - CeDInt-UPM

13h45 Lunch Break

15h00 Technical Visits

- TR@NSENER Project Pilot
- Energy Efficiency Infrastructures (Internet of Things Pilots and Showroom)
- Virtual/Augmented Reality and Visual Analytics Infrastructure (5 sided CAVE, 3D Power wall)
- Digital Manufacturing Laboratory (FabLab)

18h00 End of the event