



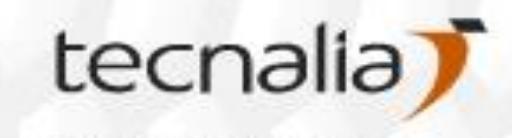
BASQUE GREEN DEAL

EUSKO JAURLARITZA GOBIERNO VASCO



EKONOMIAREN GARAPEN,
JASANGARRITASUN
ETA INGURUMEN SAILA

DEPARTAMENTO DE DESARROLLO
ECONÓMICO, SOSTENIBILIDAD
Y MEDIO AMBIENTE



bRTA.eus

➤ 3.700 researchers

➤ 300 M €

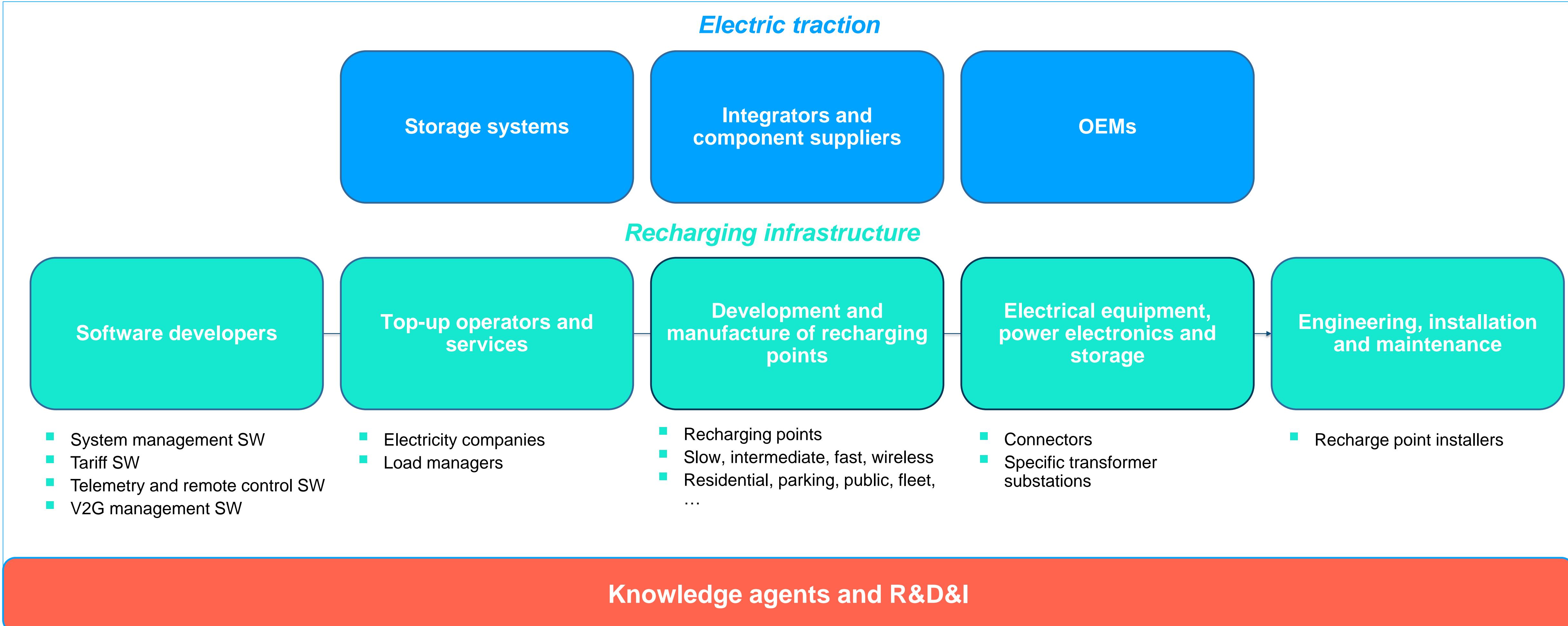
Annual investment

➤ 1.300

Annual scientific
publications

➤ 100 annual patents

The electric mobility value chain can be divided between electric traction and companies dedicated to charging infrastructure ...



... in which the Basque Country has a presence in almost all segments with local, national and international companies

Software developers and other services



Top-up operators and services



Development and manufacture of recharging points



Electrical equipment, power electronics and storage



Installers



Knowledge agents and R&D&I



Storage systems



Integrators and Component Suppliers



OEMs



2030 Goals

The objectives set for the year 2030:

PRODUCTION

Reach an installed electrolysis power of 300 MW.

100% of the hydrogen produced is of renewable origin

or low in carbon.

Annual production of 2,000 t / year of synthetic fuels.



END USES: INDUSTRY

90% of the hydrogen consumed in the industry as a raw material is of renewable or low carbon origin.

Hydrogen accounts for 5% of the total energy consumption of the industrial sector.

END USES: BUILDINGS

10 pilot projects for the use of hydrogen in buildings.

END USES: TRANSPORTATION AND MOBILITY

Fleet of 20 hydrogen buses in the Basque Country.

Fleet of 450 freight vehicles of various sizes.

Network of 10 public access hydroelectric plants, with a presence in the three historic territories



The project, with 78 companies involved, will have an investment of more than 1,300 million euros until 2026, and will generate more than 1,340 direct and 6,700 indirect jobs



Europe chooses the consortium led by CAF for the development of a **hydrogen train** prototype



Y H₂

Y H₂: It will join the three territories of the Basque Country with three hydrogenerators in the ports of Bilbao and Pasai, and in Júndiz



Basquevolt will be the first gigafactory of solid state cells in Europe, leading this new technology for a growing market



Basquevolt
Primera Gigafactoría de
estado sólido en Europa

Different technological proposal based on solid state cells

4^o

Generation 4 cells



Higher Energy

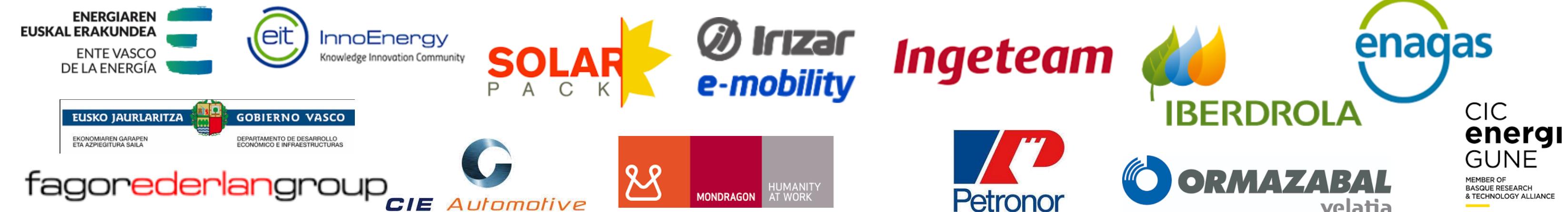


Security



Lower Cost

Propulsion by public-private collaboration



A roadmap designed to anticipate the emergence of the market

2022

Lanzamiento de
primera línea de
producción

2023

Primer escalado
de producción

2026

Gigafactoría de 10
GWh de capacidad
desplegada

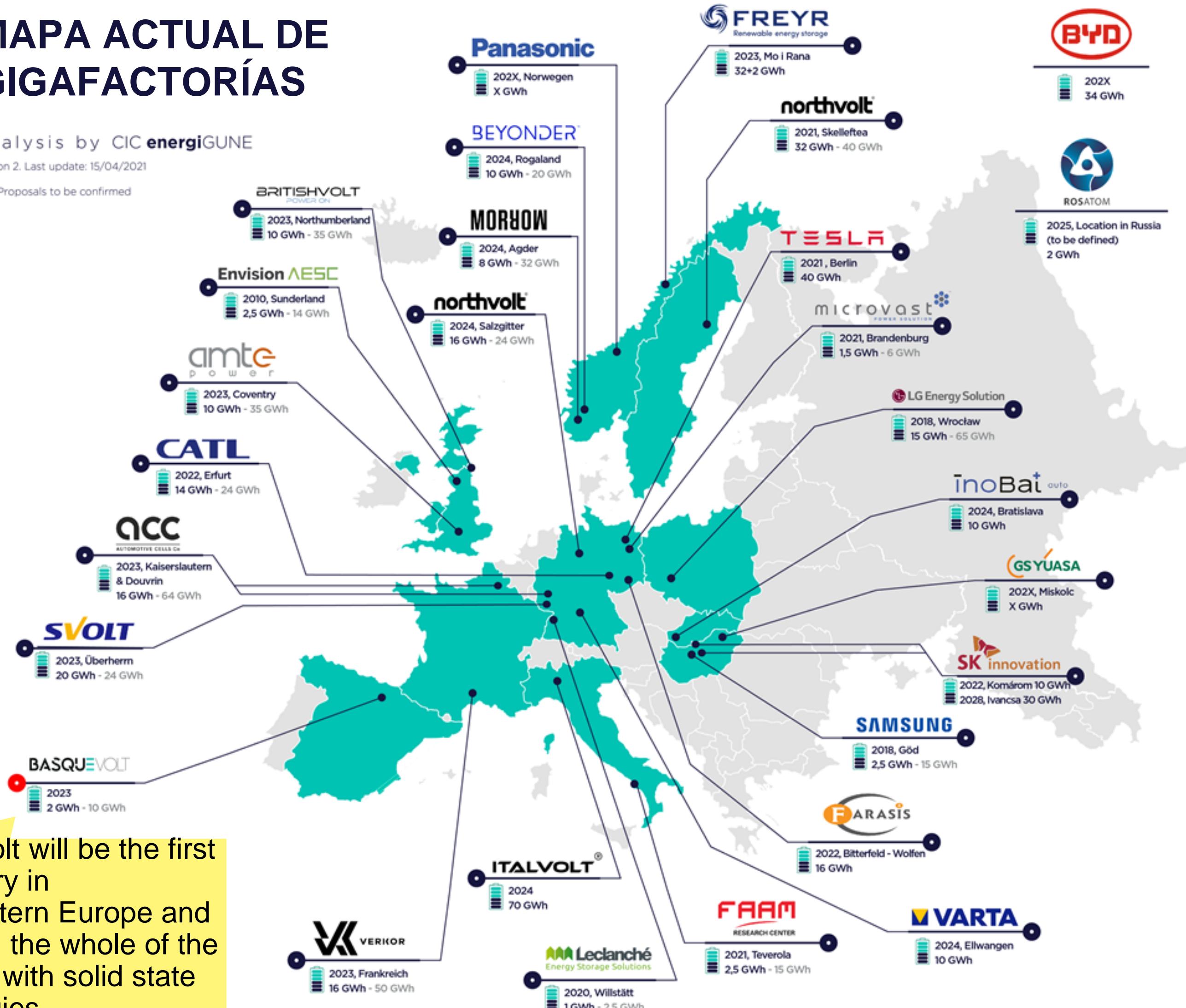
Basquevolt will make it possible to complete the European map of gigafactories, generating a high impact on its closest environment

MAPA ACTUAL DE GIGAFACTORIAS

Analysis by CIC energiGUNE

Version 2. Last update: 15/04/2021

● Proposals to be confirmed



Basquevolt will be the first gigafactory in southwestern Europe and the first in the whole of the continent with solid state technologies

Principales cifras asociadas al proyecto y el mercado de Basquevolt

Capacidad una vez que la planta esté plenamente operativa

Inversión necesaria para el desarrollo del proyecto en el periodo 2021 – 2026

Empleos directos generados por el proyecto

Posibles empleos indirectos generados por el proyecto

Demanda anual estimada de baterías en la UE en 2040

Ingresos anuales previstos del proyecto a partir de 2030 por su actividad directa

Estimación del CAGR de las tecnologías de estado sólido para el periodo 2019 – 2025

Valor total estimado del mercado de baterías de estado sólido sólo en 2025



BASQUE GREEN DEAL

EUSKO JAURLARITZA GOBIERNO VASCO



EKONOMIAREN GARAPEN,
JASANGARRITASUN
ETA INGURUMEN SAILA

DEPARTAMENTO DE DESARROLLO
ECONÓMICO, SOSTENIBILIDAD
Y MEDIO AMBIENTE