



Egile

DRIVEN BY
PRECISION



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We are an industrial and technological group which provides **specialized services and products in the field of high precision mechanics**, committed to the creation of high-value solutions in sectors such as aerospace and metal packaging.

The first one accounts for 70% of sales.

EGILE MECHANICS is one of Spain's leading manufacturers of high-technology aeronautical components. Strategic supplier.

KEY COMPANY FIGURES

-  **272** employees
-  **592** domestic suppliers
-  Manufacture **100% in Spain**
-  Commitment to **innovation**
13% investment in R&D
-  **33,4€** Millions of revenue
-  **>50%** sales are exported

BUSINESS LINES

EAT

Aero Transmissions



Development of **transmission and gear systems** in the field of turbines, turboprop or turbofans engines and for helicopter applications.



EAS

Aero Systems



Development of **precision and accountability components**, intended for high criticality systems in different aircraft systems such as landing gear or complex actuation systems.



EAE

Aero Engines



Development of different products that make up the **hot parts or aircraft engines** such as NGVs, TBH, blades.



ECT

Can Tooling



Solutions for metal packaging. Design, manufacture and assembly of all types of **dies** and **supply of complete systems** for any format of **EOE easy-open lids**, even developing **turnkey projects**.



EEP

Extreme Precision



Design, development and manufacture of highly complex mechanical systems for large scientific facilities and for any sector requiring extremely precise mechanics.

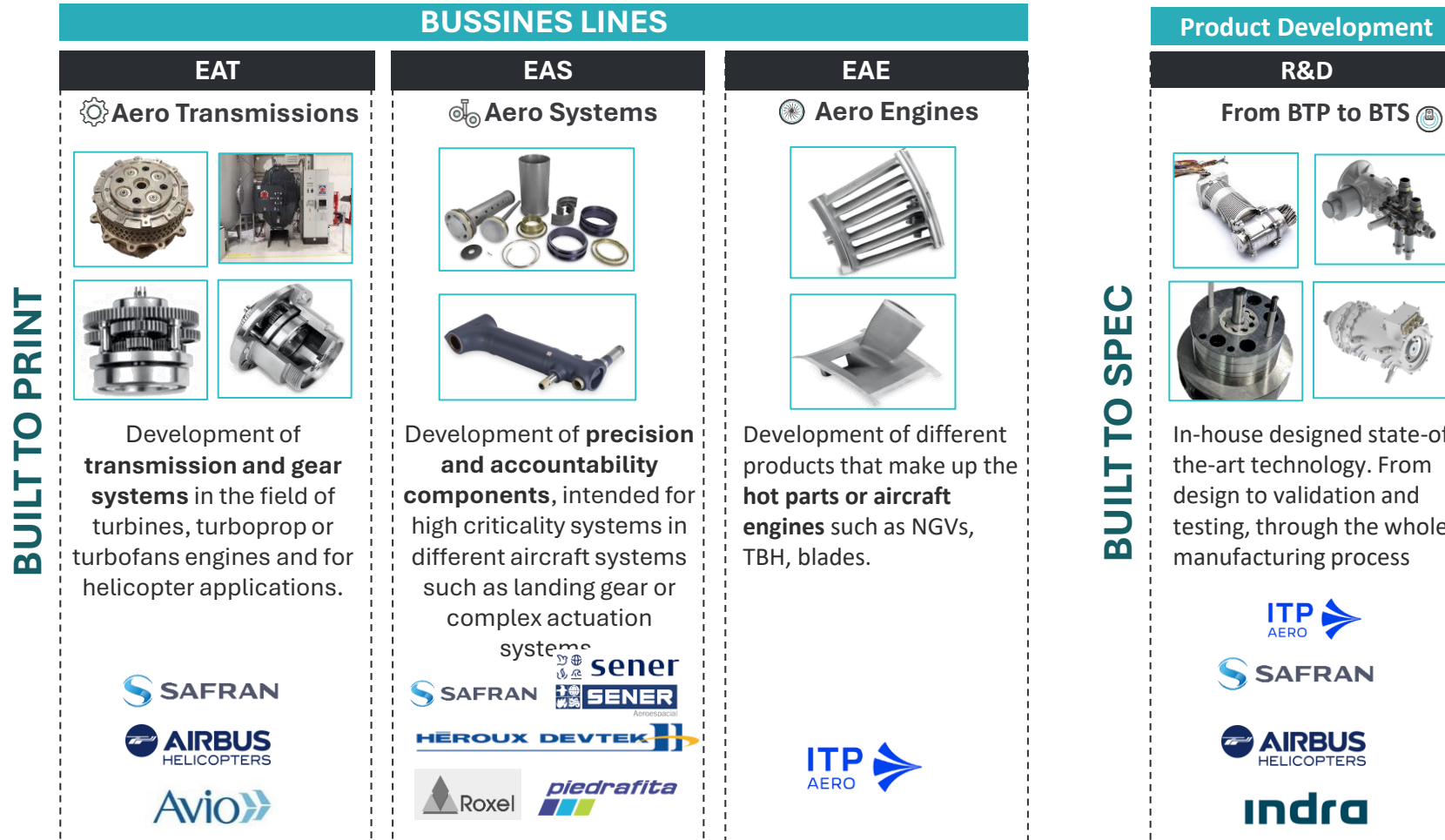


AERO BUSSINES MODELS








We follow two business models for the services/products we offer to the aerospace sector:

BUILT TO PRINT: we manufacture according to the specifications, drawings and detailed documentation provided by our client.

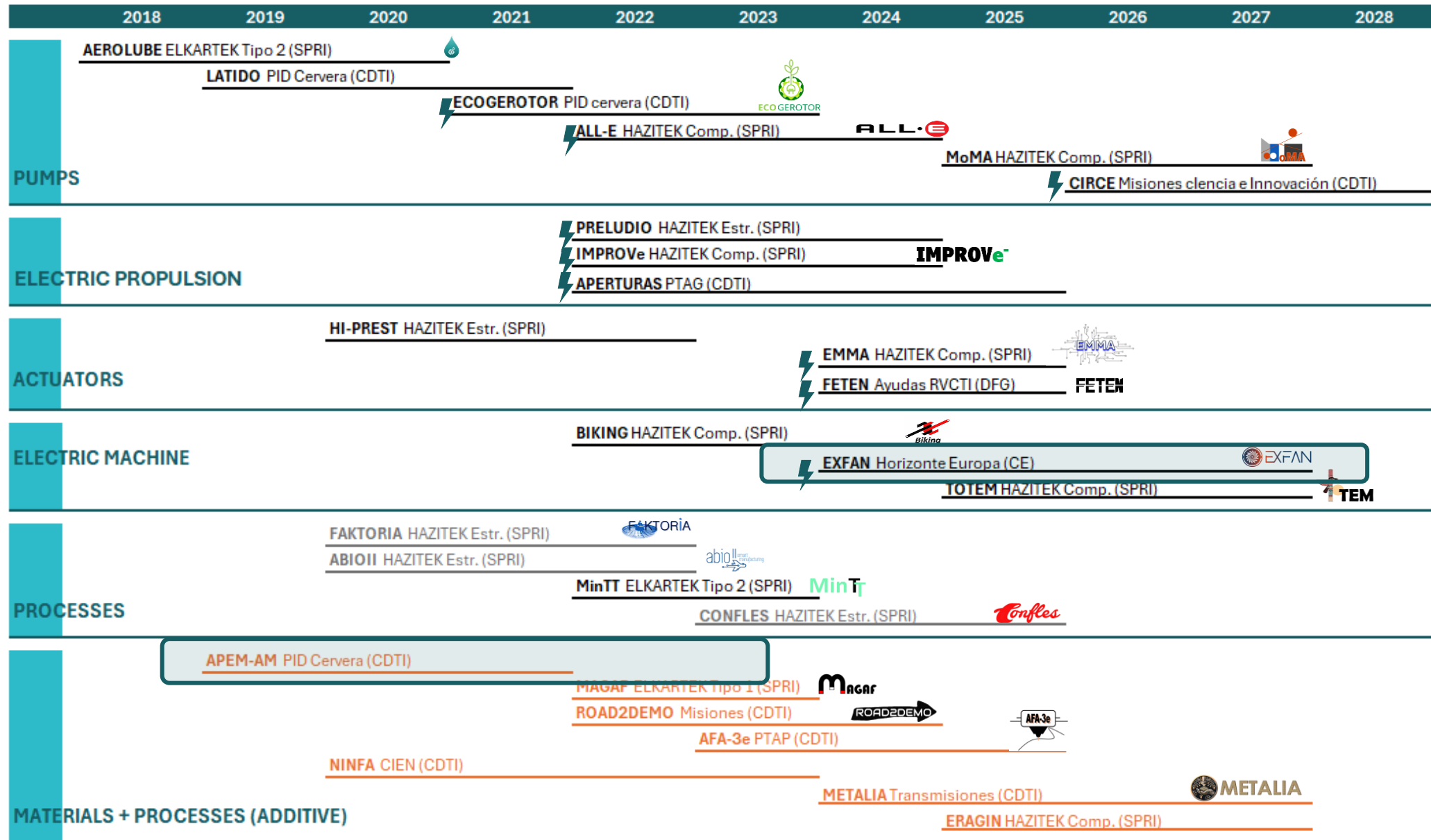
BUILT TO SPEC: Our services include design, engineering, technical documentation, and the manufacturing of prototypes/demonstrators to meet the exact functionalities specified by our clients.



We are focused on the development of specialized **technologies applied to transmission, hydraulic, and electromechanical actuator systems**. We are also actively developing of **metal Additive Manufacturing (AM)**, leveraging its results to manufacture certain complex-geometrics components in order to improve system performance.

		PRODUCT & PROCESS TECHNOLOGY applied to...			
		Transmissions 	Oil & Fuel Pumps 	Electric Machine & Control 	Additive Manufacturing 
... both integrated into different kind of SYSTEMS	Transmissions 				
	Hydraulic Systems 				
	Electro Mechanical Actuator (EMA) 				

PUBLIC FUNDING PROJECTS





Novel recuperation system to maximize **Exergy From Anergy** for fuel cell powered geared electric aircraft propulsion system

Horizon-CL5-2023-D5-01-08 – Accelerating climate-neutral hydrogen powered/electrified aviation

<https://exfan-project.eu/>

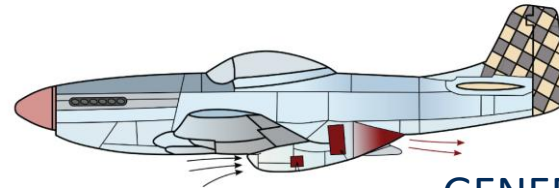
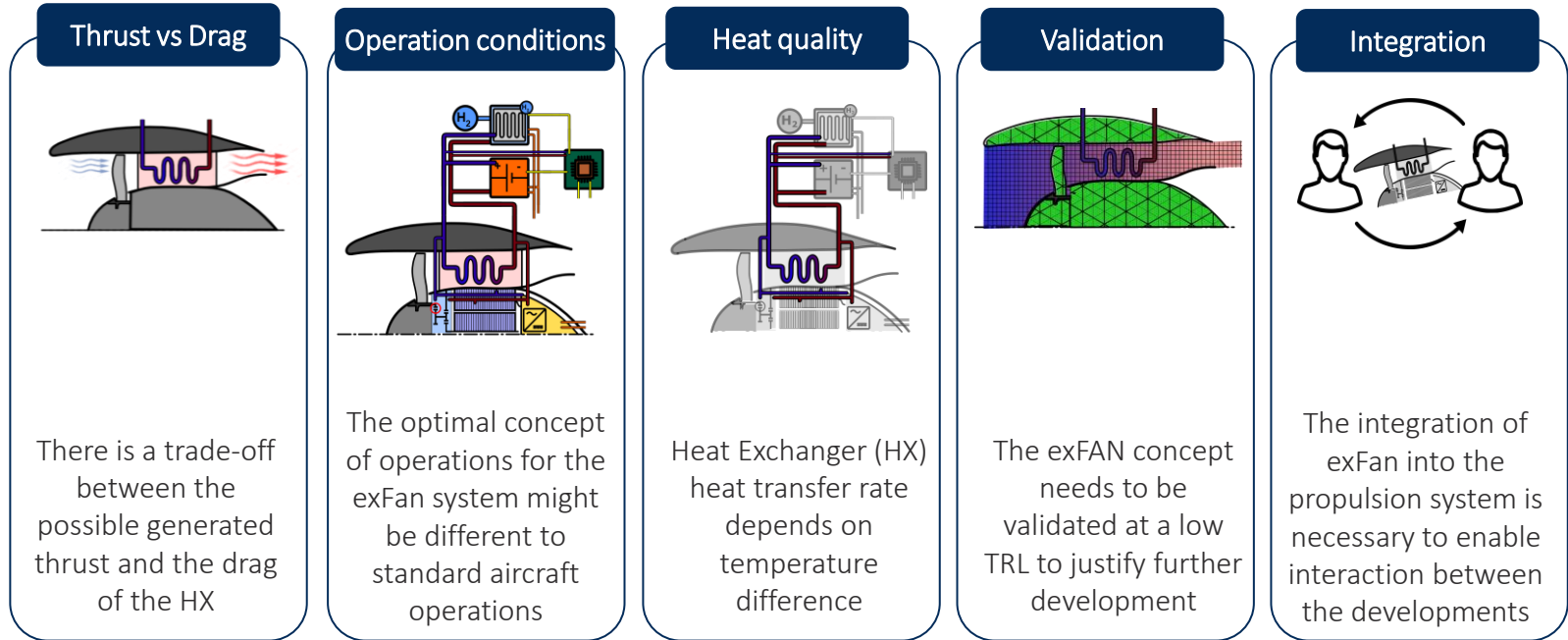


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the European Union

Objectives & Challenges



- Heat Dissipation**
Design a revolutionary heat exchanger integrated into a geared electric fan.
- Recuperation Technology**
Develop an advanced recuperation device, harnessing cutting-edge technology to efficiently convert waste heat into additional thrust.
- Thermal Management System**
Lay out a sophisticated thermal management system to elevate heat quality
- System Simulations**
Implement comprehensive system simulations providing invaluable insights into the complexity of the novel propulsion system.
- Impact**
Reduce global warming potential.
- Information Exchange**
Facilitate knowledge transfer by sharing results with Clean Aviation and Clean Hydrogen JUs



EXFAN WILL DEVELOP A NOVEL THRUST GENERATING AND HEAT DISSIPATION SYSTEM FOR A GEARED ELECTRIC FAN OF MEGA-WATT CLASS POWERED BY FUEL CELL

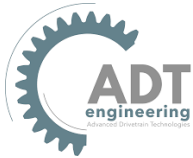
Consortium



Project Coordinator



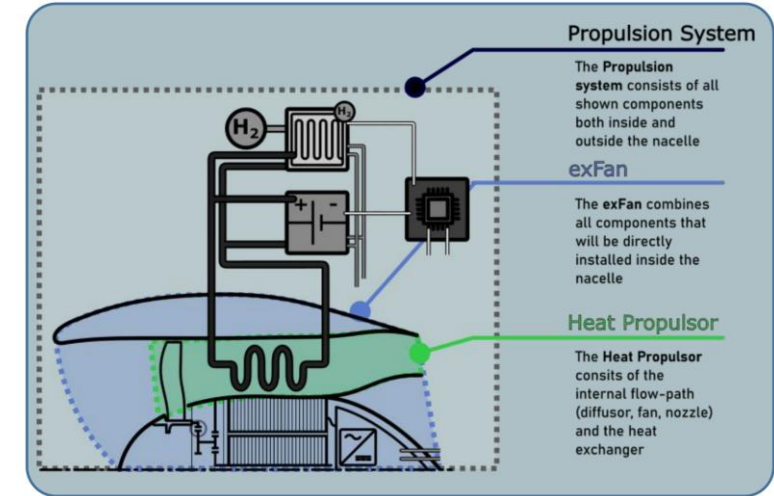
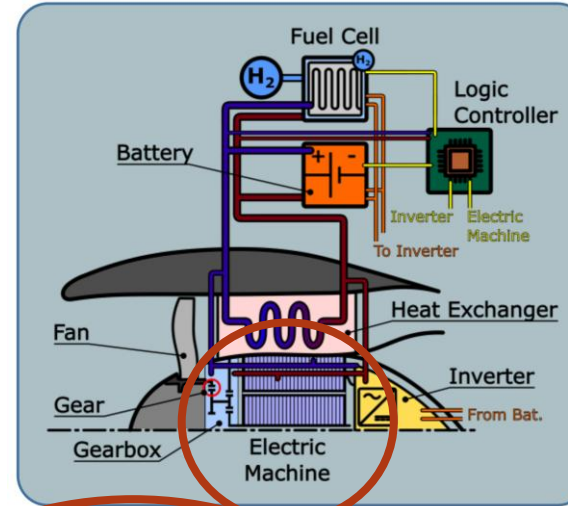
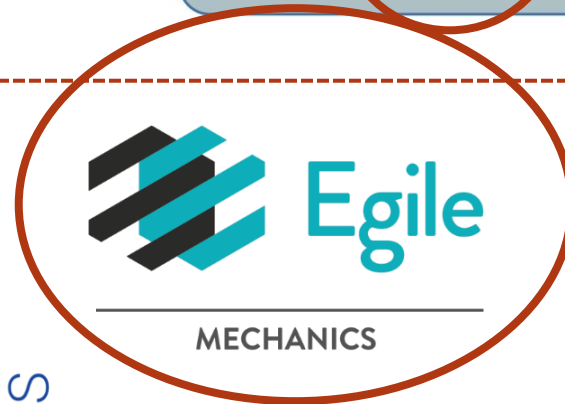
Technical Coordinator



Research Coordinator



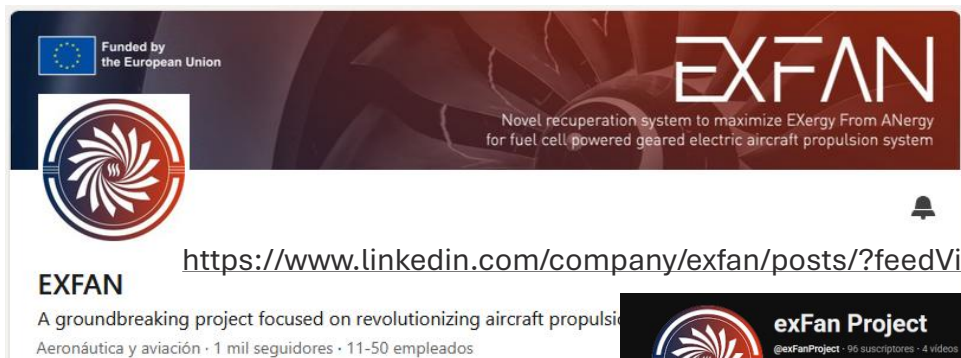
Project Partners



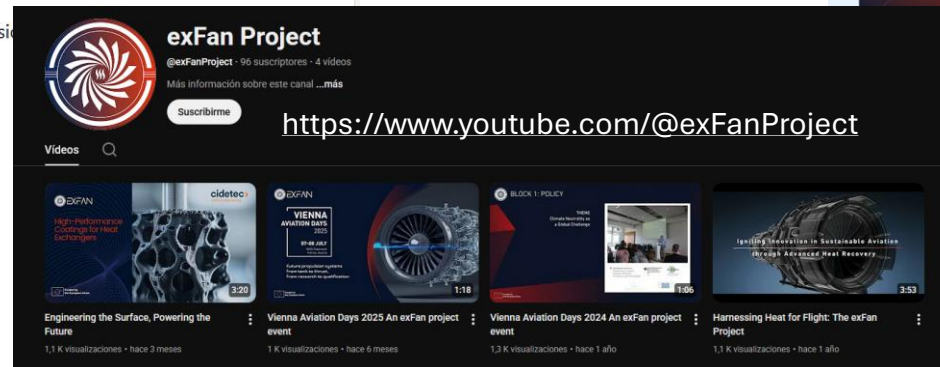
WP updates
every two weeks



Communication Activities



<https://www.linkedin.com/company/exfan/posts/?feedView=all>





EXFAN



Tamara Carballo

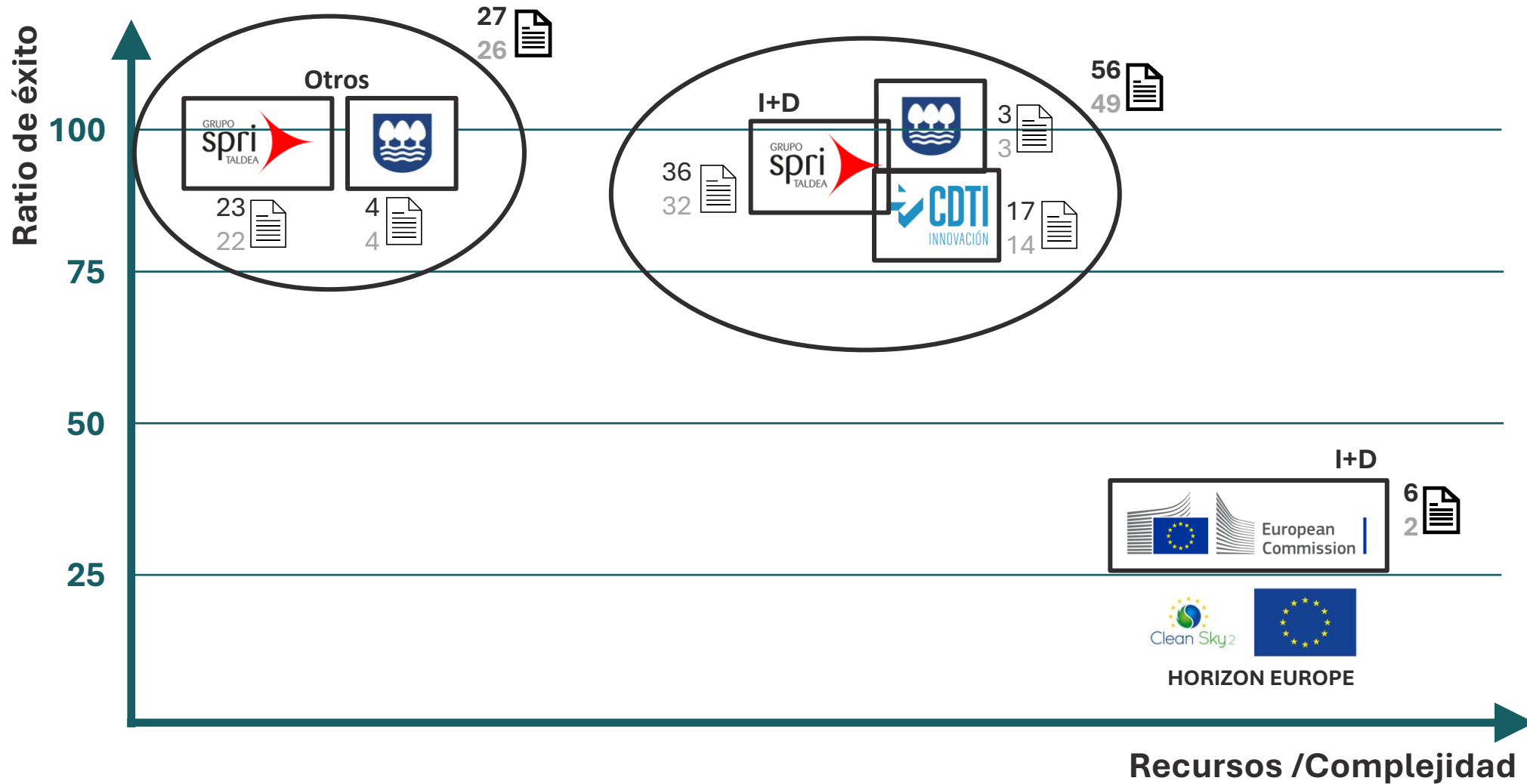


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¿POR QUÉ EUROPA?

- **Financiación de actividad I+D**
- **Aprendizaje** de la colaboración
- **Prestigio y reconocimiento.** Visibilidad del potencial de EGILE desarrollador de tecnología disruptiva
- **Oportunidad de negocio.** Estrecha colaboración con potenciales clientes en sectores estratégicos
 - **Adquirir conocimiento experto** en programas europeos de aeronáutica y defensa
 - Identificación de eventos estratégicos donde debemos estar presentes para optimizar recursos internos
 - Identificación de Partners con capacidad de tracción
 - Entrada en grandes proyectos tractores que acaben en producto final

Estrategia EUROPA



OBJETIVOS ESTRATÉGICOS

Innovación



Comercial

I+D

Desarrollo de producto



Egile

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