



The Project and Its Objectives



The IRIA project is a national initiative formed by the companies REPSOL S.A. (REPSOL), PETRÓLEOS DEL NORTE S.A. (PETRONOR, part of the Repsol Group), and TRADIA TELECOM S.A. (a CELLNEX Group company). All three companies have a strategic plan aligned with digitalization and the deployment of new technologies, solutions, and operations through 5G technologies in industrial environments. Furthermore, the consortium has a high level of technological expertise in their respective sectors, as well as in the development of wireless communications. They are all leading companies in their fields, highly structured, and advanced in their digitalization efforts, which they continue to strengthen.

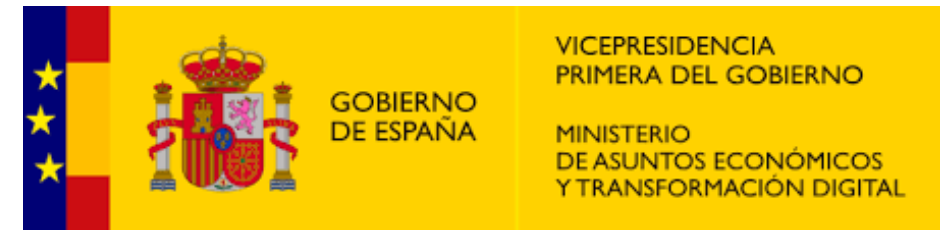
IRIA is supported by a grant from the Ministry of Economic Affairs and Digital Transformation (MINECO) through the 2023 **Sectoral UNICO 5G Program**, within the Recovery, Transformation, and Resilience Plan, funded by the European Union under the Next Generation EU program.

The overall objective of the project is to drive the digitalization and decarbonization of an industrial site through the development of a communication solution leveraged on 5G technology, enabling new operations and applications in an industrial environment.



Financiado por la
Unión Europea

NextGenerationEU



Plan de Recuperación,
Transformación y Resiliencia

Key Objectives

Promote decarbonization and advance towards multi-energy generation at the industrial site

Enhance digitalization and worker safety.

Improve communication capabilities, reliability, and security

Support the development of a green hydrogen production plant.



Address the existing gap in automatic roaming between networks for critical communications.

The Consortium Companies



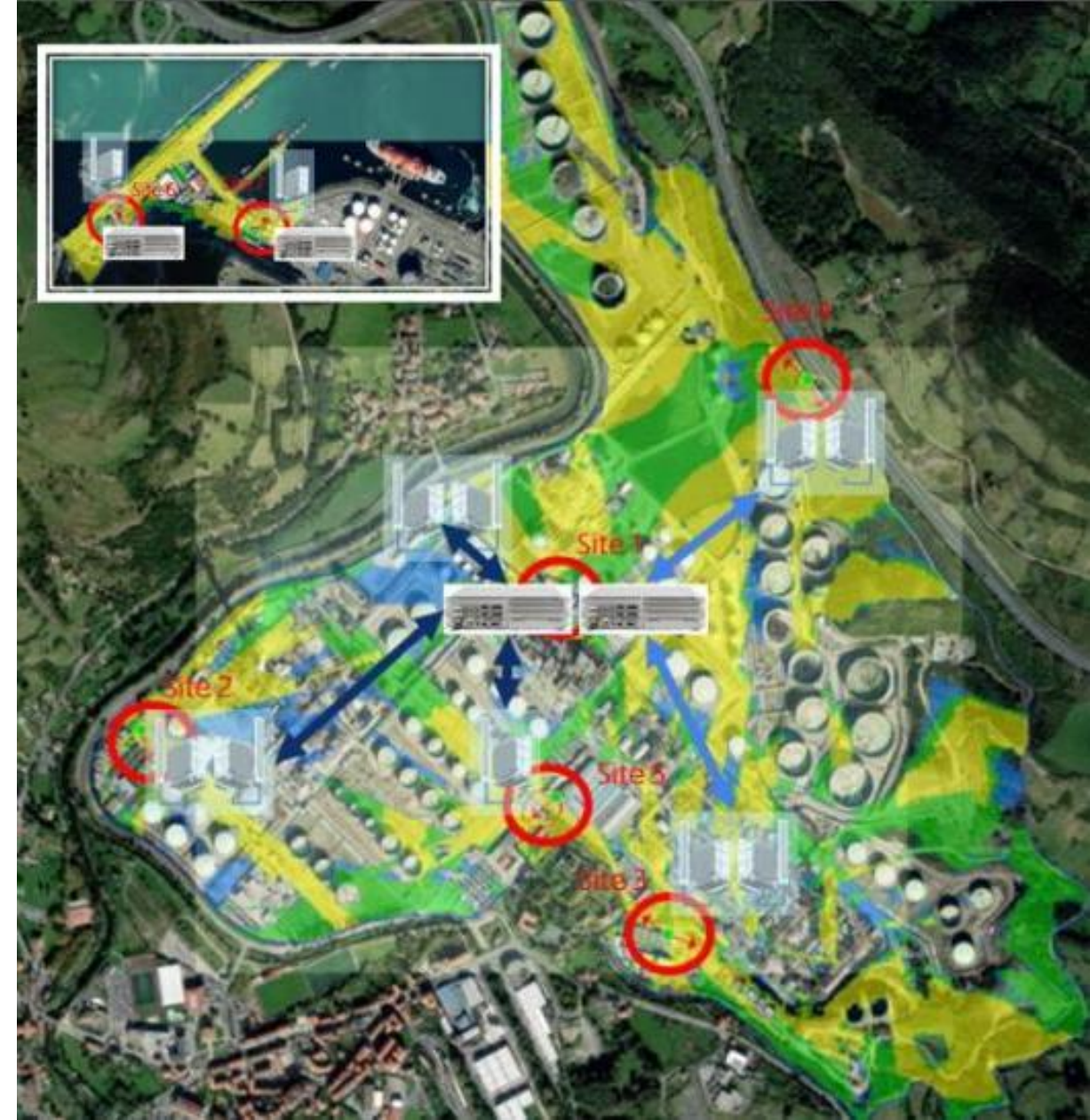
REPSOL is a global multi-energy company focused on placing the customer at the center of its activities, aiming to meet energy needs through new solutions. REPSOL is advancing its commitment to decarbonization, targeting net-zero emissions by 2050, becoming the first company in its sector to adopt this ambitious goal. It is fully aligned with the objectives set by both the European Union and the Spanish Government. The company is transforming its industrial complexes into multi-energy hubs capable of generating products with low, zero, or even negative carbon footprints, while fostering new business models based on digitalization and technology.

PETRONOR also follows a decarbonization strategy through the use of technology and is fully aligned with REPSOL's strategic objectives, including achieving net-zero emissions by 2050. PETRONOR aims to remain at the forefront of R&D and the ecological transition, promoting an energy transition that involves rethinking production processes, developing innovative products, exploring alternative businesses, and adopting new ways of operating. One of its key strategic lines is "Managing Innovation," which entails fostering a new culture of broad, open, and profitable innovation, applying advanced technologies to improve efficiency and sustainability while leveraging opportunities from the energy transition.

CELLNEX, participating through its subsidiary Tradia, is a Spanish telecommunications infrastructure and wireless services company with a strong presence across Europe. Its activities are divided into four main areas: services for telecommunications infrastructures; broadcasting networks; security and emergency communication networks; and solutions for the smart management of infrastructures and urban services. Its goal is to create an innovative, efficient, neutral, and high-quality communications platform to drive digitalization across Europe. Since its inception, the company has taken responsibility for addressing its environmental impact holistically.

Results Achieved

One of the outcomes of the IRIA project is that the industrial site will advance in its transformation into a decarbonized multi-energy center, serving as a benchmark for other industrial facilities that could replicate the developed solutions. Additionally, a green hydrogen plant will be able to operate more efficiently thanks to the digitalization, connectivity, and technological capabilities deployed for the workforce. The IRIA project therefore contributes to sustainability by promoting industrial decarbonization and improving process efficiency, leading to time and resource savings in operations. By decarbonizing, carbon emissions will be reduced, minimizing environmental impact. Overall, these innovations will enable the creation of a more efficient and sustainable industry.



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