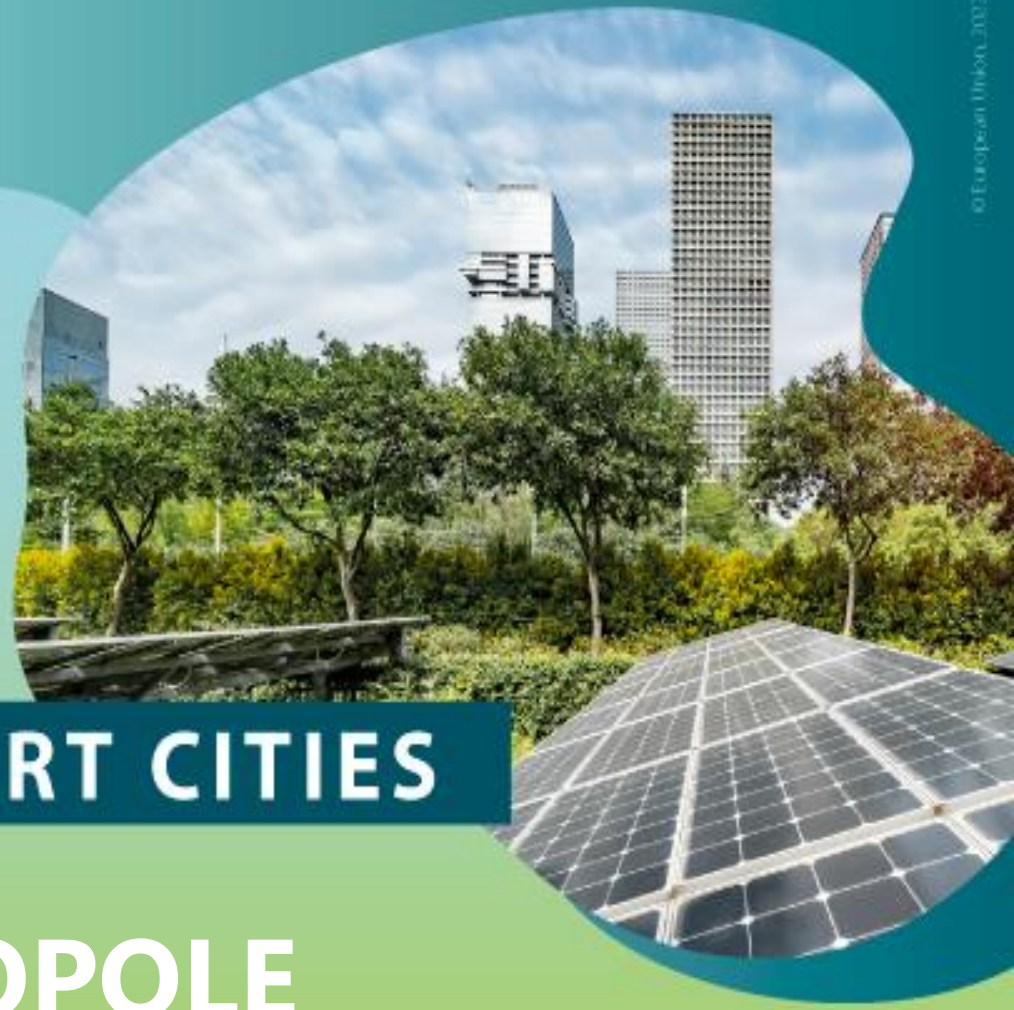
EUROPEAN UNION

EU MISSIONS

CLIMATE-NEUTRAL & SMART CITIES



ANGERS LOIRE METROPOLE

European Week of Regions and Cities side event
Delivering 100 Smart and Climate Neutral Cities by 2030

17-10-2022

#EUmissions #HorizonEU #MissionCities

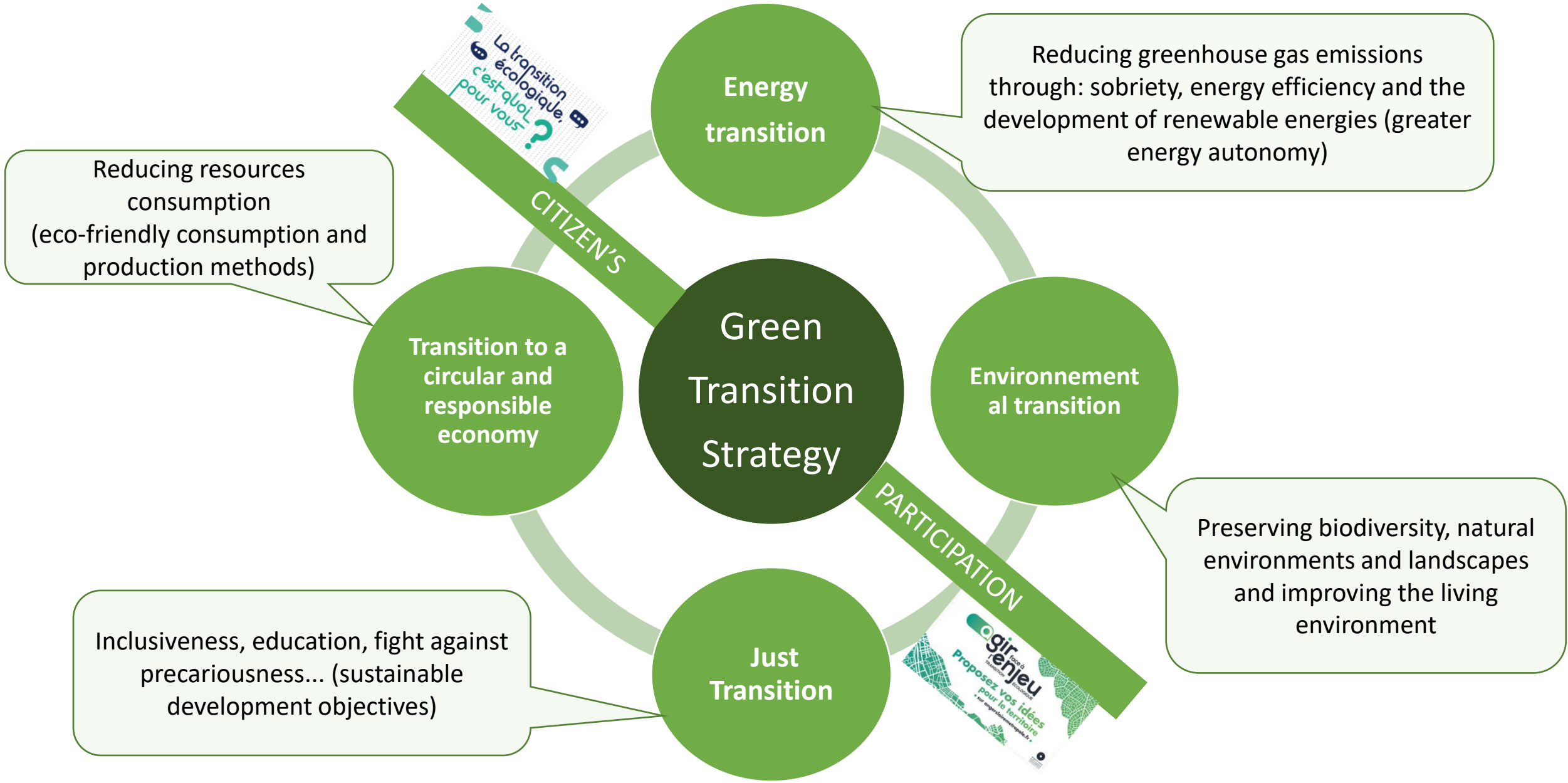
GREEN TRANSITION AT THE HEART OF ANGERS LOIRE METROPOLE

- 29 municipalities
- 290 000 inhabitants
- 43 000 students

Convention des Maires pour le Climat et l'Énergie

Cit'ergie European Energy Award®

An ambitious strategy to become a climate neutral and smart city :



Declined into an ambitious action plan and concrete actions…

Improving sobriety and efficiency in the built heritage

Buildings renovation: urban renewal of 2 neighborhoods (2700 homes); **Platform 'Mieux chez Moi'** (advice and financing offer); **30 000 street lights renovated** (-66% of consumption) ; **Energy master plan for public buildings** (2.4 M€ / year)…

Sober transportation, using new energies and alternative mobility offer

2 new tramway lines in 2022 (10 km of new tracks for more than 100 000 inhabitants); **Green vehicle fleet** (130 electric vehicles); **public network buses running on biogas ; Cycling Master plan** (250 km to be created); **Green loops**, **lowering speed limits** (30 km maximum), **a low-emission city center by 2025…**

Accelerate the development of renewable energies

Photovoltaic solar power stations , **biogas production at the wastewater treatment plant** (€1.8 million/year in revenue reinvested in ecological projects), **waste-to-energy conversion** (50,000 tonnes/year); 4 **public heating networks** (69 km network, 16,000 households heated, **72% renewable energy** (wood)

Urban planning

A reviewed Local Urbanism Plan: net zero artificialization objective; exemplary urban renewal operations…

Adaptation to climate change

A climate adaptation plan: resilience of environment, essential resources and infrastructure; preserve natural ecosystems, basic production (agricultural and water) and ensure the resilience of individuals and communities

…and with the help of an ambitious smart territory project:

Angers Loire Métropole SMART TERRITORY

angers loire métropole
communauté urbaine

Angers

ANGERS, CAPITAL OF PLANTS

Végépolys-Valley
Global competitiveness cluster

Campus du végétal
France's leading centre for training, research and innovation

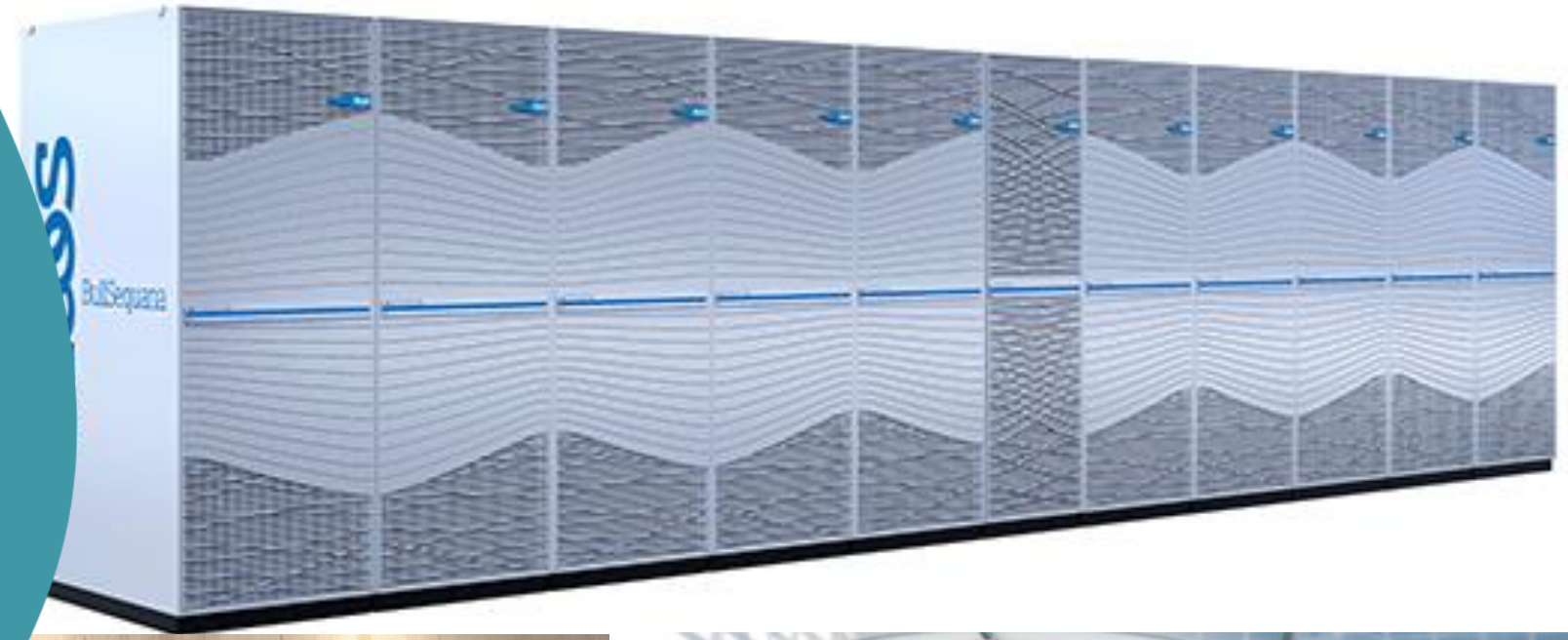
OCVV
Office Communautaire des Variétés Végétales

ANGERS,
ELECTRONIC CAPITAL

Technocampus
We-Network

Angers French Tech
ecosystem

IoT at SmartWorld



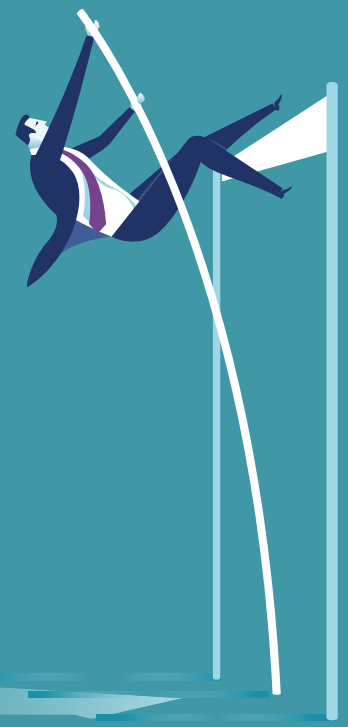
HOW TO REMAIN THE BEST PLACE TO LIVE FOR TOMORROW?

>Environmental emergency

>Public finance constraints

>Link between public services and service users to be reinvented

SMART CITY



Accelerating our Ecological Transition

Three objectives:

Save resources by relying on technological innovations

Innovate together in order to propose new services to inhabitants

Lead better to anticipate better

OUR SMART CITY PROJECT

« Investing today for tomorrow »

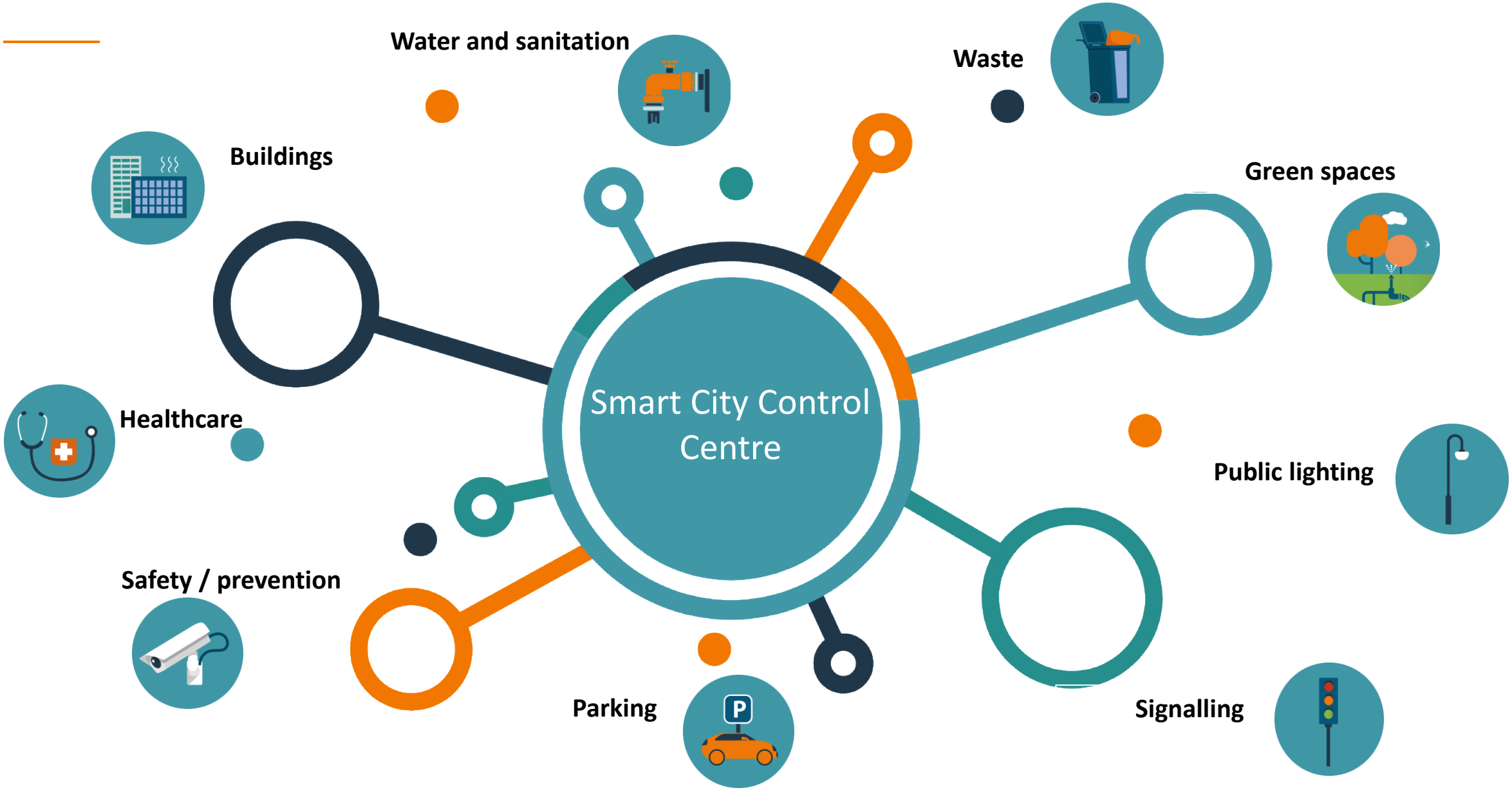
Investment of 178M€ over 12 years

- Binding part: €121.2 M excluding tax
- Optional parts: €22.8 M excluding tax
- Order scenario: €34.0 M excluding tax

Projection of €100M savings over 25 years

- Renovation of public park lighting and optimisation of use
- Thermal renovation and better use of buildings
- Smart watering systems in green spaces
- Etc.

A 360°LOOK INTO A UNIQUE PROJECT



A project at the heart of the transformations

Ecological Transition

Smart City Global Performance Contract

Economic and attractiveness development

Digital User Relationship

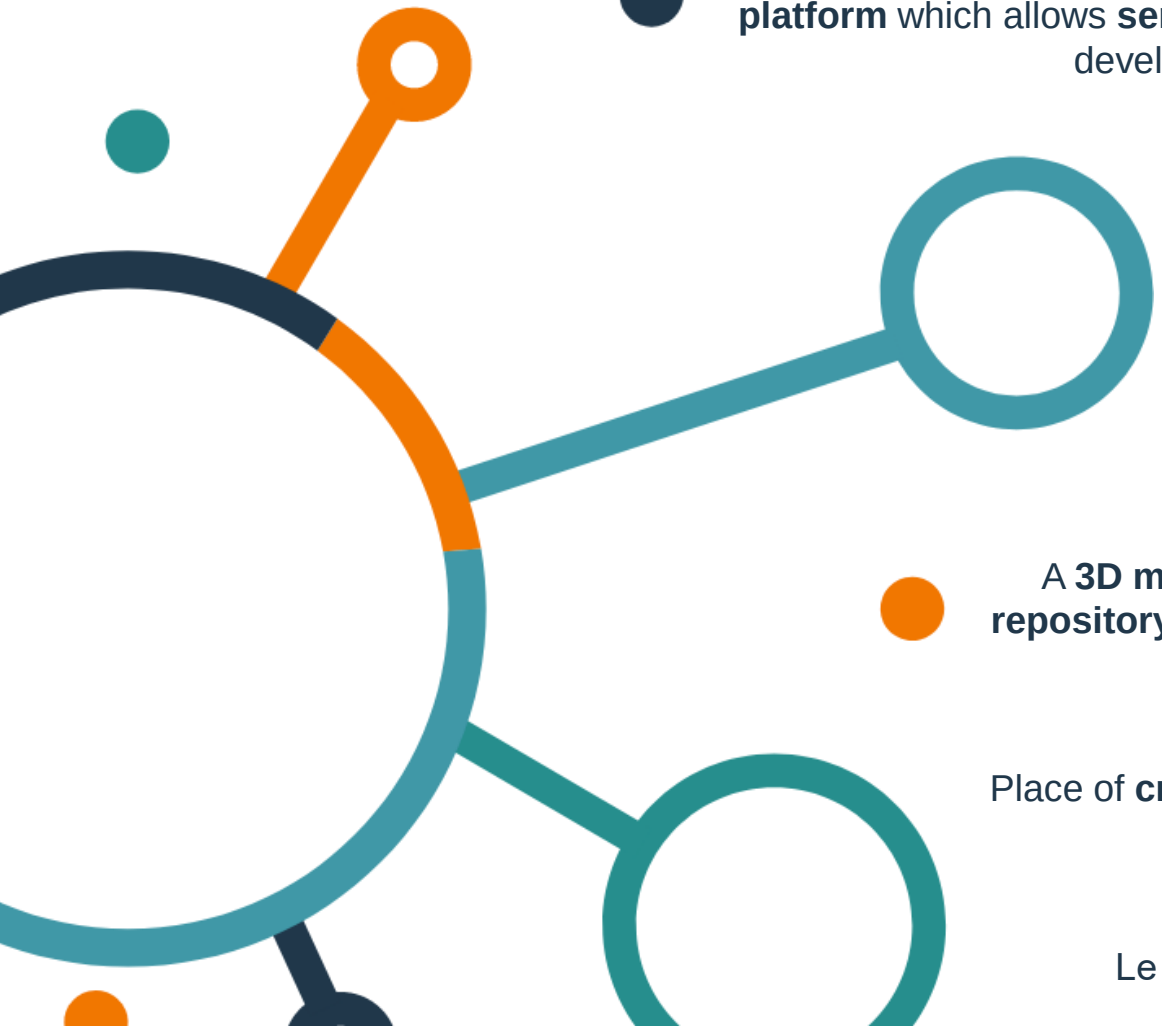
«A real internal transformation of our organization beyond a technological revolution»

OUR SMART CITY PROJECT

					
Aim	Reduce buildings energy use	Reduce water use in parks and gardens	Reduce public lighting use	Reduce the carbon footprint of departments	Optimise travel
Methods	3500 water, electricity and gas sensors	Smart watering control thanks to 400 soil humidity sensors	30 000 LED light points and 3600 presence sensors	Optimise waste collection rounds	Analysis of traffic flow on 132 intersections
Benefits	20% less energy use	30% less water use	66% less electricity use	10% savings on travel	A public space that is shared better

OUR SMART CITY PROJECT

THE TOOLS OF A SMART CITY



Digital Platform

A **Hypervisor connected to business supervisors**, based on a **data platform** which allows **services** to be displayed in order to encourage the development of **innovative uses**

Control Centre

A **place**, an **organisation**, tools to **act and react** throughout the whole territory in connection with all the departments, but also to **measure and analyse** in order to improve

Digital twin

A **3D model** of the territory which is both a data **repository** and a **tool to help with decision making**

The Forum

Place of **creation** and **influence** bringing together:

Le Café Territoire
Le City Store
La Fabrique Numérique
Le Centre d'Echanges International