



# Bilbao PortLab 2023





# Bilbao Port

Bilbao PortLab  
Innovation Hub

## Activity

- Connected to **+900** ports throughout the world
- **405** ha port surface area
- **57** ha dry port surface area
- **23,875** m<sup>3</sup> of temperature-controlled storage
- **540** reefer plugs
- Border Control Post: Operational **24 / 7**
- **31.2** million tonnes
- **538,918** TEUs (**32,470** TEUs reefer)
- ~ **2,700** vessels
- ~ **4,800** trains (~ **95** weekly services)
- ~ **1,000,000** trucks

2021 figures & data

*Main Facts & Figures*  
**1<sup>st</sup> port of the Northern Spain**

Bilbao  
PORT **B**

## Constant Evolution

Since 1991 we have been investing to provide the port new land and new berths.

Years	1991	2022
Surface	150 ha	405 ha
Berthing line	13 km	21 km
Drafts in the comercial area	up to 14 m	up to 21 m

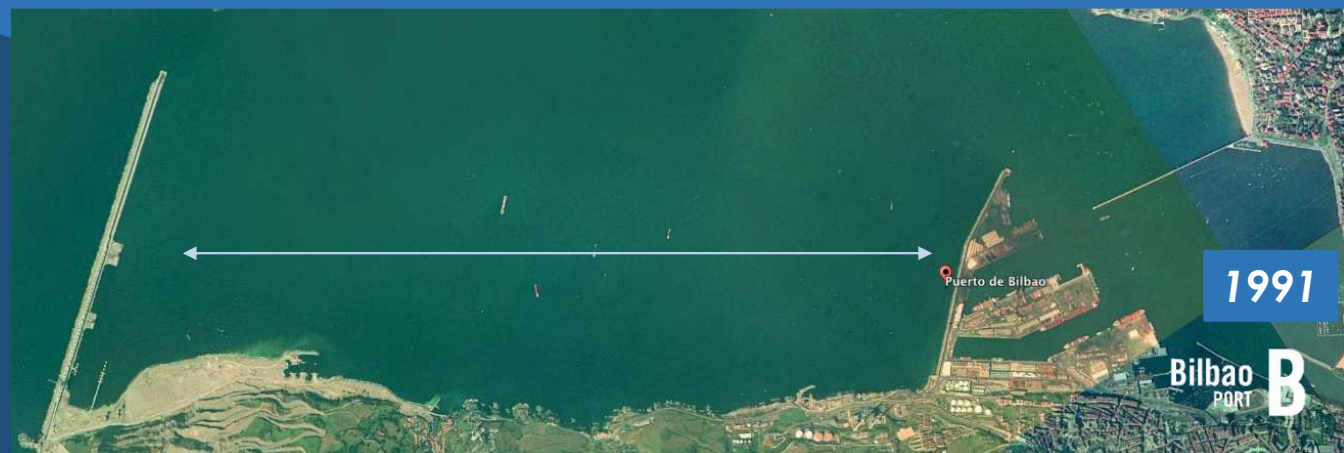
Environmental care in all port areas & Quality port services



2022

Public Investment:  
**1,000 mill. €**

Private Investment:  
**2,500 mill. €**



1991

Bilbao PORT **B**



Containers

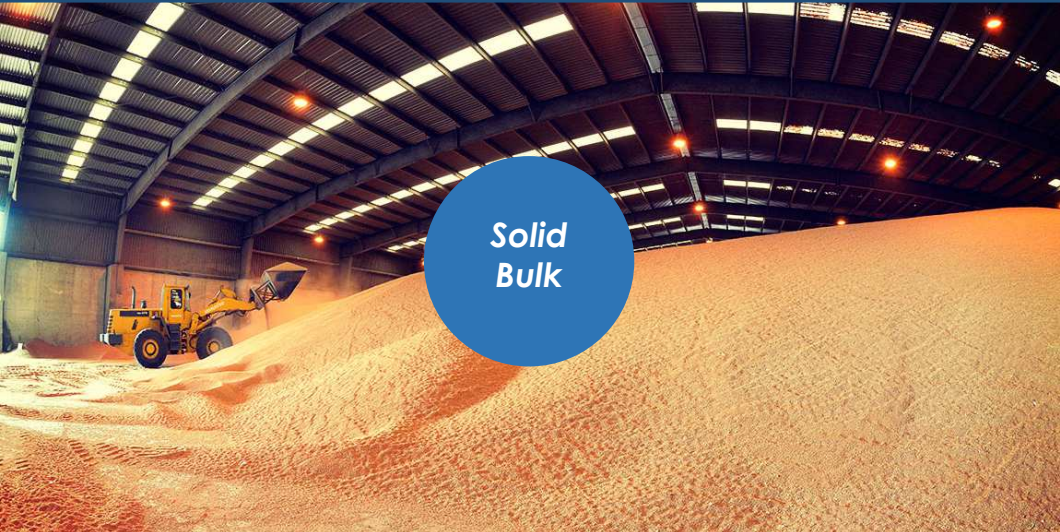


Break-bulk



Ro-Ro Terminals

A multipurpose port  
**Commercial Terminals**



Solid Bulk



Liquid Bulk



# CRUISES TERMINAL



# BilbOPS OPS INFRASTRUCTURE 2030

## ALTERNATIVE FUELS SERVICES

- LNG (On service 1S-2022)
- OPS Infraestructure (2025)
- H<sub>2</sub> & e-Fuel Plant

## OPS (ONSHORE POWER SUPPLY)

- **Phase 1 (CEF Transport)**  
A1, A2, A6, AZ3, GETXO 1-2, GETXO 3
- |...| **Phase 2 (RRF)**  
A5

## GREEN ENERGY CO-GENERATION HUB

- Photovoltaic Solar Power (2025)
- Wind Power (Since 2006)
- Wave Power
- **Phase 3 (Future Quay)**  
A3, A4
- **Phase 4 (OPS Floating Power Platforms)**  
Mobile Cold-Ironing



## Services

### Bilbao Port

Investment  
(Phase 1 y 2)



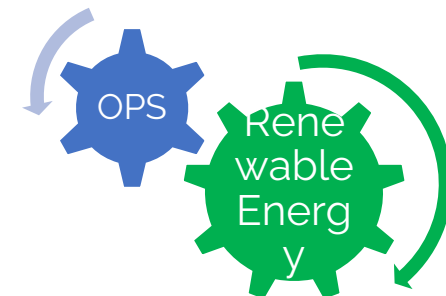
Quays



In Service by



Power



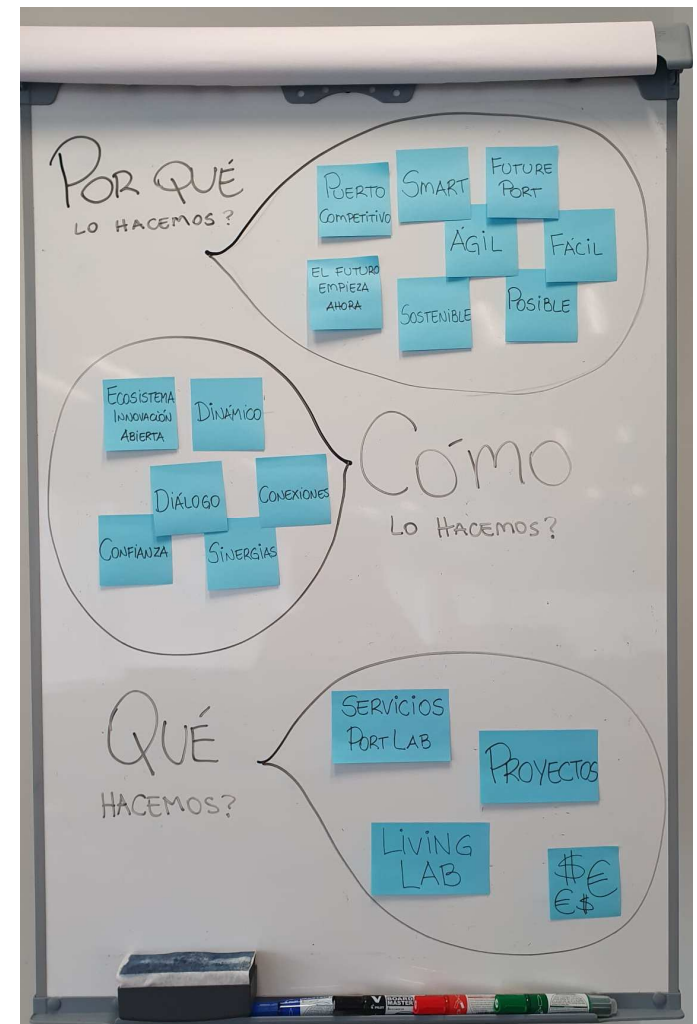
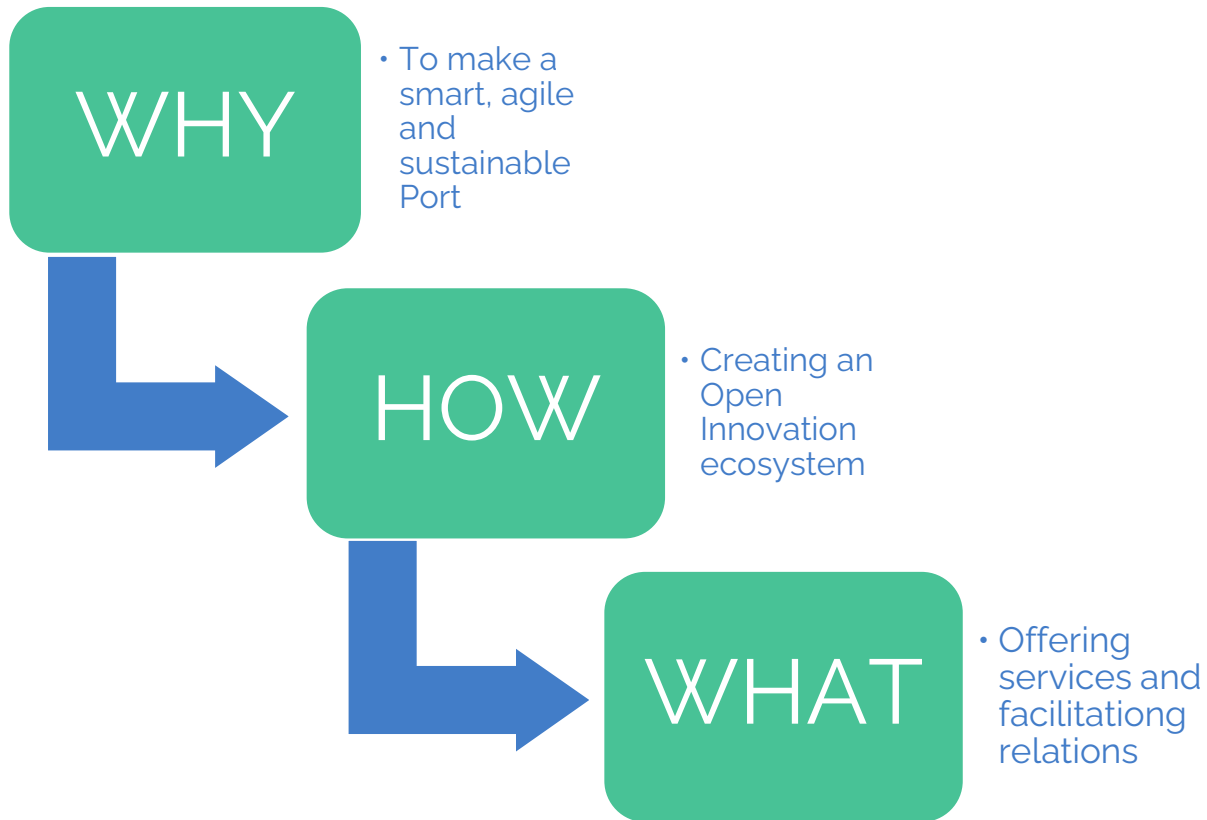


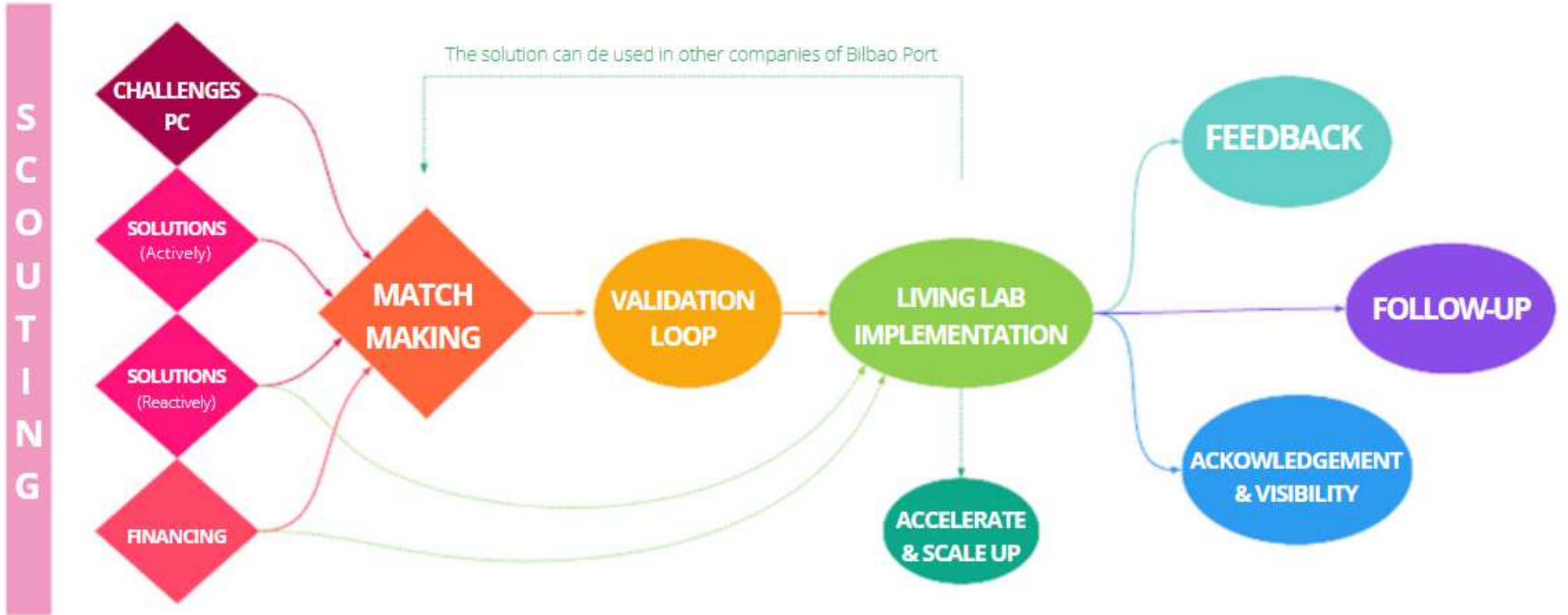
# Bilbao PortLab

collaborative  
innovation



# ... Bilbao PortLab





FACILITATION, MENTORIZATION

# BILBAO PORTLAB

Facilitation of innovation.



**1- PREPARE THE LAND AND PLANT**



**2- WATER**



**3- COLLECT**

SCOUTING



Technologic surveillance and trends of the sector.

AWARENESS AND TRAINING



Conferences, Workshops, Training

INNOVATIVE SOLUTIONS



Identification of innovative solutions applicable to the sector

CHALLENGES



Identification of challenges of the port community

FUNDING



Identification of compatible funding opportunities

MATCH MAKING



Match between challenge and innovative solution. Facilitation of the agreement and follow-up.

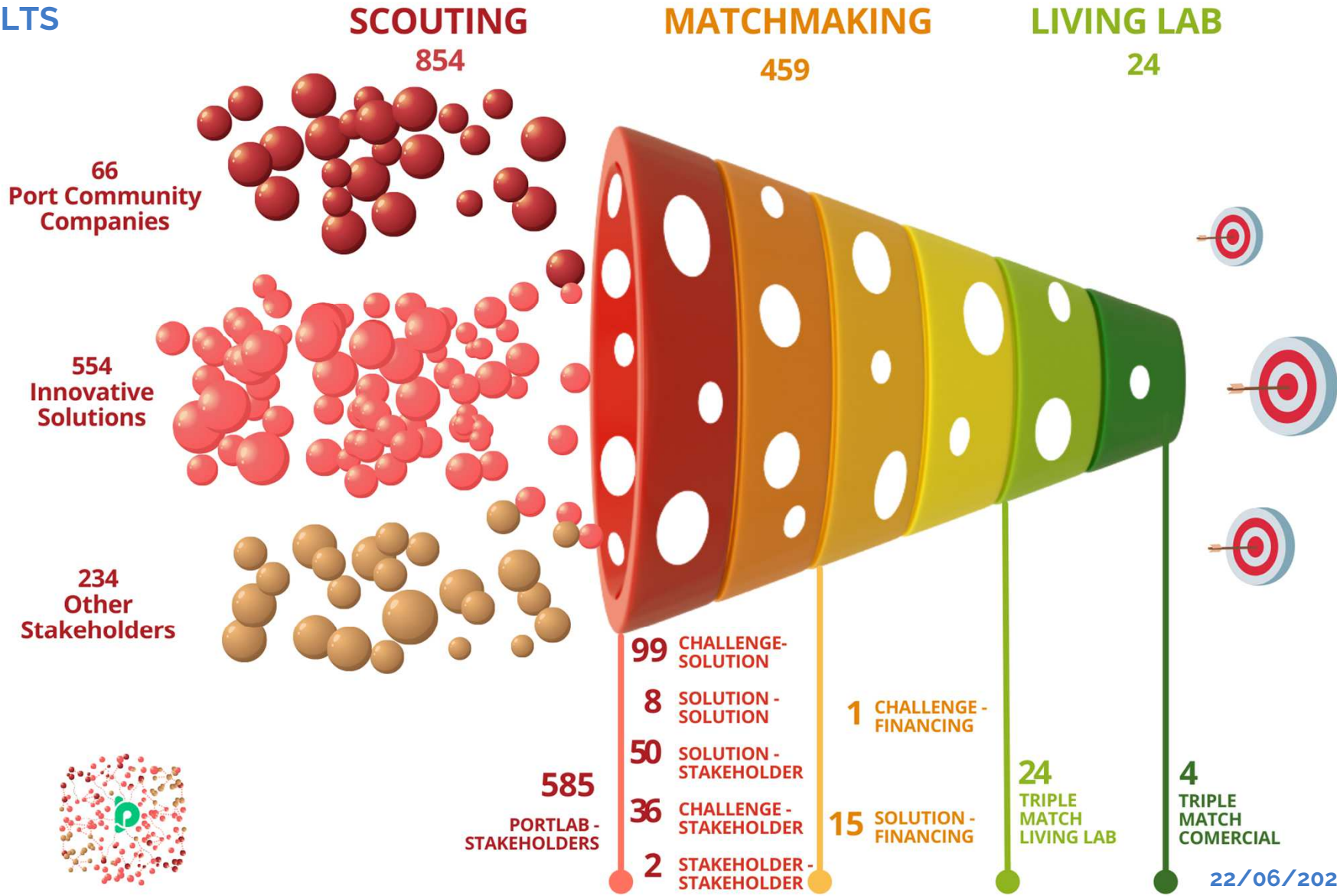
IMPLEMENTATION



Living Lab, Follow-up, Support of the ecosystem in the development of innovation



2022 RESULTS



# Living Lab



nuavis  
TECHNOLOGY

serikat >>

ROSEO

Codecontract

ceii  
MEMBER OF  
BASQUE RESEARCH  
& TECHNOLOGY ALLIANCE

ZeniaLabs  
Automation Intelligence

PURPLE  
BLOB.

allread

tecnal:a  
MEMBER OF BASQUE RESEARCH  
& TECHNOLOGY ALLIANCE

MADERA

NUUK

QUANTUM  
MASS

SUPRA

FISIFY

BAY OF  
BISCAY  
AQUATICS

ODEI.io

Becea  
Simetría

Bilbao  
PORT

TEPSA  
RUBIS  
TERMINAL

shellock

AAC  
AAC CENTRO DE ACÚSTICA APLICADA  
Ingeniería + Laboratorio

TB GRUPO  
TOROYBETOLAZA

PROGECO

D&A  
Innovative Systems

CSP Spain  
The Ports for ALL

ERHARDT  
Projects

Cooperación de Prácticos  
del Puerto y  
Ría de Bilbao

Circular

AUTOPILOT

BETTER WAYS CMA CGM

Brittany Ferries

IZURUN  
TECHNOLOGY

barbara

RKL  
integral

ACTI ON  
TRACKER

keynetic

# MARINE ENERGY IN BILBAO PORT



SAITEC - DEMOSATH

BOUND4BLUE



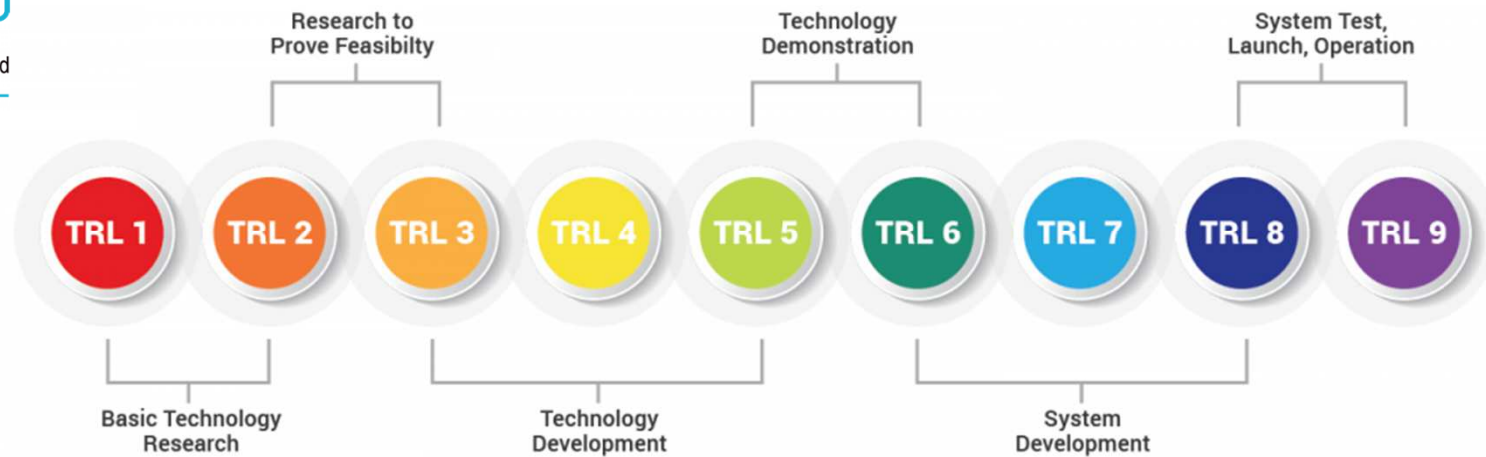
ROSEO EÓLICA



## ... Potential projects



# Technology Readiness Level (TRL)



## IDEA

TRL 1: Basic idea  
TRL 2:  
Formulated  
concept  
or technology

## PRE-COMERCIAL

TRL 3: Experimental proof of concept  
TRL 4: Component level validation in laboratory  
TRL 5: Component level validation in a relevant environment  
TRL 6: System or subsystem demonstration in a relevant environment

## COMERCIAL

TRL 7: Prototype demonstration in a real environment  
TRL 8: Complete validation and certification in a real environment  
TRL 9: Successful proofs in a real environment







**We want to get to know you better to explore collaborating opportunities. Shall we talk?**

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**Find us in Bilbao Port!**



