



Ajuntament  
de Barcelona



# Barcelona Innovation Center: Stage 1

Project presentation  
September, 2011



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- 1. Project background**
2. Urban platform: municipal network and infrastructure development
3. Barcelona development project
4. Project team and main tasks



# Refresh the concept

## Metropolis-Cisco Collaboration Framework

**metropolis** ●



**Shared Purpose**  
Improving the impact of networked ICT on global urban  
design and development for sustainable cities

Partnership for  
Urban Innovation

Global Digital  
Collaboration Platform  
for Metropolis  
Members

Leadership  
“Academy”



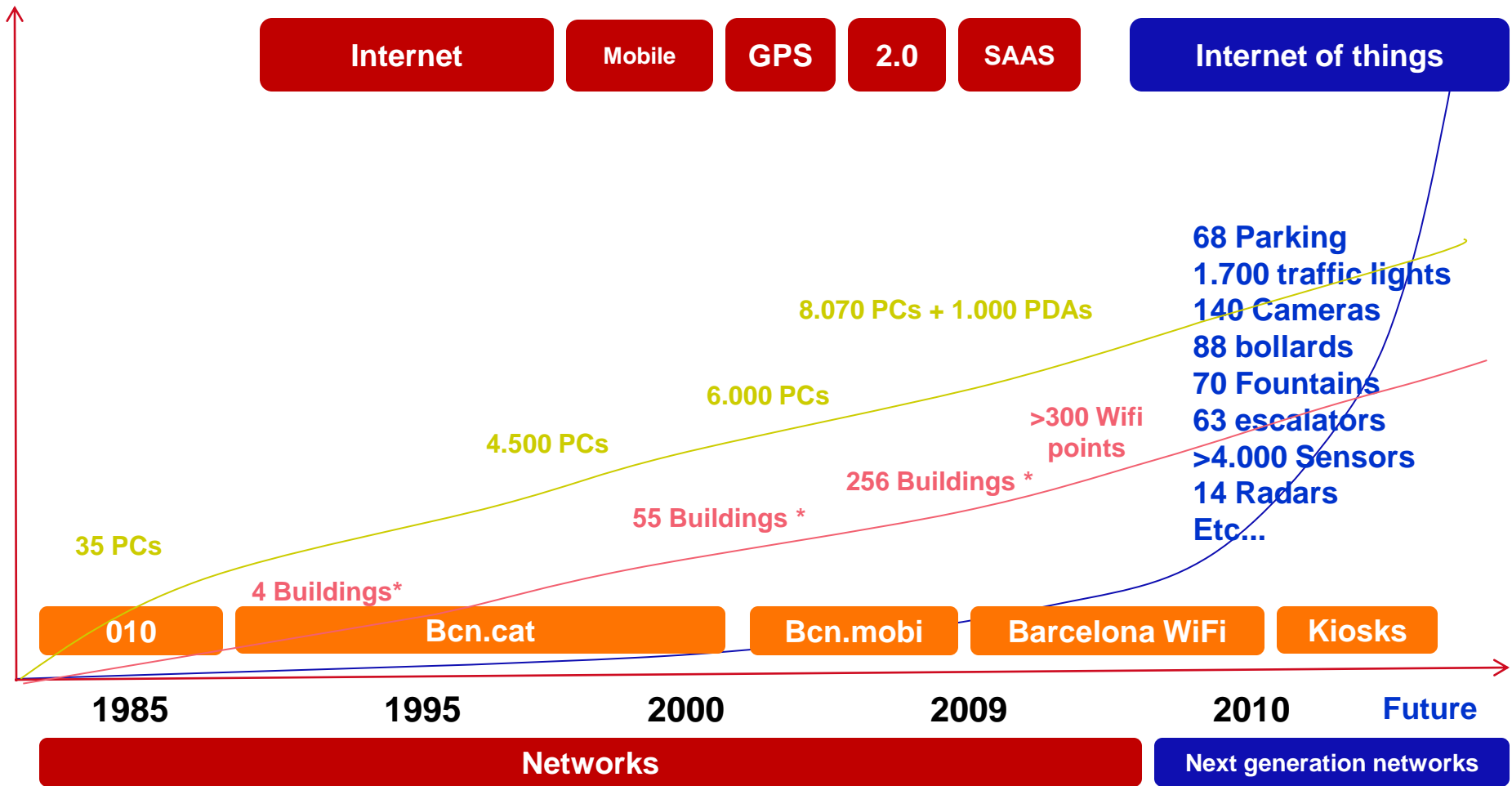
Vision 2030 – Shared Vision for Connected And Sustainable Cities



# Future connectivity demand comes from urban space



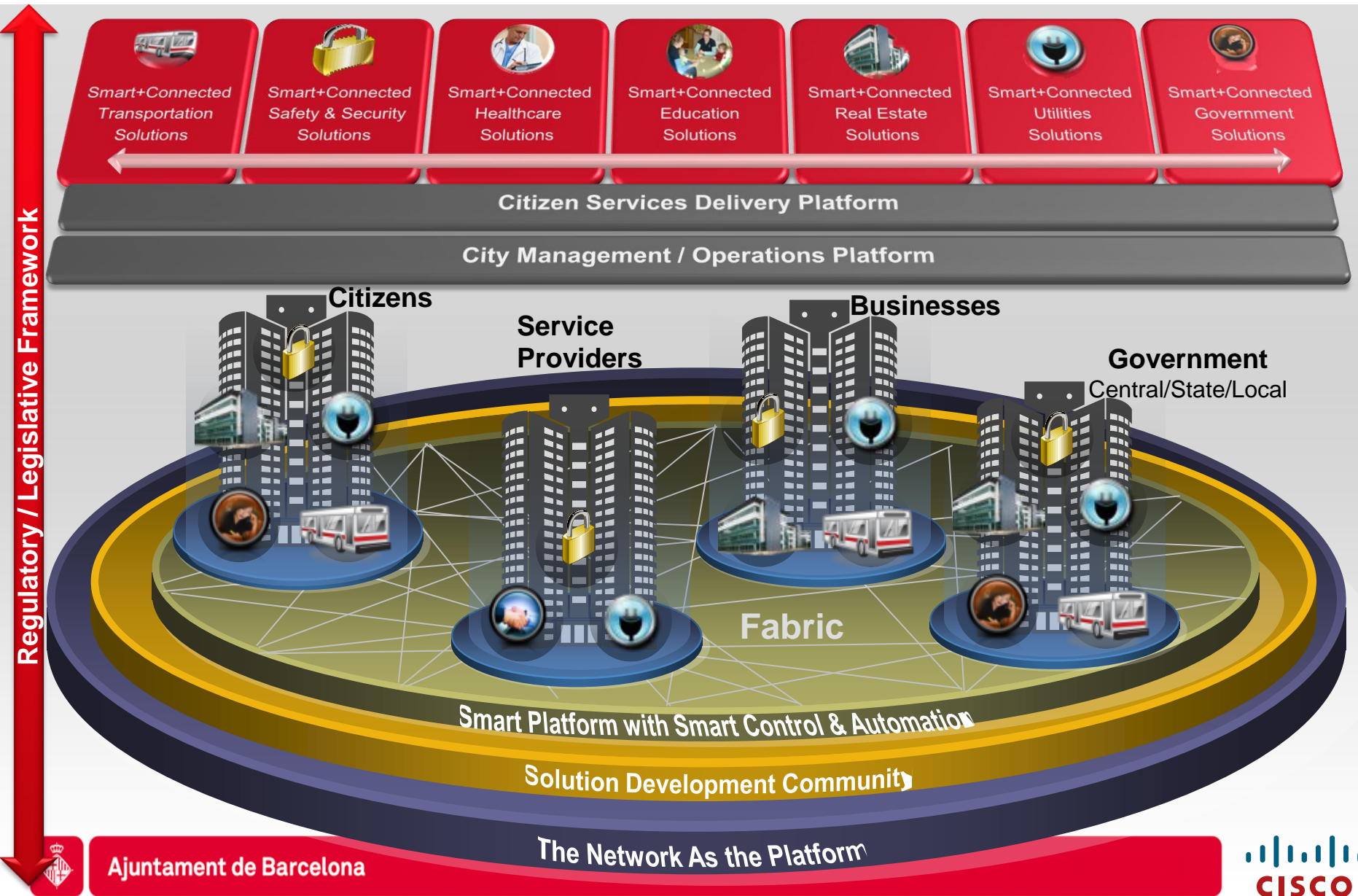
Barcelona connectivity needs evolution and future demand from urban space



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# The Smart+Connected Community





# Barcelona Innovation Centre: Stage 1

## Guiding Principle for the Partnership

### BCN brings

- Urban Planning
- City Management
- City as Living Lab
- Investment

### Cisco brings

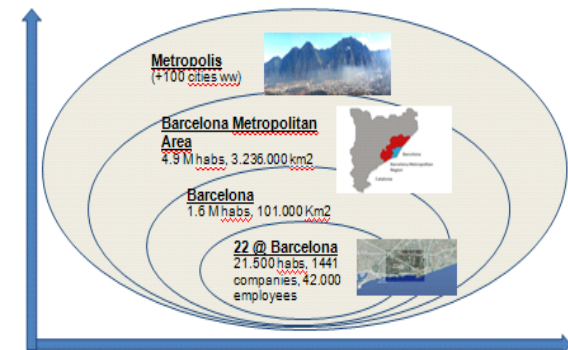
- Experience & Vision
- Technical Expertise
- S+CC Knowledge
- Investment

### To Create

- Urban Platform
- Innovation Centre
- Living Lab
- Replicable Model
- Brown field regeneration model
- Real life collaborative model

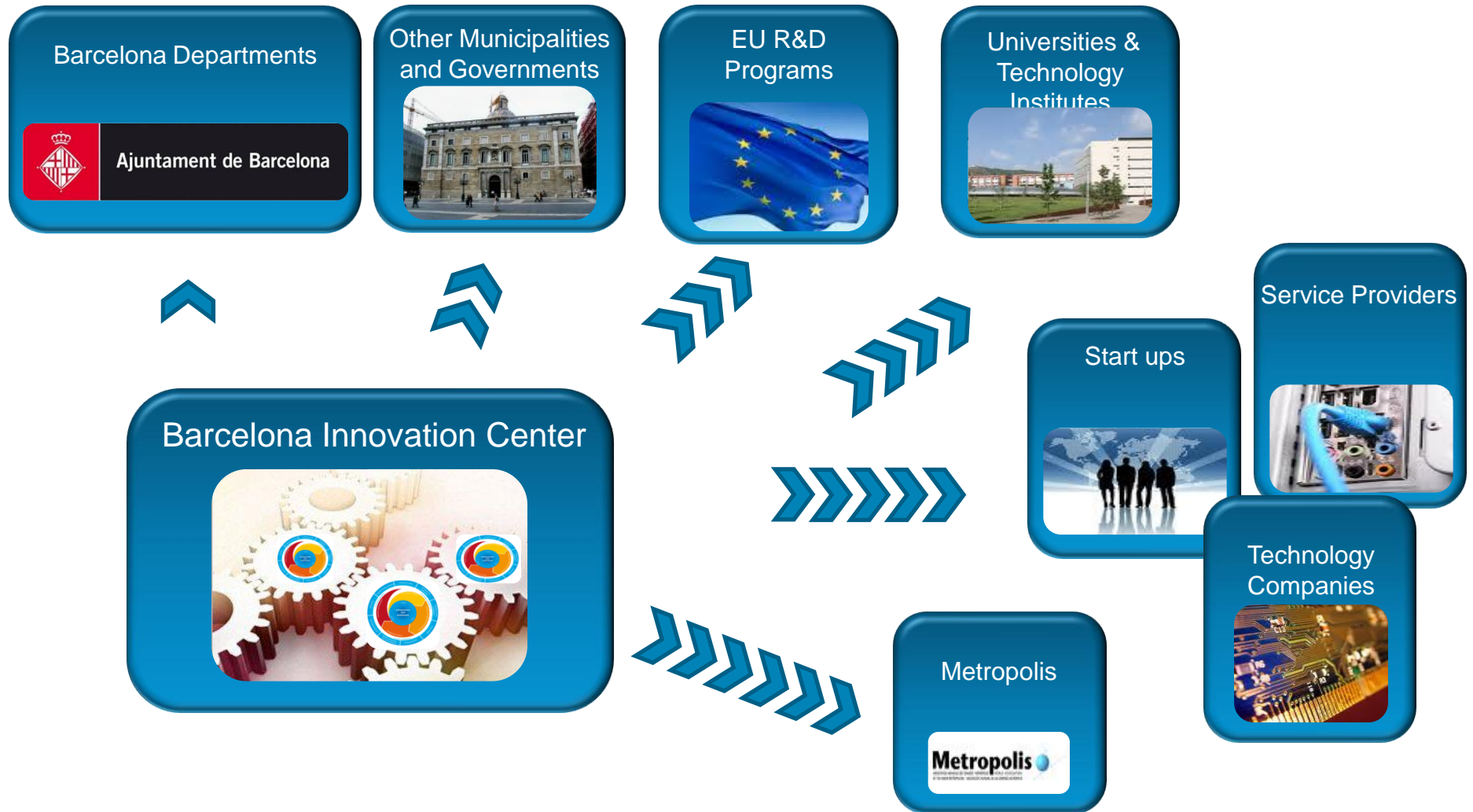
### Benefits

- BCN an end-to-end city showcase
- Replicable Model
- Innovate with Urban experts
- Design & Test new Urban services
- Access to Metropolis



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## Creating new Ecosystems & Industries



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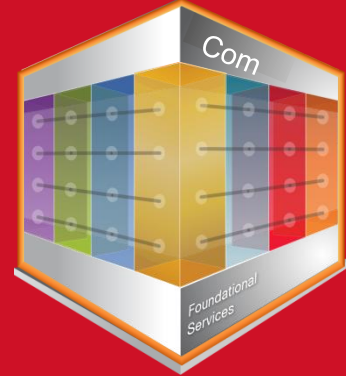
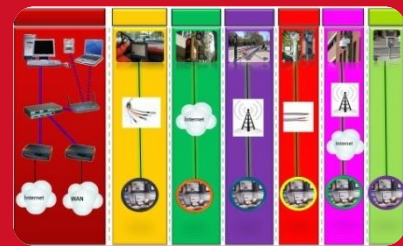
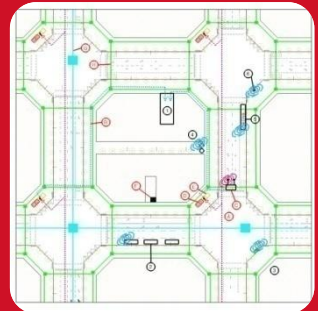




# Barcelona Urban Platform Model

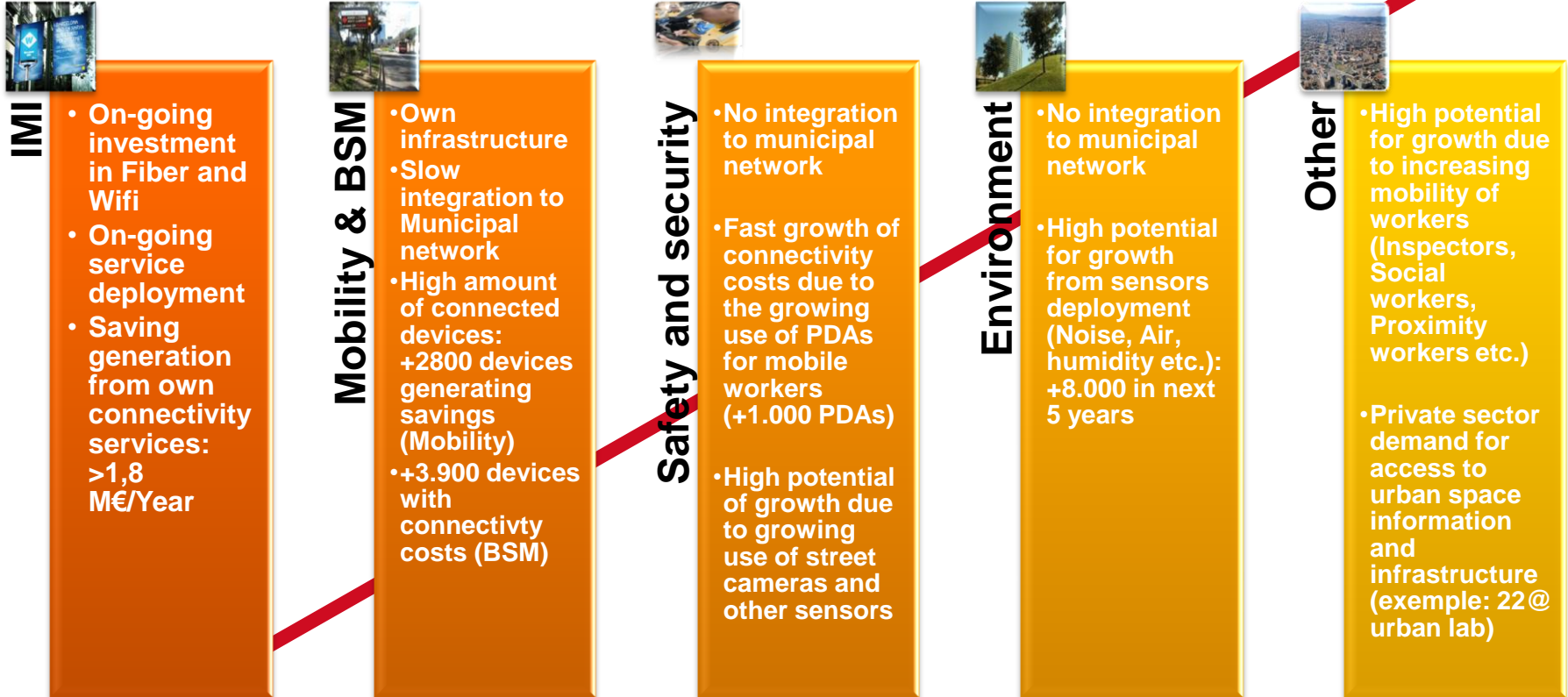


## 3 dimensions





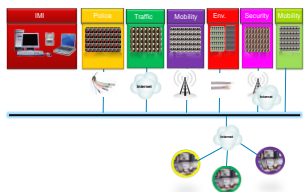
## Multiplication of isolated networks and infrastructures





# Towards a sustainable and leading growth model

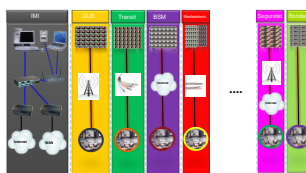
Sharing information



**Sustainable growth: urban platform**

- Optimize urban services management and integration through urban platform model development
- Low risk and Technological Trend
- Efficiency
- Scalable

Multiple and separated networks



**Unsustainable growth**

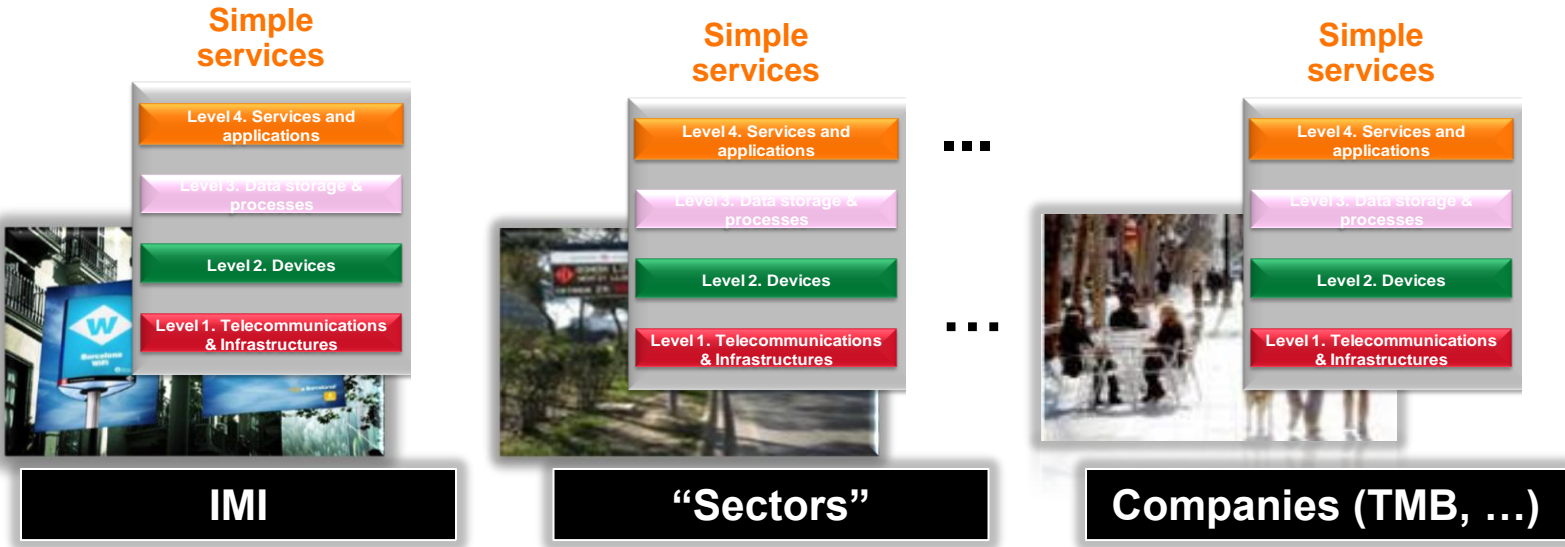
- Minimum integration of urban services
- Dependency of the growing telecommunications costs
- Complexity of management
- Limited services production capacity



# Sustainable growth: urban platform development



**Current situation**



**Integration and optimization –  
Innovation through  
innovation center**

- Optimization of urban services management
- Industrialization of services creation and scalability of platform to face connectivity needs growth
- Improve management accounting of urban services

**Urban platform model development**

**Composite services & Applications**

Per functions, users groups, security levels, information formats

Location	Payment	...	Notification
Control	Registering	...	Multimedia

Security Databases

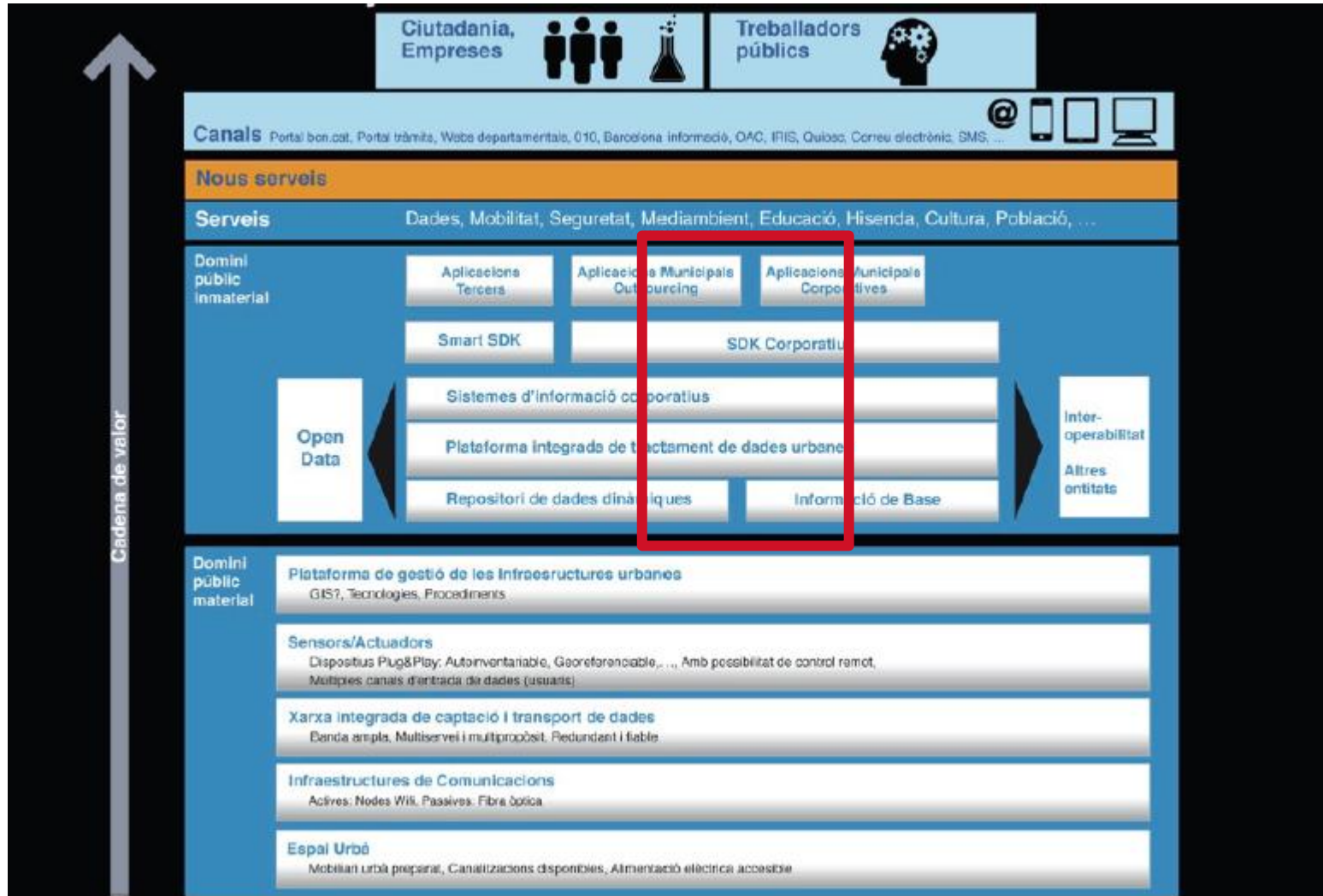
Interoperability

Mobility, safety and security, environment, infrastructures



# Barcelona Innovation Centre: Stage 1

## ➔ The Smart City Barcelona Model and BIC project

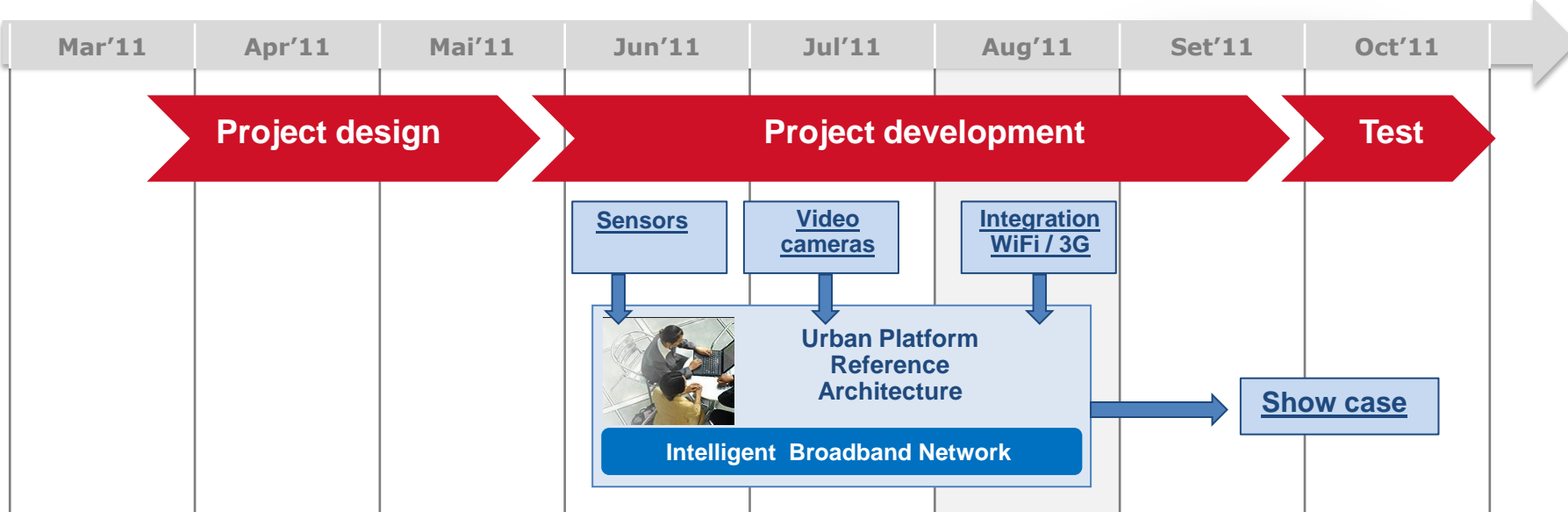
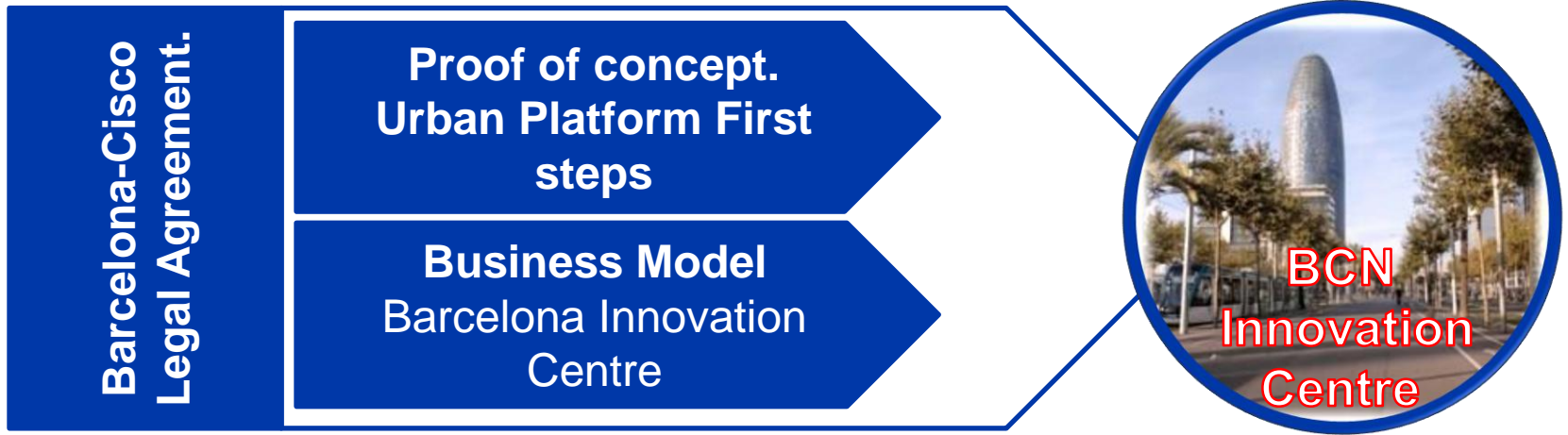




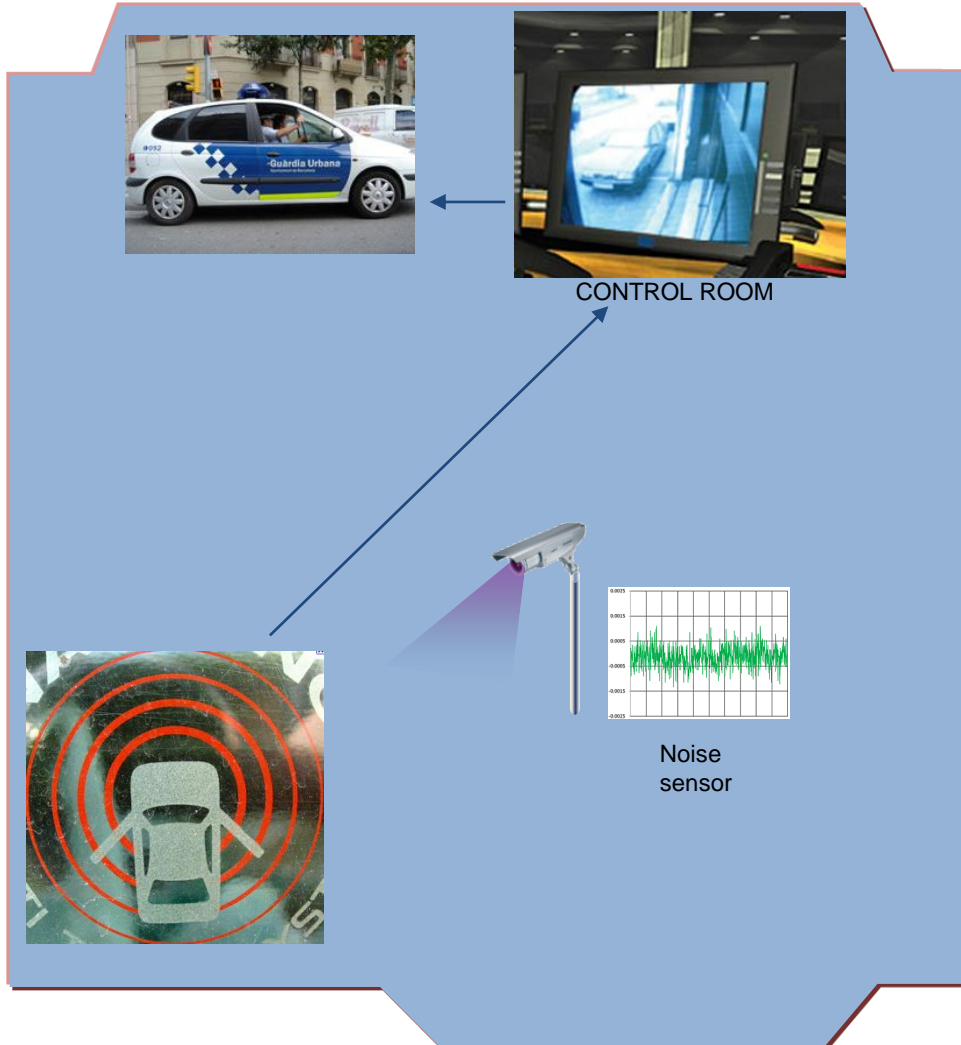
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# Barcelona Innovation Centre Journey...



## User case: Noise detection



- Noise sensor identifies noise (uncivil activities, car alarm, ...)
- Process checks noise, establishes validity.
- Closest camera streams pictures to control room.
- Control room checks image and decides if police must be alerted.
- Live video feed of incident area is routed to nearest police car.
- Police car arrives at incident area and sends images.

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## Project team

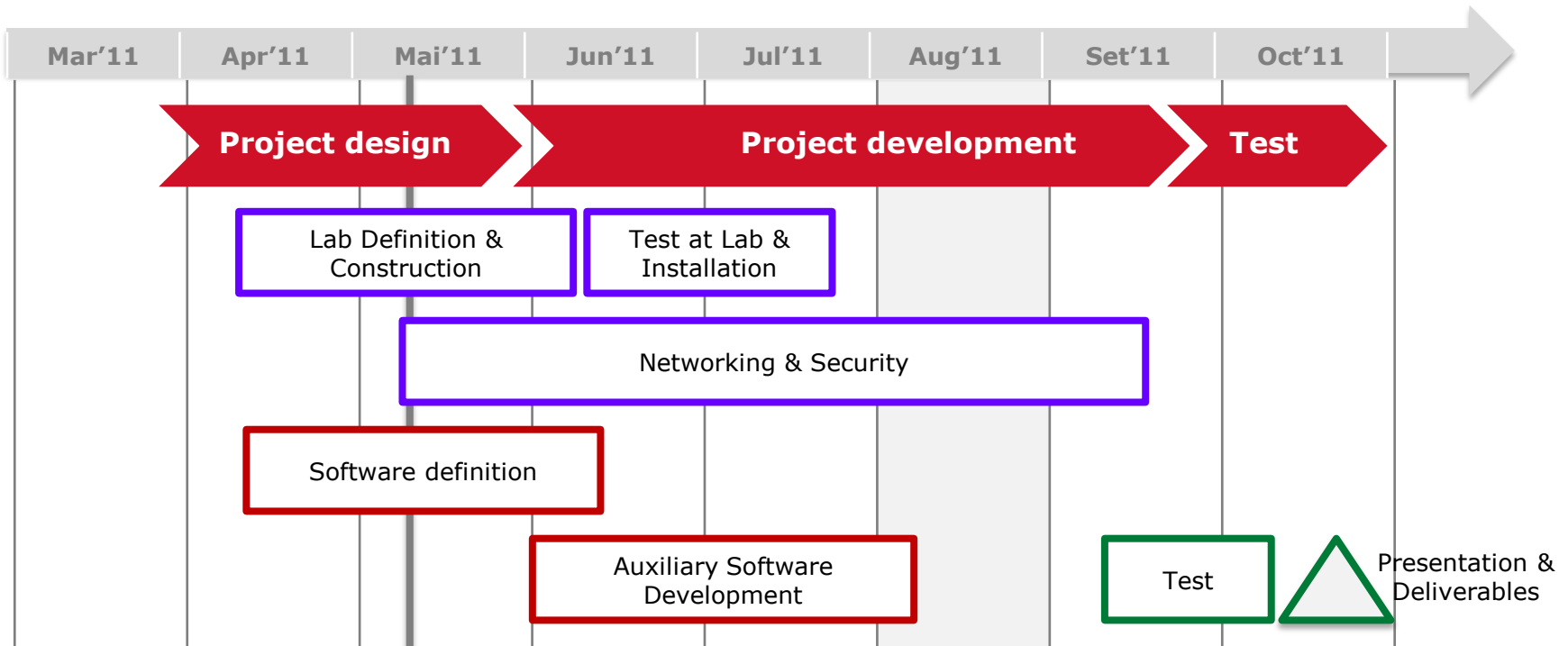




# Proof of concept/ Show case



## Planning





**Thank you**

