CSTD 2015–2016 Inter-Sessional Panel on "Smart Cities and Infrastructure" and "Foresight for Digital Development"
AGENDA

1. IESE and the Public-Private Sector Research Center
2. PPP for Cities
3. Our vision of a Smart City. The importance of governance
4. PPPs in Smart and Sustainable Cities
1. IESE AND THE PUBLIC-PRIVATE SECTOR RESEARCH CENTER
## Facts and Figures

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>110</td>
<td>Faculty</td>
</tr>
<tr>
<td>130</td>
<td>Executive Education Programs</td>
</tr>
<tr>
<td>2</td>
<td>Associated Business Schools in Asia</td>
</tr>
<tr>
<td>#1</td>
<td>#1 in the world for Executive Education Programs (FT)</td>
</tr>
<tr>
<td>5</td>
<td>Campuses around the world</td>
</tr>
<tr>
<td>33,000</td>
<td>Participants in Alumni Workshops</td>
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<tr>
<td>5</td>
<td>MBA Modules Overseas</td>
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<tr>
<td>15</td>
<td>Associated Business Schools on 4 Continents</td>
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PPP for CITIES

Specialist Centre on PPP in Smart and Sustainable Cities

www.pppcities.org
2. PPP FOR CITIES
2. PPP FOR CITIES

The United Nations Economic Commission for Europe (UNECE) is one of the United Nations’ five regional commissions. Its main goal is to promote pan-European economic integration among 56 countries in Europe, Asia and North America through dialogue and cooperation.

The goal of the International PPP Centre of Excellence (ICoE) is to serve as an international benchmark and leader in the development of PPP good practices and standards. UNECE has a United Nations mandate to expand and develop the program and to work with other international organizations such as the World Bank, the EIB and the ADB, among others.

The mission of the Specialist Centres (SCs) is to become global benchmarks in specific sectors. Their tasks include compiling practical case studies in PPP projects, drawing up standards and guides to good practices, and providing consulting and training to public administrations all over the world.
2. PPP FOR CITIES

Our vision

Become an international benchmark in the provision of advisory services to public administrations regarding how to improve and plan their cities.

- **International benchmark**
  Where administrations from all over the world can find solutions to their problems

- **Guidelines, standards**
  Based on case studies and with collaboration of experts from different countries and profiles

- **Public private partnerships platform**
  Where public and private sector can share experiences

These services shall be based on the creation of an archive of practical case studies, the development of management standards, the publication of handbooks on good practices, and ongoing research and innovation.
According to the United Nations, some of the main objectives of the PPP for Cities are:

• Identifying and disseminating good practices internationally
• Creating spaces of debate among companies, administrations and experts from all over the world on specific topics
• Creating working standards for managing PPP projects
• Helping governments develop public-private partnership projects in the sphere of cities
• Conducting research
• Designing training strategies in the sector for state and regional governments, especially in countries with less experience, and fostering the exchange of knowledge with countries with more experience in PPPs
• Providing specialized training in PPPs

Work should be done under the Sustainable Development Goals, mainly 11th “Make cities and human settlements inclusive, safe, resilient and sustainable” and 17th “Revitalize the global partnership for sustainable development”
## 2. PPP FOR CITIES

### Activities

<table>
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<tr>
<th>Activity</th>
<th>Description</th>
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<tr>
<td>Designing guides to PPP good practices in urban development and Smart</td>
<td>Independent consultancy services for public administrations seeking to develop their capabilities and PPP markets</td>
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<tr>
<td>Cities</td>
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<tr>
<td>Creating management standards for PPP projects in specific areas through</td>
<td>Hosting technical workshops and training</td>
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<td>multidisciplinary, multicultural working groups</td>
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<tr>
<td>Developing a database of practical case studies and a network of</td>
<td>Partnering to host conferences and fairs in the sector</td>
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<td>specialized experts</td>
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<tr>
<td>Research</td>
<td>Holding periodic international conferences on the development and transformation of cities through public-private partnerships</td>
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<td>Publications and newsletters</td>
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www.pppcities.org
2. PPP FOR CITIES

Membership

The center aims to be a meeting point of reflection and partnership between the public and private sectors. To this end, it has established different levels of participation in the center’s activities:

- **Partners.** associations and International organizations
- **Sustaining Member**
- **Sponsors**
- **General Member**
- **Individual Members**
3. OUR VISION OF A SMART CITY.
THE IMPORTANCE OF GOVERNANCE
3. OUR VISION OF A SMART CITY. THE IMPORTANCE OF GOVERNANCE

Some cities are becoming smarter...but

WHAT IS A SMART CITY?
“Being a Smart City means using all available technology and resources in an intelligent and coordinated manner to develop urban centers that are at once integrated, habitable and sustainable”
3. OUR VISION OF A SMART CITY. THE IMPORTANCE OF GOVERNANCE
Smart Cities or Smart Governance?

Cities need Smart GOVERNANCE:

- Strategic Planning
- Systemic view of the city
- Modern management practices
- Open and transparent
- Innovative business models
- and

Public Private Partnership
4. PPPS IN SMART CITIES
Key Issues

• Governance
• Financing
  ▪ Lower dimension of projects (investment and revenues)
  ▪ Need of innovative models
  ▪ Use of value of land and taxes as a financing instrument
• Citizenship participation.
  ▪ Need of considering citizens as another agent in the equation
• Sustainability
  ▪ Need of efficient use of resources
4. PPPS IN SMART AND SUSTAINABLE CITIES

STREET LIGHTNING: SURREY (UK)

- Public-private partnerships (PPPs) operated by ESCOs
- Replacement programme 66,000 street lighting columns, financing of facilities, operation and maintenance, energy supply
- Energy savings of over 5.3 GWh and over 750 tonnes of CO2 emissions annually
- Ownership of existing facilities remain with the municipality
- Need for documentation of existing facilities, technologies, age and their status
- Output-based specification
ENVIRONMENT: VANCOUVER LANDFILL GAS COGENERATION PROJECT

- Procurement method: B-O-O
- Capital cost: $10.3 million
- Contract term: 20 years
- Reduce greenhouse emissions converting landfill gas in electrical power (56,000 megawatts per year aprox.)
- Owner and operator of landfill: City of Vancouver
- Client of electricity: BC Hydro
- 20 Supply contract with landfill and 20 years purchase agreement with BC Hydro
4. PPPS IN SMART AND SUSTAINABLE CITIES

• The aim of the project was to increase the use of bicycle in the city to reduce traffic congestion and pollution
• Greenfield large-scale bicycle-sharing program
• Procurement model: BFOM, 10 years.
• 20,600 bicycles with 1,450 stations
• Project Sponsor: Paris City Council. Paris, France. The program was later expanded to Paris ‘30 suburban municipalities
• Project Developer: Cyclocity (http://en.cyclocity.com/), Owner: JCDecaux (outdoor advertising company)
• Payment method: low user based fees + right to manage advertising billboards in Paris + city advertisements. Winner pay city royalties (2 millions euros annually). Quality indicators 12% of incomes of rentals of bikes
4. PPPS IN SMART AND SUSTAINABLE CITIES

BARCELONA GIX: NETWORK INTEGRATED MANAGEMENT. CONNECTIVITY: WIFI AND OPTICAL FIBER

• Barcelona has a network of 500km of fiber optic and 670 WiFi hotspots.
• The WiFi has capacity of optical fiber termination and media conversion. A new business model has been developed to improve the network by means of exploiting the excess of network to repay investment costs
• 2014. City Council awarded PPP contract to Abertis Telecom for the management and operation of all the networks of fiber optic and WiFi hotspots.
• First time to integrate all the network: Barcelona’s Municipal Telecommunications (GIX).
• GIX has two goals: to be the basis of the network or infrastructure on which the new ICT model is sustained, and to be the pillar on which the smart city strategy is based.
• Contract 8 years (+2), 9 Milion €
• Repayment of investments: commercialization of the remaining capacity of the network and wi-fi premium services
Thanks for your attention

PPP for Cities, an International platform of collaboration between public and private sector in cities arena

PPP for Cities, Specialist Centre on PPP in Smart and Sustainable Cities

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Sponsored by:

- United Nations Economic Commission for Europe
- Ajuntament de Barcelona
- BIT Barcelona Institute of Technology