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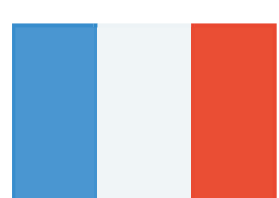
CURRENT TRL
& TARGET TRL

-20%

PESTICIDES &
FERTILIZERS COSTS



COUNTRIES



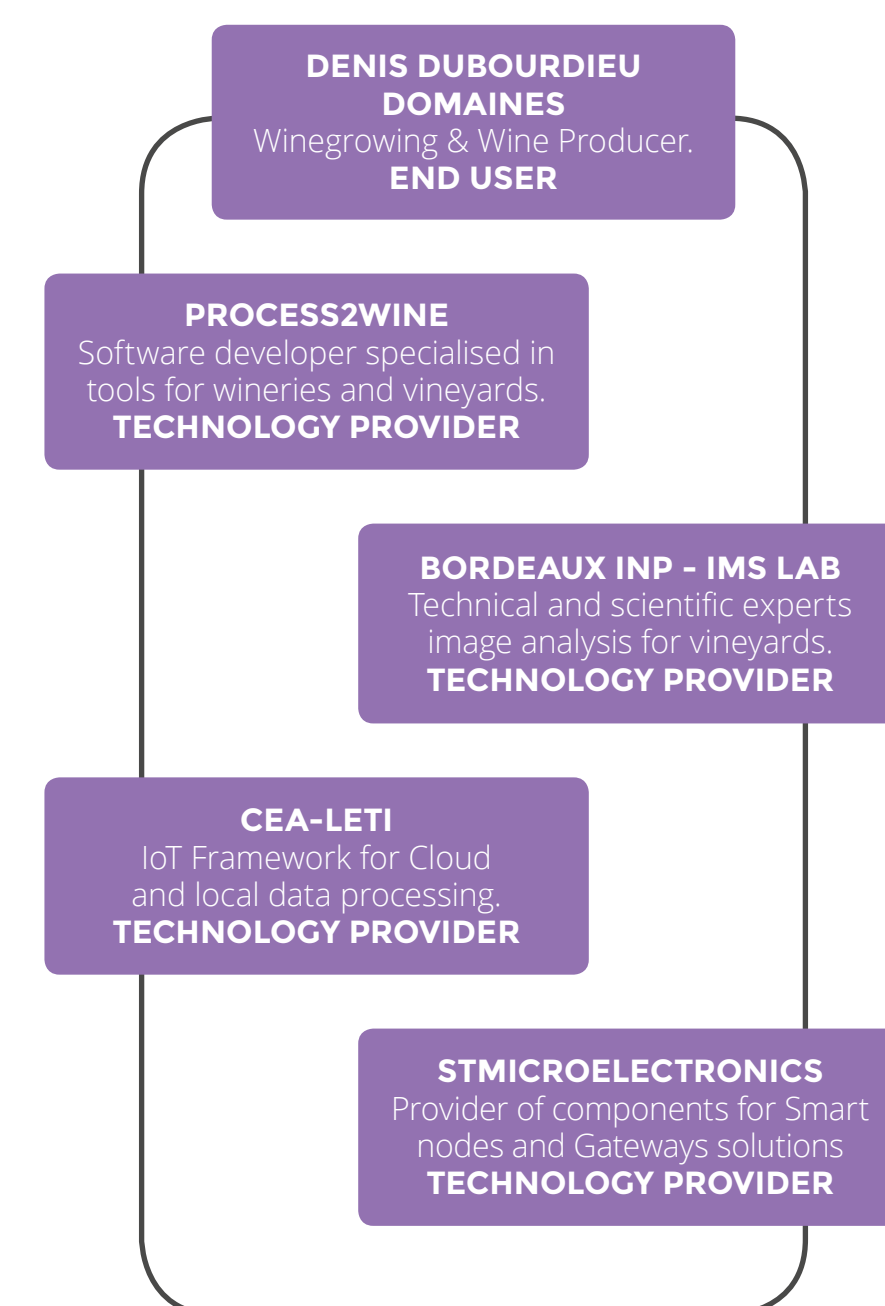
PARTNERS



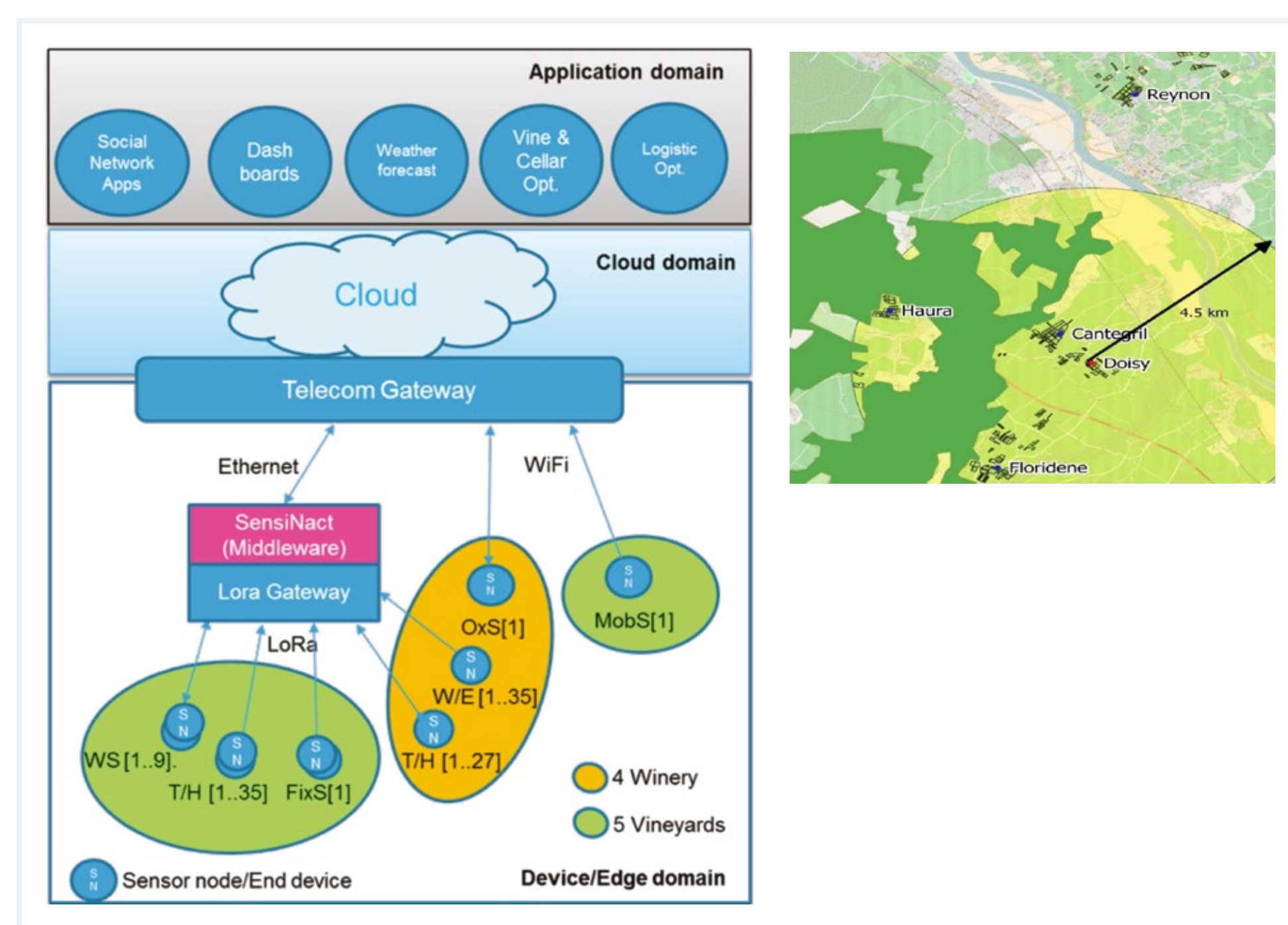
3.2 BIG WINE OPTIMIZATION

- Optimize the use of chemicals for plant protection through a precise identification of the moment and the product, as well as the exact needs for treatment in order to reduce environmental impacts, resource use and efficiently protect grape,
- Perform selective harvesting to reduce the inspection time and have accurate results,
- Avoid temperature and humidity issues thanks to winery monitoring, as they cause wine evaporation during summer times,
- Handle huge amount of data coming from 5 domains.

IoT technology allows to monitor weather, vine and key winery conditions in real time.



HOW IT WORKS



IoT System based on a LoRa private network allowing:

- Data gathering in real time from both the vineyard (weather conditions, vine phenological stages) and the wineries (Temperature, Humidity, water and electricity consumption),
- Big data analysis,
- Decision-making at anytime and anywhere through specialized wine production applications running on mobile devices.

THE IMPACT

OUR OBJECTIVES

- Deploy 150 sensor nodes to gather data from 5 vineyards, covering 150 hectares and 4 cellars,
- Perform data analysis and facilitate decision making,
- Improve vine yield and wine production.

ON ECONOMY

- Reduced pesticides costs - 20%,
- Reduced fertilizers costs - 20%,
- Productivity gains (salaries and social charges),
- Increased annual savings due to accident prevention.

OTHER IMPACT

- Treatment frequency index,
- Cost reduction in phytosanitary measures and fertilizer use,
- Potable water use reduction in processing stage,
- Energy use reduction in processing stage,
- Reduction of GHG 600.