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# VALÈNCIA 2030 CLIMATE MISSION

València aspires to be a climate neutral city by 2030, by (and for) the citizens.



# 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.



Source: Visit València

## 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.

# VALÈNCIA 2030 CLIMATE MISSION

## IMPORTANCE

Mitigating the effects of climate change is one of the main challenges facing humanity. However, the time to act is running out and the changes need to be faster to respond to a situation that is already being called a climate emergency. Not enough is being done and it is not happening quickly enough.

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 CO<sub>2</sub> 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.



## PURPOSE

For València to be a climate neutral 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**:

- Mobility and Transport
- Energy
- Economy and Industry
- Renaturalisation and Biodiversity
- Housing and Buildings
- Urbanism and Habitat

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:

- Civic engagement
  - Finance
  - Regulation
  - Systemic innovation
  - Data
  - Social communication
  - Alliances and networks
- 
- 
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# VALÈNCIA 2030 CLIMATE MISSION

València, climate-neutral city by 2030, by and for citizens

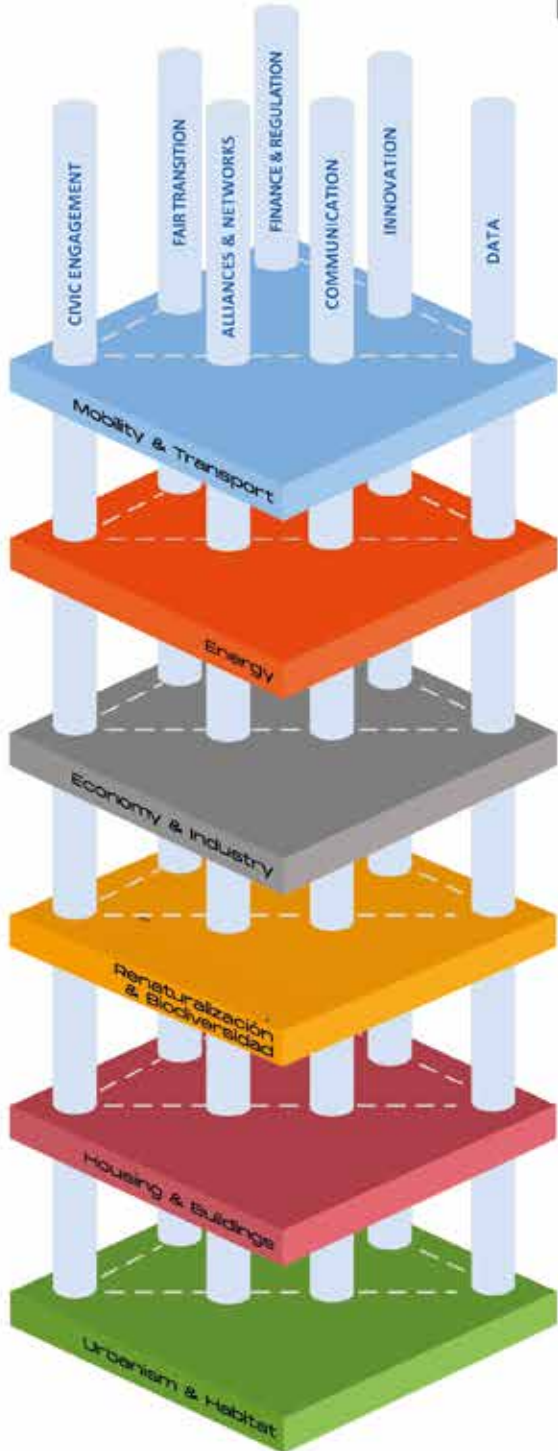
## VALÈNCIA 2030 CLIMATE MISSION IMPLEMENTATION PLAN

Transition and Systemic Innovation towards Climate Neutrality in Valencia

### Systemic Action Domains

### Key Public Policies inspired by the València 2030 Urban Strategy

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

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

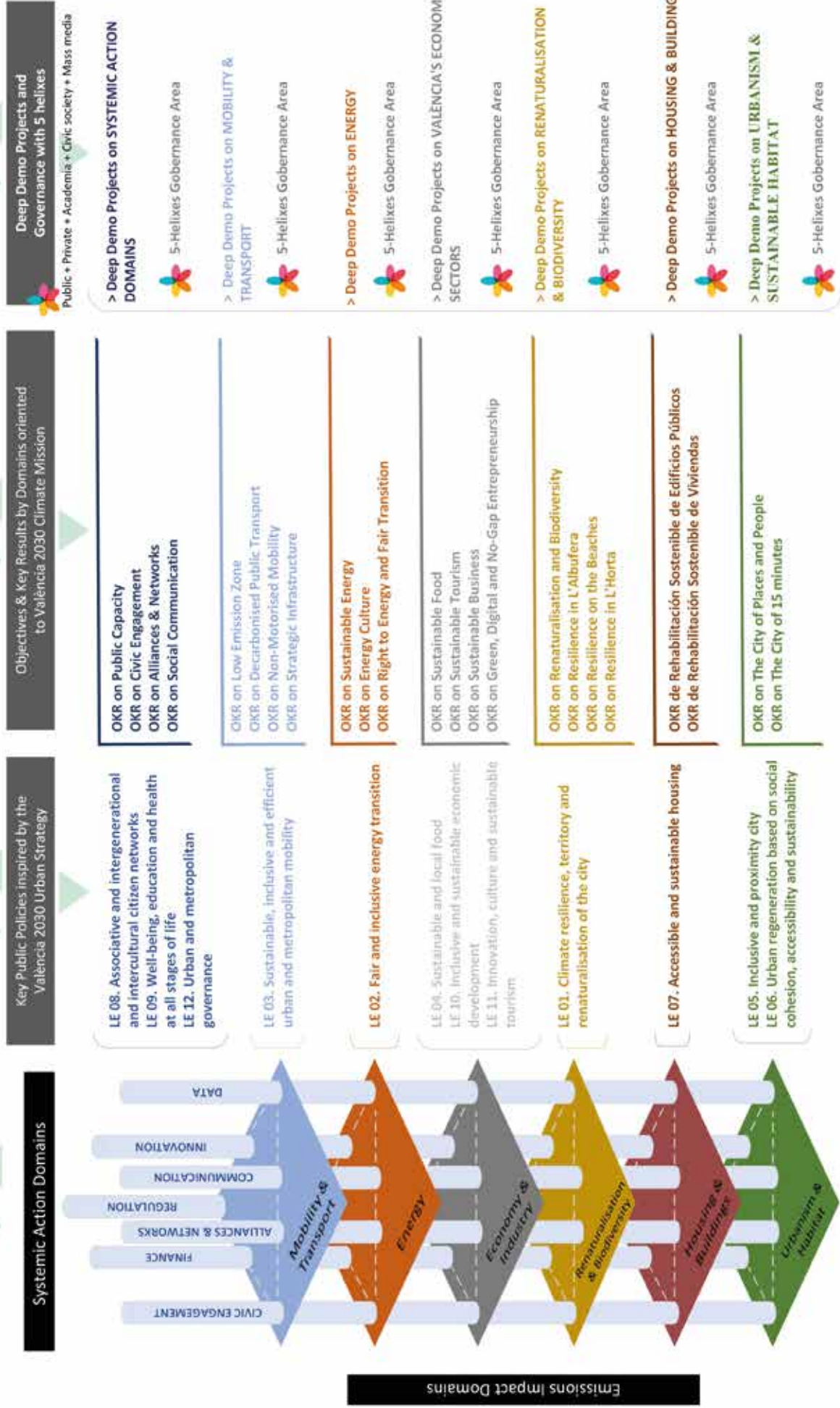
Impact Domain	València 2030 Urban Strategy	Action programmes
<b>Mobility and Transport</b>	LE 03. Sustainable, inclusive and efficient urban and metropolitan mobility	<ul style="list-style-type: none"> <li>· Public transport</li> <li>· Non-motorised mobility</li> <li>· Shared mobility</li> <li>· Electric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

# VALÈNCIA 2030 CLIMATE MISSION

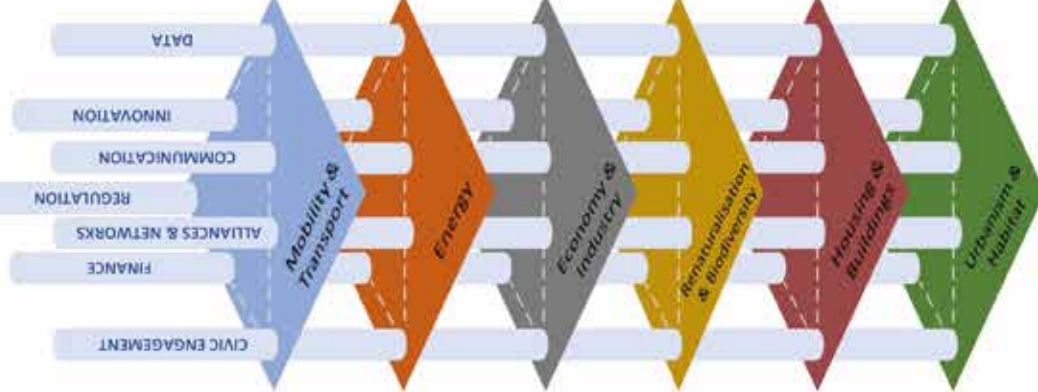
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### Systemic Action Domains



### Emissions Impact Domains

- Key Public Policies inspired by the València 2030 Urban Strategy**
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  - LE 06. Urban regeneration based on social cohesion, accessibility and sustainability

- Objectives & Key Results by Domains oriented to València 2030 Climate Mission**
- 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 and Governance with 5 helixes**  
Public + Private + Academia + Civic society + Mass media
- > 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

# 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:

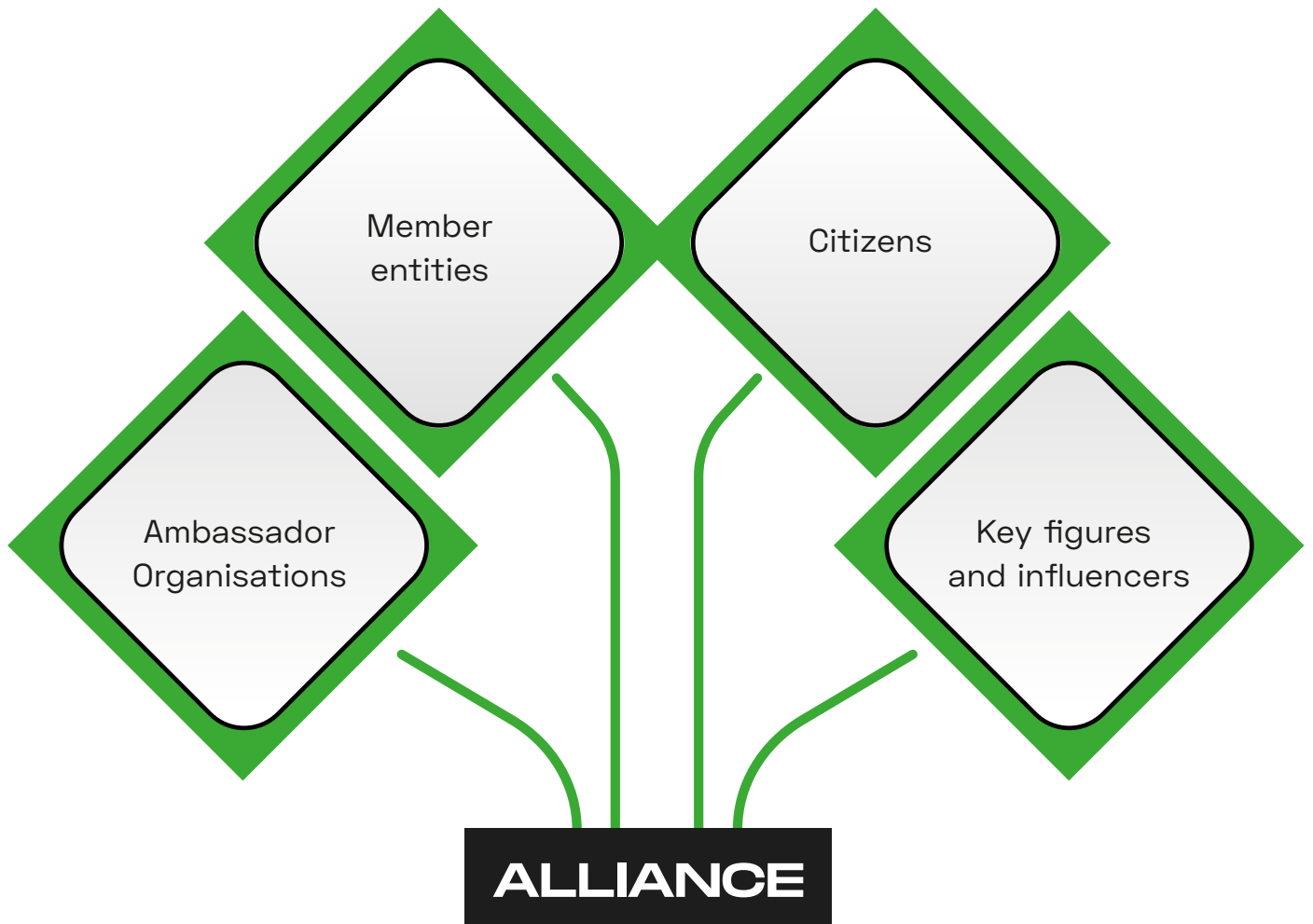
- Sustainable Energy and Climate Action Plan
- Sustainable Urban Mobility Plan
- Green and Biodiversity Plan
- Mission Social Communication Plan

#### Instrumental:

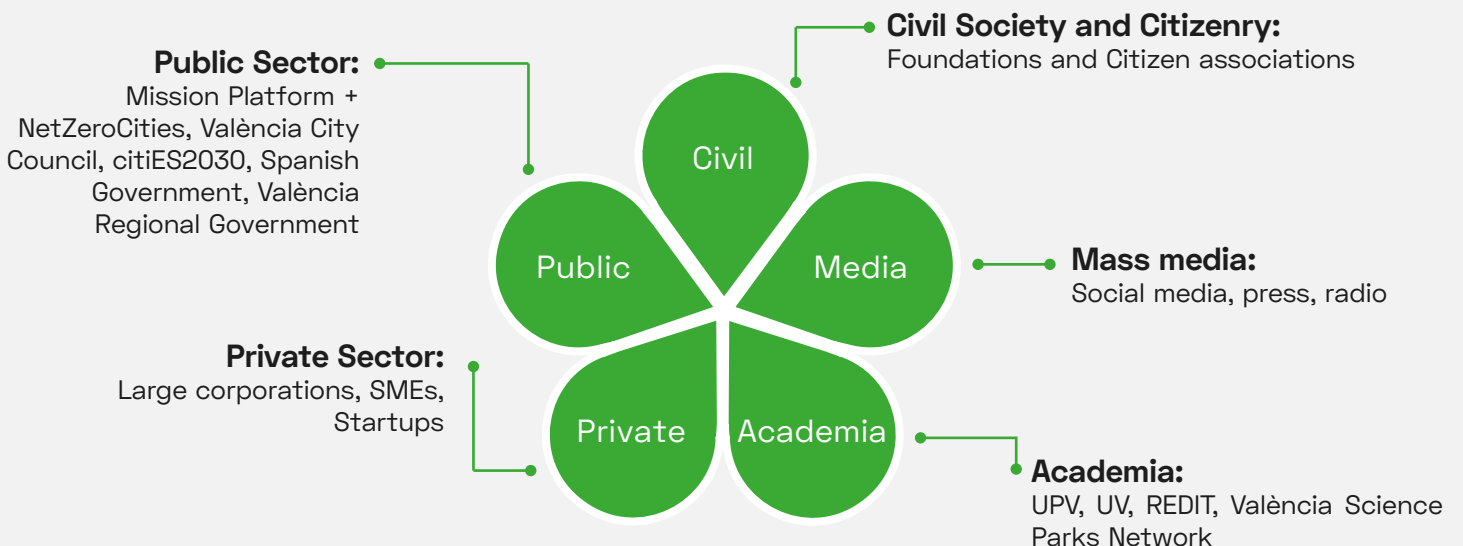
- Regulation
- Public procurement
- Public procurement innovation
- Public Grant of Innovation
- Public data infrastructure
- Living lab and sandboxes for decarbonisation



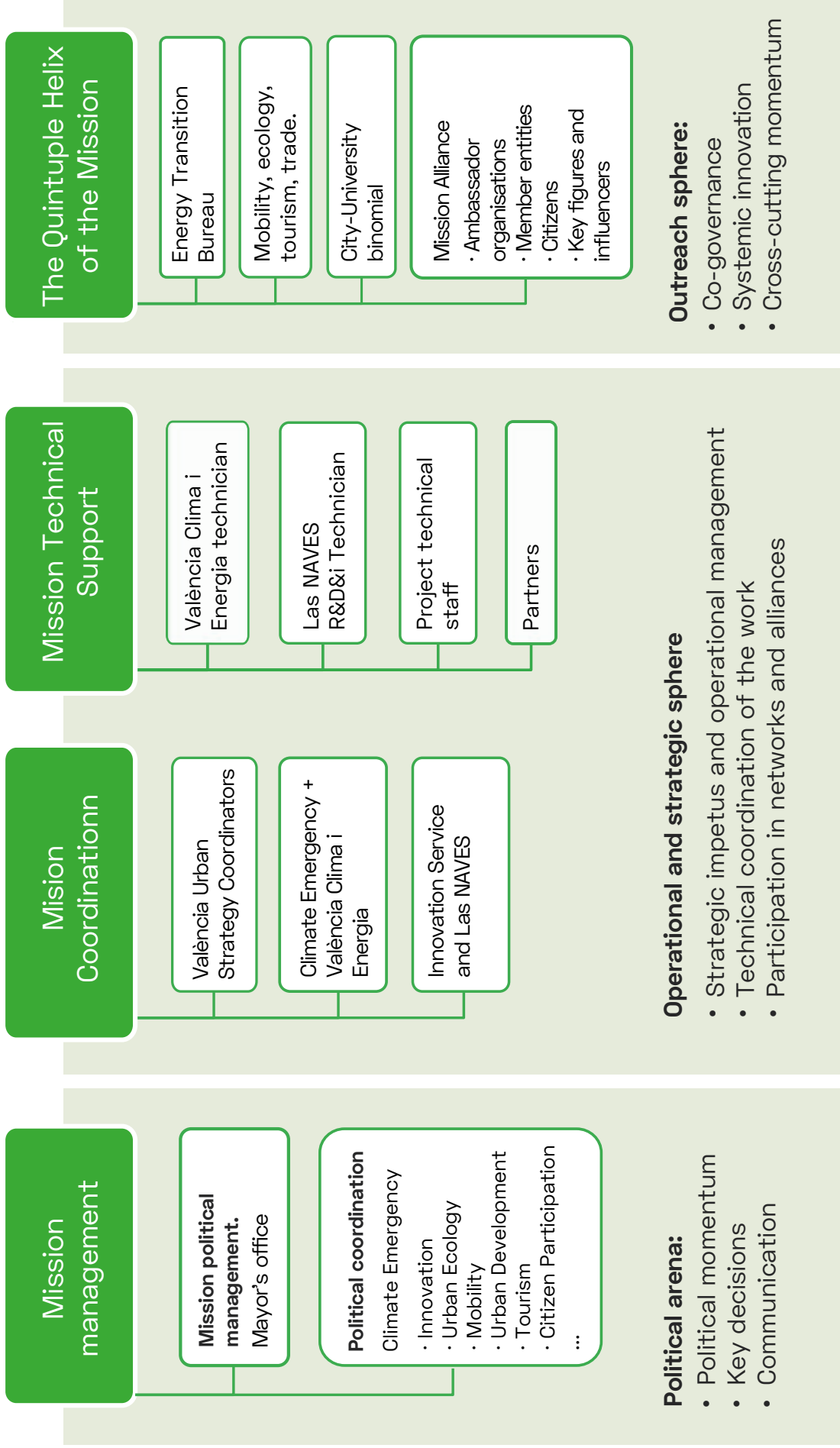
# Mission Alliance



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



# VALÈNCIA 2030 CLIMATE MISSION CO-GOVERNANCE





# VALÈNCIA 2030 CLIMATE MISSION CONSTELLATION

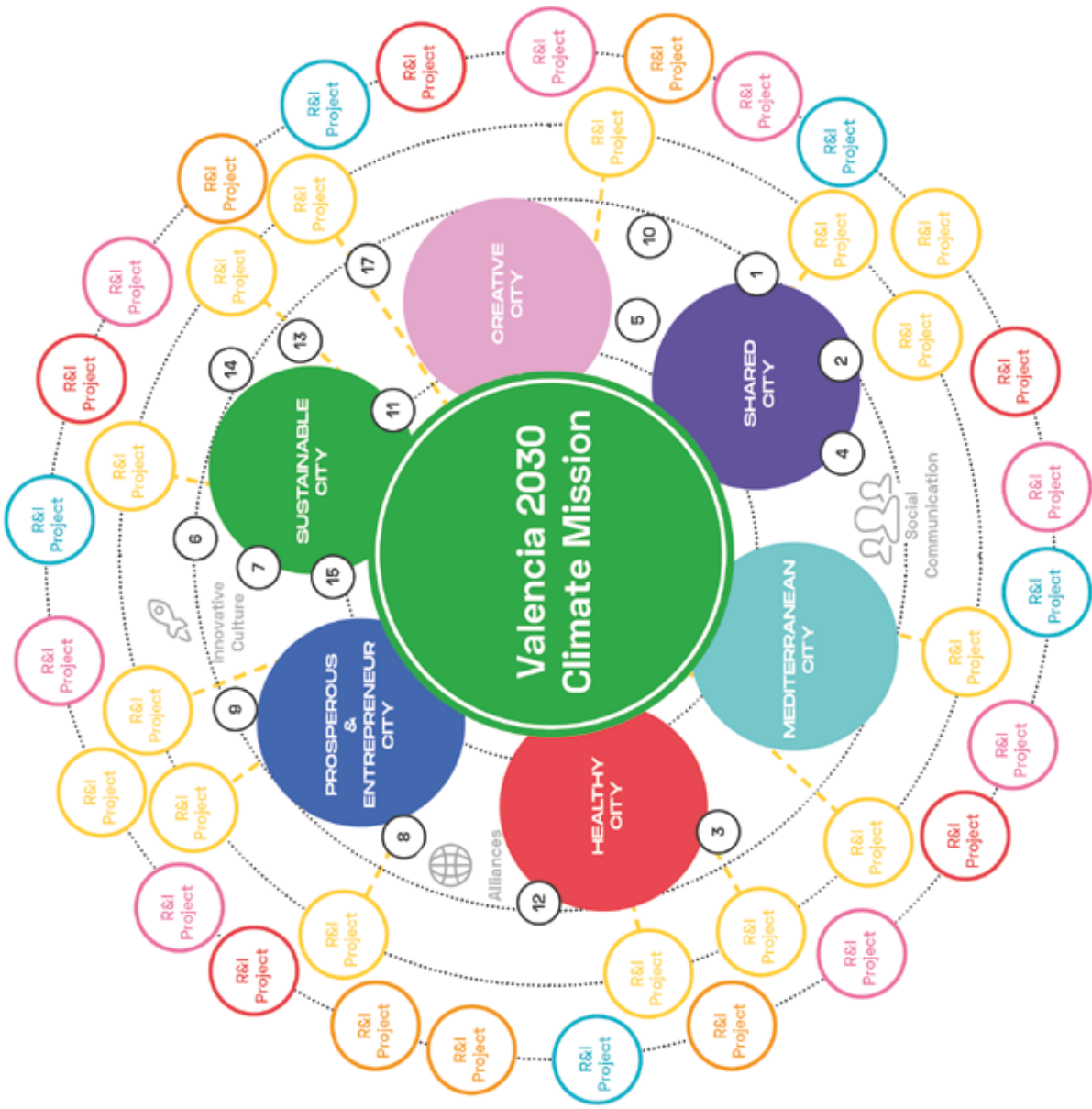
València 2030 Climate Mission Constellation will help develop hundreds of innovation and transformation projects with an impact on the mission.

## Valencia 2030 Climate Mission Constellation



## Sustainable Development Goals (United Nations)

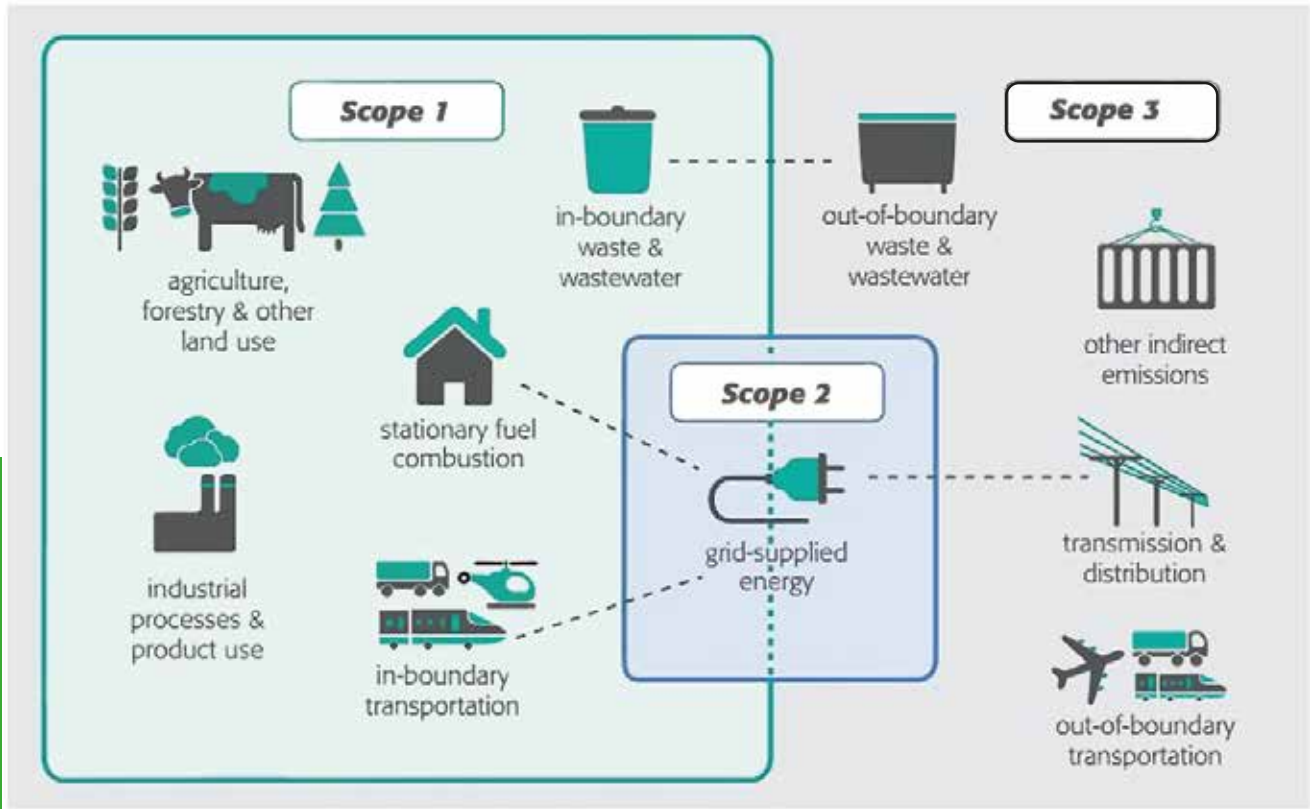
- 1 No poverty
- 2 Zero hunger
- 3 Good health & well-being
- 4 Quality education
- 5 Gender equality
- 6 Clean water & sanitation
- 7 Affordable & clean energy
- 8 Decent work & economic growth
- 9 Industry, innovation & infrastructure
- 10 Reduced inequalities
- 11 Sustainable cities & communities
- 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

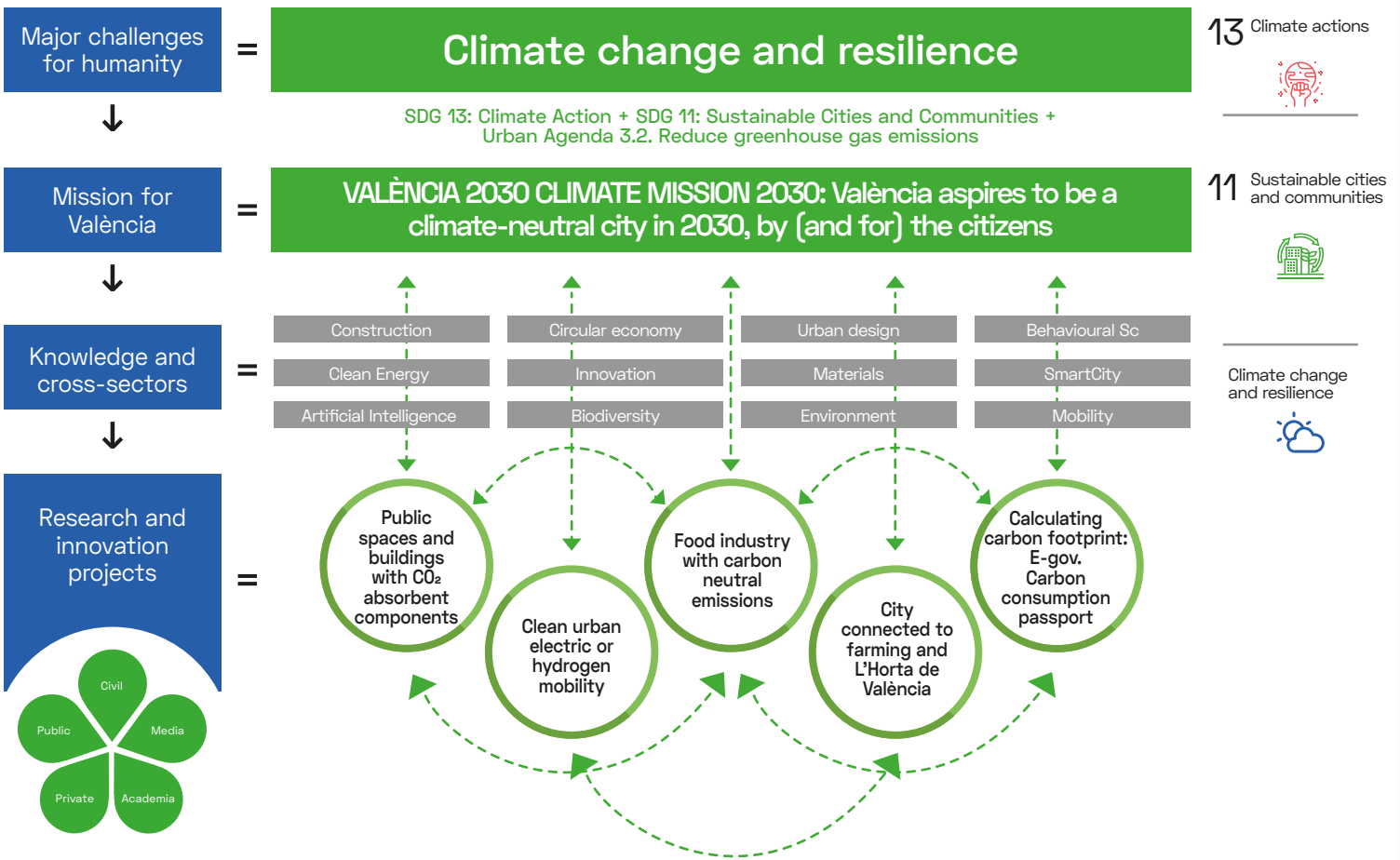
2030 - 2040

Compliance of Scope 3 in the city of Valencia.

2040

# Inphographic

# València 2030 Climate Mission



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





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