

National Centre for Sustainable Mobility

Italian Research Day in the World
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1. Background



The world is evolving in directions **of mobility** that are ever more **attentive to new needs and aims.**



DECARBONISATION

The **industrial sector** and **consumers** are continuously more attentive to the problems of **sustainability** and **energy transition** and this is leading to initiatives that will guarantee **mobility** that is ever **more green.**

DECONGESTION



Urbanised population, in continuous growth, **traffic congestion** and **emissions** are only some of the enablers that lead to technological developments for creation of **efficient and smart transportation networks.**



ACCESSIBILITY

Emerging technologies and booming **startups** are transforming the world of mobility, rendering its services ever more **connected and intermodal**, but above all guaranteeing **accessibility at all levels of the community.**

SAFETY



The great period of uncertainty generated by the **pandemic**, as well as the advancing **levels or transport-related technologies**, place stronger **emphasis on safety issues**, leading to the demand for ever higher guarantees and standards.



TRANSITION AND WORK

The mobility and transport sector is becoming ever more **strategic for Italy**, evolving and changing form, obligating the **introduction of new professional profiles and creation of new roles.**

Within this context, **there are the national and EU institutions**, which push towards the achievement of new **sustainable** mobility.



EUROPEAN GREEN DEAL

The Green Deal aims to transform the EU into **a modern economy**, efficient in resource use, competitive, and guaranteeing that by 2050 **there will be net zero emissions of greenhouse gases**.

TEN-T TRANSPORT NETWORK



The TEN-T Network favours the integration of EU nations in view of a unified market, **in support of a policy of transport decarbonisation** and an active role **in combatting climate change**.



TRANSITION OF LABOUR

Today, Italy is facing a renewed collective need to **reposition knowledge and skills in a radically changed scenario of manufacturing and services**.

NATIONAL TRAFFIC SAFETY PLAN



One of the objectives is **a 50% reduction in fatal accidents** by the year 2030, through a series of **interventions at the levels of infrastructure, technologies and prevention**.

2. A National Opportunity

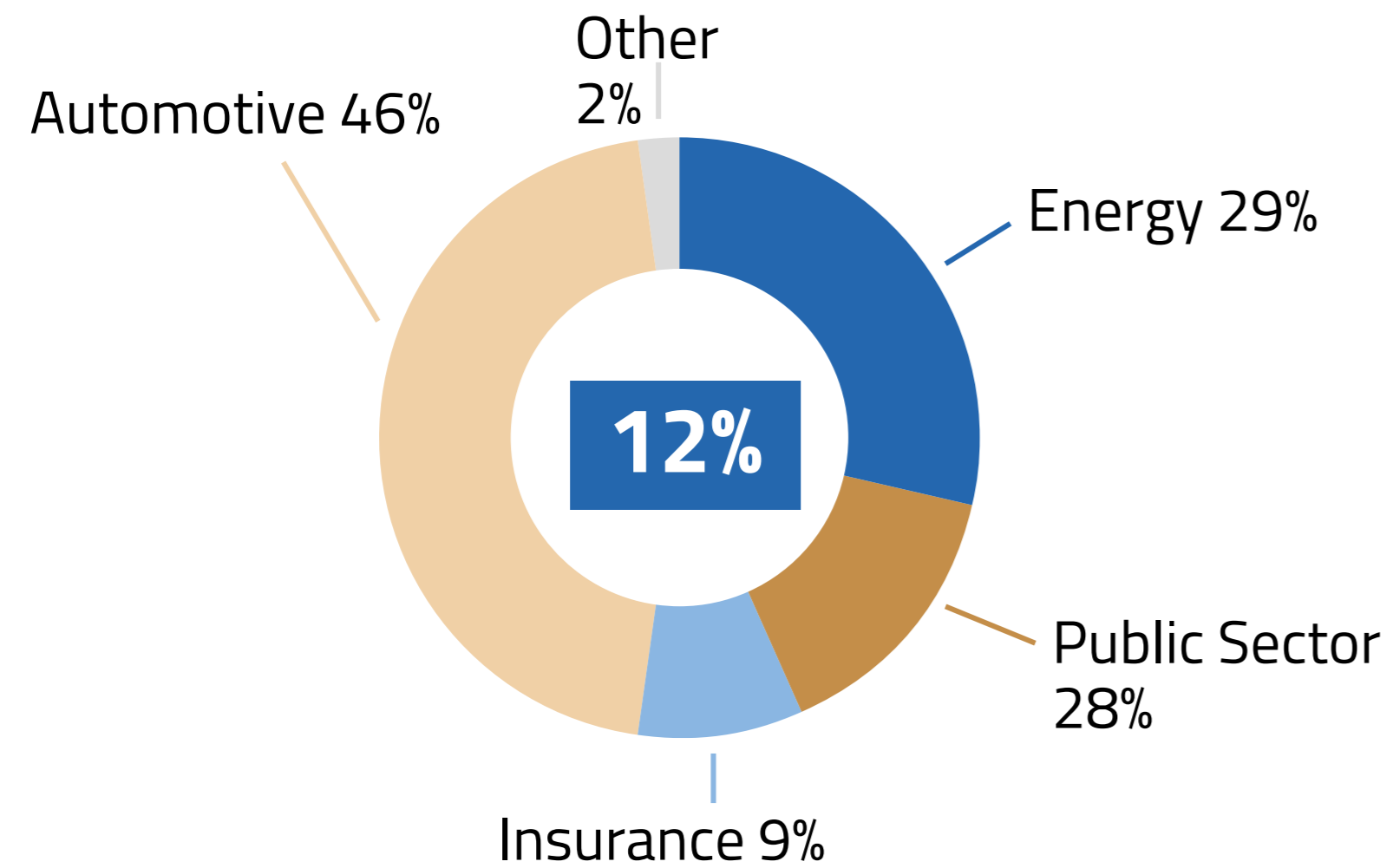


Mobility is a **strategic asset for the national system.**

Forecast market value of
mobility in Italy by 2030

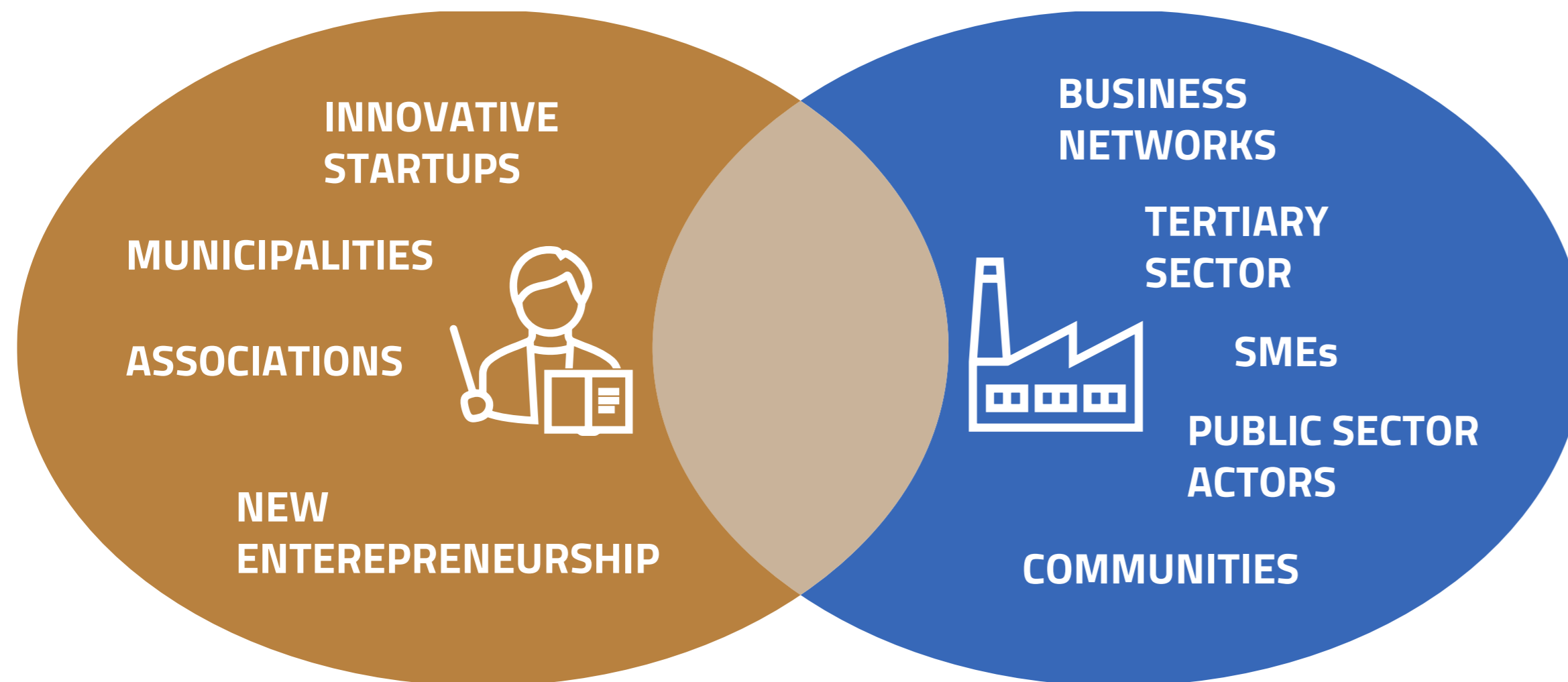
220 billion €

**National labour force (12%)
absorbed by sectors subsumed
within mobility**



On the digital and green transition themes, the **PNRR** finances large investments in infrastructure, mobility and new means of transport.

Measure 4.2 of the Ministry for Universities and Research, “From Research to Business”, provides for models of collaboration between research and companies and between public and private.



The **National Centres** – or “national samples” of Research and Development – are networks of universities, public research institutions, other private and public actors engaged in highly qualified research activities, and which develop infrastructure, plans and solutions immediately useful and highly adaptable to the entire social context

Five strategic areas:

- **high-performance computing**
- **agri-tech**
- **gene therapy and RNA pharmaceuticals**
- **sustainable mobility**
- **biodiversity**

3. National Centre for Sustainable Mobility



The National Centre for Sustainable Mobility was born with the aim of contributing to the creation of demand and offer in sustainable mobility

A mobility that is ...



... "Greener"

Small-scale solutions, new power solutions, combustible hydrogen and electric



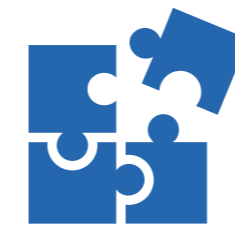
...Safer

Digital solutions favouring predictive strategies for the reduction of accidents



...More flexible

Systemic digital transformation of public and private transport



...More accessible

Technological integration and inclusion through digital innovation



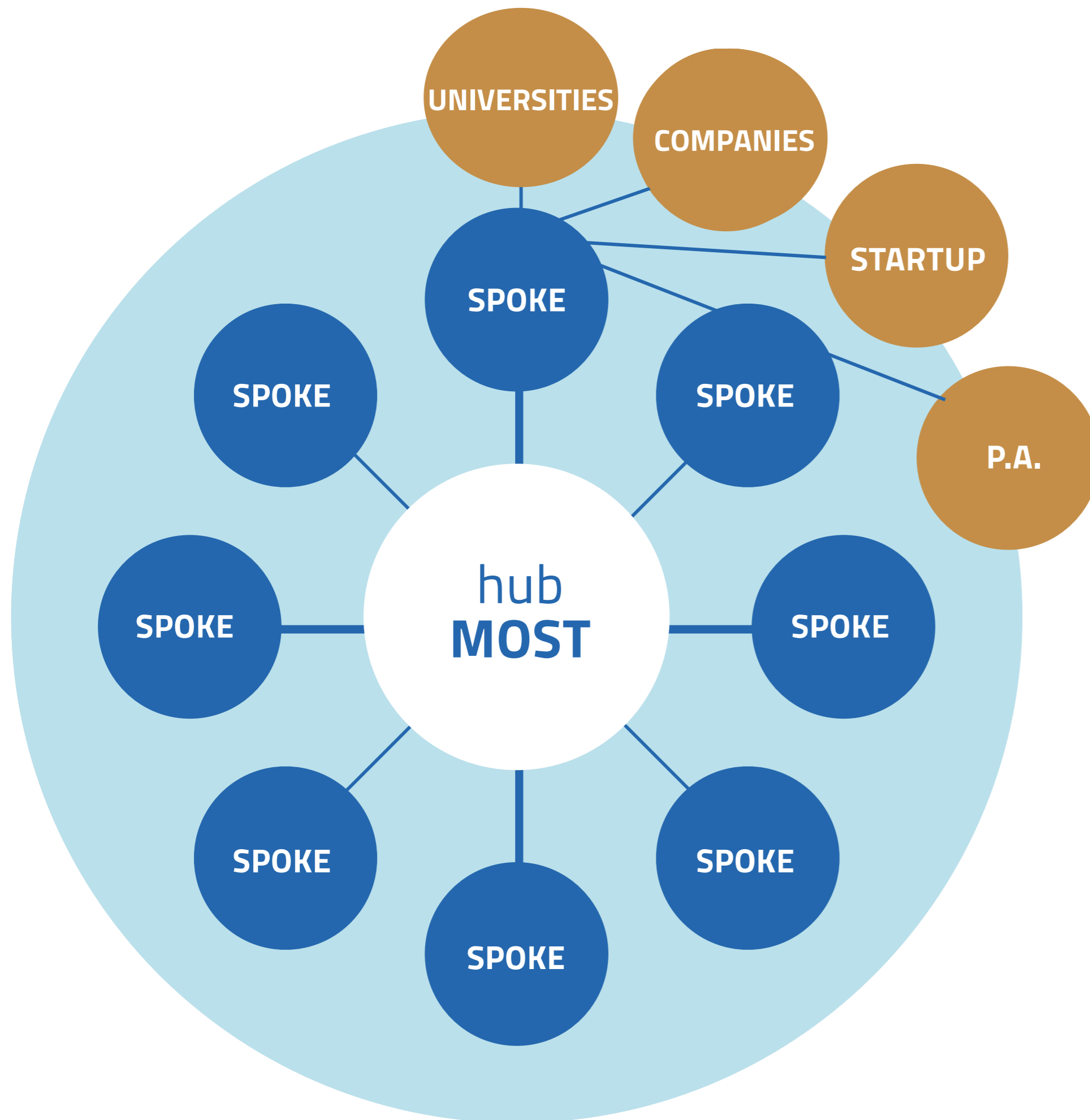
...More competitive

Increase synergy between universities, companies and institutions



...More collaborative

Identification of priorities and strategies for development of research and industrial applications



The National Centre will be characterised by a “Hub and Spokes” structure, favouring cooperation with national and local ecosystems.

The spokes will develop research programmes with **high technological relevance (TRL) levels** (5-6) thanks in part to **their specific infrastructure and laboratories.**

The **hub** will promote **diffusion of innovation 326** through solutions of high innovative content, transversal to the different initiatives.

The **collaboration between public and private, research institutions and business,**
will guarantee thorough and effective national coverage.

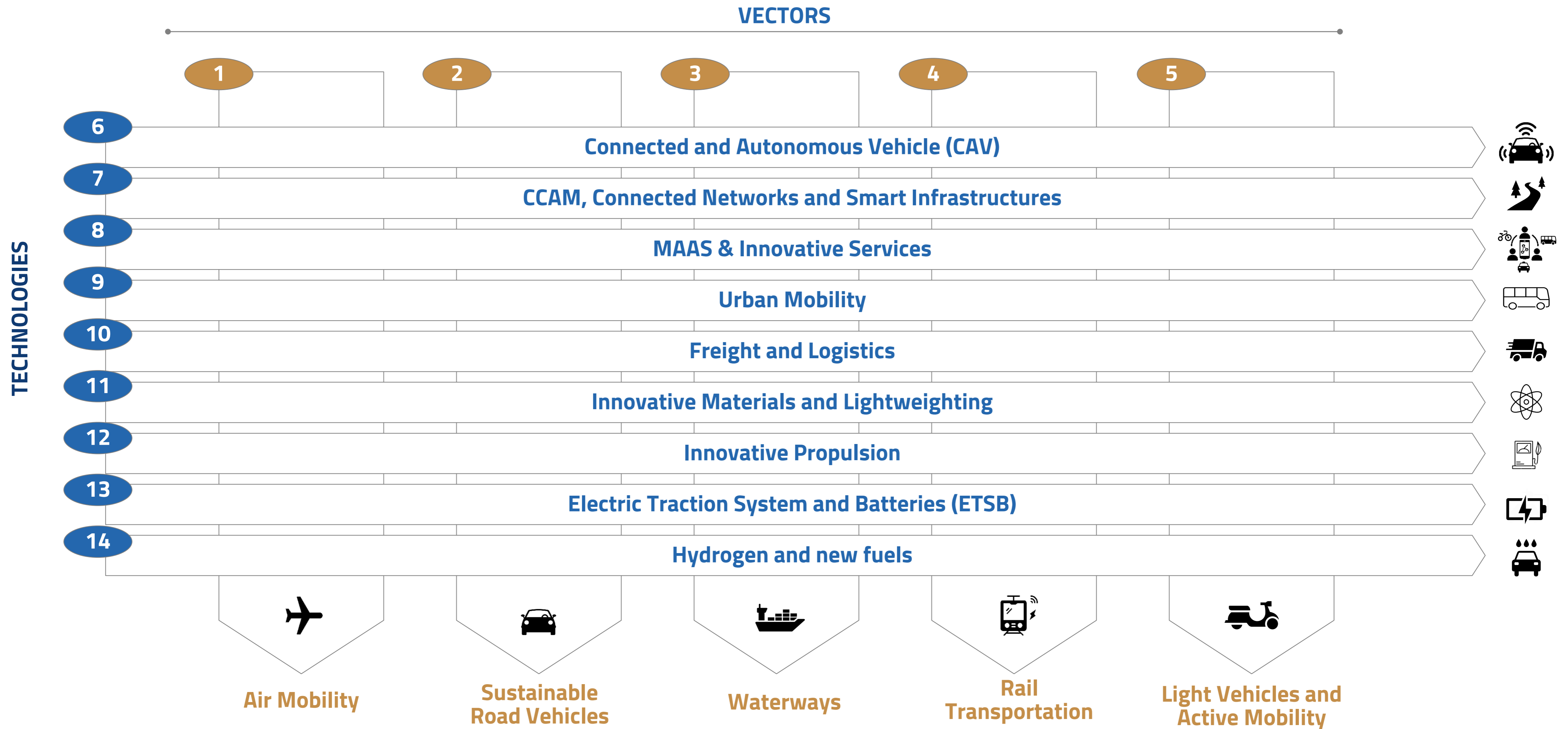
25 Universities and Research Centres



24 Private bodies



Thanks to their specific research, **14 spokes** will lead the development of **strategic technologies in the sector**, over the medium and long term.

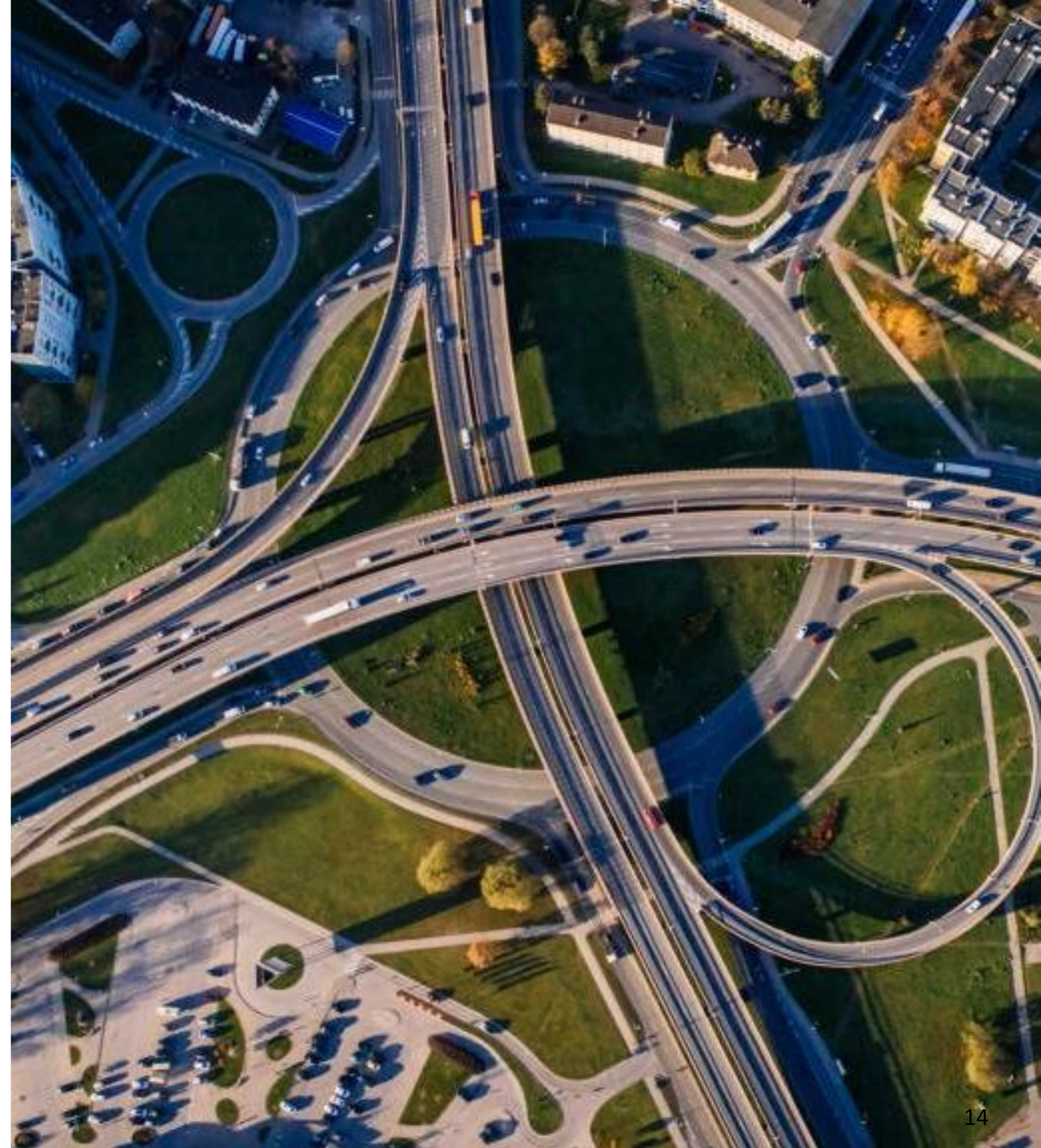


The hub initiates a virtuous circle for implementation of the research results, through **projects accelerating scalability** on the market and in **education**.

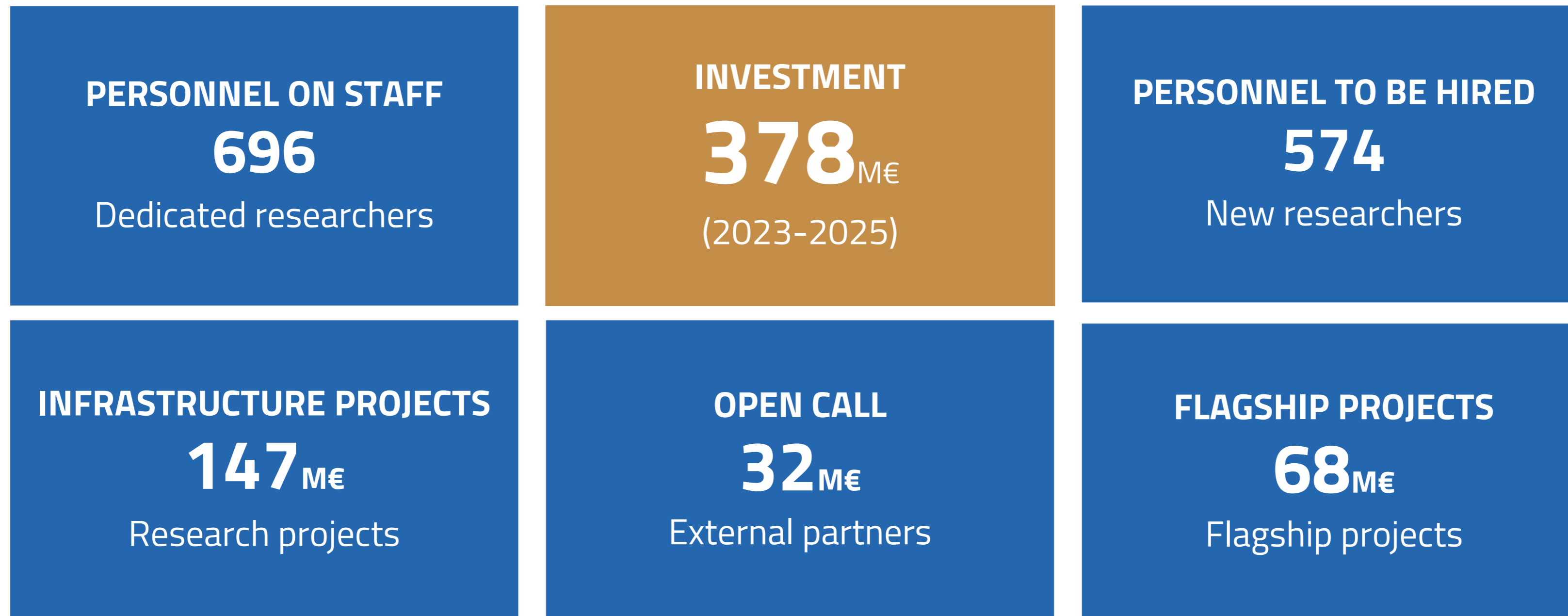


National Centre for Sustainable Mobility

- **Development of mobility at the personal level and with high TRL** (increase the offer of innovation)
- **Grow the demand for sustainable mobility through cases of use and living lab scalability** including at international level.



The **numbers**
of the National Centre for Sustainable Development



MOST

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