

VALÈNCIA CLIMATE
MISSION 2030

For a
sustainable
city.
For you.



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THE CLIMATE EMERGENCY CONTEXT

We all too often wonder if we can do something to avoid climate change. It is hard to think that one single person, or their actions, can directly have an impact on such a complex global problem. And yet, experiences across the globe show us that when diverse initiatives are aligned and articulated, then it is possible. And that not everything depends on major summits, unexpected discoveries or people with great ideas.

In 2020, València decided to be involved in Missions 2030, an innovation and governance system seeking to improve the life of the city and of the people who live there. And its first mission will be the Climate Mission and will aim to make the city carbon neutral over the coming decade.

Why is it necessary?

The report of the Intergovernmental Panel on Climate Change (IPCC), published in August 2021, is very clear and resounding: we are not doing enough globally regarding climate change... and, above all, we are not doing it quickly enough. As the report states: "Unless there are immediate, rapid and large-scale reductions in greenhouse gas emissions, limiting warming to close to 1.5 °C (...) will be beyond reach". The likely scenario is that global warming will be in the 2 to 4.5 °C range. Extreme heat events will be 4 times more likely with 1.5 °C more. Critical health thresholds will be reached with 2°C.

The challenge is, therefore, not only for the cities to be climate neutral, but for that to happen as soon as possible. The climate emergency is real. The urban transition to sustainability must be accelerated.

European cities occupy 4% of the surface area of the EU, but 75% of EU citizens live in them. Cities worldwide account for over 65% of energy consumption, plus 70% of CO2 emissions. They will be home to around 80% of the world's population by 2050.

In the climate emergency context, cities are called up to play a crucial role in combatting climate change and are key to the solution.

En este contexto de emergencia climática, las ciudades están llamadas a ejercer un papel crucial en la lucha contra el cambio climático y son clave en la solución.

PURPOSE

For València to be a climate-neutral and smart city by 2030, and for that to be achieved by (and for) the citizens, within the context of the European mission of 100 European climate-neutral cities by 2030.

The València 2030 Climate Mission is València's contribution to the EU reducing climate emissions by 55% between now and 2030 and to becoming climate neutral by 2050.

There are obvious benefits to decarbonising València and are part of our aspirations: a healthier population, less traffic jams and noise, less pollution, more natural areas available, better habits, more innovation, etc.

We aspire to make València a city that is healthier, more sustainable, more shared, more prosperous and, in short, more liveable and more loveable for people.

HOW WILL WE DO IT?

An Urban Strategy

València has a differential approach to the mission. We plan to address the mission developing València 2030 Urban Strategy that merges the 2030 Urban Agenda with a systemic mission-oriented innovation. We are convinced that the success of the SDGs and the European missions require **both levers to be** triggered and provide feedback at the same time:

- A set of bold public policies, with great impact on the proposal of the mission and inspired by the 2030 Urban Agenda.
- Systemic innovation taken to be an interconnected set of innovations, where each one influences the others, with innovation both in the parts of the system and in the ways they interconnect. Systemic innovation that drives creativity, experimentation and learning about new solutions for the greater complexities of the mission, so that once their innovative value is shown, they can be incorporated into the public policies for a greater impact on the mission.

In València 2030 Urban Strategy, public policies inspired by the 2030 Urban Agenda and systemic innovation are two sides of the same coin. Therefore, the **València 2030 Climate Mission includes two instrumental goals for the success of the mission:**

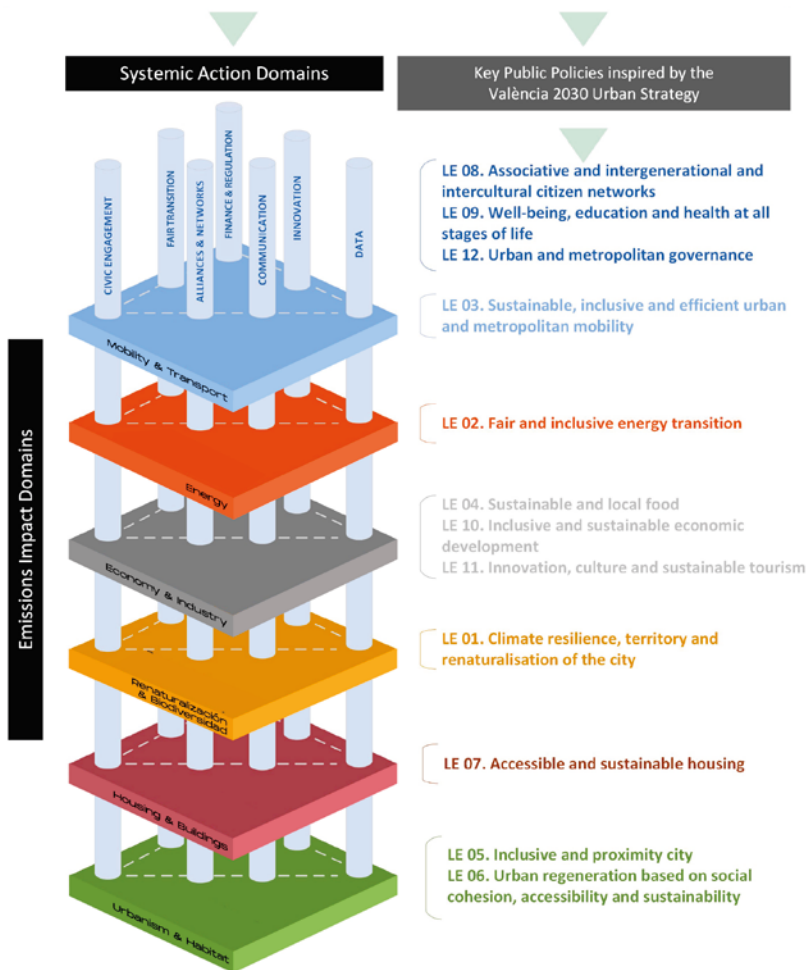
- Cooperate in the development of the València Urban Strategy that guarantees fulfilment of the goals and targets set by the international policy frameworks, such as the COP21 Paris Agreement, the United Nations' Sustainable Development Goals (particularly SDG 11 and 13), the Spanish and European Urban Agenda, and the New Habitat III Urban Agenda.
- Drive the necessary systemic transformations and innovations that position València at the forefront of European innovation and the endeavours to fulfil the European Green Deal.

The following image shows how the València 2030 Urban Strategy steers, through its 12 strategic lines, València's public policies involved in the many **Emission Impact Domains**.

In parallel, the image visualises how smart, urban and metropolitan governance drives the cross-cutting transformation by means of the multiple and interconnected **Systemic Domains of Action** of the mission.



VALÈNCIA 2030 CLIMATE MISSION IMPLEMENTATION PLAN
 Transition and Systemic Innovation towards Climate Neutrality in Valencia



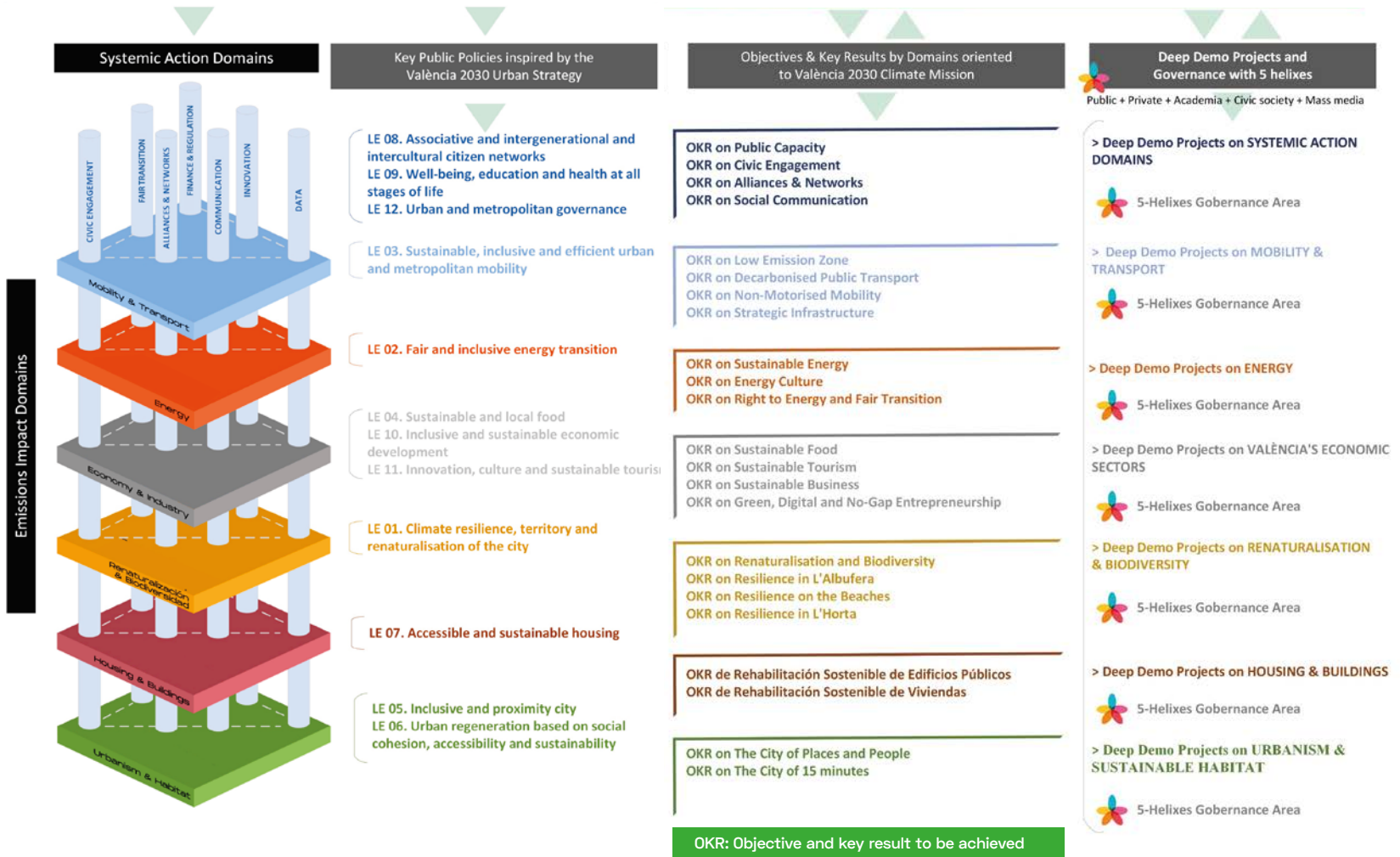
For each Domain of the Mission and through the València Urban Strategic Lines 2030 of the city, we develop:

- The OKRs (Objective & Key Results) that set the key results needed in each domain for the success of the mission
- The deep demo projects that exemplify the transformation process
- The action programmes that include all the projects impacting the mission

Impact Domain	València 2030 Urban Strategy	Action programmes
Mobility and Transport	LE 03. Sustainable, inclusive and efficient urban and metropolitan mobility	<ul style="list-style-type: none"> Public transport Non-motorised mobility Shared mobility Electric mobility Planning mobility Strategic infrastructures
Energy	LE 02. Fair and inclusive energy transition.	<ul style="list-style-type: none"> Local energy production Energy efficiency Energy culture Right to energy
Economy and Industry	LE 04. Sustainable and local food LE 10. Inclusive and sustainable economic development LE 11. Innovation, culture and sustainable tourism	Agri-food Agri-food Local consumption Strengthening the València's orchard Economic Development and Innovation Digital and green entrepreneurship and employment Decarbonisation of the economy Decarbonised tourism Innovation and knowledge Culture and creativity Reuse, recycling, recovery, reduction
Renaturalisation and biodiversity	LE 01. Climate resilience, territory and renaturalisation of the city	<ul style="list-style-type: none"> New materials and services Rewilding and Biodiversity Water management Adapting to extreme phenomena Preventing pests and infections Resilience
Housing and Buildings	LE 07. Accessible and Sustainable housing	<ul style="list-style-type: none"> Fair transition Housing retrofitting Public building retrofitting
Urbanism and Habitat	LE 05. Inclusive and proximity city LE 06. Urban regeneration based on social cohesion, accessibility and sustainability	<ul style="list-style-type: none"> New build 15-minute city City of squares and pedestrians Urban regenerations

VALÈNCIA 2030 CLIMATE MISSION IMPLAMENTATION PLAN

Transition and Systemic Innovation towards Climate Neutrality in Valencia



Systemic Action Domains

Key Public Policies inspired by the Valencia 2030 Urban Strategy

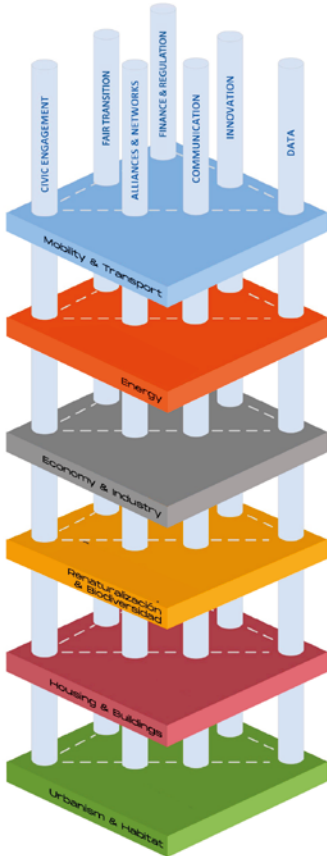
Objectives & Key Results by Domains oriented to Valencia 2030 Climate Mission

Deep Demo Projects and Governance with 5 Helixes



Public + Private + Academia + Civic society + Mass media

Emissions Impact Domains



- LE 08. Associative and intergenerational and intercultural citizen networks
- LE 09. Well-being, education and health at all stages of life
- LE 12. Urban and metropolitan governance

- LE 03. Sustainable, inclusive and efficient urban and metropolitan mobility

- LE 02. Fair and inclusive energy transition

- LE 04. Sustainable and local food
- LE 10. Inclusive and sustainable economic development
- LE 11. Innovation, culture and sustainable tourism

- LE 01. Climate resilience, territory and renaturalisation of the city

- LE 07. Accessible and sustainable housing

- LE 05. Inclusive and proximity city
- LE 06. Urban regeneration based on social cohesion, accessibility and sustainability

- OKR on Public Capacity
- OKR on Civic Engagement
- OKR on Alliances & Networks
- OKR on Social Communication

- OKR on Low Emission Zone
- OKR on Decarbonised Public Transport
- OKR on Non-Motorised Mobility
- OKR on Strategic Infrastructure

- OKR on Sustainable Energy
- OKR on Energy Culture
- OKR on Right to Energy and Fair Transition

- OKR on Sustainable Food
- OKR on Sustainable Tourism
- OKR on Sustainable Business
- OKR on Green, Digital and No-Gap Entrepreneurship

- OKR on Renaturalisation and Biodiversity
- OKR on Resilience in L'Albufera
- OKR on Resilience on the Beaches
- OKR on Resilience in L'Horta

- OKR de Rehabilitación Sostenible de Edificios Públicos
- OKR de Rehabilitación Sostenible de Viviendas

- OKR on The City of Places and People
- OKR on The City of 15 minutes

> Deep Demo Projects on SYSTEMIC ACTION DOMAINS

5-Helixes Governance Area

> Deep Demo Projects on MOBILITY & TRANSPORT

5-Helixes Governance Area

> Deep Demo Projects on ENERGY

5-Helixes Governance Area

> Deep Demo Projects on VALÈNCIA'S ECONOMIC SECTORS

5-Helixes Governance Area

> Deep Demo Projects on RENATURALISATION & BIODIVERSITY

5-Helixes Governance Area

> Deep Demo Projects on HOUSING & BUILDINGS

5-Helixes Governance Area

> Deep Demo Projects on URBANISM & SUSTAINABLE HABITAT

5-Helixes Governance Area

OKR: Objective and key result to be achieved

BENEFICIARY INDIVIDUALS AND GROUPS

The València 2030 Climate Mission benefits all the people who live in and interact in València and its metropolitan area.

Main beneficiaries

- People living and interacting in València and its catchment area
- Children, young people and future generations who will have a better city model
- Older people who will have a more user-friendly and liveable city
- People with health problems, mainly with breathing problems
- Pedestrians and cyclists
- Nature and biodiversity
- Companies related to the green economy and transition
- The city as an innovation hub and attracting talent around innovation and sustainability

Secondary beneficiaries

- Residents in other nearby municipalities
- The health system
- The labour market with new types of jobs related to the ecological transition
- Local businesses and producers
- València's tourist sector is at a competitive advantage compared to other destinations
- València's productive fabric is ahead of the systemic transition caused by the European Green Deal
- The city's innovation ecosystem that is at the cutting edge and projected in Europe.

Instruments at the disposal of the Mission

Mission Toolkit

Holistic:

- València 2030 Urban Strategy
- Missions València 2030
- EU Mission Platform
- Climate Contract city
- Climate Mission Deals with the Spanish Government
- Climate Mission Deal with the València Regional Government
- City-University binomial
- Alliance for the Mission

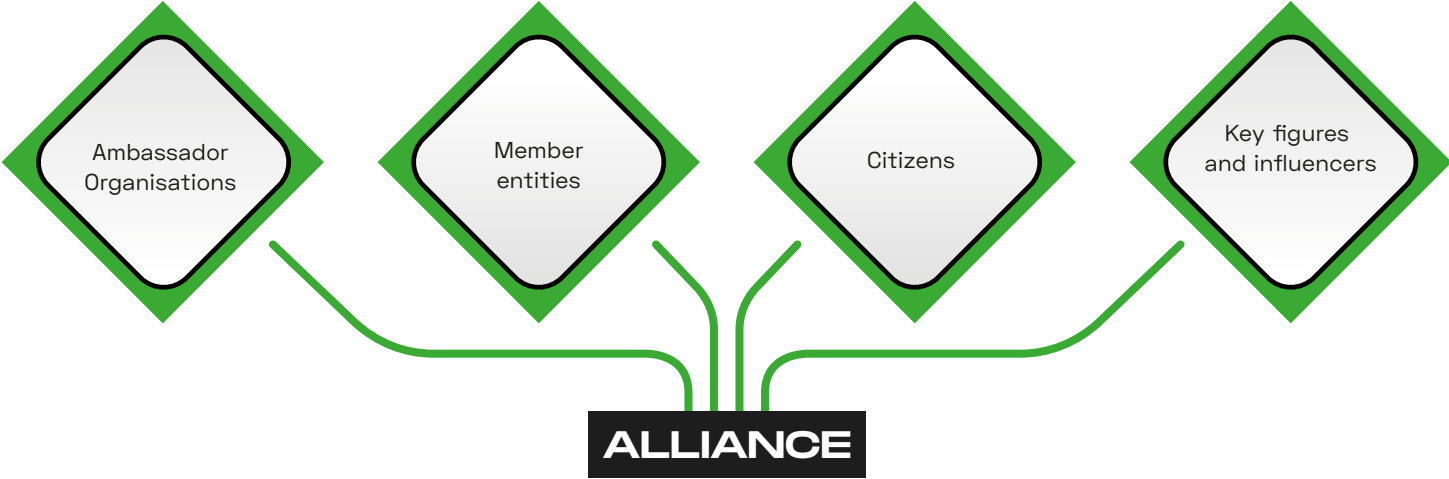
Sectoral:

- Sustainable Energy and Climate Action Plan
- Sustainable Urban Mobility Plan
- Green and Biodiversity Plan
- Mission Social Communication Plan

Instrumental:

- Regulation
- Public procurement
- Public procurement innovation
- Public Grant of Innovation
- Public data infrastructure
- Living lab and sandboxes for decarbonisation

MISSION ALLIANCE

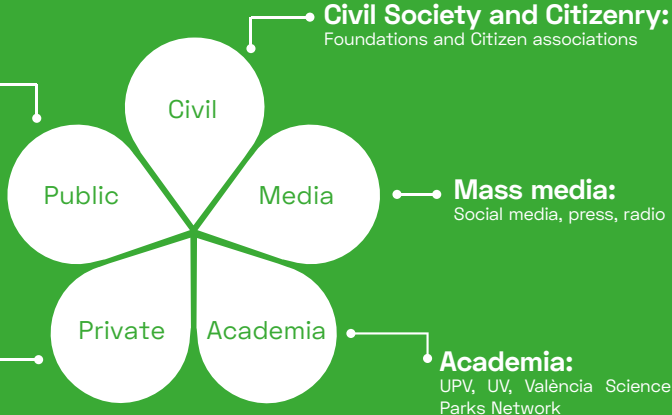


We call on the quintuple helix framework of the ecosystem to be part of the Mission Alliance

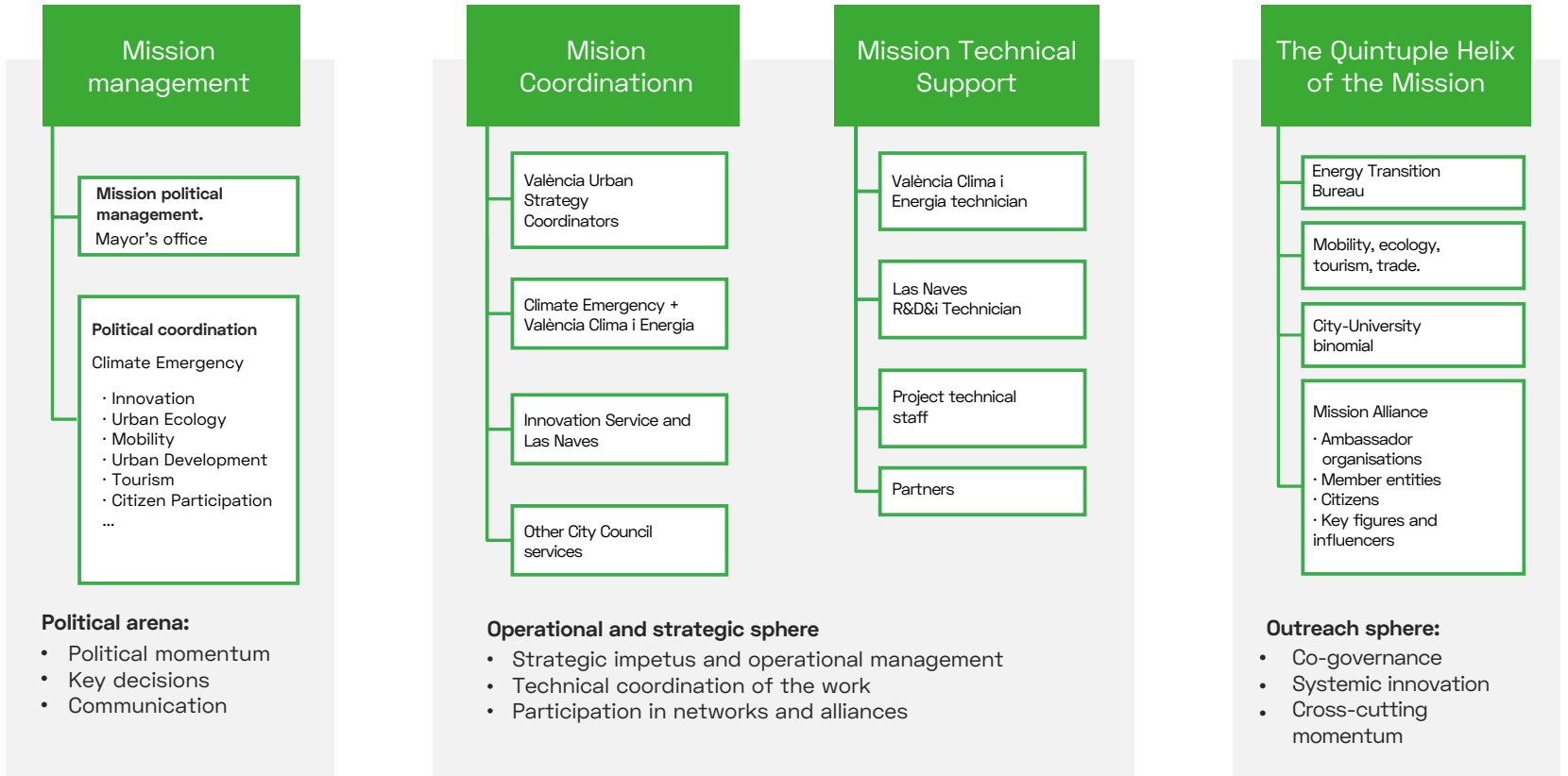


Public Sector:
Mission Platform + NetZeroCities, València City Council, citiES2030, Spanish Government, València Regional Government

Private Sector:
Large corporations, SMEs, REDIT, Startups



VALÈNCIA 2030 CLIMATE MISSION CO-GOVERNANCE



VALÈNCIA 2030 CLIMATE MISSION CONSTELLATION

València 2030 Climate Mission Constellation will help develop hundreds of innovation and transformation projects with an impact on the mission.

Valencia 2030 Climate Mission Constellation

Cities - Missions Areas

Healthy City
Sustainable City
Shared City
Prosperous & Entrepreneur City
Creative City
Mediterranean City

Five Helixes - R&I Projects

Academy, Research Centre & Tech Institutes
Civil Society & Citizenship
Private Sector & Corporations
Multilevel Public Sector
Mass Media

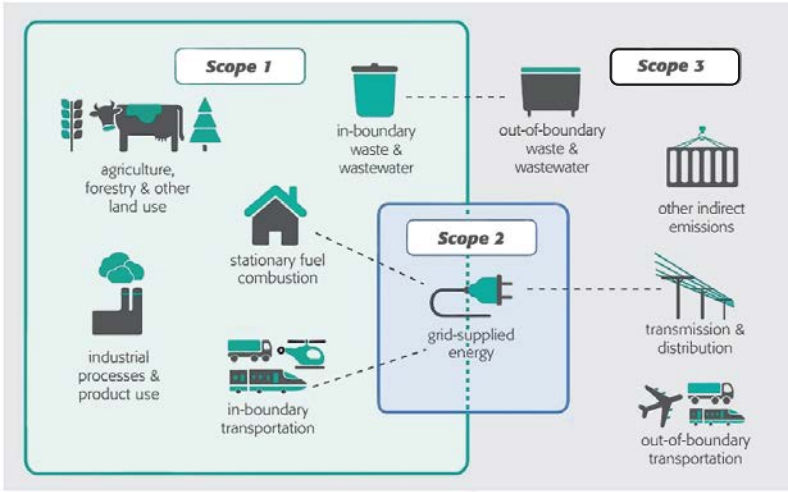
Sustainable Development Goals (United Nations)

- 1 No poverty
- 2 Zero hunger
- 3 Good health & well-being
- 4 Quality education
- 5 Gender equality
- 6 Clean water & sanitation
- 7 Affordable & clean energy
- 8 Decent work & economic growth
- 9 Industry, innovation & infrastructure
- 10 Reduced inequalities
- 11 Sustainable cities & communities
- 12 Responsible consumption & production
- 13 Climate action
- 14 Life below water
- 15 Life on land
- 16 Peace, justice & strong institutions
- 17 Partnerships for the goals

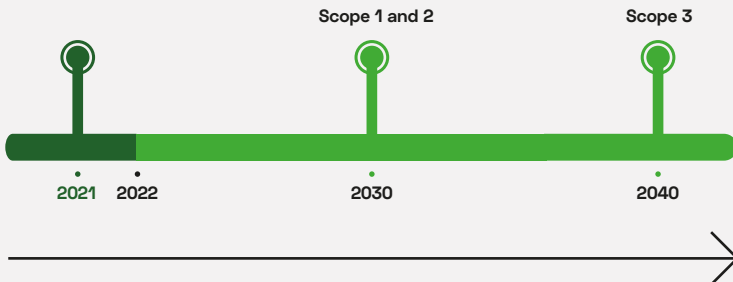


ASSESSMENT AND IMPACT

The assessment and impact of the València 2030 Climate Mission follows the guidelines of Scopes 1, 2 y 3 proposed by the European mission by means of which it aspires to achieve climate neutral cities in **Scope 1 and 2 by 2030 and in Scope 3 by 2040.**



Source: Implementation Plan of the EU Cities Mission. European Commission 2021



2021

- Approval of the València 2030 Climate Mission

- Inclusion of Missions València 2030 in the València 2030 Urban Strategy

- Feasibility scientific research and strengths of each district of the city in the decarbonisation process.

- Preparation of València for the European mission of 100 climate-neutral cities by 2030.

2021

2022-2030

Compliance of climate neutrality in Scopes 1 and 2 of the European mission throughout the city of València, establishing a relationship between "lighthouse" districts and "follower" districts of the system transformation in the many emission impact domains:

- | | |
|---------------------------|--------------------------------------|
| 1) Mobility and Transport | 4) Renaturalisation and Biodiversity |
| 2) Energy | 5) Housing and Buildings |
| 3) Economy and Industry | 6) Urbanism and Habitat |

In parallel to the action in the city's districts and neighbourhoods, the following far-reaching and experimental demonstrators of the transition are established.

València public universities:

Alliances with the city's two universities to achieve climate neutrality at the university campuses that will be living labs of decarbonisation innovations and processes. The lessons learnt and results will be scaled at city level:

- València Polytechnic University
- València University

3 areas of special interest for València:

- The Port of València with its strategy of decarbonisation of port activity.
- Valencia Marina, as an entrepreneurial and innovation hub that acts as a living lab.
- L'Horta de València, as a special sustainable food production and protection area for the city of Valencia.

2 exemplary activity sectors in València:

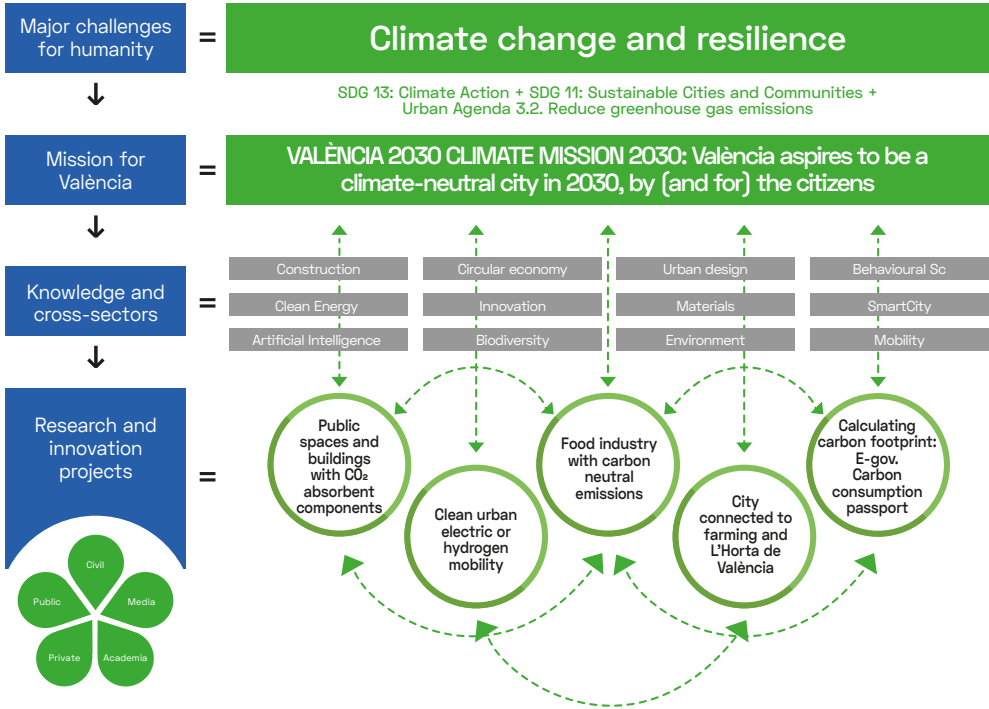
- Tourism, with its Sustainable Tourism strategy.
- The Public Administration

2030 - 2040

Compliance of Scope 3 in the city of Valencia.

2040

VALÈNCIA 2030 CLIMATE MISSION INFOGRAPHIC



13 Climate actions



11 Sustainable cities and communities



Climate change and resilience



Example, adaption of "Mission-Oriented Research & Innovation in the European Union", Mazzucato M. 2018



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