

CeDInt-UPM RESEARCH AREAS:

CeDInt-UPM is a multidisciplinary R&D center of Universidad Politécnica de Madrid (Spain) focused on ICT applications.

Areas of interest for PPP Future Internet:

- Virtual Reality and 3D immersive environments
- Smart cities: smart buildings, energy efficiency, complex data management

INFRASTRUCTURES for PPP FUTURE INTERNET

i-SPACE: 5-wall Cave Automated Virtual Environment (CAVE):

- 5 projection screens: 3 walls + ceiling + floor (4:3 format, 3,20 x 2,40 m.):
- 5 high resolution 3D projectors / 3D video systems
- 6 workstations in cluster configuration
- Tracking systems and interaction devices
- Virtual environment development platform
- Ultra high network connectivity
- 3D additional facilities



Some APPLICATION AREAS within PPP FUTURE of INTERNET:

SMART CONTENT – NETWORKED MEDIA & 3D INTERNET

- Development of 3D Internet tools and immersive/interactive content for enhanced user experience.
- Creation and visualization of 3D digital libraries (cultural heritage, scientific information) and complex data
- “Serious gaming”



SMART HEALTH

- Advanced tools for rehabilitation and cognitive training
- Virtualization of medical processes (virtual surgery, diagnostics and planning) and visualization of bio data

FUTURE INTERNET EXPERIMENTAL FACILITY

- Network of European 3D immersive facilities to boost creation of 3D/immersive content and user experiences



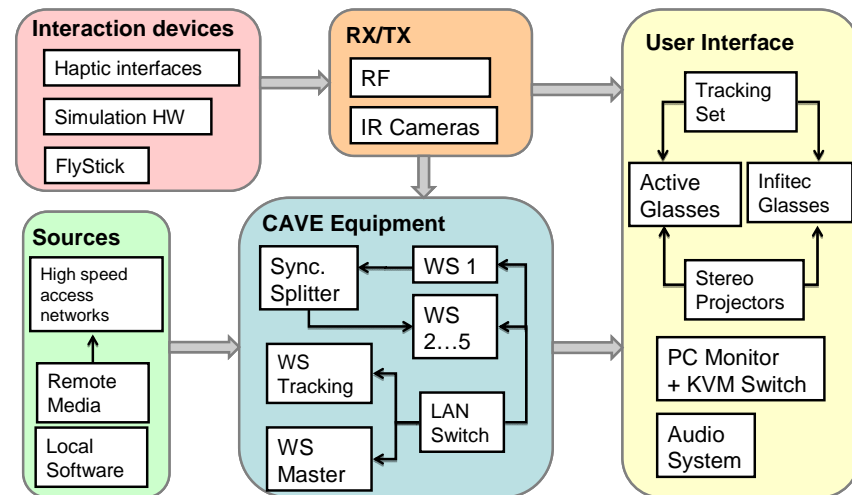
INTERNET OF THINGS – SMART CITIES

- Integration of real life information in virtual environments (augmented reality)
- Smart buildings, smart grids, energy efficiency, complex data management

CeDInt-UPM EXPERTISE:

R&D EXPERIENCE

- Simulation of virtual environments
- Development of 3D/immersive interfaces
- Control systems
- Augmented reality
- 3D data and images generation, processing and visualisation
- Experience in applications for smart building, energy efficiency, medicine, television, optical systems, security, culture, ...



PHYSICAL INFRASTRUCTURE

- Full equipped, up & running CAVE infrastructure
- Development platform
- 3D lab facilities

CONTACT INFO

cfeijoo@cedint.upm.es

Visit us at i-SPACE!