

# Foldable Shipping Containers for Sustainable Blue Growth

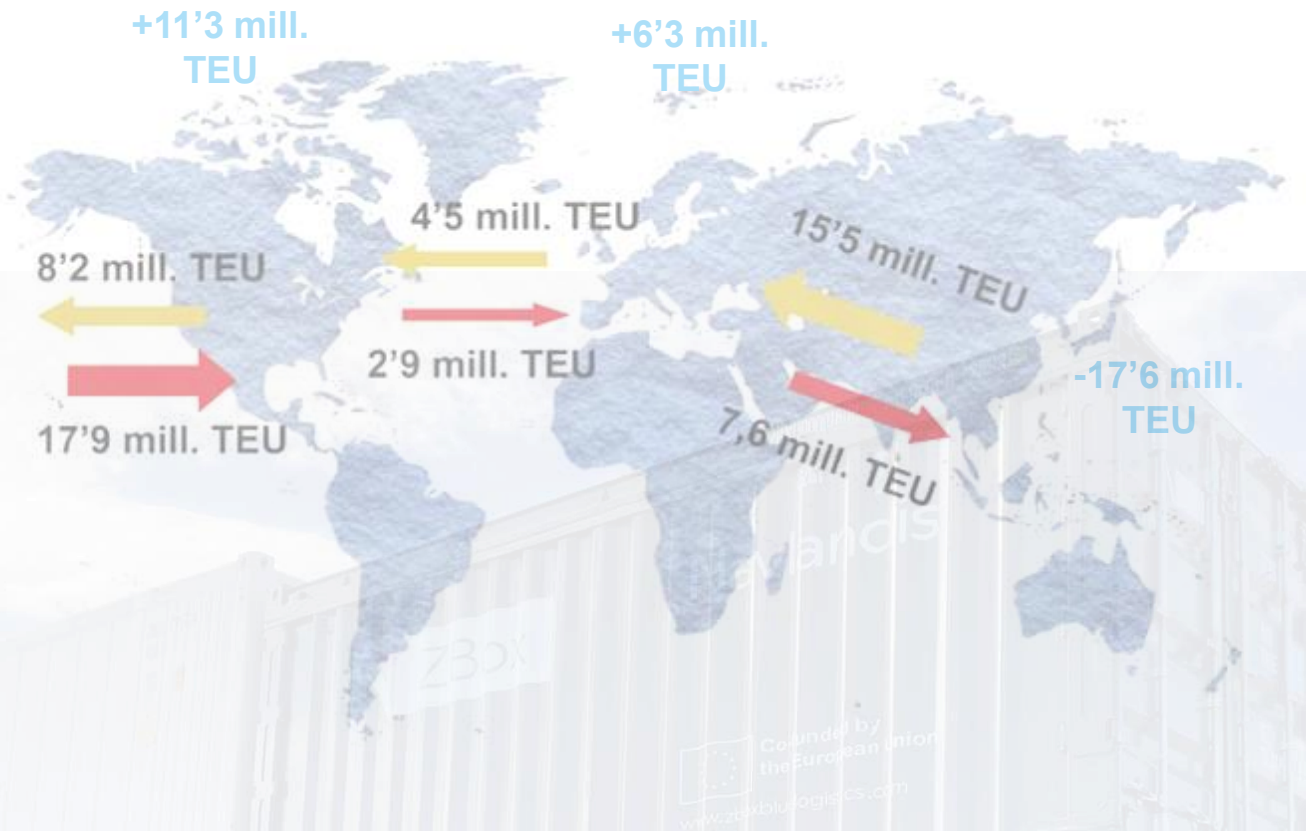
#ZboxBlueLogistics



## CONTEXT

Worldwide trade imbalances cause logistics inefficiency:

- i) 40 million containers to be transported empty in ships, which is 25% of the total traffic
- ii) 50% of the lifetime of a container is spent at a depot



Imbalances of main trade routes in 2017 (UNCTAD)

TEU = 20' container Equivalent Unit

## MISSION

Zbox Blue Logistics project aims to **demonstrate Zbox benefits across a wide validation plan**, covering both:

- i) On-route performance to quantify savings, and
- ii) PAYS (Pay-As-You-Save) business model to be showcased.

## Zbox

Zbox is a new generation of foldable freight container, ISO and CSC certified, developed by Navlandis.



[↑ Click to see it folding and unfolding](#)

## DURATION

From 1st October 2020 until 31st March 2023. Total: 30 months

## EC CONTRIBUTION

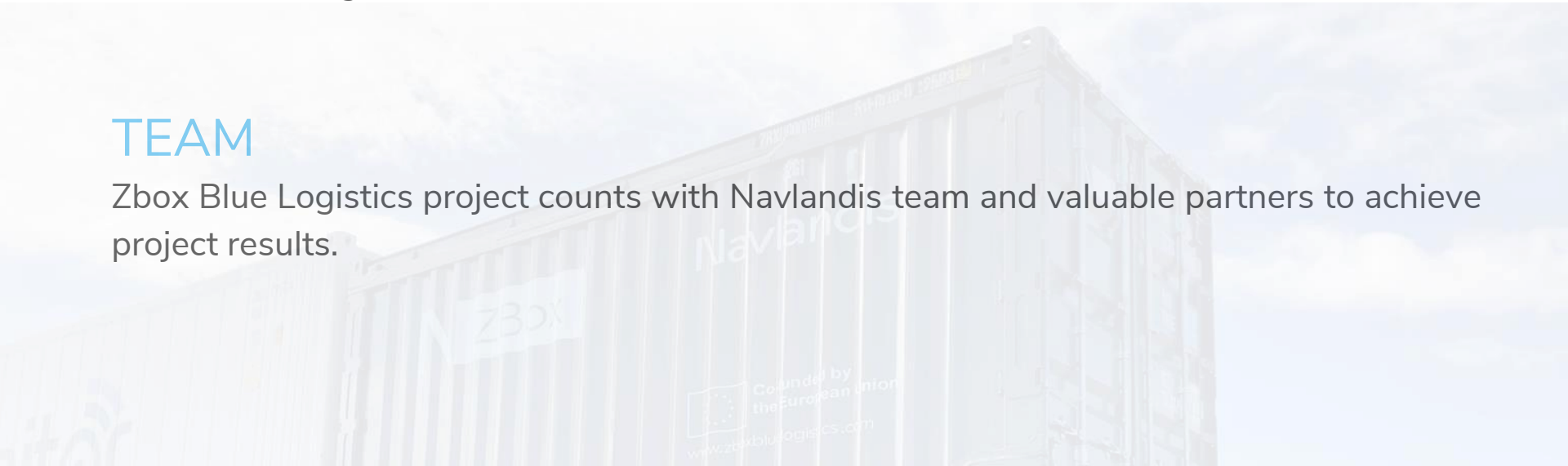
Total budget: 3.082.242,00€

EC contribution: 2.157.569,40€ (70% of total budget)

Under Grant Agreement no. 958961

## TEAM

Zbox Blue Logistics project counts with Navlandis team and valuable partners to achieve project results.



## WORK PACKAGES

Zbox Blue Logistics tasks have been organized into 5 work packages, distributed in time as shown in the table:

	2020			2021									2022									2023														
	Oct.	Nov.	Dec.	Jan.	Febr.	Mar.	Apr.	May.	Jun.	Jul.	Ag.	Sept.	Oct.	Nov.	Dec.	Jan.	Febr.	Mar.	Apr.	May.	Jun.	Jul.	Ag.	Sept.	Oct.	Nov.	Dec.	Jan.	Febr.	Mar.						
<b>ZboxBlueLogistics</b>	Y1-Q1			Y1-Q2			Y1-Q3			Y1-Q4			Y2-Q1			Y2-Q2			Y2-Q3			Y2-Q4			Y3-Q1			Y3-Q2								
WORK PLAN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30						
<b>WP1. Project Management</b>	MS1																																			
T1.1. Legal, financial and administration	D1.1						D1.2																													
T1.2. Risk Management																														D1.3						
<b>WP2. Technical/Operational Validation</b>	MS2												MS4			MS3																				
T2.1. Zbox manufacturing x15 units	D2.1																																			
T2.2. Operational validation													D2.2																							
T2.3. Upgrade to Zbox v4																			D2.3																	
T2.4. Zbox v4 ISO certification																			D2.4			D2.5														
T2.5. Logistic tools integration																			MS5									MS6								
<b>WP3. Logistic Validation</b>																			D3.1			D3.2						D3.3								
T3.1. Zbox v4 manufacturing x75 units																			D3.4			D3.5														
T3.2. Validation partners optimisation																			D3.4			D3.5														
T3.3. Logistic validation																			D3.4			D3.5														
T3.4. PAYS model analysis																			D3.4			D3.5														
<b>WP4. Technology Transfer</b>																														MS7						
T4.1. Zbox 40'																														D4.1						
T4.2. Zbox swap body																														D4.2						
																														D4.3						
<b>WP5. Dissemination &amp; Communication</b>	D5.1			D5.2						D5.3						D5.4						D5.5														
T5.1. General Dissemination	D5.1			D5.2						D5.3						D5.4						D5.5														
T5.2. Fairs and Events	D5.1			D5.2						D5.3						D5.4						D5.5														
T5.3. Face to Face Visits	D5.1			D5.2						D5.3						D5.4						D5.5														
T5.4. Communication channels	D5.1			D5.2						D5.3						D5.4						D5.5														

## ECONOMIC IMPACT

Direct savings  
by the ratio 1:5

> €2.500

per container  
and year

80% Maritime transport

80% Hinterland transport cost (road or railway)

80% Terminal Handling Operations cost

80% Storage cost

Potential fuel savings in transport and handling

Increasing  
Business

By getting profit from slots available for full containers

By increasing the container turnover, increase the revenues per container in its lifespan

Avoiding  
investment

By optimizing the repositioning transport, decrease the need of purchasing new containers in demand areas

## ENVIRONMENTAL IMPACT

Direct savings

by the ratio 1:5

>4t CO<sub>2</sub> per  
container and year

80% CO<sub>2</sub> emissions from maritime transport

67% CO<sub>2</sub> emissions from road transport

61% CO<sub>2</sub> emissions from railway transport.

Reduction of 20% of aggregate CO<sub>2</sub> emissions

Potential fuel  
savings

By reducing berthing time of vessel in ports

By reducing the wind resistance if the empties go below  
the deck of the vessels

Reduction of traffic congestion in port areas

Avoiding containers  
manufacturing

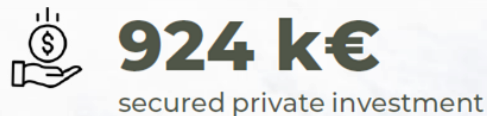
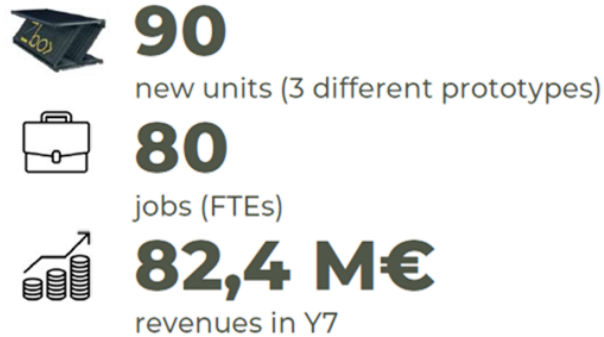
By optimizing the repositioning transport, decrease the need  
of manufacturing new containers in demand areas

Less Land Use

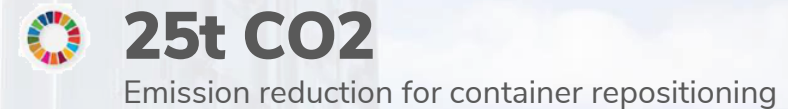
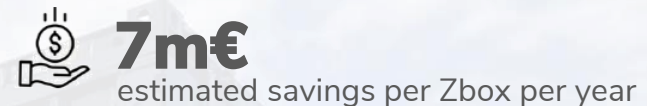
Less land use for storage in port areas

## IMPACT KPI's

Zbox Blue Logistics project key performance indicators of impact are:



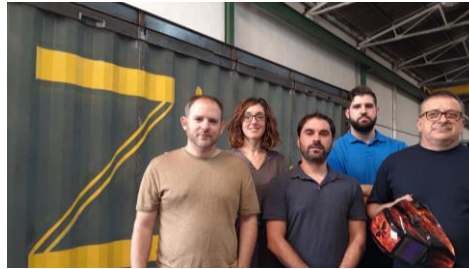
During the first half of the project, results achieved are:





## WE HAVE THE TEAM TO MAKE IT HAPPEN

### Founder Team



Miguel CEO. Founder MSc Civil Eng. MBA <b>MANAGEMENT</b>	Gloria Advisor. Founder MSc Civil Eng. MBA <b>STRATEGY</b>	Andrés CTO Mechanical Eng. <b>DESIGN</b>	Vicent CPO. Founder Industrial Eng. <b>PRODUCTION</b>	Toni LAB Foreman Welding Officer <b>PRODUCTION</b>
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### Staff

Camila CMO Industrial Eng. <b>MARKETING</b>	Roberto CCO Export Expert <b>COMMERCIAL</b>	Josep LAB Welding Operator <b>PRODUCTION</b>	Marcel LAB Welding Operator <b>PRODUCTION</b>	Héctor LAB Welding Operator <b>PRODUCTION</b>
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Production Facilities + Subcontractors & Suppliers

### External Team

P. Guillén <b>Legal</b>	J. Ruíz <b>Media</b>
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### Board of Directors

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### Advisory Board

CFO <b>Forwarder</b>	IP Expert <b>Patents</b>
PM <b>Digital</b>	CTO <b>Surveyor</b>
Ex. CPO <b>Shipping</b>	CEO <b>Investment</b>

# Navlandis



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Maritime and Fisheries Fund

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