



**Tarragona industrial complex (TIC)**

# 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

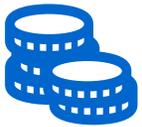
Pharmaceuticals



# Key data of the TIC 2024



Staff: 343 people



Sale: 234.72 M€



Factories: 3

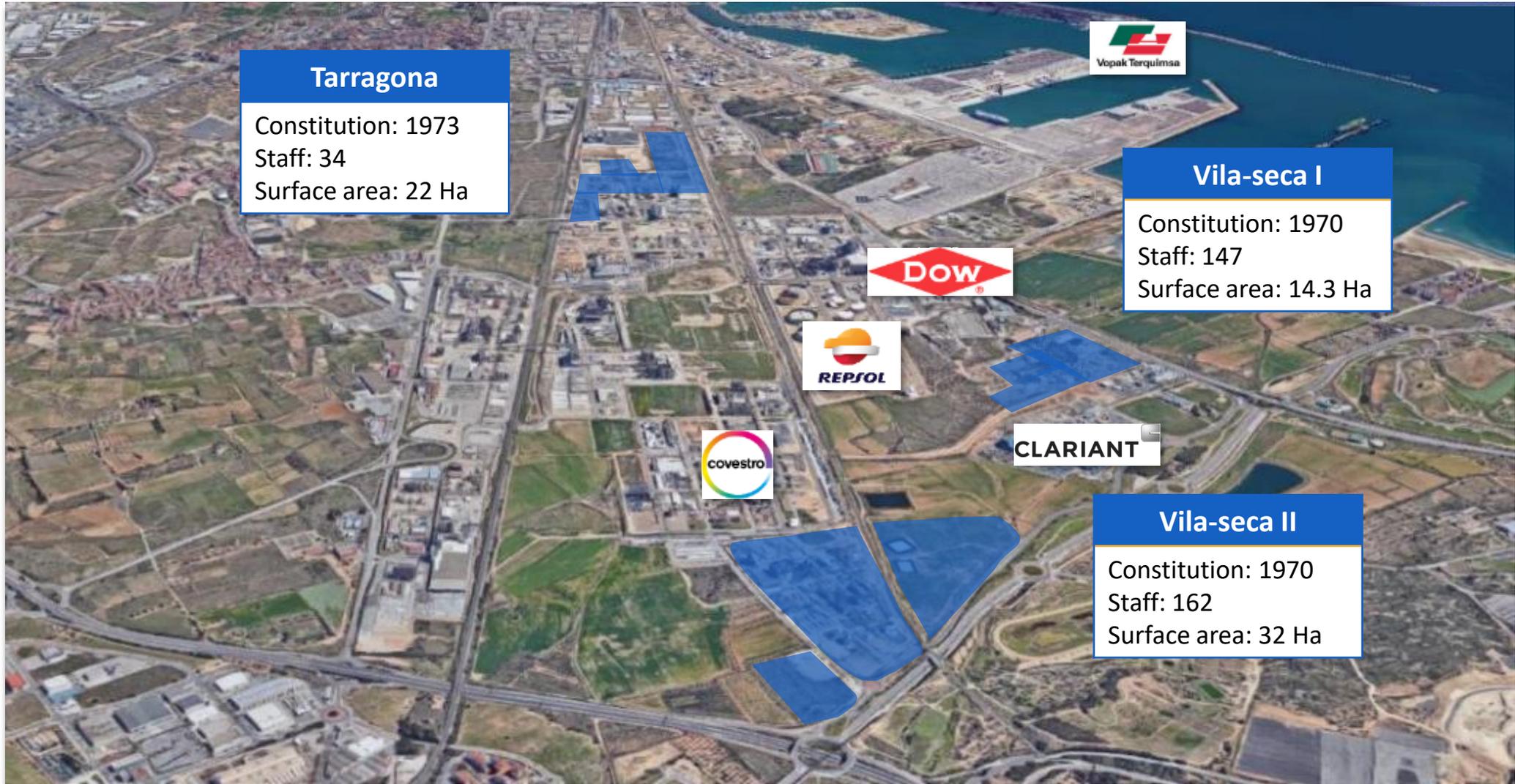


Export: 31%

Vila-seca I (Tarragona)  
Vila-seca II (Tarragona)  
Tarragona (Tarragona)



# Tarragona south site



# Business model

- The main activity of the Tarragona complex is the production of chlorine, caustic soda and their derivatives.
- Chlorine, caustic soda and hydrogen are obtained simultaneously in the same production process, by electrolysis, from sodium chloride dissolved in water (brine) and electricity, in a ratio of 1 ton of chlorine to 1.12 ton of caustic soda and the equivalent of 28 kg of hydrogen.
- The chlorine produced by Ercros is mainly used for the internal manufacture of chlorine derivatives and, in particular, for the manufacture of PVC.



# Business model

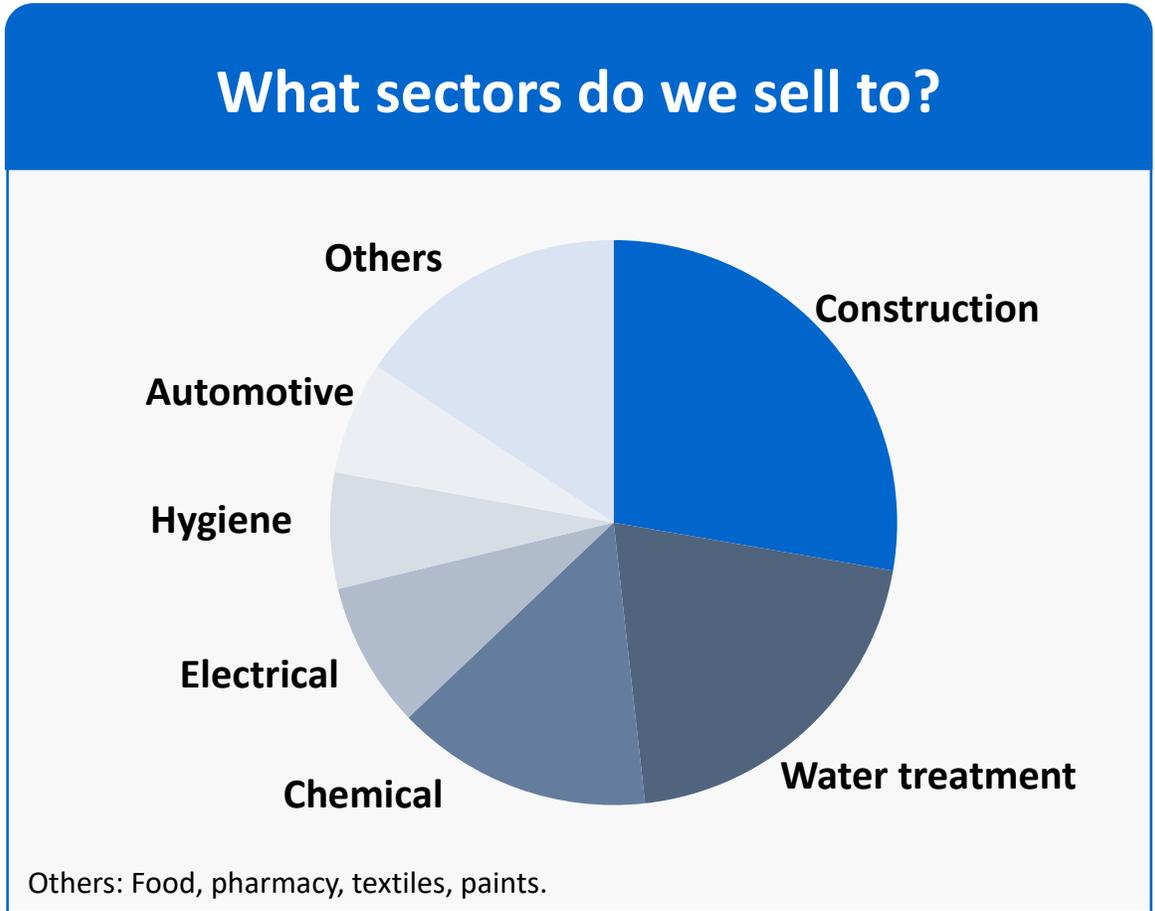
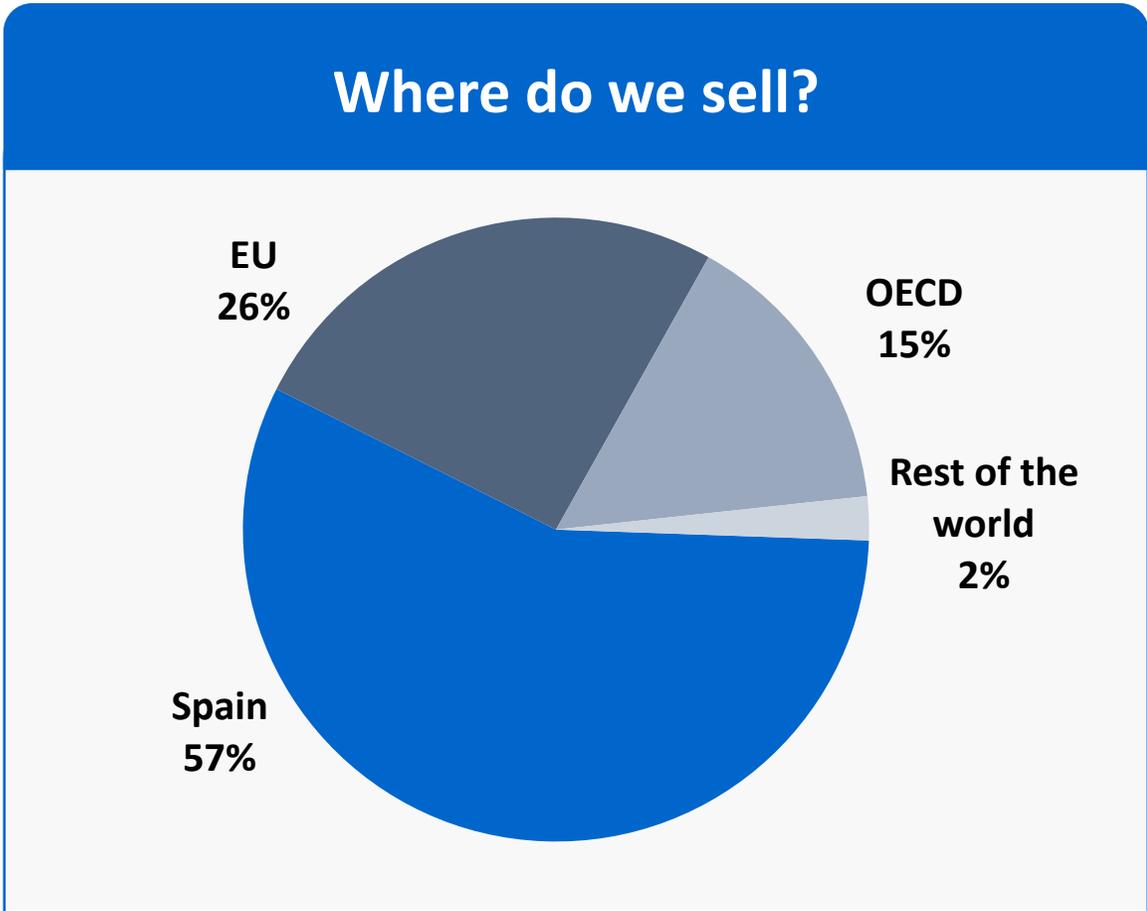
## Strengths

- Integrated production.
- Synergies and complementarity between the factories of the complex.
- Efficiency of its modern industrial park.

## Challenges

- Reduce carbon footprint.
- Digitize the entire value chain.
- Expand the production capacity of products with higher added value.

# Markets and sectors



# Products, applications & market shares

Products	Applications
Hydrochloric acid	Industry in general
Chlorine	Derivatives manufacturing
EDC	Manufacturing of VCM
Sodium hypochlorite	Water treatment
PVC	Construction
Caustic soda	Industry in general
VCM	PVC manufacturing

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

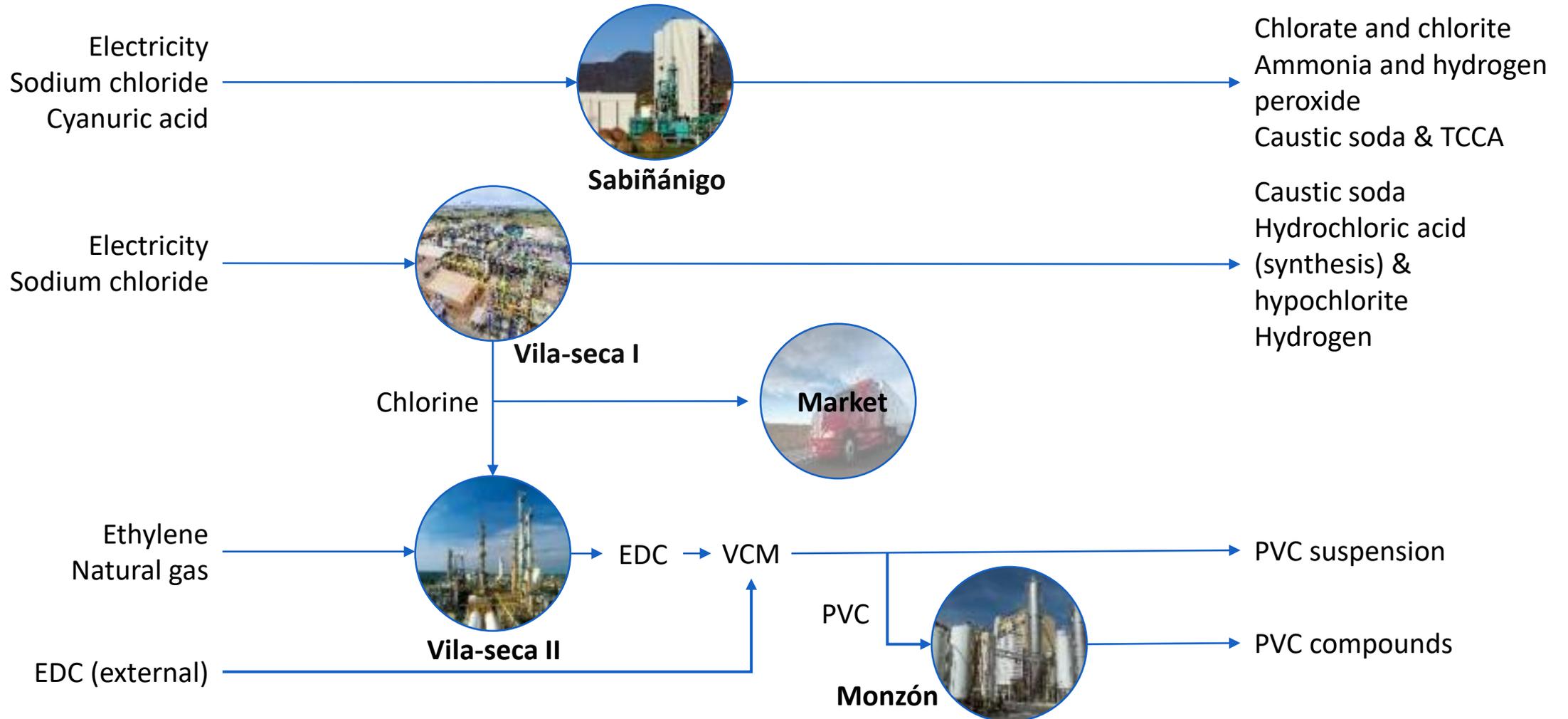
The data provided come from calculations made by Ercros.

# Division production process

## Raw materials / energies

## Process units

## Final products



# The 3D Plan at the TIC

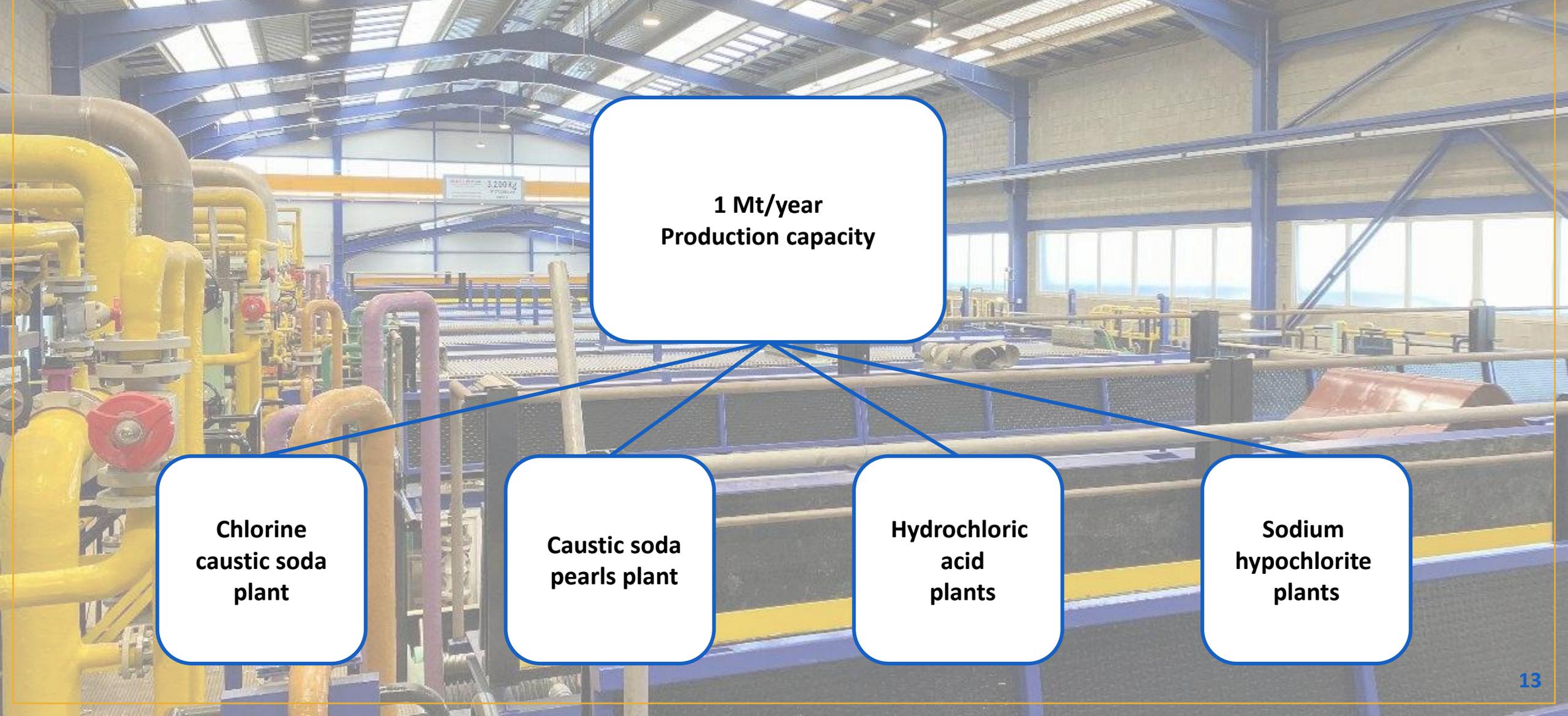
- The 3D Plan is the strategic plan promoted by Ercros to advance in its transformation towards a sustainable company.
- This plan is structured around three axes: diversification, digitalisation and decarbonisation (the fight against climate change).
- Key actions in the TIC:
  - Use of surplus hydrogen as an alternative thermal source to natural gas.
  - New biomass steam unit, neutral in CO<sub>2</sub> emissions.
  - Implementation of the REC system: condensation energy recovery to reduce emissions.
  - Use of waste heat in the production of hydrochloric acid.
  - Implementation of Big Data, Internet of Things (IoT) and process automation.



# Vila-seca I factory



# Production and facilities



**1 Mt/year  
Production capacity**

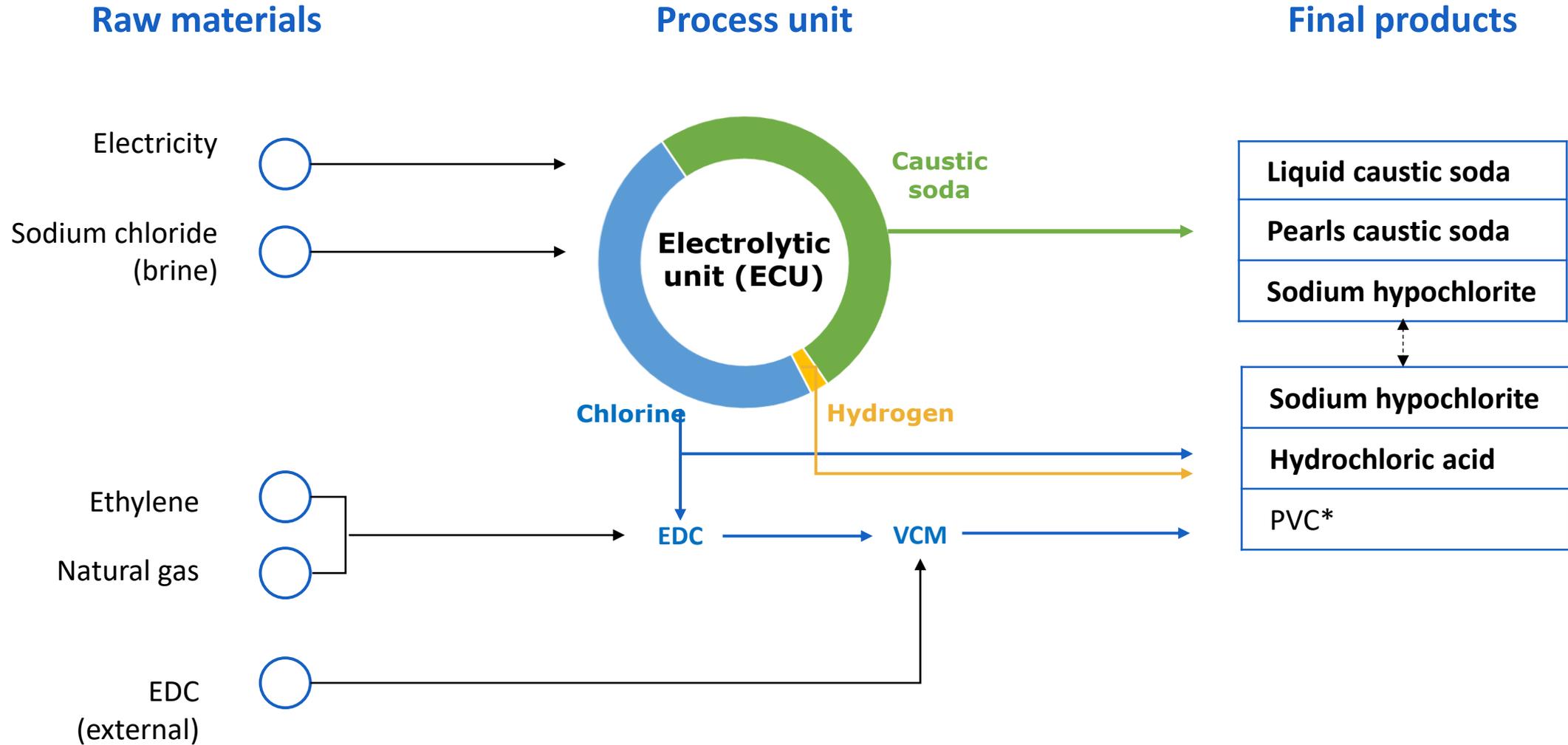
**Chlorine  
caustic soda  
plant**

**Caustic soda  
pearls plant**

**Hydrochloric  
acid  
plants**

**Sodium  
hypochlorite  
plants**

# Production process



\* Product made in Vila-seca II.

# Chlorine (Cl<sub>2</sub>)

Chlorine is the most common chemical element in the daily activity of human beings, essential for health and quality of life.

## Applications

- PVC manufacturing.
- Manufacture of hydrochloric acid and sodium hypochlorite.
- Water purification.
- Disinfection of swimming pool water.

## Markets

- Self-consumption to manufacture chlorinated derivatives and PVC.



# Caustic soda (NaOH)

Caustic soda is a basic product for the chemical, aluminum, textile, paper and cellulose industries.



## Applications

- Aluminum manufacturing.
- Manufacture of cellulose.
- Manufacture of detergents.

## Markets

- 30% is consumed in the factory itself.
- The rest is sold, mainly, in Spain.

# Sodium hypochlorite and hydrochloric acid

## Sodium hypochlorite



### Applications

- Water purification.
- Disinfection (bleach).
- Bleaching of paper pulp and textile fibers.

### Markets

- Spain
- France

## Hydrochloric acid (HCl)

### Applications

- Industry in general.
- Pharmacy.
- Cleaning (salfumán).
- Agrochemistry and food.



### Markets

- Spain

# Hydrogen (H<sub>2</sub>)

Hydrogen is the most abundant chemical element on earth and a fuel with multiple applications.



## Applications

- Production of ammonia and methanol.
- Hydrogenation of fats and oils.
- Car battery as a source of clean energy.

Ercros is part of the Green Hydrogen Platform Southern Catalonia, an entity whose objective is to tackle the climate emergency and make the region a leader in energy transition.

# Vila-seca II factory



# Production and facilities

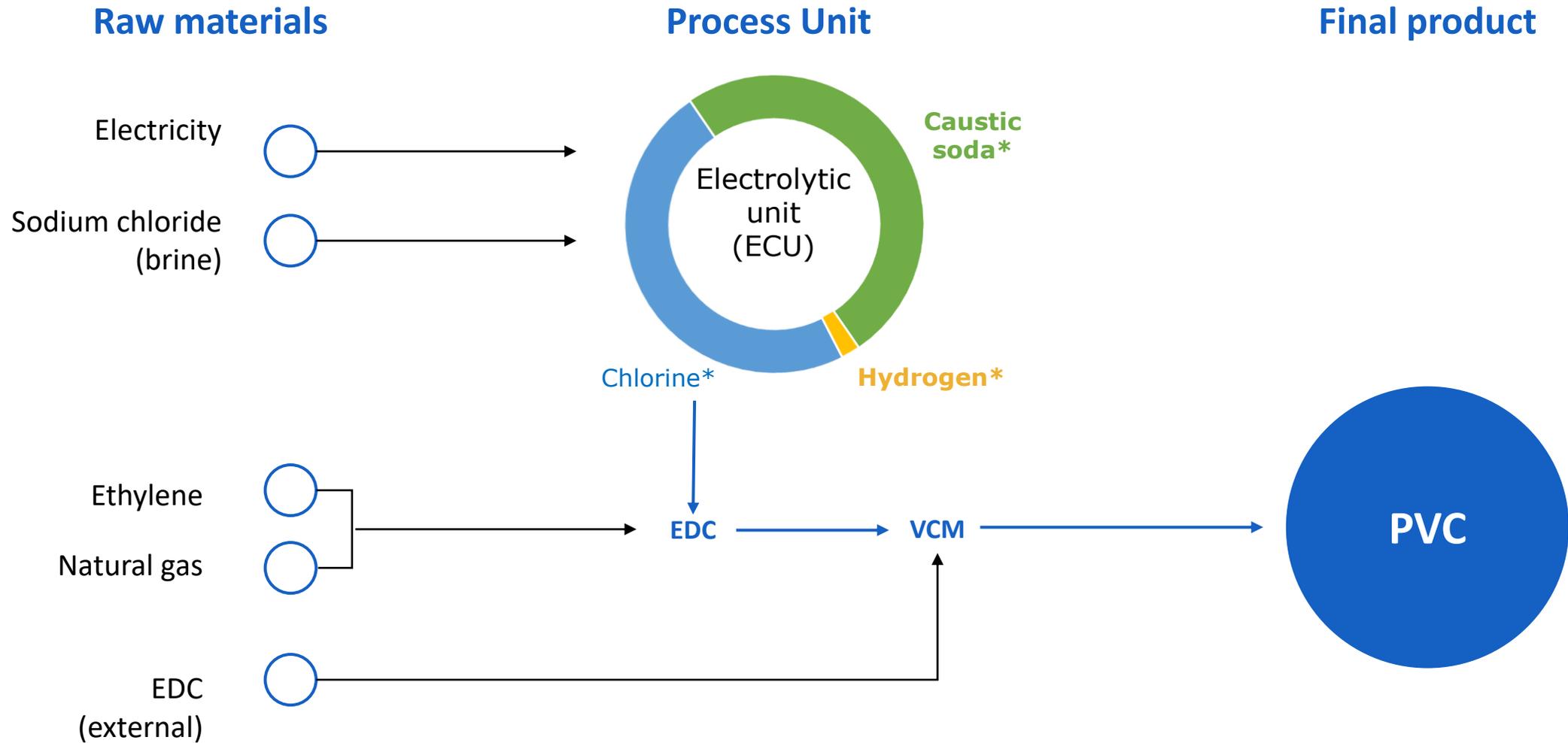
**749,000 t/year**  
Production capacity

**EDC Plant**

**VCM Plant**

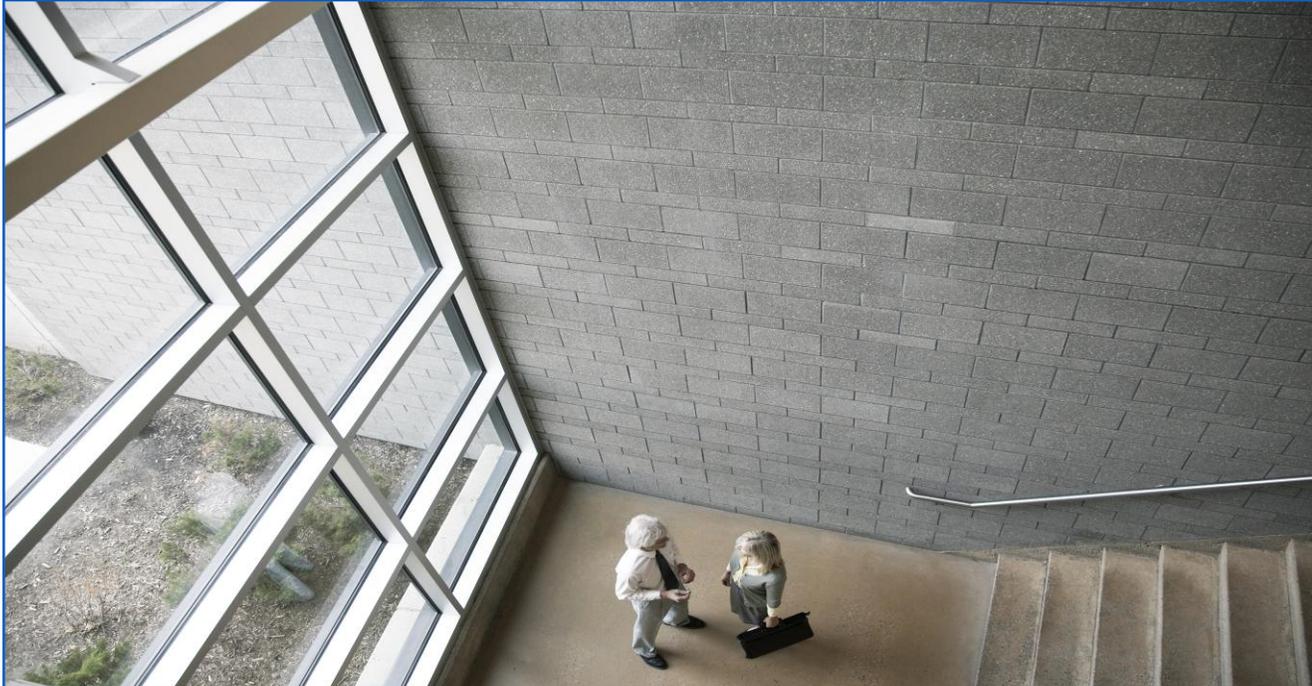
**PVC plants**  
**(4 reactors)**

# Production process



\* Products manufactured in Vila-seca I.

# PVC ((C<sub>2</sub>H<sub>3</sub>Cl)<sub>n</sub>)



## Applications

- Pipes
- Profiles for doors and windows
- Cables
- PVC films
- Vinyl flooring
- Isolates
- PVC Compounds

## Markets

- A small part is destined for the Monzón factory to manufacture compounds.
- The rest is destined for the Spanish market and is exported, mainly, to EU countries.

# Tarragona factory



# Activity

<p style="text-align: center;"><b>Characteristics</b></p> <ul style="list-style-type: none"> <li>■ The Tarragona factory provides services to third parties.</li> </ul>		<p style="text-align: center;"><b>Auxiliary services</b></p> <ul style="list-style-type: none"> <li>■ Steam</li> <li>■ Air</li> <li>■ Cooling and demineralized water.</li> <li>■ Wastewater treatment.</li> </ul>	
	<p style="text-align: center;"><b>General services</b></p> <ul style="list-style-type: none"> <li>■ Logistics</li> <li>■ Expeditions</li> <li>■ Prevention</li> <li>■ Gatehouse</li> <li>■ Vigilance</li> </ul>		<p style="text-align: center;"><b>Customers</b></p> <ul style="list-style-type: none"> <li>■ Andrés Pintaluba</li> <li>■ Sekisiu</li> <li>■ TDE</li> </ul>



# ESG performance

Environmental, Social and  
Governance

# Environmental certifications

- **ISO 14001:** Reference standard for the environmental management system.
- **ISO 14064:** Standard for the verification of CO<sub>2</sub> emissions.
- **ISO 50001:** Reference standard for the energy management system.
- **EMAS:** European Register of Environmental Management System.
- **ISCC PLUS:** Endorses the appropriateness of the use of renewable energy in the production of chlorine derivatives.
- **ECVM Charter:** Recognizes sustainable practices in the production of PVC and VCM.
- **VinylPlus Supplier:** A benchmark in transparency in the sustainable production of PVC.
- **OCS:** Certifies the control of accidental losses of microplastics.
- **Ipes:** Recognizes companies in the Spanish plastics sector that work towards sustainability.



# Voluntary environmental programs

- **Green Hydrogen Platform Southern Catalonia:** An interest group led by the Rovira i Virgili University, whose purpose is the implementation of green hydrogen.
- **RE4Industry:** EU project on 100% renewable energies for electro-intensive industries.
- **Climate Action of the Generalitat de Catalunya:** Commitment to achieve CO<sub>2</sub> emissions neutrality by 2050.
- **Carbon Disclosure Project (CDP):** An organization aimed at assessing the behavior of affiliated companies in regard to the climate emergency. In 2024, Ercros obtained a grade of B (Management) on a scale of A to E.



# Safety, quality, production and distribution

- **ISO 45001:** Standard that accredits health and safety management.
- **Sigos:** Standard that accredits the application of a healthy organization management system (Sigos).
- **ISO 9001:** Standard that certifies quality, implemented in all factories.
- **AEO:** Certificate from the State Tax Administration Agency as an authorized economic operator.



# Social responsibility

- **CSR Company:** Certification of CSR, as a company of the Responsible Care program.
- **EcoVadis:** CSR rating agency. Ercros has obtained 87/100 points and is in the Platinum category and in the top 1% of companies.
- **Responsible care:** A worldwide program of good practices promoted by the chemical sector. Ercros has obtained 85/100 points in the self-assessment questionnaire.
- **Global Compact:** Program promoted by the UN that contains 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.



# Governance

- **IBGC:** Certificate of compliance with the good corporate governance index.
- **UNE 19601:** Accreditation of the criminal compliance management system.
- **ISO 27001:** A standard that certifies the data protection system generated by Ercros and those of its stakeholders.



# 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:

- **SDG 3:** Good health and well-being.
- **SDG 6:** Clean water and sanitation.
- **SDG 7:** Affordable and clean energy.
- **SDG 8:** Decent work and economic growth.
- **SDG 9:** Industry, innovation and infrastructure.
- **SDG 12:** Responsible consumption and production.
- **SDG 13:** Climate action.



# Partnerships and participations



Rack Dixquímics

Ercekol

**For more information**

Ercros, S.A.

Tarragona industrial complex

Autovía Tarragona-Salou

C-31 B, Km 6

43480 Vila-seca (Tarragona)

Tel.: (+34) 977 370 354

[complejotarragona@ercros.es](mailto:complejotarragona@ercros.es)

[www.ercros.es](http://www.ercros.es)