



# Sabiñánigo factory

# Key facts about Ercros 2024

**1989**  
Foundation

**1.335**  
Staff

**10**  
Factories

**700 M€**  
Revenue

**29 M€**  
Ebitda

**55,5%**  
Export  
(>100 countries)



# Production sites

Chlorine derivatives

Intermediate chemicals

Pharmaceuticals



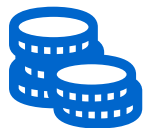
# Key facts about Sabiñánigo 2024



Foundation: 1918



Staff: 240 people



Sale: 113,5 M€



Export: 69%





# The Sabiñánigo industrial estate



# Products and market share

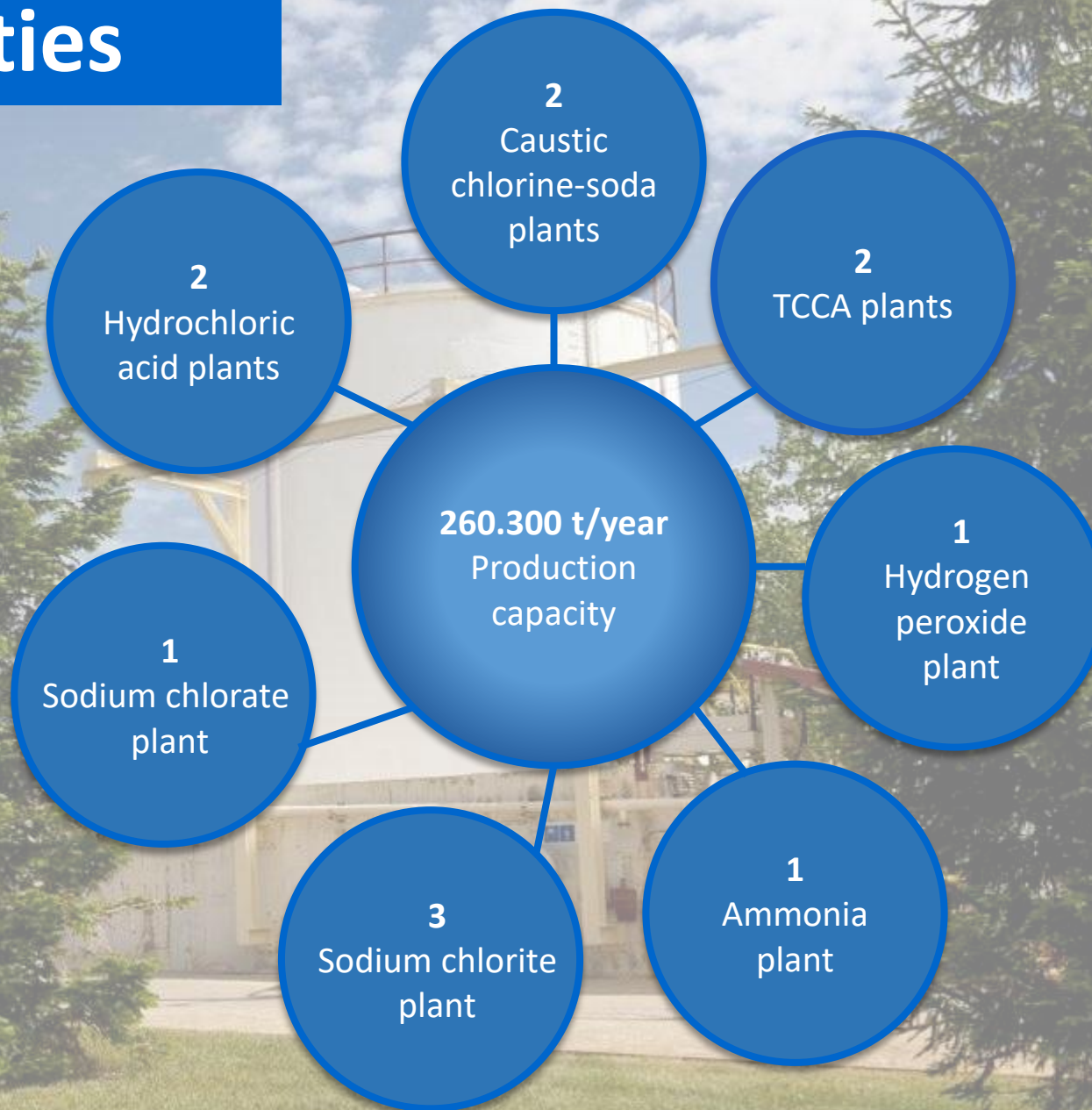
Products	Applications
Hydrochloric acid	Industry in general
Hydrogen peroxide	Manufacture of chlorate
Ammonia	Metallurgy
TCCA	Swimming pool water
Sodium chlorate	Paper pulp bleaching
Sodium chlorite	Water treatment
Chlorine	Derivatives manufacturing
Sodium hypochlorite	Water treatment
Caustic potash	Chemical industry
Caustic soda	Industry in general

	Ranking by market share	
	Spain	Europe
Hydrochloric acid	1 <sup>st</sup>	-
TCCA	1 <sup>st</sup>	1 <sup>st</sup>
Sodium chlorate	1 <sup>st</sup>	4 <sup>th</sup>
Sodium hypochlorite	1 <sup>st</sup>	11 <sup>th</sup>
Caustic soda	1 <sup>st</sup>	9 <sup>th</sup>

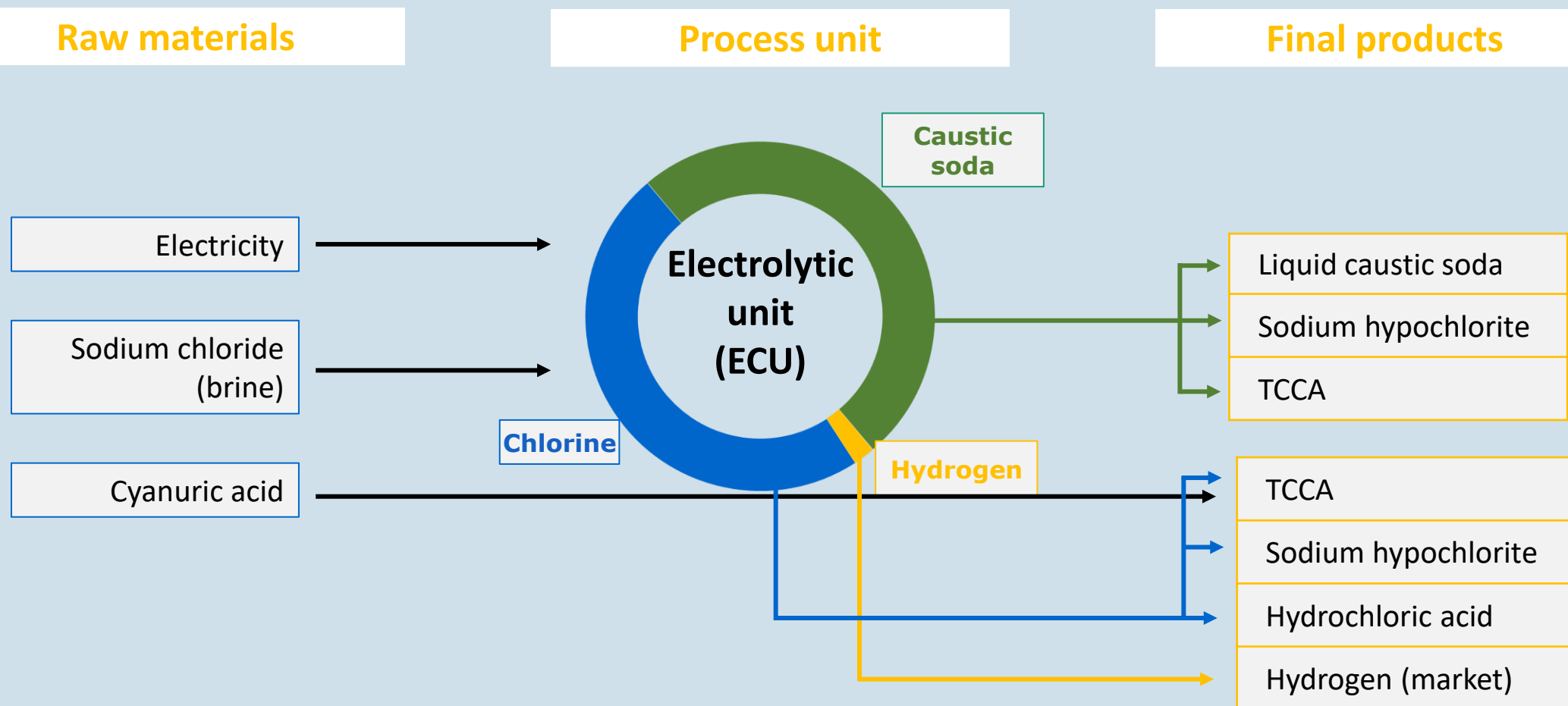
The data provided come from calculations made by Ercros.



# Production and facilities



# Chlorine caustic soda production scheme



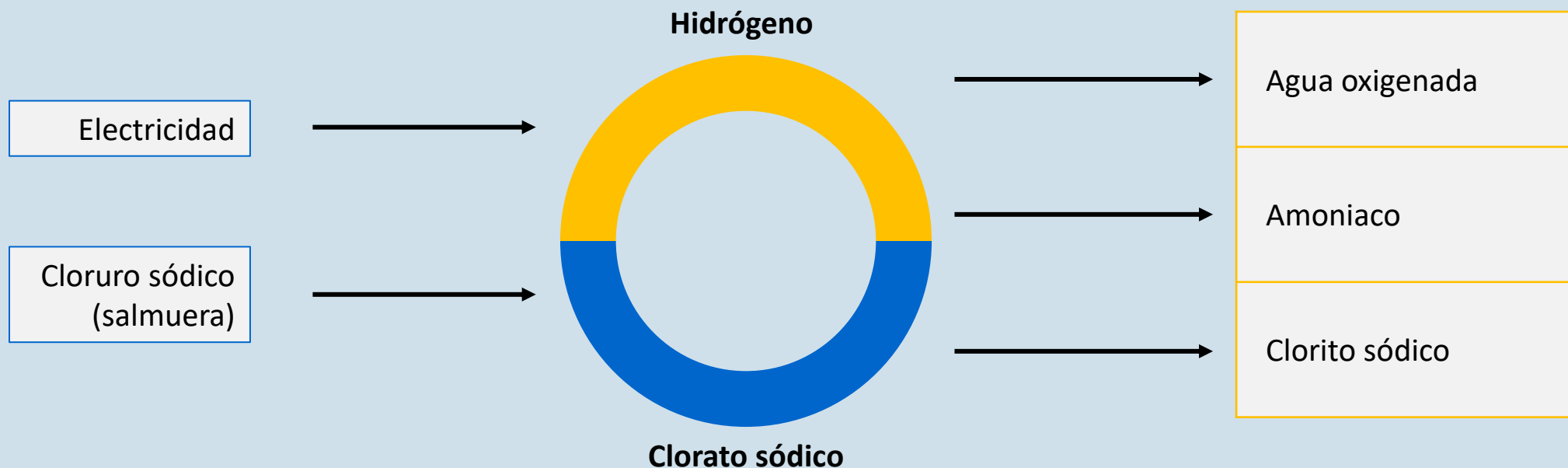


# Sodium chlorate line production scheme

## Materias primas

## Unidad de proceso

## Productos finales



# Chlorine, caustic soda and caustic potash

<b>Chlorine (Cl<sub>2</sub>)</b>	<b>Applications</b> <ul style="list-style-type: none"><li>■ Water disinfection</li><li>■ Solvents</li><li>■ Pharmacy</li></ul>	<b>Markets</b> <ul style="list-style-type: none"><li>■ Self-consumption to manufacture TCCA, sodium hypochlorite and hydrochloric acid.</li></ul>
<b>Caustic soda (NaOH)</b>	<b>Applications</b> <ul style="list-style-type: none"><li>■ Industry in general</li><li>■ Aluminium</li><li>■ Cellulose</li><li>■ Detergents</li></ul>	<b>Markets</b> <ul style="list-style-type: none"><li>■ More than half is self-consumed.</li><li>■ Of the sales, most of it goes to Spain and the rest to other EU countries.</li></ul>
<b>Caustic potash (KOH)</b>	<b>Applications</b> <ul style="list-style-type: none"><li>■ Pharmacy</li><li>■ Soaps</li><li>■ Alkaline batteries</li></ul>	



# Carbonate, hypochlorite and hydrochloric acid

<b>Potassium carbonate (<math>K_2CO_3</math>)</b>	<b>Applications</b> <ul style="list-style-type: none"><li>■ Pharmacy</li><li>■ Glass production</li><li>■ Liquid detergents</li></ul>
<b>Sodium hypochlorite (<math>NaClO</math>)</b>	<b>Applications</b> <ul style="list-style-type: none"><li>■ Water purification</li><li>■ Household disinfection</li><li>■ Textile bleaching</li></ul>
<b>Hydrochloric acid (<math>HCl</math>)</b>	<b>Applications</b> <ul style="list-style-type: none"><li>■ Metal stripping</li><li>■ Dyes and colorants.</li><li>■ pH regulator</li></ul>

# Sodium chlorate and chlorite

<b>Sodium chlorate</b> <b>(NaClO<sub>3</sub>)</b>	<b>Applications</b> <ul style="list-style-type: none"><li>■ Paper bleaching</li><li>■ Fiber bleaching</li><li>■ Water purification</li></ul>	<b>Markets</b> <ul style="list-style-type: none"><li>■ Ercros is the leading producer of sodium chlorate in Spain and its sales account for more than half of this market.</li></ul>
<b>Sodium chlorite</b> <b>(NaClO<sub>2</sub>)</b>	<b>Applications</b> <ul style="list-style-type: none"><li>■ Water purification</li><li>■ Circuit coolant</li><li>■ Fiber bleaching</li></ul>	<b>Markets</b> <ul style="list-style-type: none"><li>■ The only Spanish producer.</li><li>■ Part of the sales are destined for Spain; just over half to other EU countries; and the rest to other markets.</li></ul>



# Ammonia and hydrogen peroxide

<b>Ammonia (NH<sub>3</sub>)</b>	<b>Applications</b> <ul style="list-style-type: none"><li>■ Metallurgy</li><li>■ Cooling circuits</li><li>■ Fertilizers</li><li>■ Dissolving agent</li><li>■ Pharmacy</li></ul>	<b>Markets</b> <ul style="list-style-type: none"><li>■ 100% is sold in Spain.</li></ul>
<b>Hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>)</b>	<b>Applications</b> <ul style="list-style-type: none"><li>■ Bleaching, paper pulp and fibers</li><li>■ Metal extraction and purification</li><li>■ Water treatment</li><li>■ Pharmaceuticals, cosmetics and food</li></ul>	<b>Markets</b> <ul style="list-style-type: none"><li>■ 30% is self-consumed to manufacture sodium chlorate.</li><li>■ The rest is sold, mainly, to customers in Spain.</li></ul>

# Trichloroisocyanuric acid (TCCA)

## Applications

- Disinfection of swimming pool water.
- Detergent manufacturing.



## Markets and brands

- Half is exported, mainly, to the US and France.
- Trademarks: Delsa and Azuli.





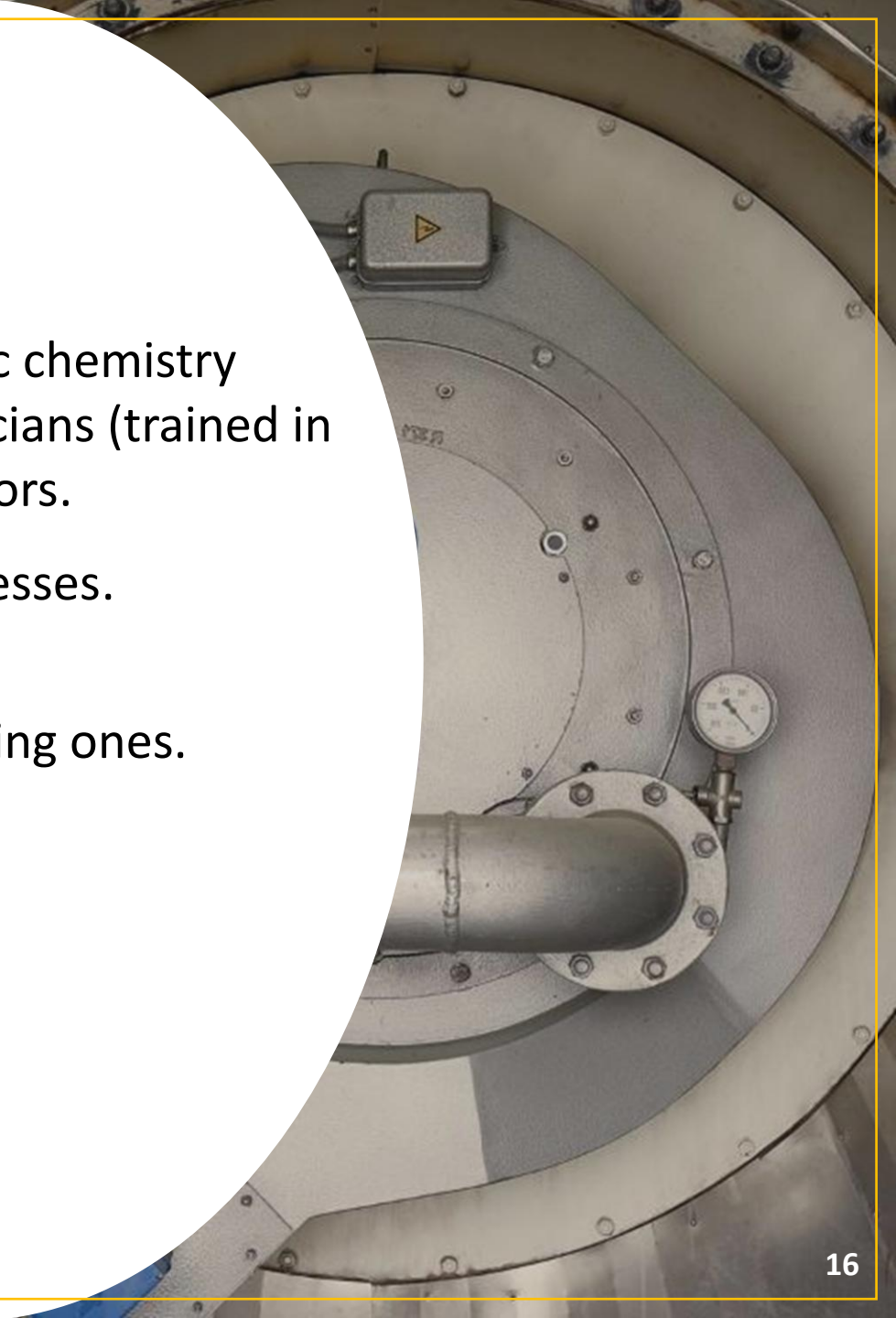
# The 3D Plan in Sabiñánigo

- The 3D Plan is the strategic plan launched by Ercros, which pursues its transformation into a sustainable company and is based on three dimensions: diversification, digitalisation and decarbonisation or the fight against climate change.
- Main actions in Sabiñánigo:
  - New sodium chlorite production line.
  - New pilot plant for hydrogen generation.
  - New plant for crystallization of salt from waste brine.
  - New head-end electrical transformer to reduce CO<sub>2</sub> emissions.
  - Installation of mixed burners in steam boilers to reduce natural gas consumption.
  - Internet of Things: monitoring key parameters of plant operation to improve energy performance and the useful life of facilities.



## R+D

- The Sabiñánigo factory has the main R+D center for the basic chemistry activity. The department is made up of 12 people: six technicians (trained in Chemical Sciences and Chemical Engineering) and six operators.
- It has pilot facilities for the study of various production processes.
- The main activities are:
  - Development of new products and improvement of existing ones.
  - Improvement of the energy efficiency of processes.
  - Development of anodic activations.
  - Development of analytical solutions.





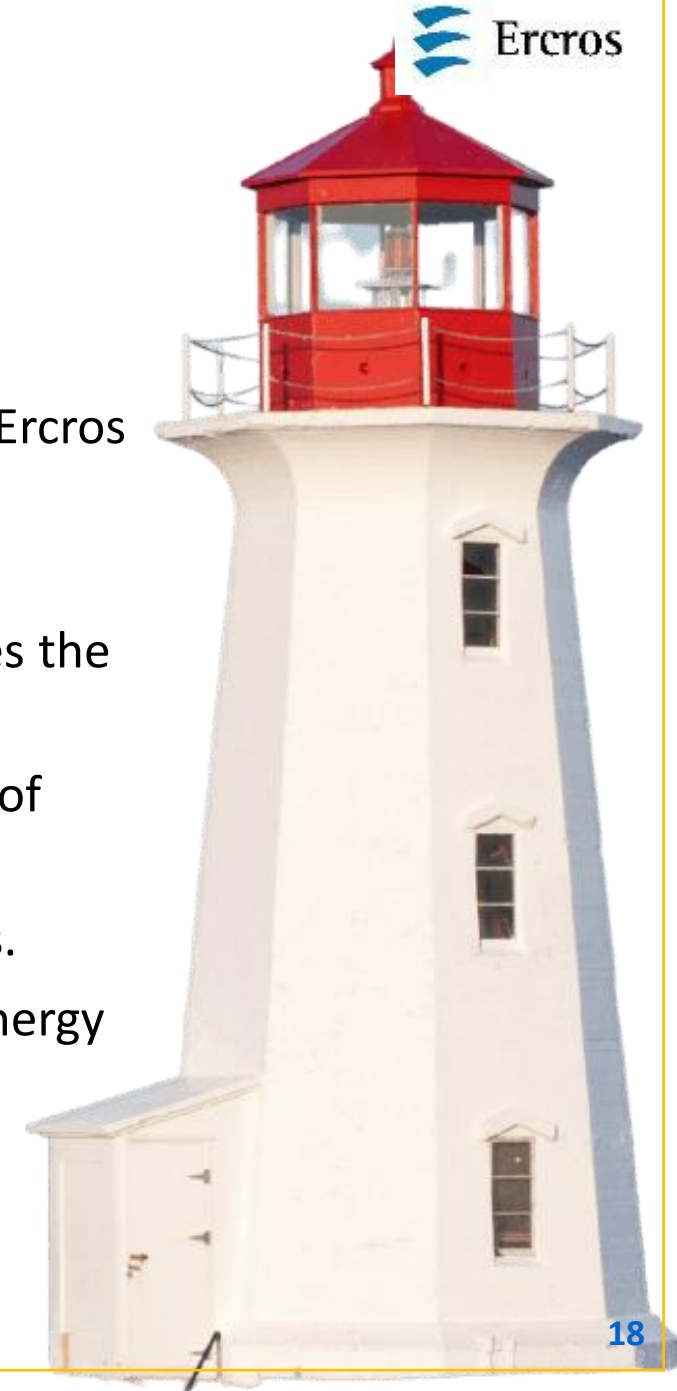
# Certifications

- **ISO 14001:** Environmental management system reference standard.
- **ISO 14064:** CO<sub>2</sub> emission verification standard.
- **ISO 50001:** Energy management system reference standard.
- **ISO 9001:** Quality assurance standard.
- **ISO 45001:** Standard that accredits health and safety management.
- **Sigos:** Standard that accredits the application of a healthy organizational management system.
- **CSR Company:** Certification of the Responsible Care program as a CSR company.
- **IBGC:** Certificate of compliance with the good corporate governance index.
- **UNE 19601:** Criminal compliance management system accreditation.
- **ISO 27001:** Standard certifying the data protection system.
- **OEA:** Certificate from the AEAT as an authorized economic operator.



# Governance and CSR

- **EcoVadis:** CSR rating agency. Ercros scored 87/100 points.
- **Responsible care:** Good practice programme promoted by the chemical sector. Ercros has obtained 85/100 points in the self-assessment questionnaire.
- **Global Compact:** UN-promoted programme containing 10 principles of action.
- **ASG Lighthouse rating:** Promoted by the Spanish Institute of Analysts, it assesses the level of compliance with ESG criteria. Ercros has obtained 86/100 points.
- **Carbon Disclosure Project (CDP):** Organization aimed at assessing the behavior of affiliated companies with respect to the climate emergency.
- **RE4Industry:** EU 100% renewable energy project for electro-intensive industries.
- **GetHyGA:** Initiative of the Government of Aragon to promote hydrogen as an energy source.



# Sustainable Development Goals (SDGs)

In the development of its activity, Ercros contributes to the fulfilment of the 17 SDGs set out in the UN 2030 Agenda, although it has a special impact on:

- **ODS 3:** Health and wellness.
- **ODS 6:** Clean water and sanitation.
- **ODS 7:** Affordable and clean energy.
- **ODS 8:** Decent work and economic growth.
- **ODS 9:** Industry, innovation and infrastructure.
- **ODS 12:** Responsible production and consumption.
- **ODS 13:** Climate action.





# Partnerships and participations



Universidad  
Zaragoza



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