Barcelona Smart City

City of the people

Technology as a means to providing the city with …

- ✓ More efficient and sustainable mobility
- ✓ Environmental sustainability
- ✓ Business friendly and a magnet for attracting capital
- ✓ Social integration and cohesion
- ✓ Communication with and closeness to the people
- ✓ Knowledge, creativity and innovation
- ✓ Transparency and democratic culture
- ✓ Universal access to culture, education and health

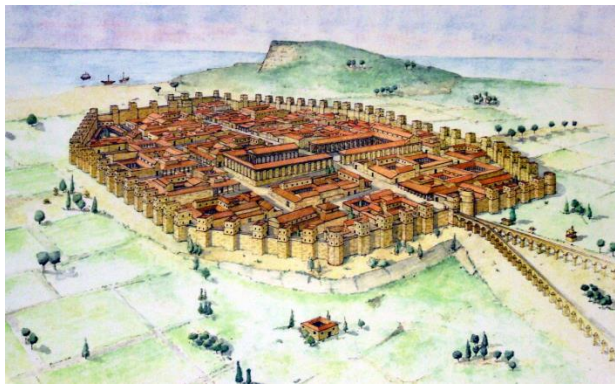**Improving the well-being and quality of life of city residents**

Economic progress

EUROPEAN COMMISSION

BARCELONA CITY COUNCIL

BARCELONA CITY MODEL

ROMAN (15-10 BC)

MEDIEVAL (1300 - 1600)

CERDÀ PLAN (1859)

UNIVERSAL EXPOSITION (1888)

INDUSTRIAL REVOLUTION (1900)
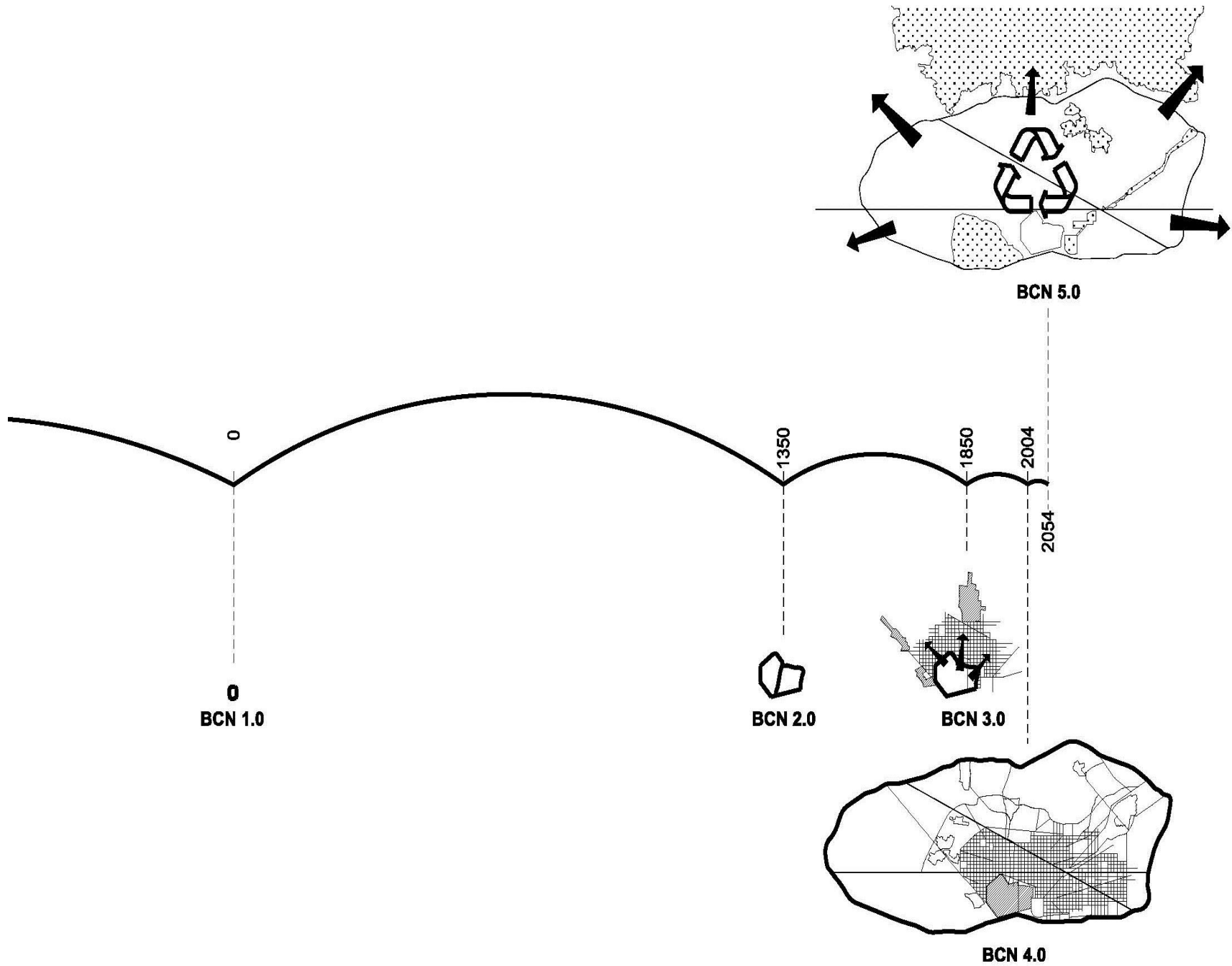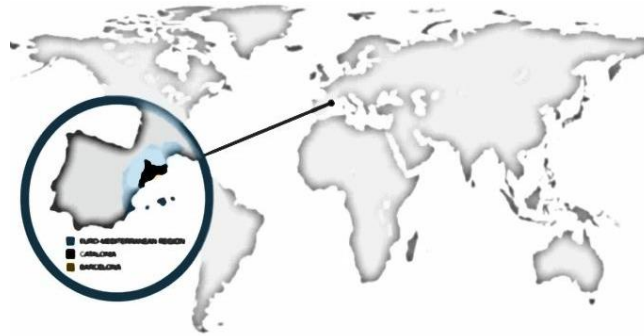

UNIVERSAL EXPOSITION (1929)

OLYMPIC GAMES (1992)

FÒRUM (2004)

SMART CITY (2014)

0

1350

1850

2004

2054

0
BCN 1.0

BCN 2.0

BCN 3.0

BCN 4.0

BCN 5.0

RANKINGS

1st Global Smart City *(Juniper Research 2015)*

Top 6 most successful Smart Cities *(European Parliament 2013)*

6th City in the World in Urban Brand *(Saffron European CityBrand Barometer The Guardian 2014)*

9th Best Reputed City in the World *(Reputation Institute 2014)*

1st Most Attractive City in Europe for Organising Events *(Pro Sky Destination Report 2014)*

6th Most Highly Regarded City Worldwide *(Guardian Cities global brand survey, 2014)*

Top 10 Most Attractive Cities in the World for Sports Events *(portalhotels.com 2014)*

Top 10 Cities in the World for Cycling *(The Sidney Morning Herald 2014)*

1st Attractive City for Western European Investing *(Best to Invest Report 2013)*

Top 10 in Transparency in Catalonia *(UAB Study, 2013)*

3rd Business City in Europe *(Cushman & Wakefield 2011)*

6th City for Doing Business in Europe*(Cushman & Wakefield 2011)*

1st City Model in the World *(Ernst & Young 2011)*

6th Most Attractive City in Europe for Doing Business *(Ernst & Young 2011)*

2nd City for Organising International Events *(City and Country World Report 2010, ICCA)*

AWARDS

iCapital, Capital of Innovation

The European Commission awards BCN using new technologies to bring the city's citizens.
03/12/2013

Mayors Challenge with "Vincles BCN"

"Vincles BCN" is a project that aims to create a network of trust that can break down the isolation of elderly people. It is the project awarded from 155 innovative ideas submitted by cities from all round Europe.
18/09/2014

Novay Networked Innovation

Nova Digital Identity Award
18/10/13

Premis Protecció de dades en el disseny

Autoritat Catalana de Protecció de Dades
08/04/2014

"Opendata BCN is the best practice in the country."
20/07/2014

Opentext Heroes Awards

The OpenText Heroes Awards recognize customers for their outstanding efforts in deriving business value from innovative and successful software deployments.
17-21/11/2013

Intelligent City Infrastructure

C40 and Siemens Honor Cities for Leadership in Tackling Climate Change
22/09/2014

Responsible Tourism

Institute for Responsible Tourism (IRT)
24/07/2011

ENI Interoperability

Awards CNIS Interoperability in Public Administration and Security.
20/02/2014

VI Information Society Awards

Socinfo Fundation
12/02/2014

Barcelona City Council's Balance Sheet

•Budget for 2014**:** € 2,574 Billion (22% increase in investment, i.e. €426 million)

•Robust budgetary management

•Sound financial fundamentals

•High gross operating surpluses of 24% on   average in 2007-2012

•Sustainable (0 deficit, 0 increase in debt (debt < 60% of current revenues), 0 increase in taxes)

•Liquidity (payment in 30 days)

•Investment capacity (Savings > 15% current   revenues)

MOODY'S: Baa2 outlook: positive (February 2014) S&P: BBB (May 2014)

RESEARCH & INNOVATION CENTERS OF COMPANIES IN BCN
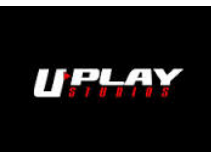
1. Establishing the city **model** with "the city's **mantra**"
2. Analysing the city's **structure** and defining its **action plans**
3. Re-thinking the city's **systems**, and not just updating them
4. Developing the **economy** of the city's services together with the ecosystem
5. Making the city more **resilient** and promoting long-term **investment**
6. Building a habitable city, which increases public space for the people
7. Changing the organisation by **smashing** "**silos**"
8. Working with other cities and form part of the **City Protocol Society**

> **"To become a city of productive neighborhoods, at human speed, interconnected, eco-efficient, re-naturalized, energetically self-sufficient and regenerated at zero emissions, inside a high-speed interconnected Metropolitan Area"**

bcn.cat/habitaturba — Ajuntament de Barcelona

Barcelona is steering its city-development strategy to ensure its citizens enjoy <u>quality of life, social and urban improvements and added value in their neighbourhoods</u>, by focusing all its **urban potential** on **sustainable** development and the green economy, in favour of a city that is **self-sufficient in energy** and where nature plays a notable role in the city's equilibrium. A city connected with a <u>high-speed and hyper-connected</u> Metropolitan Area, which ensures the development of the region and the improvement of the cities that form it.

BARCELONA'S SMART CITY VALUES

SOCIAL DREAM

+ **EFFICIENT**

+ **SUSTAINABLE**

+ **PRODUCTIVE**

+ **SOCIAL**

+ **FREE**

+ **HEALTHY**

STRATEGIC LINES

INTERNATIONAL POSITIONING

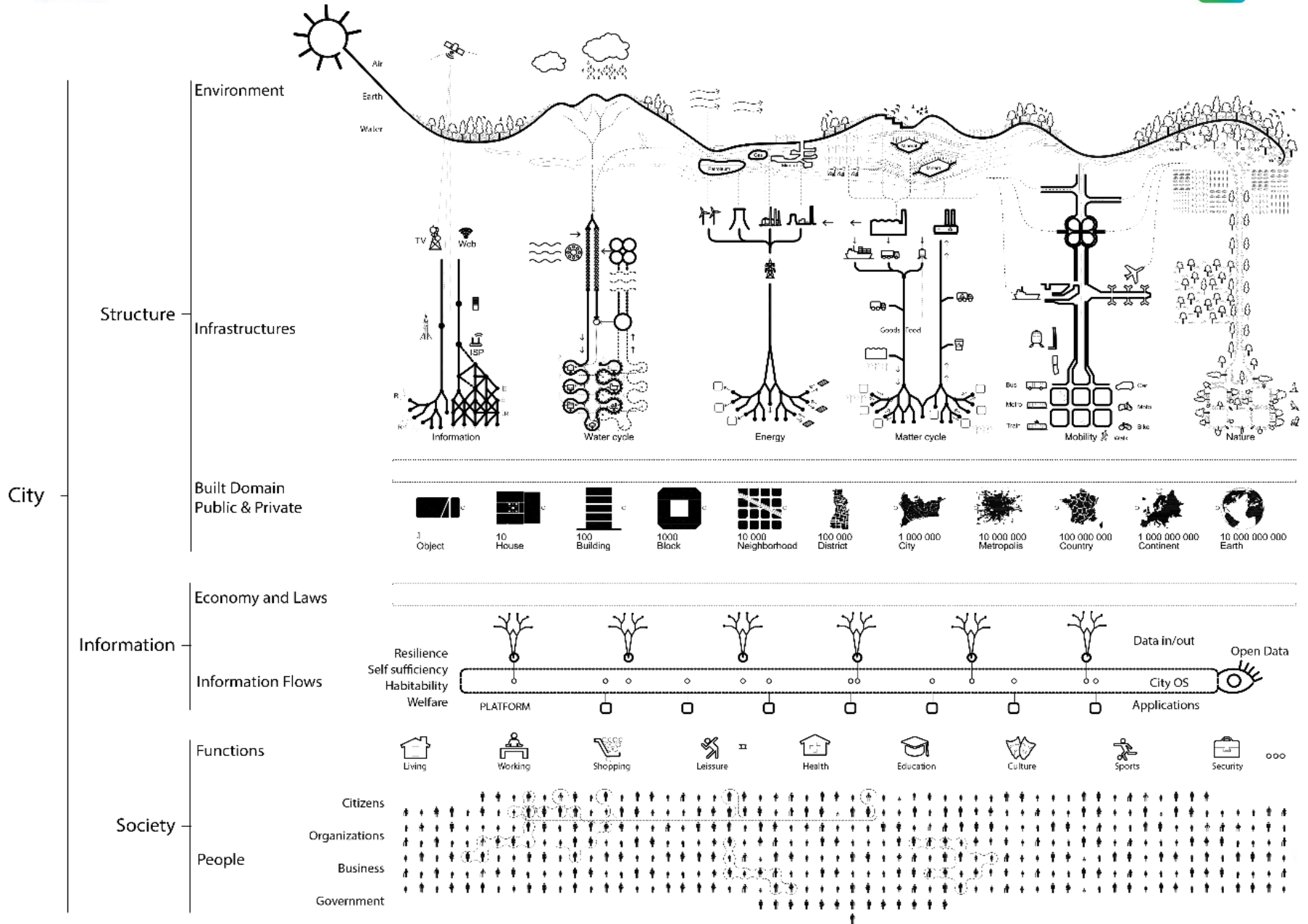## INTERNATIONAL COOPERATION

CITY PROTOCOL

1. BESOS
2. CitySDK
3. CloudOpting
4. Commons4EU
5. DC4Cities
6. EUNOIA
7. iCity
8. INSIGHT
9. Open-DAI
10. CONDUITS
11. FIREBALL
12. Green eMotion
13. MOLECULES
14. smartCEM
15. SUPERHUB
16. TRANS-FORM
17. ECHORD++
18. Lighthouse

SMART LOCAL PROGRAMMES

1. Telecommunications Networks
2. Urban Platform
3. Smart Data
4. Smart Lighting
5. Energy Self-Sufficiency
6. Smart Water
7. Smart Mobility
8. Renaturalisation
9. Urban Transformation
10. Smart Urban Furniture
11. Urban Resilience
12. citizenry
13. Open Government
14. Barcelona in Your Pocket
15. Smart Waste Collection
16. Smart regulation
17. Smart Innovation
18. Healthcare and Social Services
19. Education
20. Smart Tourist Destination
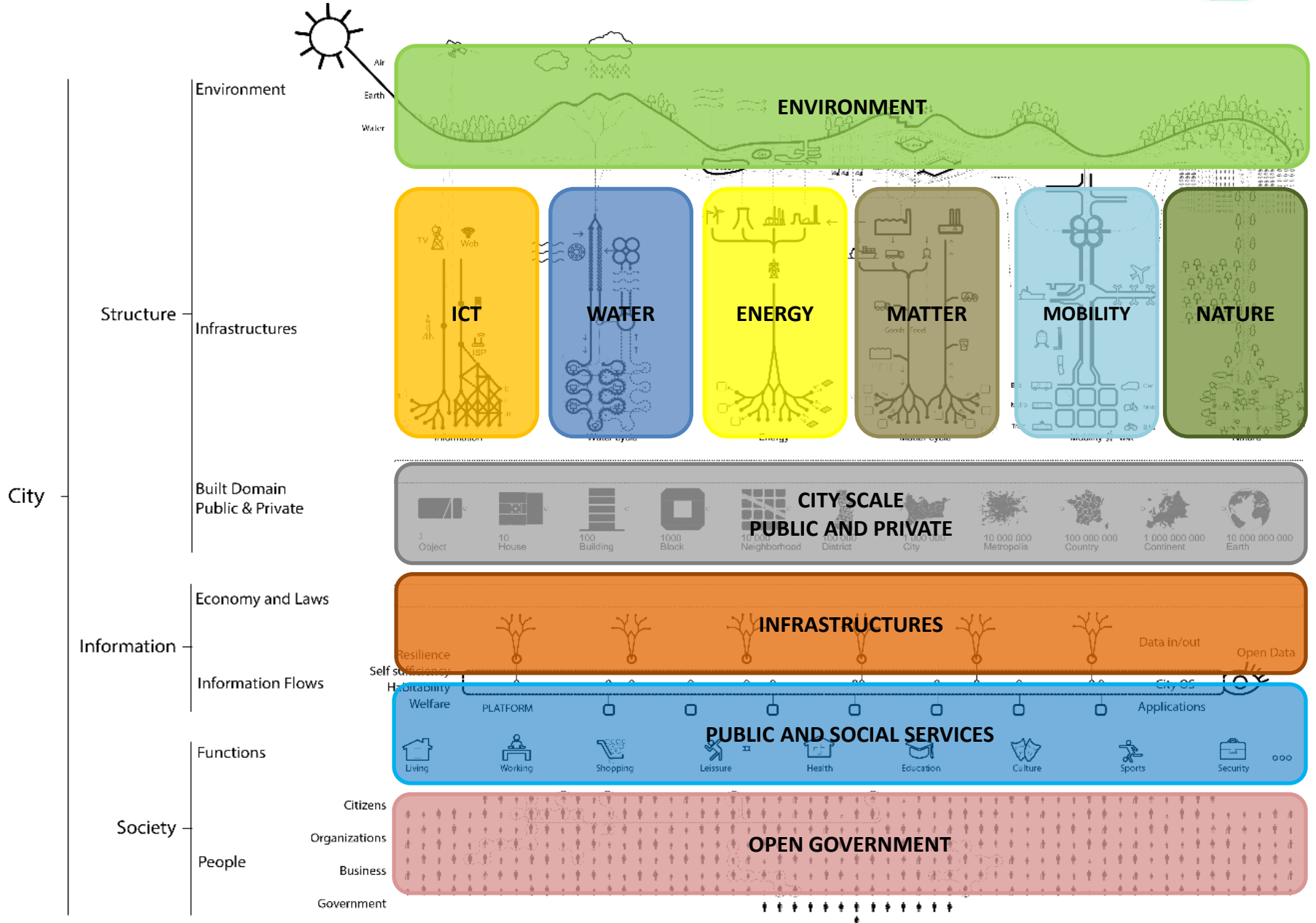21. Infrastructure and Logistics
22. Leisure and Culture

ANATOMY OF THE CITY

CONCEPTUAL MODEL OF BARCELONA

BCN SMART CITY

- Environment — ENVIRONMENT
- Structure — Infrastructures: ICT, WATER, ENERGY, MATTER, MOBILITY, NATURE
- City — Built Domain Public & Private: CITY SCALE PUBLIC AND PRIVATE
  - Object, House, Building, Block, Neighborhood, District, City, Metropolis, Country, Continent, Earth
- Information — Economy and Laws: INFRASTRUCTURES
  - Information Flows
- PUBLIC AND SOCIAL SERVICES
  - Functions: Living, Working, Shopping, Leisure, Health, Education, Culture, Sports, Security
- Society — People: OPEN GOVERNMENT
  - Citizens, Organizations, Business, Government

22 SMART LOCAL PROGRAMMES

1. **Telecommunications Networks**[1]
2. **Urban Platform**[1]
3. **Smart Data**[1]
4. **Smart Lighting**
5. **Energy Self-Sufficiency**
6. **Smart Water**
7. **Smart Mobility**
8. **Renaturalisation**
9. **Urban Transformation**
10. **Smart Urban Furniture**
11. **Urban Resilience**
12. **Citizenry**[1]
13. **Open Government**
14. **Barcelona in Your Pocket**
15. **Smart Waste Collection**
16. **Smart regulation**
17. **Smart Innovation**
18. **Healthcare and Social Services**
19. **Education**
20. **Smart Tourist Destination**
21. **Infrastructures and Logistics**
22. **Leisure and Culture**

[1] *Cross-sectional Programmes*

THE 22 PROGRAMMES IN THE 11 AREAS
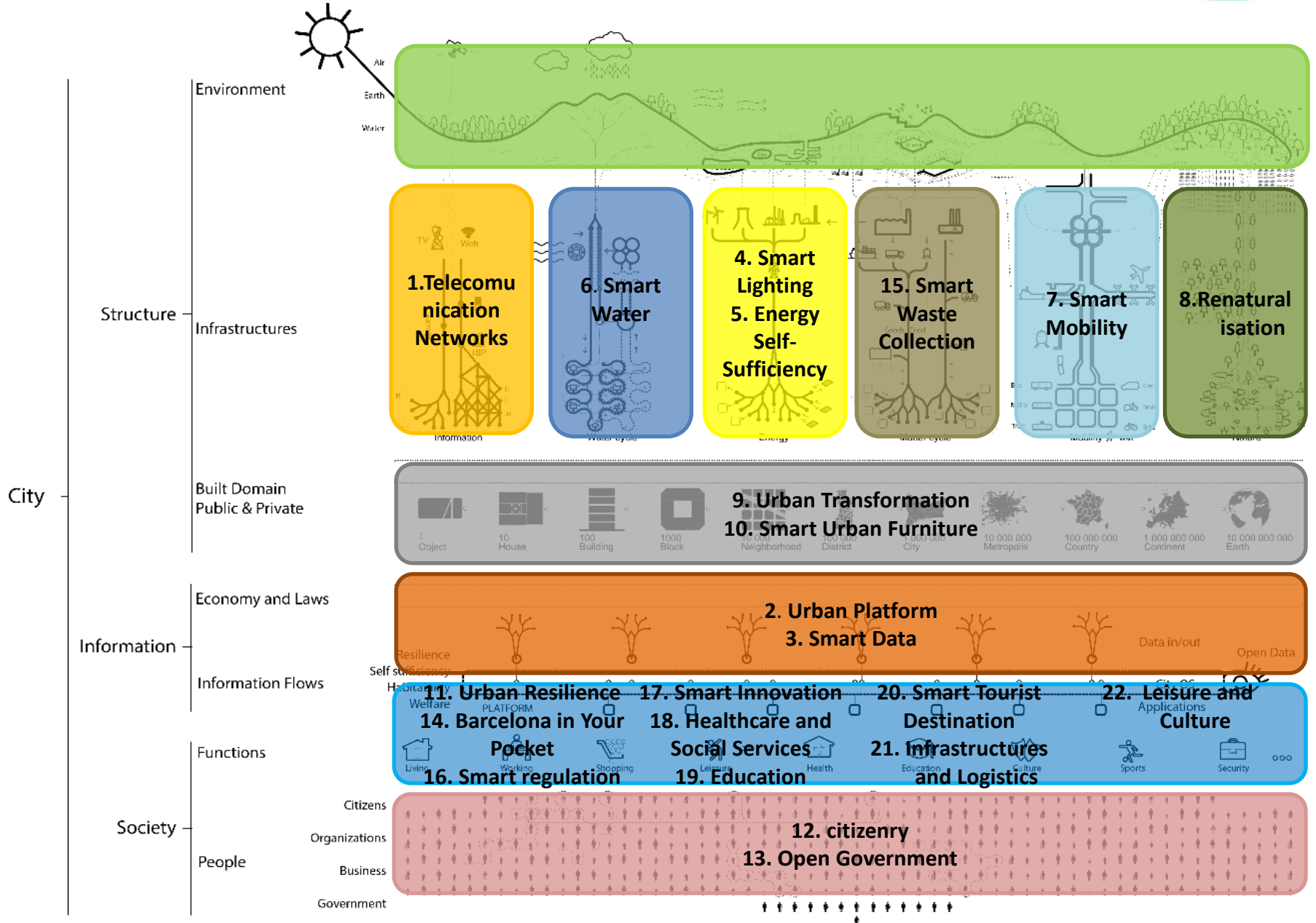
24 SMART GLOBAL PROGRAMMES

1. **Telecommunications Networks[1] (Paco Rodríguez)**
2. **Urban Platform[1] (Paco Rodríguez)**
3. **Smart Data[1] (Eduard Martín)**
4. **Smart Lighting (Cristina Castells)**
5. **Energy Self-Sufficiency (Cristina Castells)**
6. **Smart Water (Cristina Vila)**
7. **Smart Mobility (Jordi Ortuño)**
8. **Renaturalisation (Margarida Pares)**
9. **Urban Transformation (Maria Sisternas)**
10. **Smart Urban Furniture (Paco Rodríguez)**
11. **Urban Resilience (Ares Gabas)**
12. **citizenry (Jordi Reynes)**
13. **Open Government (Carles Agustí)**
14. **Barcelona in Your Pocket (Alexis Culubret)**
15. **Smart Waste Collection (Jordi Ametlló)**
16. **Smart Regulation (Maria Galindo)**
17. **Smart Innovation (Maria Galindo)**
18. **Healthcare and Social Services (Pilar Solanes)**
19. **Education (Eduard Martín)**
20. **Smart Tourist Destination (Xavier Suñol)**
21. **Infrastructure and Logistics (Pendent)**
22. **Leisure and Culture (Inés Garriga)**
23. **International Positioning[1] (Júlia López)**
24. **International Cooperation[1] (Júlia López)**

[1] *Cross-sectional Programmes*
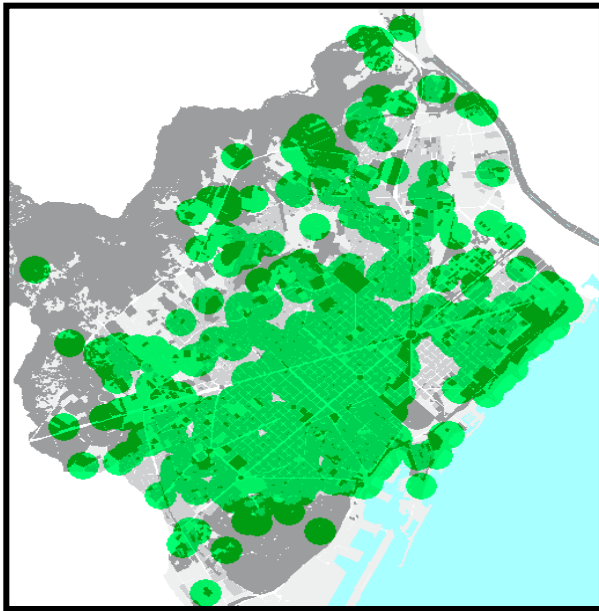
Aims

To achieve **maximum coverage** to enable the **sensorisation of the city**, ensuring compliance and **deployment of aerials**.

Description

Integrating the various existing **networks** in Barcelona into a single one by promoting the **deployment** of infrastructures for **mobile phones** and **new-generation networks**.

Strategic Projects

1. **Aerials Plan**
2. **New telecommunications network**
3. **WIFI (Extension to 1527 hotspots)**
4. **FTTH deployment**
5. **Video-conferencing**

Principal Partners

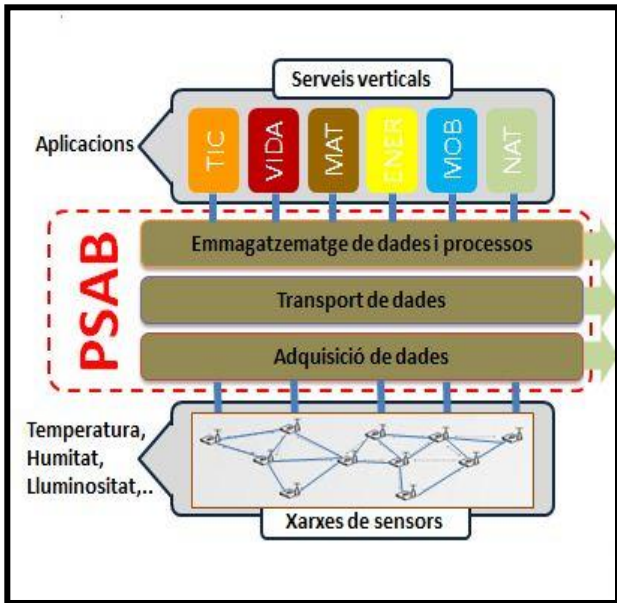abertis   movistar   yoigo   orange   vodafone   CISCO

WIFI WITH ENVIRONMENT AND LOCALISATION SENSORS

22@ Barcelona District

Aims	**To make** app and sensor suppliers **independent**, by allowing a **multi-supplier** scheme.
Description	**Opening up** infrastructures, information, etc., to separate technological solutions from their suppliers, by standardising sensors and creating simpler apps with more solidarity.

Strategic Projects	1. **Sensor Platform (SENTILO)** http://www.sentilo.io/wordpress/ 2. **CityOS** 3. **iCity** [1]	4. **CityDB** 5. **BCN Cloud** 6. **Cloud Opting** [1] 7. **City SDK** [1]

Principal Partners	abertis openTrends CISCO MEDIAPRO

[1] *European Projects*

Smart City Applications

- Situation room
- Control Centre
- Services' Applications

Support services for SmartCity business apps

City OS

Big Data (BBDD)
Prediction

Modelling
Open Data

Standard Interoperation Interface with Information Sources

Territory

Basis Info

iCity

External Control Centres

DATA + APPS
- City Open
- Open data
- Dynamic Data
- Historical Data

Sensor Platform — BD

Other sensor platforms — Scadas / Video

Sensors

Social Networks

IRIS
Mycelium
APPS

City Information Sources

Sensors

Sentilo (open source)

Other Corp. Platforms

NEW ARCHITECTURE

3. SMART DATA

Aims	**Integrating, analysing, sharing and measuring** the information on the city and its **services.**
Description	Having **tools** with city data that enable the city's level of development to be measured and its **governance** improved.

Strategic Projects
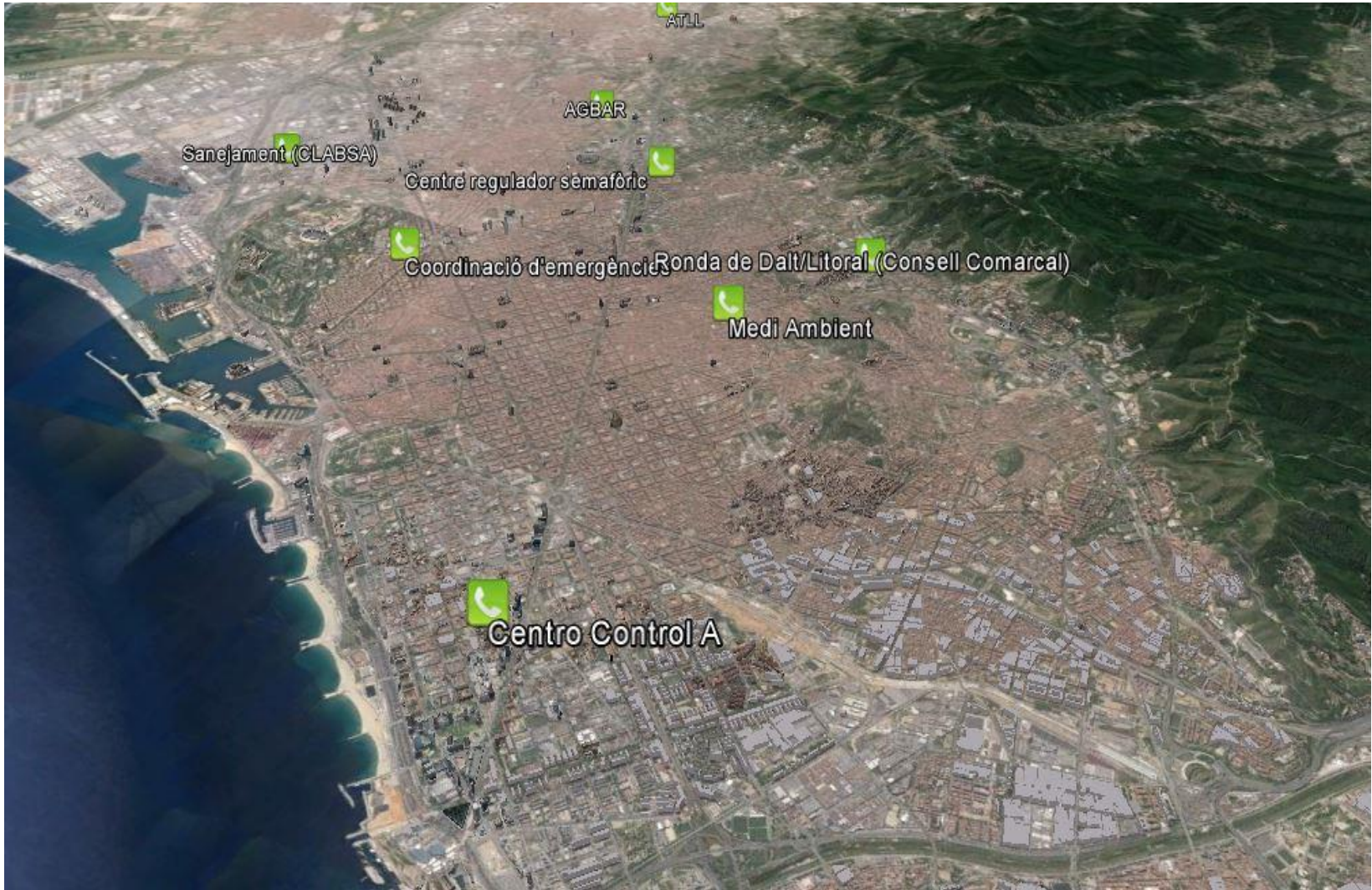
1. **City Indicators**
2. **Situation Room (Project with Cityzenith included)**

Principal Partners

Microsoft bism@rt Business Intelligence The World Bank CITYZENITH The Data Platform for the City

CONTROL PANEL
SITUATION ROOM

4. SMART LIGHTING

Aims	**Ensuring** compliance with **lighting criteria** (colour temperature, levels, uniformity, contrasts, etc.) required by the city for **more efficiency**.
Description	**Implementing** a lighting plan that follows the guidelines of the smart lighting concept, i.e. a lighting technology designed for **energy efficiency**.

Strategic Projects

1. Deployment of lighting systems according to their operational type, LED technology and sensors.
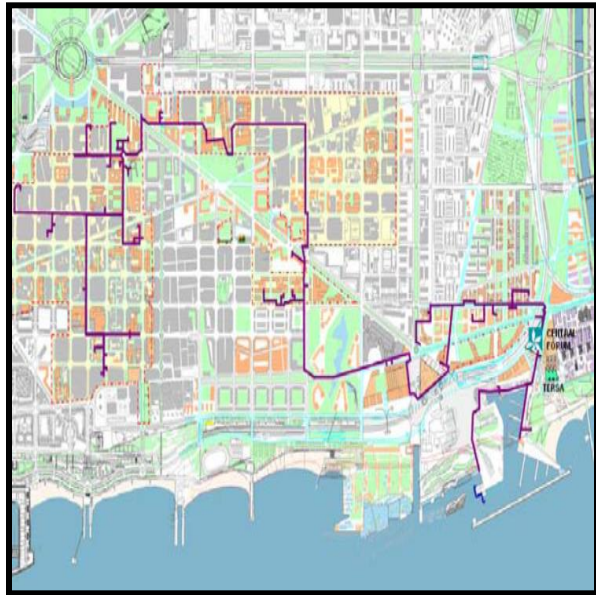
Principal Partners

PHILIPS   **Schneider Electric**   **CISCO**

LIGHTING MASTER PLAN

Barcelona

	Aims	Promoting full **independence** in the realm of **energy**, including buildings.
	Description	A series of initiatives aimed at **energy self-production and self-consumption** by raising awareness among the population.

Strategic Projects

1. Energy Self-Sufficiency in buildings
2. Distribution and consumption network
3. Heating and cooling networks
4. Energy Self-Sufficiency Catalogue
5. Electric-panel monitoring
6. Wind Turbine
7. Municipal Energy Operator

Principal Partners

districlima · Schneider Electric · SIGE Sociedad Internacional de Gestión y Evaluación, S.C. · endesa · GDF SUEZ

5. ENERGY SELF-SUFFICIENCY

BARCELONA ENERGY SELF-SUFFICIENCY PLAN
Barcelona

Aims	**Providing** the city with **smart management of water resources**, both in the administration of ground and underground water and in the rationalised use of public services (irrigation and fountains).
Description	**Automating, testing and remote-controlling** irrigation, fountain and sewer systems to make more efficient use of water resources.

Strategic Projects	1. **Remote-controlled irrigation** 2. **Remote-controlled ornamental fountains** 3. **Smart sewerage systems** 4. **Urban robots[1]**

Principal Partners	

[1] *European Projects*

SMART IRRIGATION
Gardens along Pg Taulat at the junction with C/ Josep Pla

7. SMART MOBILITY

Aims	A **holistic** vision of mobility, by introducing ICT components, to improve urban mobility and make electric vehicles a Barcelona benchmark.
Description	Adding ICT elements to the various players involved in **Mobility** (Vehicles, Energy, Infrastructures and Individuals), to achieve Smart Mobility

Strategic Projects

1. Electric Vehicle Board
2. Live Platform
3. Smart Parking
4. Green eMotion
5. Sustainable Mobility Plan
6. eBici
7. MOTIT
8. Automated Driving (BB-CAD)
9. DUM area
10. Kan Go

Principal Partners

Live Plug in Barcelona · GDF SUEZ · B:SM Barcelona de Serveis Municipals · Schneider Electric · Endesa · RACC · TMB Transports Metropolitans de Barcelona · Smile Smart Green Innovative Urban Logistics for Energy Efficient Mediterranean Cities · saba aparcaments · Med European Union ERDF Union Européenne FEDER · SEAT

Electric Vehicle Recharging Point
Glòries

BCN SMART CITY

Aims	Preserving the biodiversity and achieving an **ecological infrastructure** capable of offering **socio-environmental services**, bringing nature into the city and making it more fertile. Promoting a **nature-territory-public connection.**
Description	Deploying the **Green and Biodiversity Plan** with the 10 strategic lines and 68 initiatives it contains.

Strategic Projects

1. **Drafting protocols for biodiversity preservation**
2. **Implementing Green Corridors**
3. **Rooftops and green roofs plan**
4. **Dividing walls plan**
5. **Buits plan**
6. **Monitoring and mapping out the state of our natural heritage**
7. **Park on Sants old train tracks**
8. **Farm Labs and Collserola terraces**
9. **Air quality improvement plan**
10. **Block interiors**

Principal Partners

everis
CREAF
UB Universitat de Barcelona
Diputació Barcelona
APEVC Associació de Professionals dels Espais Verds de Catalunya
CB Cementiris de Barcelona cementiri és ciutat
A+B Agència de Salut Pública
Generalitat de Catalunya
Galanthus
nat museu de ciències naturals de Barcelona
AMB Àrea Metropolitana de Barcelona
Parc de Collserola
PHENOTYPE Health from outside in
SEVENTH FRAMEWORK PROGRAMME

Posar en contacte les àrees naturals

Estructurar una xarxa verda interconnectada

Incorporar els espais verds com a infraestructura ambiental de la ciutat

- - - corredors verds urbans
espais amb vegetació natural o enjardinats
teixit urbà amb presència important de verd d'ús privat

GREEN URBAN CORRIDORS
Barcelona

Aims	**Remodelling** the city's main roads, zones, areas, etc., by taking on board **feasible, sustainable, efficient and effective criteria.**
Description	**Incorporating smart components** (energy efficiency, connectivity, mobility, etc.) into the transformations of the city.

Strategic Projects

1. **Passeig de Gràcia**
2. **Avinguda Paral·lel**
3. **Passeig Sant Joan**
4. **Montjuïc's New Museum Centre**
5. **Glòries**
6. **Diagonal Avenue**
7. **Super blocks**
8. **Integral plan for the improvent of public spaces.**
9. **Microdevelopments**

Principal Partners

BIM/sa Barcelona d'Infraestructures Municipals

urbiotica

CISCO

world sensing

REMODELLED URBAN ZONE

Plaça de les Glòries

10. SMART URBAN FURNITURE

Aims	**Redesigning** public objects put up in Barcelona to make them **sustainable**.
Description	**Designing urban furniture** in line with the criteria and the **smart-city strategy** (Habitability, Feasibility and Sustainability).

Strategic Projects	1. **Smartquesina** 2. **Kiosks** 3. **Cyclist Panel** 4. **Smart Slabs**

Principal Partners	TMB Transports Metropolitans de Barcelona JCDecaux CISCO

SMARTQUESINA

Fira Gran Via

11. URBAN RESILIENCE
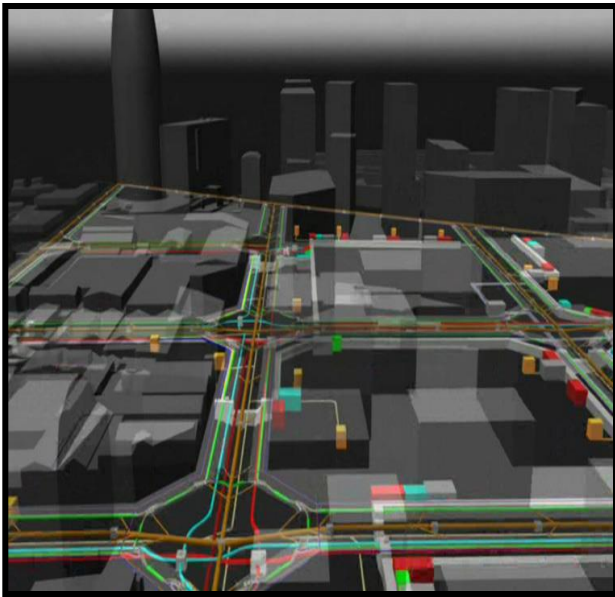
Aims	City's **prevention, resistance and** rapid **recovery** from impact or situations of crisis, which put the continuity of its services at risk.
Description	**Detecting, analysing and predicting** the city's **risks**.

Strategic Projects	1. **Joint Control Room** 2. **Resilience Board** 3. **United Nations Programme** 4. **Technological Security**

Principal Partners	
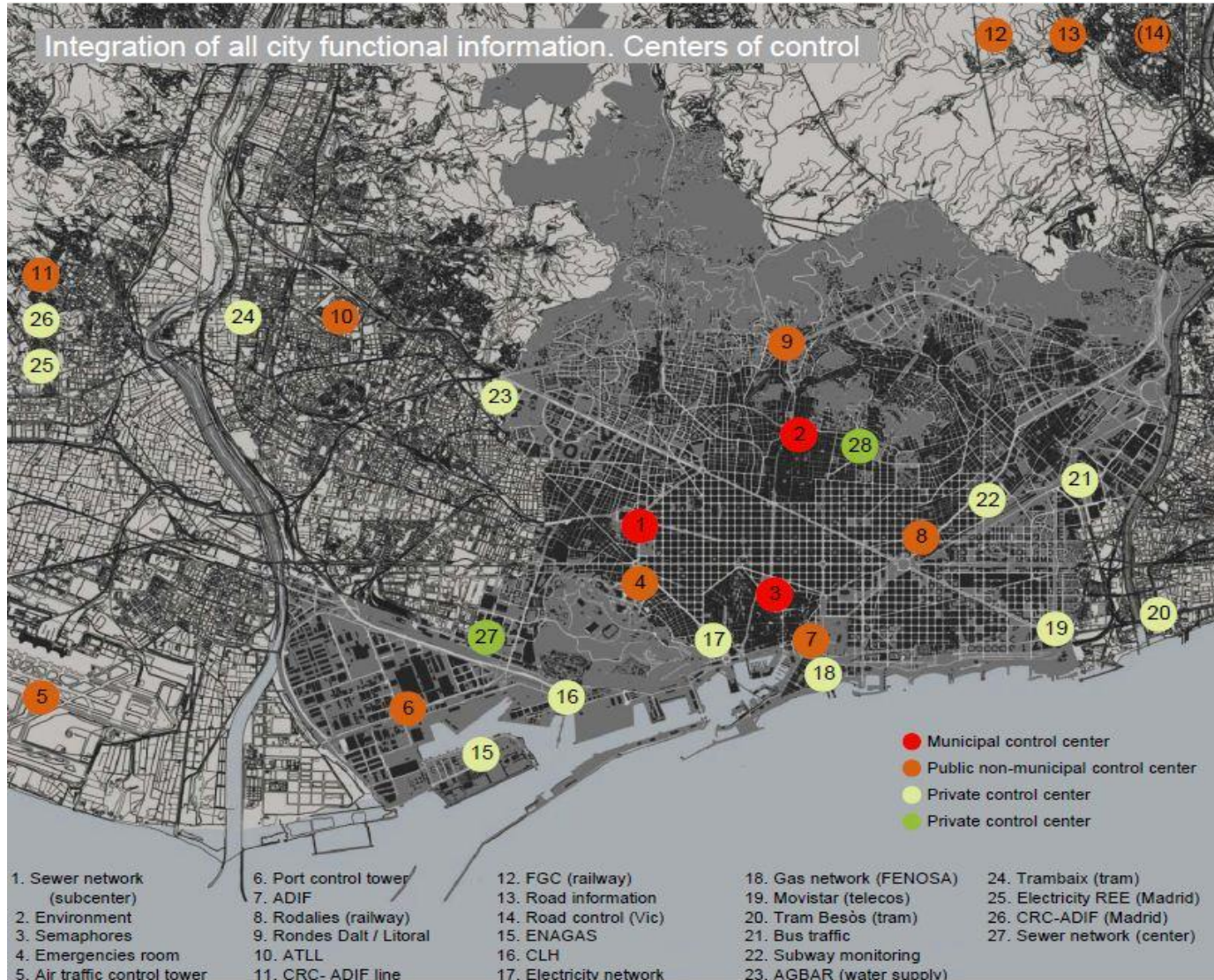
Control Centres
Barcelona

Aims	Exploiting the city's **resources and services** to the full, for its own and its residents' benefit.
Description	**Endowing** the public with the city's resources for their own **development and profit**.

Strategic Projects	1. **Manufacturing Centres** 2. **Manufacturing Laboratories (Fab Lab)** 3. **Barcelona + Sustainable Map** 4. **Spaces for inclusion** 5. **ICT volunteers plan**

Principal Partners	GOTEO FAB LAB BARCELONA MIT Massachusetts Institute of Technology

FABKIDS WORKSHOP

Fab Lab Barcelona

Aims

To promote interaction among the **public, administrative procedures and services of the city**.

Description

Having an **efficient e-Government** service on which basis, public data can be opened, exploited and ultimately used **to the full**.

Strategic Projects

1. **Open Data**
2. **Virtual Citizen Help and Information Office (OVAC)**
3. **eGovernment**
4. **Open Government (GO) http://governobert.bcn.cat/**

Principal Partners

CISCO   *Microsoft*   bism@rt Business Intelligence

13. OPEN GOVERNMENT

VIRTUAL CITIZEN HELP AND INFORMATION OFFICE - OVAC

Casa del Mig 2

14. BARCELONA IN YOUR POCKET

Aims	Promoting the **use of mobile technologies** for accessing city services, **boosting the mobile industry** and positioning Barcelona as a **mobile-technology benchmark**.
Description	**Developing and promoting apps** that make life easier and more comfortable for residents and visitors to Barcelona.

Strategic Projects

1. **Barcelona Contacless**
2. **Mobile apps**
3. **Digital Identity in mobiles**
4. **Apps4bcn**

Principal Partners

Clear Channel
movistar
indra
A4BPRO
"la Caixa"
MOBILE WORLD CAPITAL BARCELONA

BCN ID

Towing - Procedures

15. SMART WASTE COLLECTION

Aims	Optimising the management of urban waste.
Description	Providing a **smart**, automated **waste**-collection **system** and improving the planning and rates for recycling.

Strategic Projects

1. **Pneumatic waste collection**
2. **Sensorisation of containers**
3. **Organic waste recycling**
4. **Waste prevention plan**

Principal Partners

ROS ROCA   urbiotica

PNEUMATIC WASTE COLLECTION
Plaça Lesseps

16. SMART REGULATION

Aims	Integrating smart city projects in the city and **progressively applying these types of solutions**.
Description	Including in **smart-city contractual clauses in public tenders**, for both the provision of equipment and services.

Strategic Projects

1. **Tenders**
2. **Government measures**
3. **ICT Master Plan: Deployment of ICT services in public roads (PDTIC)**
4. **Agreements**
5. **Acefat: integrated management of utility related urban works.**

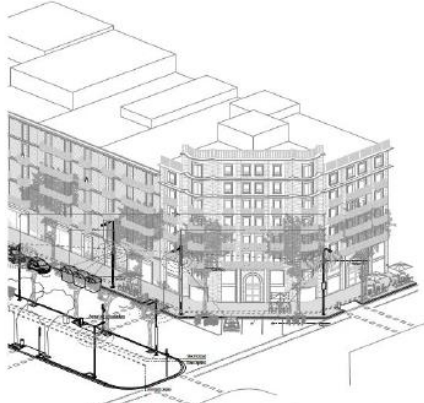**Principal Partners**

Cercle Tecnològic de Catalunya
CTecno
abertis
anteverti
GARRIGUES
ABOGADOS Y ASESORES TRIBUTARIOS
acefat
infraestructures de serveis públics

GOVERNMENT MEASURE PDTIC

May 2014

Aims	Creating a **forum for dialogue and experiments,** to innovate and investigate on behalf of every kind of association, organisation etc., within the smart city realm.
Description	**Setting up and promoting** collaborative spaces on behalf of any type of body that can develop and test its innovative smart-city solutions.

Strategic Projects	1. **Smart City Campus** 2. **Smart City Tour** 3. **Smart City Cluster** 4. **Mobile World Lab** 5. **Spark Lab**	6. **Barcelona Institute of Technology (BIT)** 7. **Barcelona Open Challenge** 8. **Barcelona Growth** 9. **mStartUp**

Principal Partners	abertis BARKENO ADVISORS urbiotica zolertia CISCO Microsoft indra world sensing C|D bitcarrier GO WITH THE FLOW SIIUR

SMART CITY CAMPUS

22@ District

Holistic Areas of Healthcare of Barcelona
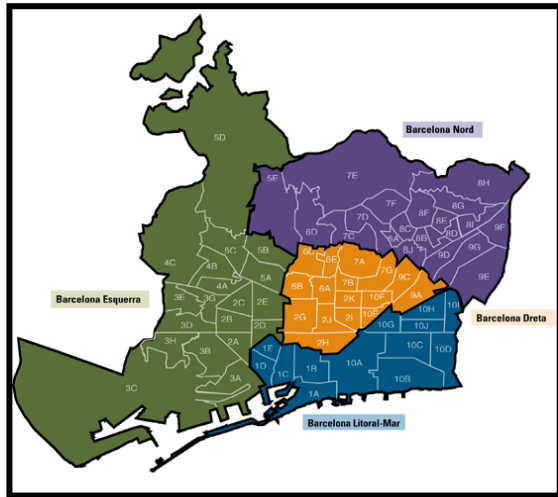
Aims

Transforming Barcelona's **Healthcare and Social Services system** and leveraging ICTs to bring it closer to the citizens.

Description

Developing tools and deploying the information network to make it available to professionals and citizens.

Strategic Projects

1. Comprehensive Ageing
2. Telephone helpline service ICT services for the elderly and dependent people
3. Radars and Vincles
4. Online Consultation
5. Digital Identity: My Healthcare
6. House Puerperium
7. Electronic prescription
8. Urban desfibrillators

Principal Partners

Generalitat de Catalunya

MOBILE WORLD CAPITAL BARCELONA

TELE-CARE

Aims	Promoting, educating and raising awareness among children on mobile technology.
Description	Developing every type of mobile initiative in schools and other areas, by providing the suitable material (tablets, sensors, etc.).

Strategic Projects

1. Educat
2. mSchools
3. Raspberry BCN (Smart Hort)
4. 4DLife
5. STEM
6. Mobile Social Day
7. mLearning
8. Leaders in ICT promotion
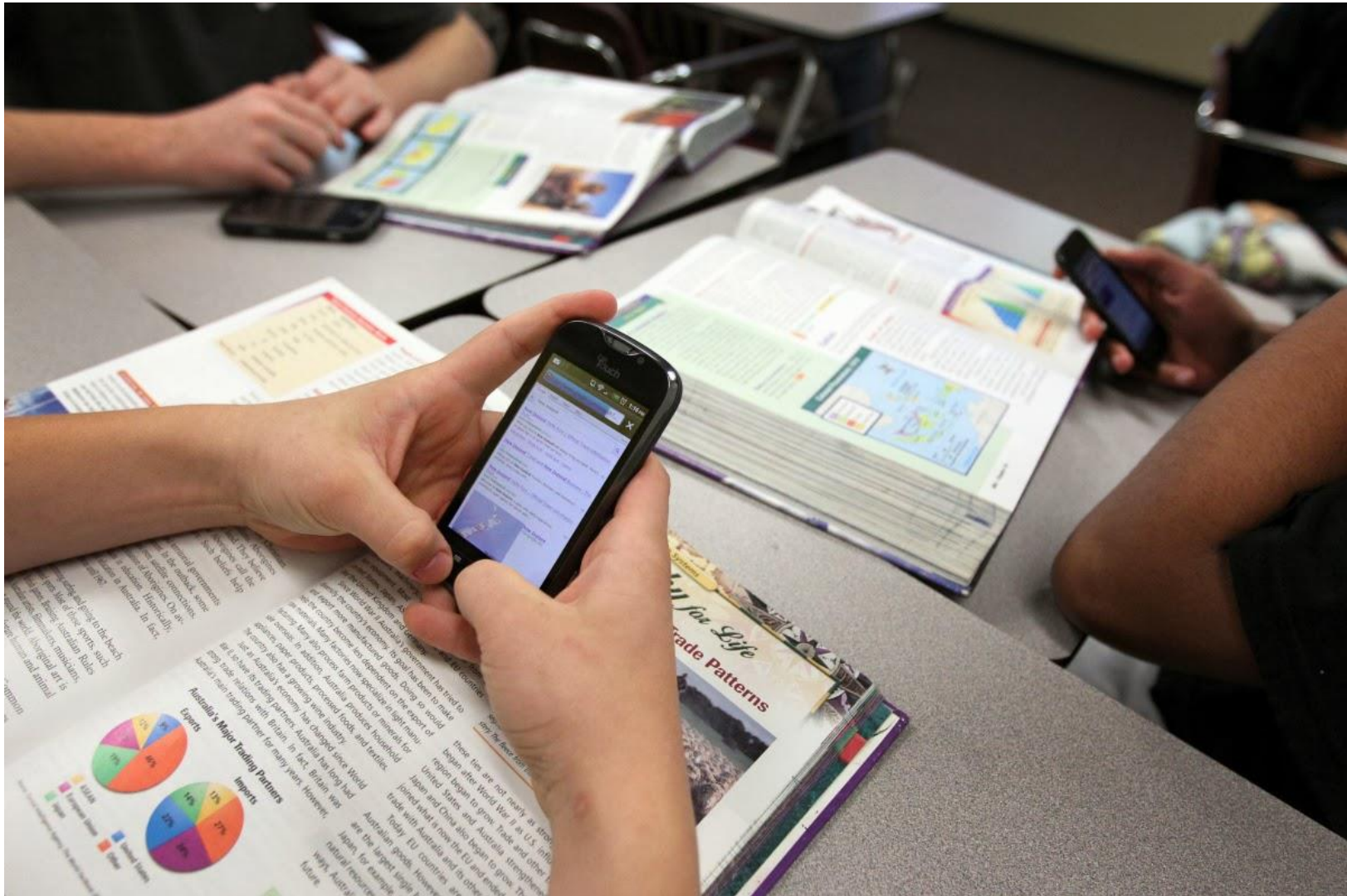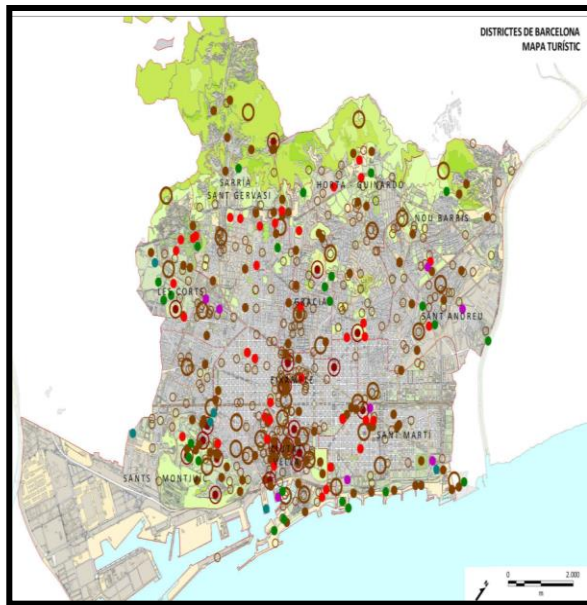9. Mobile Class
10. Smart education track

Principal Partners

mSCHOOLS
Barcelona School

DISTRICTES DE BARCELONA
MAPA TURÍSTIC

Aims

Promoting and developing a **responsible and sustainable tourism**.

Description

A series of initiatives aimed at developing **tourist activity** in Barcelona that is noted for its **economic, social and environmental sustainability**.

Strategic Projects

1. **Tourist Information and Management System**
2. **Virtual Tourist Office**
3. **Tourism Biosphere Certification**
4. **Tourist Management Spaces**
5. **mTourism**
6. **Database on points of interest for tourists**
7. **Catalunya Experience**
8. **Tourism GIS**
9. **Smart Shopping BCN**

Principal Partners

Microsoft | TMB Transports Metropolitans de Barcelona | B:SM Barcelona de Serveis Municipals | Agència Catalana de Turisme | UNESCO Organización de las Naciones Unidas para la Educación, la Ciencia y la Cultura | ITR Instituto de Turismo Responsable | BCN+ Barcelona és molt més

Barcelona Turisme | MOBILE WORLD CAPITAL BARCELONA | | | Diputació Barcelona

Generalitat de Catalunya | SEGITTUR turismo e innovación | UNWTO World Tourism Organization | BARCELONA DIGITAL CENTRE TECNOLÒGIC bdigital | TECNIO Be tech. Be competitive | BIOSPHERE RESPONSIBLE TOURISM | TRAVEL FOREVER GSTC APPROVED

VIRTUAL TOURIST OFFICE
http://www.bcn.cat/

21. INFRASTRUCTURES AND LOGISTICS

Aims	Understood from a comprehensive perspective of the city, it involves **managing the flow of goods and services** to achieve **public satisfaction.**
Description	A series of initiatives aimed at **managing and planning** the city's infrastructures and logistics as **efficiently, effectively and competently** as possible.

Strategic Projects

1. **Smart Port**
2. **Smart Airport**
3. **Micro-distribution of goods**
4. **Industrial Ring**
5. **Model for integral management of urban tunnels.**

Principal Members

Generalitat de Catalunya · SEAT · vanAPEDAL Distribució Urbana de Mercaderies en Bicicleta · AnellaIndustrial.cat · ACC1Ó Competitivitat per l'empresa · l'Anella Automoció · i2cat FUNDACIÓ · Enginyers Industrials de Catalunya

BARCELONA PORT

22. LEISURE AND CULTURE

Aims	**Acquiring** new **values, attitudes and forms of behaviour** towards **technology, innovation, participation, etc**., in the **city**.
Description	Activities that promote the culture of innovation, experimentation, etc., while also enabling the personal growth of Barcelona city residents and/or tourists.

Strategic Projects

1. **Barcelona Laboratori**
2. **Anella Creativa**
3. **Canòdrom**
4. **Creatifi BCN**
5. **Mercè Tecnològica**
6. **Escolab**
7. **Petits Talents Científics**
8. **Grec Innovació**
9. **Technology and Sport**

Principal Partners

European Network of Living Labs · UB Universitat de Barcelona · i2cat · UB Fundació Bosch i Gimpera Universitat de Barcelona · IED Barcelona Escola Superior de Disseny · FABRA i COATS FÀBRICA DE CREACIÓ DE BARCELONA · CCCB Centre de Cultura Contemporània de Barcelona · guifi·net · upf. Universitat Pompeu Fabra Barcelona

GIANTS

Plaça Sant Jaume

Aims	**Positioning Barcelona** in the world as a centre for knowledge, development, citizen quality of life and sustainability.
Description	**Playing host to every kind of trade fair, event, congress, etc.,** in the realm of smart cities (Habitability, Feasibility, Sustainability).

Strategic Projects	1. Participation in international events 2. International events and relations (SC Expo, MWC, City Next, etc.) 3. Compromís Ciutadà 22 4. BCN Model
Principal Partners	

MOBILE WORLD CONGRESS 2013

Fira Barcelona

Aims	**Working jointly** to achieve several of the same goals for groups and all those interested who are directly or indirectly connected to smart cities.
Description	Making the most of knowledge and experiences of every member with a connection to smart cities, to **speed up the habitable, feasible and sustainable transformation of cities.**

Strategic Projects	1. **City Protocol** 2. **European Relations (European Projects)**

Principal Partners	

24. INTERNATIONAL COOPERATION

CITY PROTOCOL SOCIETY
http://www.cityprotocol.org/

http://smartcity.bcn.cat/en/

Municipal Institute of Information Technology