

**IPLOCA Regional Meeting**  
**Energy transition & Network Development**

*26th April 2022*

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# Agenda

- **TEREGA**
- **Accelerator of the energy transition**
- **Network Development**





GAS TRANSMISSION AND STORAGE

A major actor in gas transport and storage infrastructures in France and in Europe.

# Our expertise

For more than 75 years, Teréga has been bringing expertise to bear on the development and operation of gas transport infrastructures.

# Our expertise

## Transport

We bring our expertise to bear on the development and operation of gas transport infrastructures. The central link in a chain that connects energy producers to energy consumers, our infrastructures are essential for the security of supply to private individuals and businesses alike.

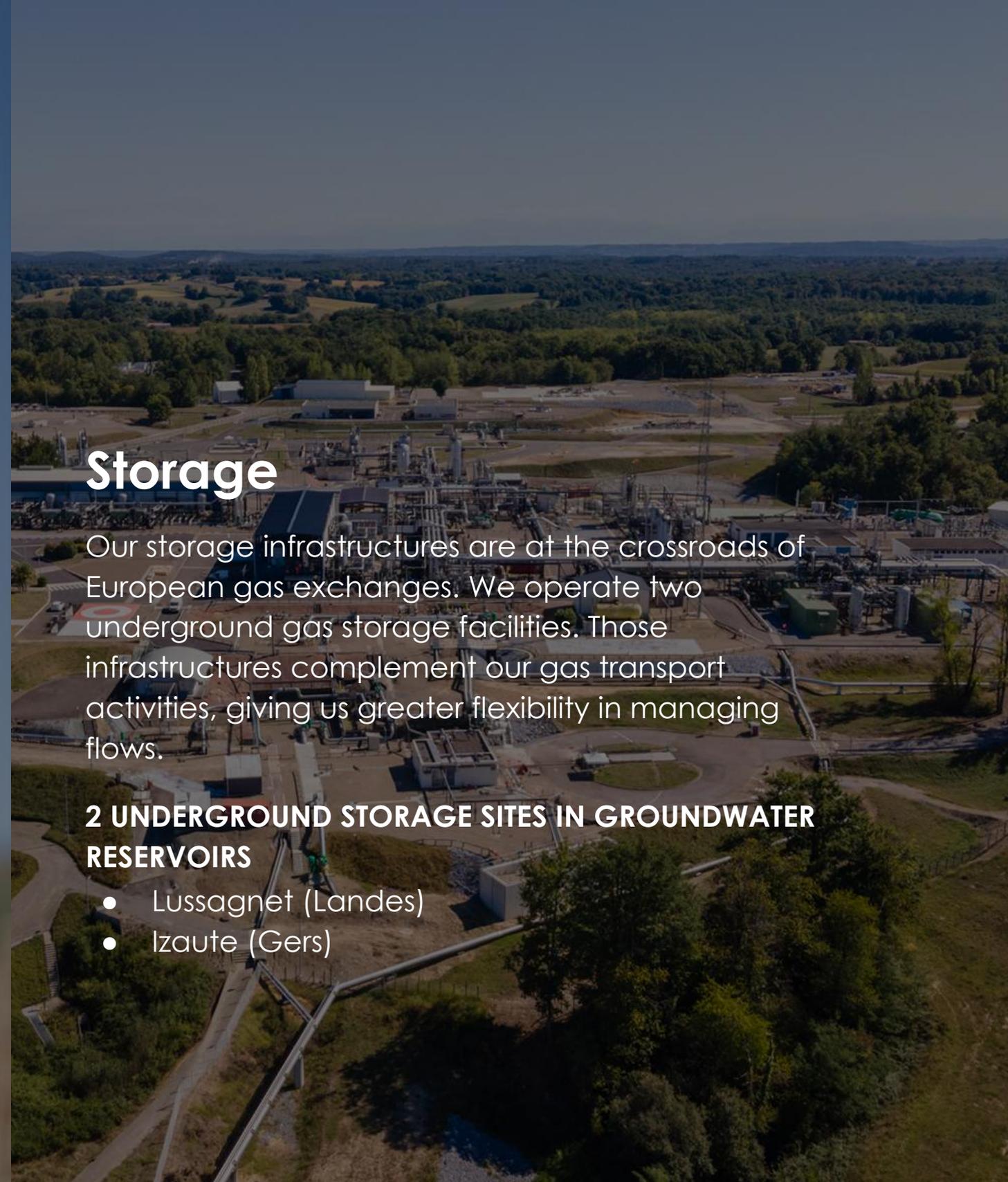
- 116 delivery points for industrial distribution
- 325 delivery points for public distribution
- 2 links with Spain

## Storage

Our storage infrastructures are at the crossroads of European gas exchanges. We operate two underground gas storage facilities. Those infrastructures complement our gas transport activities, giving us greater flexibility in managing flows.

### **2 UNDERGROUND STORAGE SITES IN GROUNDWATER RESERVOIRS**

- Lussagnet (Landes)
- Izaute (Gers)



A KEY POSITION

# Our infrastructure

-  EXISTING NETWORK
-  REGIONS FRAGMENTATION
-  HEAD OFFICE
-  REGIONS
-  OPERATIONAL COORDINATION
-  SPECIALIZED OPERATIONS
-  MAIN ENTRY/EXIT
-  STORAGE
-  COMPRESSOR STATIONS
-  BIOMETHANE INJECTION STATION
-  PRIVATE CNG STATION
-  PUBLIC CNG STATION



# Key figures for 2020

661

employees

€460M

in turnover

€126M

investments

5,127 km

of pipelines

15.8%

of the French natural  
gas transport grid

25.9%

of the volume of French  
gas in the Teréga network

2,9 GM3

of marketable volume



# Accelerator of the energy transition

The environment, climate and energy emergencies are increasingly seen as top-priority issues. Teréga is actively involved in achieving the national target of 10% renewable gas consumed in 2030, thus building a low-carbon energy mix.

To that end, we are pursuing our initiatives to prepare for and encourage the integration of renewable gases.

# Accelerator of the energy transition

## Innovation to encourage the development of new gases

BIOMETHANE

SYNTHETIC METHANE

NGV AND BIONGV

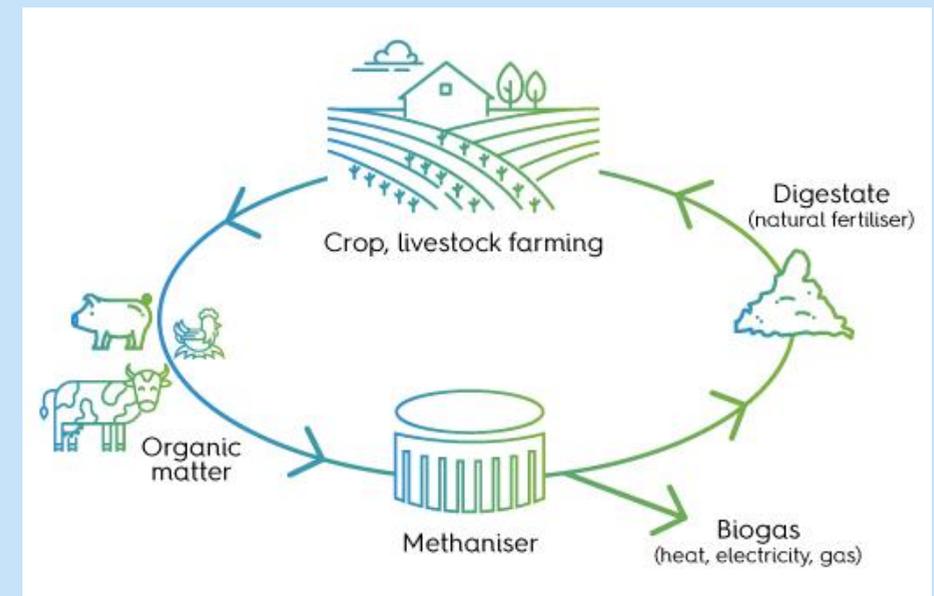
HYDROGEN

MULTI-ENERGY

### BIOMETHANE

Methanisation projects enable us to **recycle waste**, produce **renewable energy**, and create **non-relocatable employment**.

**We provide support to all those leading biomethane projects**, such as the Fonroche industrial operation in Villeneuve sur Lot, or the agricultural methanisation projects like Méthalayou in Préchacq-Navarrenx and Arsème in Montaut.



3

sites en injection  
130 GWh/an

**BIOVILLENEUVOIS**

1 190 Nm<sup>3</sup>/h

**METHALAYOU**

115 Nm<sup>3</sup>/h

**ARSEME**

210 Nm<sup>3</sup>/h

6

contrats  
435 GWh/an

① **BIOBEARN** (64)

2 800 Nm<sup>3</sup>/h

④ **CAP VERT ENERGIE** (81)

400 Nm<sup>3</sup>/h

② **PROMETER** (12)

595 Nm<sup>3</sup>/h

⑤ **MELUSINE** (33)

230 Nm<sup>3</sup>/h

③ **TRIFYL** (81)

775 Nm<sup>3</sup>/h

⑥ **AGRIENERGIE** (33)

115 Nm<sup>3</sup>/h

⑦ **ESA** (12)

145 Nm<sup>3</sup>/h

13

prospects  
230 GWh/an

**2 en Nouvelle-Aquitaine**

600 Nm<sup>3</sup>/h

**10 en Occitanie**

2 000 Nm<sup>3</sup>/h



# Accelerator of the energy transition

## Innovation to encourage the development of new gases

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**SYNTHETIC METHANE**

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HYDROGEN

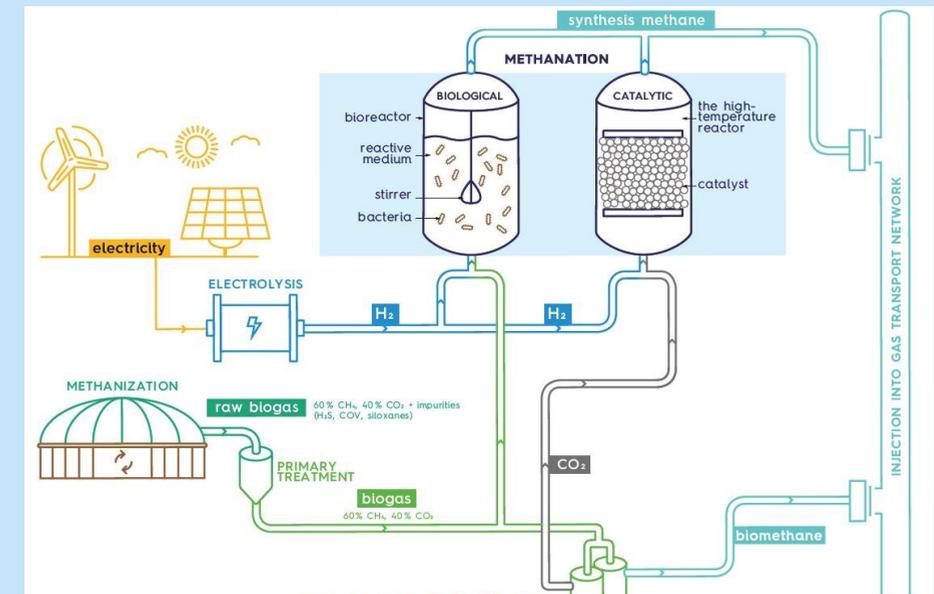
MULTI-ENERGY

### SYNTHETIC METHANE

The **methanation** process which produces synthetic methane enables the **recycling of CO<sub>2</sub> from other processes**, such as methanisation, transforming it into methane by adding renewably sourced H<sub>2</sub>.

This means that methanation can **double the energy production efficiency** of a methanisation plant, while at the same time **reducing its greenhouse gas emissions**.

We make an active contribution to collaborative projects designed to produce synthetic methane at both the laboratory and industrial scales, supporting projects such as Methamag and Jupiter 1000.



# Accelerator of the energy transition

## Innovation to encourage the development of new gases

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### NGV AND BIONGV

Natural Gas for Vehicles is natural gas used as a fuel. It offers one of the **best balances between economy and the needs of the environment.**

NGV has a number of advantages, including virtually zero fine particulate emissions, NOx emissions at half the Euro VI standard level, a lower price than traditional fuels, and the option to replace natural gas with biomethane, which is **even greener**: bioNGV.

In 2021, two public filling station on our grid was opened in Damazan and Saint-Sulpice. We are currently working with EnR64 to study other possible locations for NGV stations across the Pyrénées-Atlantiques territory.



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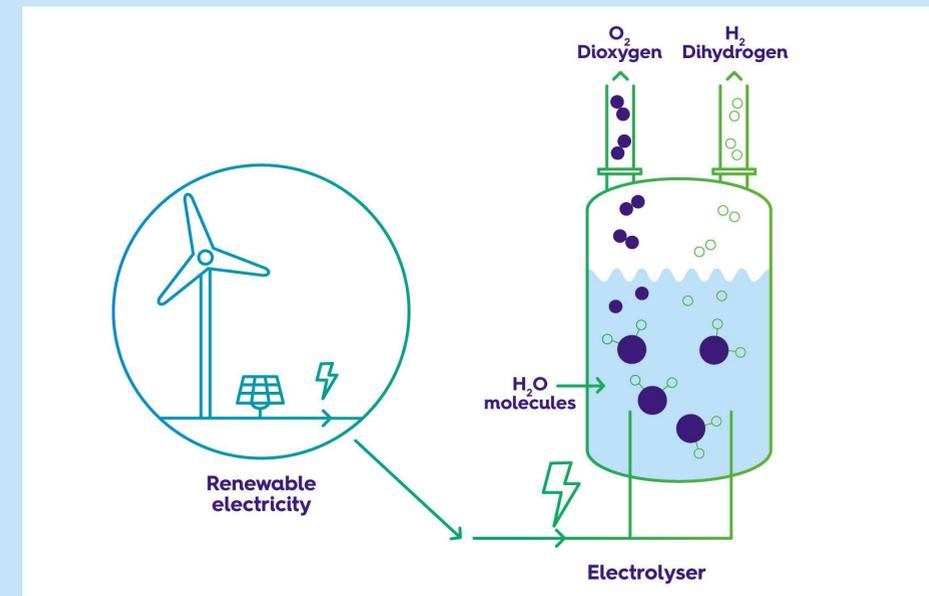
**HYDROGEN**

MULTI-ENERGY

### HYDROGENE

Decarbonised hydrogen could help us tackle two challenges at once: **accelerating the energy transition** and **strengthening France's industrial fabric**. A variety of solutions are being researched to move across to decarbonised hydrogen production. They include **electrolysis of water**, and **waste pyro-gasification**.

We are working to adapt our gas infrastructures to allow either the injection of hydrogen in a mix into the gas grid, or the injection of pure hydrogen into a dedicated transport grid. Working alongside HDF, we have also launched **HyGeo**, an innovative project to start the development of a whole new sector involving the mass storage of energy in the form of hydrogen.



GREEN GASES: CENTRAL TO MEETING ENERGY CHALLENGES

# Accelerator of the energy transition

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MULTI-ENERGY

### **R&I work and demonstrators,**

R&D work on H2 impact in underground storage (e.g. RINGS)

Work and tests on the impact of H2 on the transmission network, test bench, development and training

Power To Gas demonstrator with H2 injection into the network (Jupiter1000 with GRTgaz)

### **Studies,**

Design of a blending and injection station, Connection of an injection station, Network capacity, Management of gas quality in the network

### **First industrialisation projects,**

Connection of hydrogen production units to the network

Conversion of existing infrastructures for H2 transport and storage (Lacq Hydrogen project)

### **And longer term visions**

European Hydrogen Backbone

# Accelerator of the energy transition

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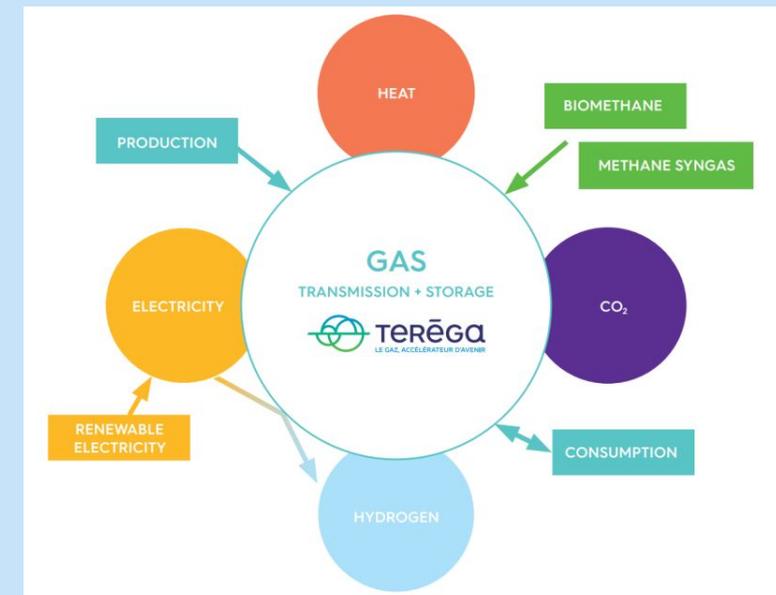
**MULTI-ENERGY**

### MULTI-ENERGY

In France, the different energy networks operate independently of one another, resulting in energy losses of between 25 and 60%.

The aim of **multi-energies** is to join up those networks, resulting in greater energy efficiency with **optimised production** closer to where consumers need it, **energy transformation** (electricity into hydrogen, for example, to allow storage) and **energy storage** for use at a later date.

Teréga has launched the **IMPULSE 2025** project, a smart multi-energy grid that puts this approach into practice.





TO RELEASE THE ENERGIES OF THE REGIONS

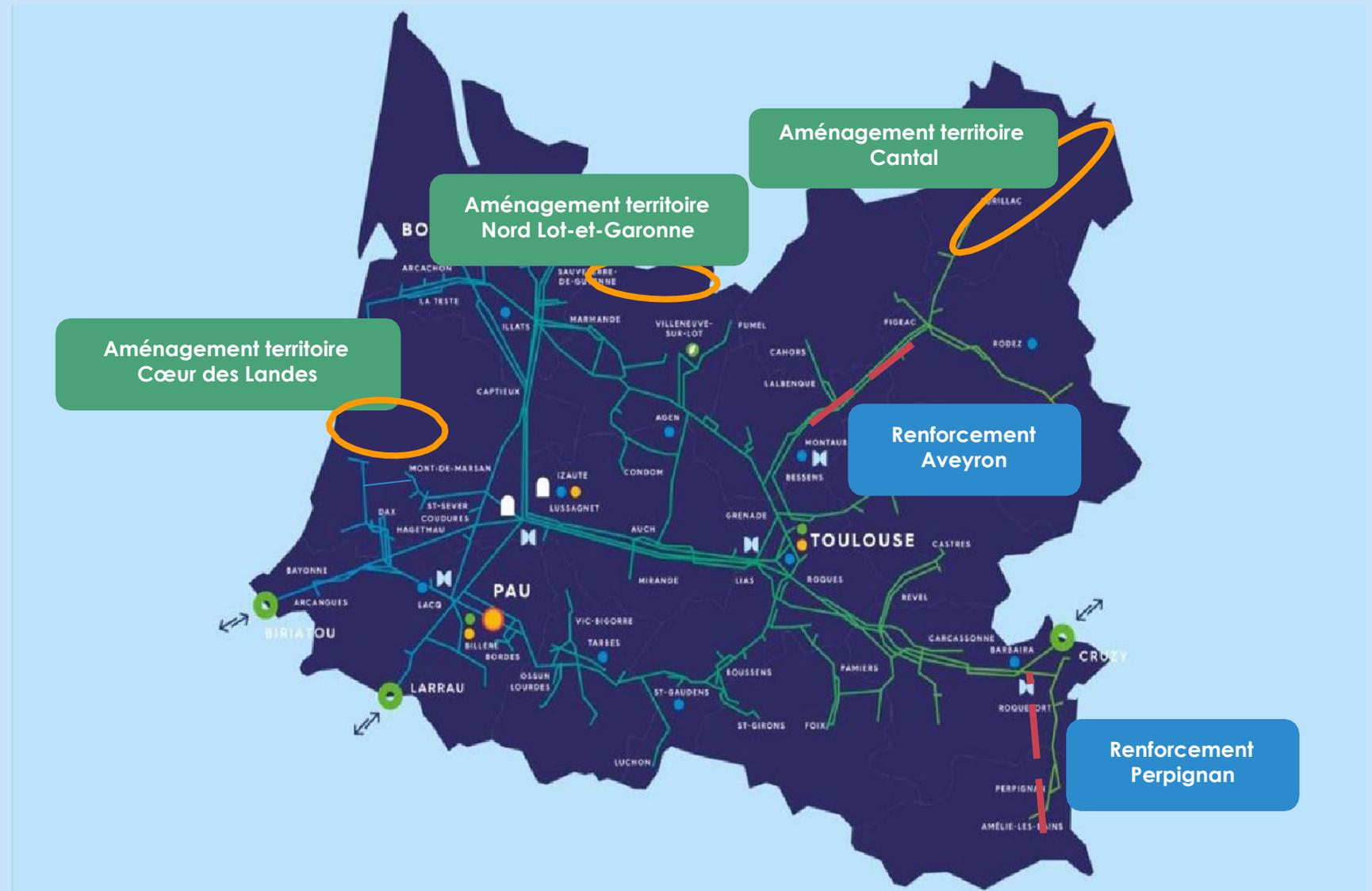
# Actor in the regions

As a committed actor and accelerator of energy transition in our region, we are just as involved in initiatives and new approaches to energy use in our region as we are in local and social development projects.

TO RELEASE THE ENERGIES OF THE REGIONS

The new challenges of Teréga's investments in its Transport infrastructures :

- investments built around the themes of security of operation and supply as well as regional development.
- Reasoned investments in order to take into account the new local dynamics of consumption evolution and renewable gas production.



# Actor in the regions

The customer and the security of energy supply of the territories are at the heart of our concerns

## Securing and modernising our gas grid

We undertake projects to modernise and develop our installations, to guarantee a quality service that meets the needs of the market.

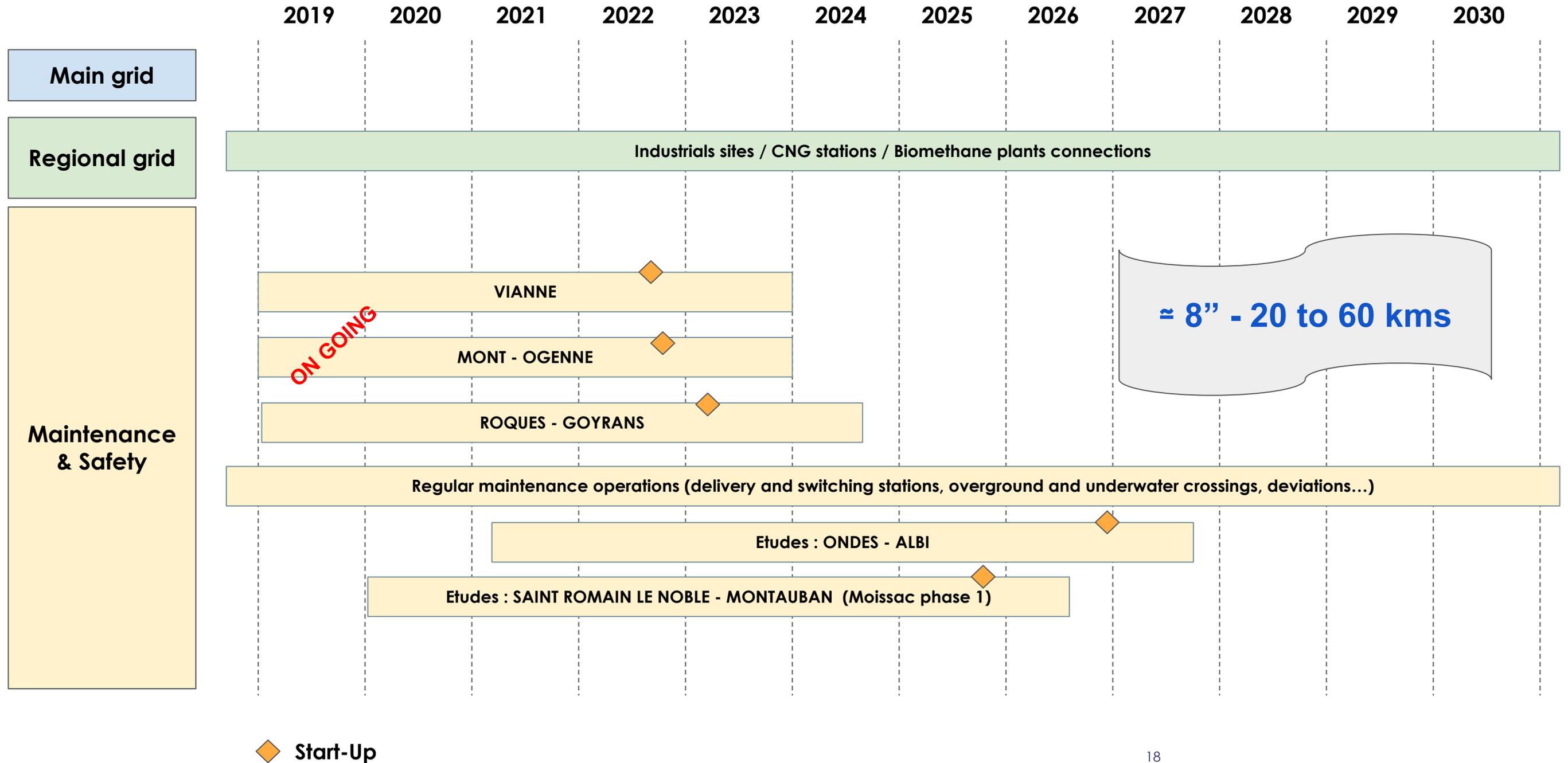
In 2020, the total amount invested by us came to €126m.

- **For our Transport business**, this was invested in grid development and infrastructure modernisation, security and maintenance.
- **For our Storage business**, investment was chiefly in infrastructure modernisation, safety and maintenance of projects.



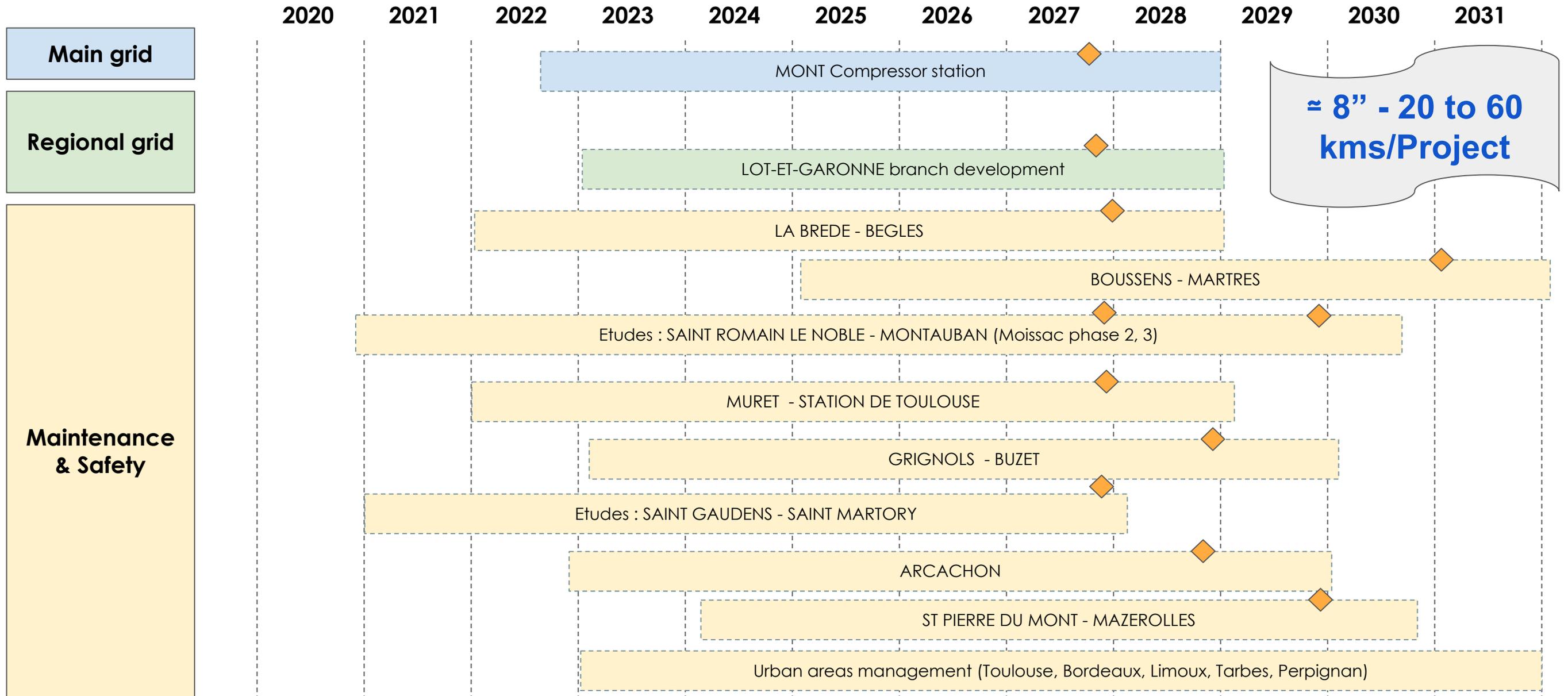
# Transmission - main investments

**VALIDATED**



# Transmission - main investments

TO BE VALIDATED



◆ Start-Up



**Thank You for your attention**



Go to [www.terega.fr](http://www.terega.fr)

