

Foldable Shipping Containers for Sustainable **Blue** Growth

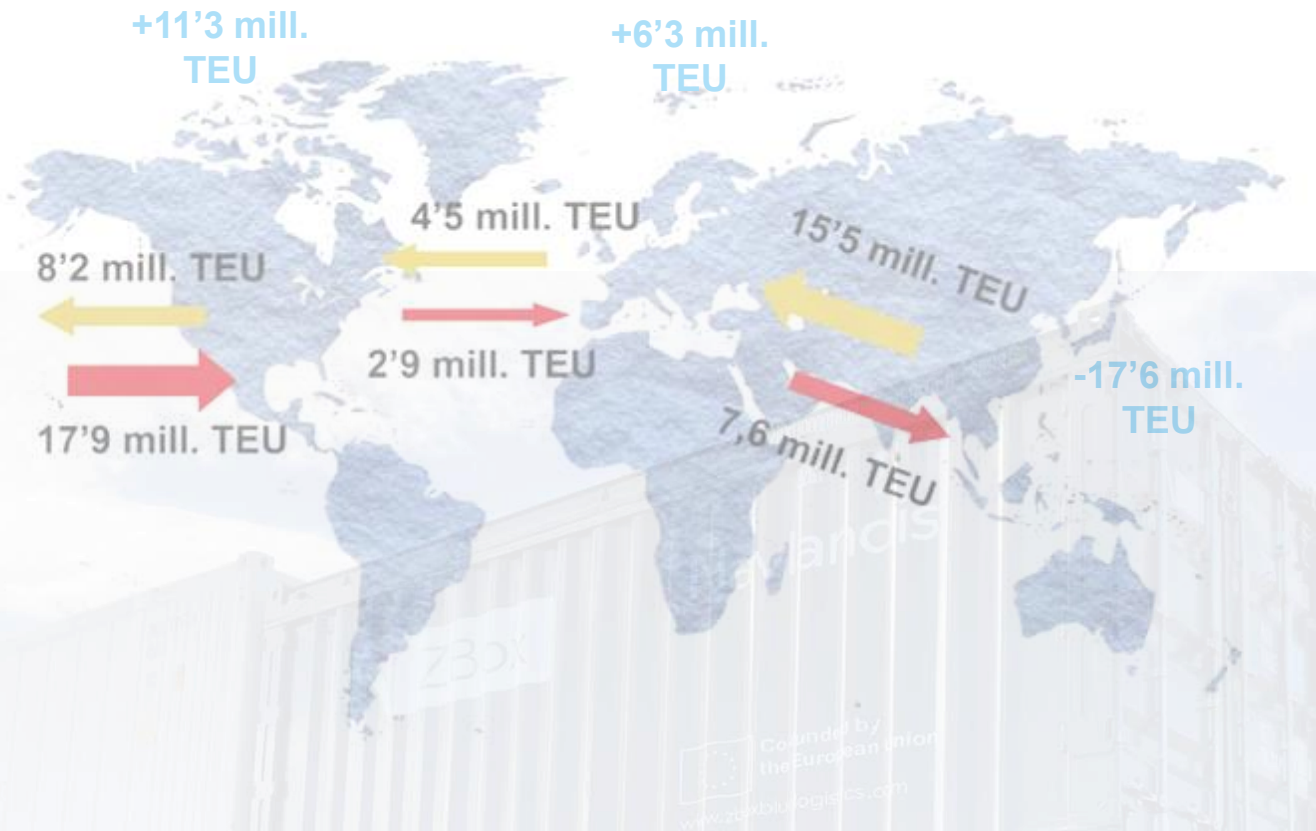
#ZboxBlueLogistics



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

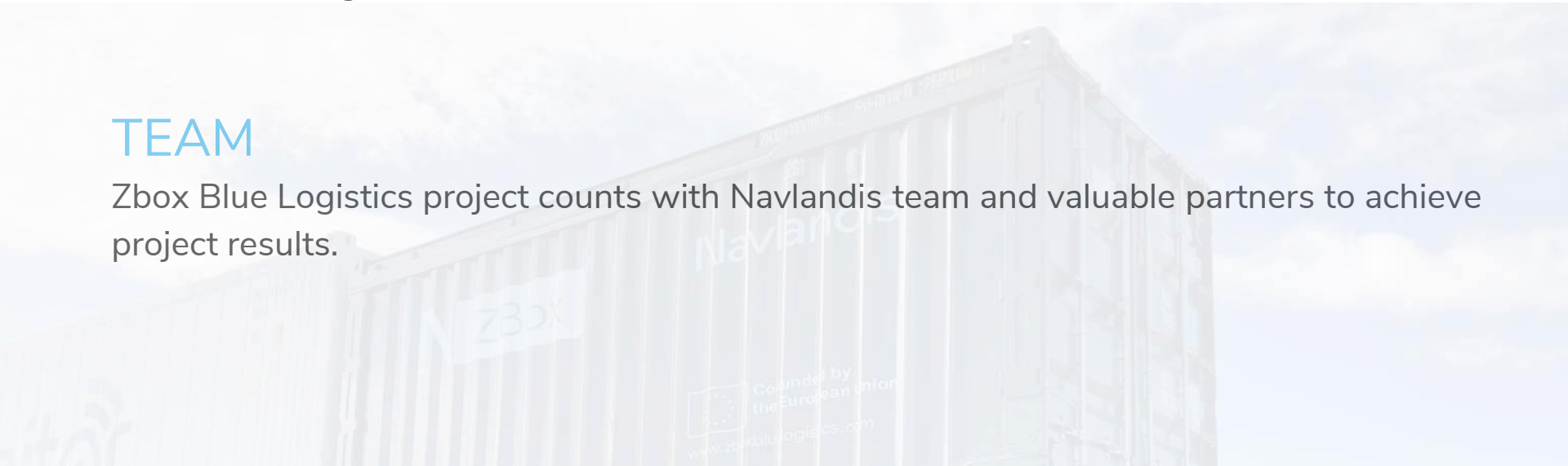
Total budget: 3.082.242,00€

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.									
ZboxBlueLogistics	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									
WP1. Project Management	MS1																																						
T1.1. Legal, financial and administration	D1.1						D1.2																																
T1.2. Risk Management																												D1.3											
WP2. Technical/Operational Validation	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											
WP3. Logistic Validation																			D3.1			D3.2						D3.3			D3.4			D3.5					
T3.1. Zbox v4 manufacturing x75 units																			D3.1									D3.2			D3.3			D3.4			D3.5		
T3.2. Validation partners optimisation																			D3.2									D3.3			D3.4			D3.5					
T3.3. Logistic validation																			D3.2									D3.3			D3.4			D3.5					
T3.4. PAYS model analysis																			D3.2									D3.3			D3.4			D3.5					
WP4. Technology Transfer																												MS7											
T4.1. Zbox 40'																												D4.1											
T4.2. Zbox swap body																												D4.2											
																												D4.3											
WP5. Dissemination & Communication	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 CO₂ per
container and year

80% CO₂ emissions from maritime transport

67% CO₂ emissions from road transport

61% CO₂ emissions from railway transport.

Reduction of 20% of aggregate CO₂ 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

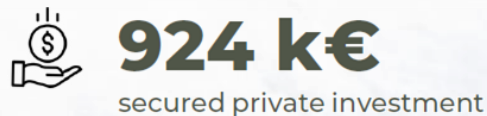
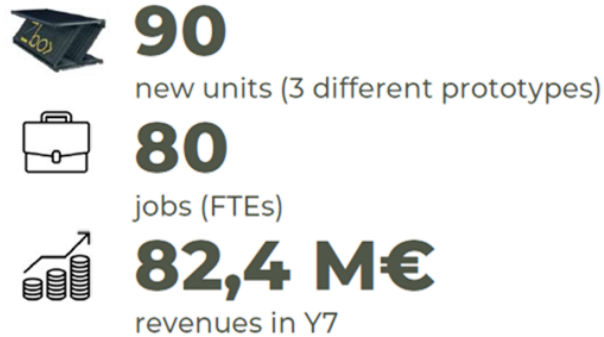
By optimizing the repositioning transport, decrease the need
of manufacturing new containers in demand areas

Less Land Use

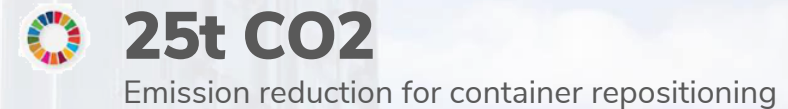
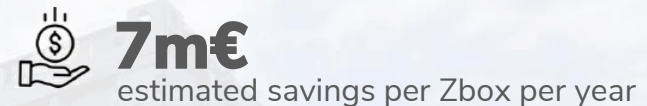
Less land use for storage in port areas

IMPACT KPI's

Zbox Blue Logistics project key performance indicators of impact are:

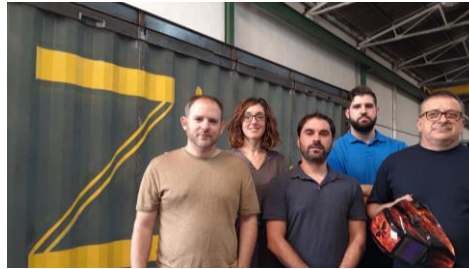


During the first half of the project, results achieved are:



WE HAVE THE TEAM TO MAKE IT HAPPEN

Founder Team



Miguel CEO. Founder MSc Civil Eng. MBA MANAGEMENT	Gloria Advisor. Founder MSc Civil Eng. MBA STRATEGY	Andrés CTO Mechanical Eng. DESIGN	Vicent CPO. Founder Industrial Eng. PRODUCTION	Toni LAB Foreman Welding Officer PRODUCTION
---	---	---	--	---

Staff

Camila CMO Industrial Eng. MARKETING	Roberto CCO Export Expert COMMERCIAL	Josep LAB Welding Operator PRODUCTION	Marcel LAB Welding Operator PRODUCTION	Héctor LAB Welding Operator PRODUCTION
--	--	---	--	--



Production Facilities + Subcontractors & Suppliers

External Team

P. Guillén Legal	J. Ruíz Media
----------------------------	-------------------------

+

Board of Directors

+

Advisory Board

CFO Forwarder	IP Expert Patents
PM Digital	CTO Surveyor
Ex. CPO Shipping	CEO Investment

Navlandis



Co-funded by the European
Maritime and Fisheries Fund

Contact details:

Roberto Fernandez

roberto.fernandez@navlandis.com

+34 661 48 47 00

zboxbluelogistics.com

