



Vision

The city of people

Technology as an enabler for:

- ✓ Urban mobility more efficient and sustal nable.
- ✓ Environmental sustainability
- ✓ Business-friendly and attracting capital
- ✓ Integration and social cohesion
- ✓ Communication and proximity with people
- ✓ Knowledge, creativity and innovation
- ✓ Transparency and democratic culture
- ✓ Universal access to culture, education and health care

Improve citizens' welfare and quality of life



Economic progress





Vision

To become a city of productive neighbourhoods, at human speed, interconnected, eco-efficient, re-naturalised, energetically self-sufficient and regenerated at zero emissions, inside a high-speed interconnected Metropolitan Area.













"Many slow cities inside the same Smart City"



Barcelona is orienting its city evolution strategy towards to guarantee quality of life for its citizenry, social and urban improvement and added value in its neighbourhoods, fostering all its urban potential towards sustainable development and green economy, in favour of an energetically self-sufficient city and where nature holds a prominent role for the balance of the city. A connected city with a high-speed interconnected Metropolitan Area, that guarantees the region evolution and the improvement of its inner cities.



Reference framework

City Strategic framework

The framework is determined by the Smart Barcelona surrounding municipal and European citizens:











Reference framework

Global Strategic framework

Mobility

E-Government

Smart Cities

Systems of Information

Innovation

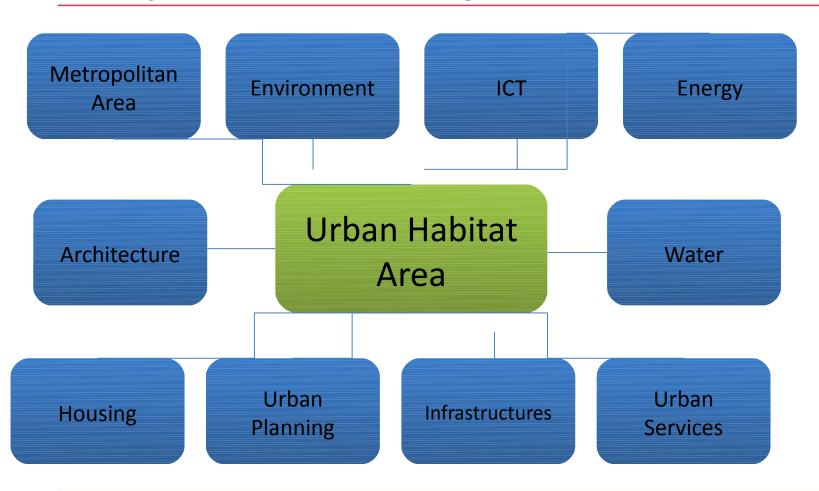






Reference framework

City Council: and ad-hoc organization



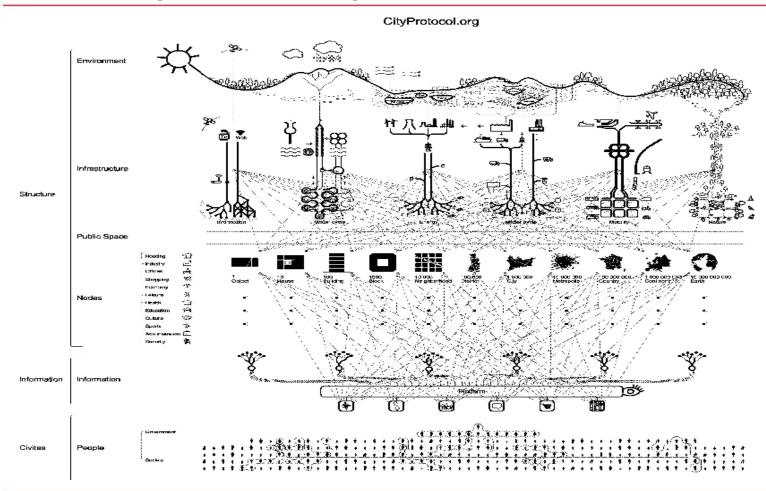


The 8 principles to make a self sufficient city

- 1. Define your own city model with "your city mantra"
- 2. Analyze the structure of your city and define your priorities
- 3. Rethink your city systems, not just upgrade them.
- 4. Develop the economy of city services with partners
- 5. Make your city more resilient and promote long term investment
- 6. Build a liveable city, increasing public space for people
- 7. Change your organization by breaking the silos
- 8. Work with other cities and be part of the city protocol society

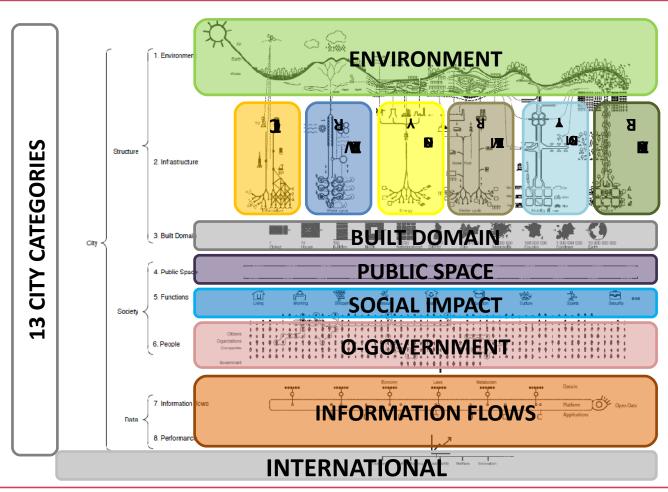


Anatomy of a Smart City





Conceptual Model





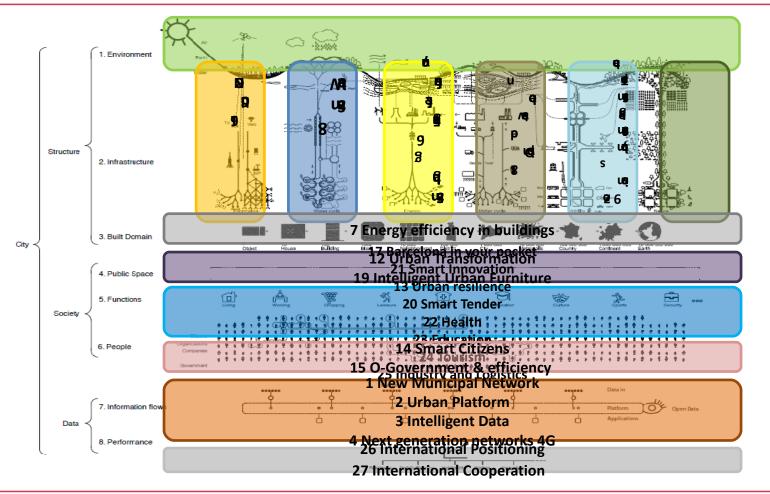
Smart Programs

- 1. New Municipal Network ¹
- 2. Urban Platform 1
- 3. Intelligent Data 1
- 4. Next Generation Networks (4G)
- 5. Smart Lighting
- 6. Energy self-sufficiency
- 7. Energy efficiency in buildings
- 8. Smart Water
- 9. Zero emissions mobility
- **10. Smart Parking**
- **11. Smart Transportation**
- 12. Urban transformation
- 13. Urban resilience
- 14. Smart Citizens
- 15. O-Government & eficiency
- 16. Cloud BCN
- 17. Barcelona in your pocket
- 18. Optimised Waste Collection

¹ Transversal programs

Programs for Areas





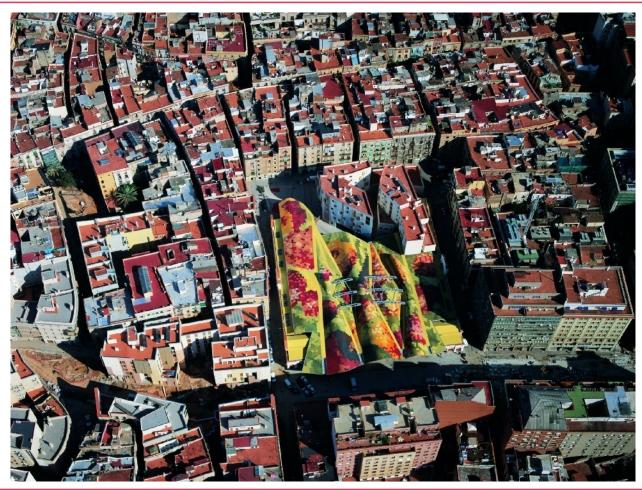


Key Points

- A new organisation oriented towards goals and objectives of a Smart City
- Legal framework that allow PPP
- Urban zone for PPP to set and grow
- To feed the urban innovation ecosystem
- Living Lab, development of a community of citizens, developers
- Installations for SME experimentation
- Opening of new opportunities so that citizens can be more active and participative
- Strong international links

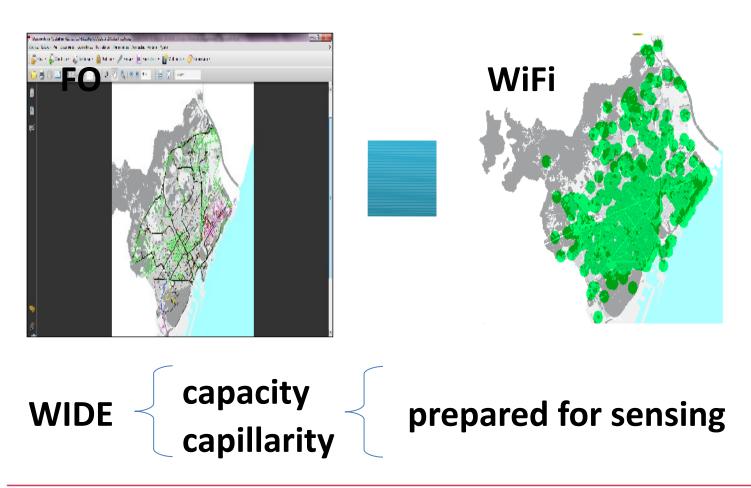


Transformation of a running city



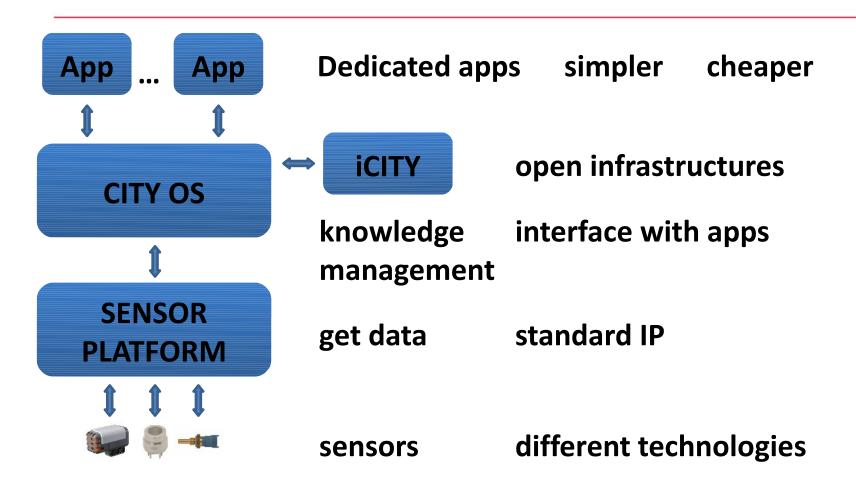


5. THE BASEMENT: INTEGRATED NETWORK



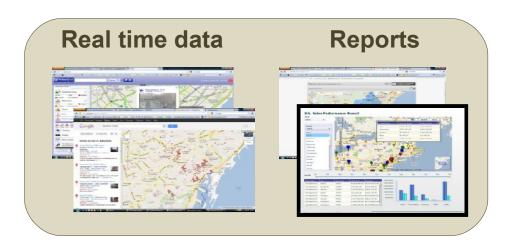


5. THE INSTRUMENT: URBAN PLATFORM





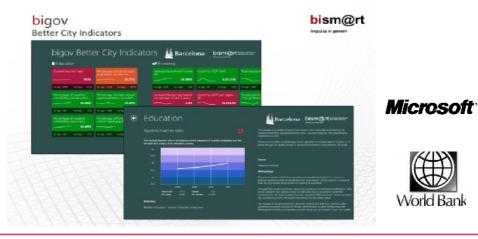
6. INTELLIGENT DATA



Situation room

What it is happening at the city

Corporative tool

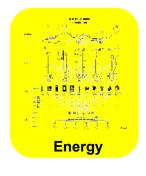


City indicators

How is the city Citizen's tool



7. SMART SERVICES



Smart lighting

Individual remote management of LED lighting poles

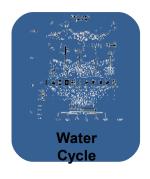


Self-sufficient blocks

Micro eco-generation

Heating and cooling network





Smart water

- Smart sewer network
 - Smart irrigation
- Telemanaged ornamental fountains





7. SMART SERVICES



Zero Emissions Mobility

Smart parking

Smart transportation

- Worktable with cross-sector and government administration in
 - Payment by mobile
 - Public parking in private sites
 - Orthogonal bus network
 - Smart bus shelters







Building
/ Street /
Neighbor
hood

Urban transformation

Inclusion of requirements for smart cities (telecommunication infrastructures and sensing) in streets remodeling tenders





7. SMART SERVICES

Social Impact / Citizens Urban Resilience 8 infrastructure and urban services tables (TISU)



United Nations resilience office in Barcelona

Smart citizens

Fab labs

Citizens as a sensors



Citizenry

oGovernment

Opendata

Whabit





Barcelona in your pocket

apps4BCN

idBCN

Barcelona contactless

mGovProcedures





8. HOW TO GET IT

Smart tender

Include in all appropriate public tenders clauses about smart cities









Partnership with innovation centers and other cities

























9. INDUSTRIAL PROMOTION

Smart city campus

Collaborative space between industry and university





Cluster of smart cities

Big international companies cooperating with local companies

Urban Labs

Testing smart city solutions in a real environment





