

CONFERENCE

AIVP Lisbon 2024

November 27, 28 & 29th



World Conference Cities & Ports by AIVP

Keynote Port Cities and UNOC 3



Fabrice LOHER
Minister for the sea and fisheries
French Government

World Conference Cities & Ports by AIVP

**Innovations in port
cities in the face of
climate change**

MODERATOR



Geraldine KNATZ
Co-Chair
Alta Sea



Isabel MOURA RAMOS
Executive Board Member
Port of Lisbon



Ruben EIRAS
Secretary General
Forum Oceano

Agenda

1. *The potential of Blue Economy*
2. *Key Port Opportunities and Challenges*
3. *Port of Lisbon Strategy 2030*
4. *Action Plan – Port of Lisbon and Forum Oceano*
5. *1st Pilot Project: WindCredible*
6. *Tagus Innov – Open Program for a Sustainable Port*
7. *Future Projects: Smart Docks and Smart Port Lx*



1. The Potential of Blue Economy

- **The Blue Economy** encompasses industries and societies which rely on oceans and waterways; blue economy innovation has a positive impact (either directly, indirectly, or enabling) on the ocean environment

OECD Definition of the Blue Economy

							
Seafood	Water-based Renewable Energy	Shipping	Port Activities	Shipbuilding and Repair	Water Passenger Transport & Related Services	Water-related Tourism	Blue Bioeconomy, Biotechnology & Research & Education

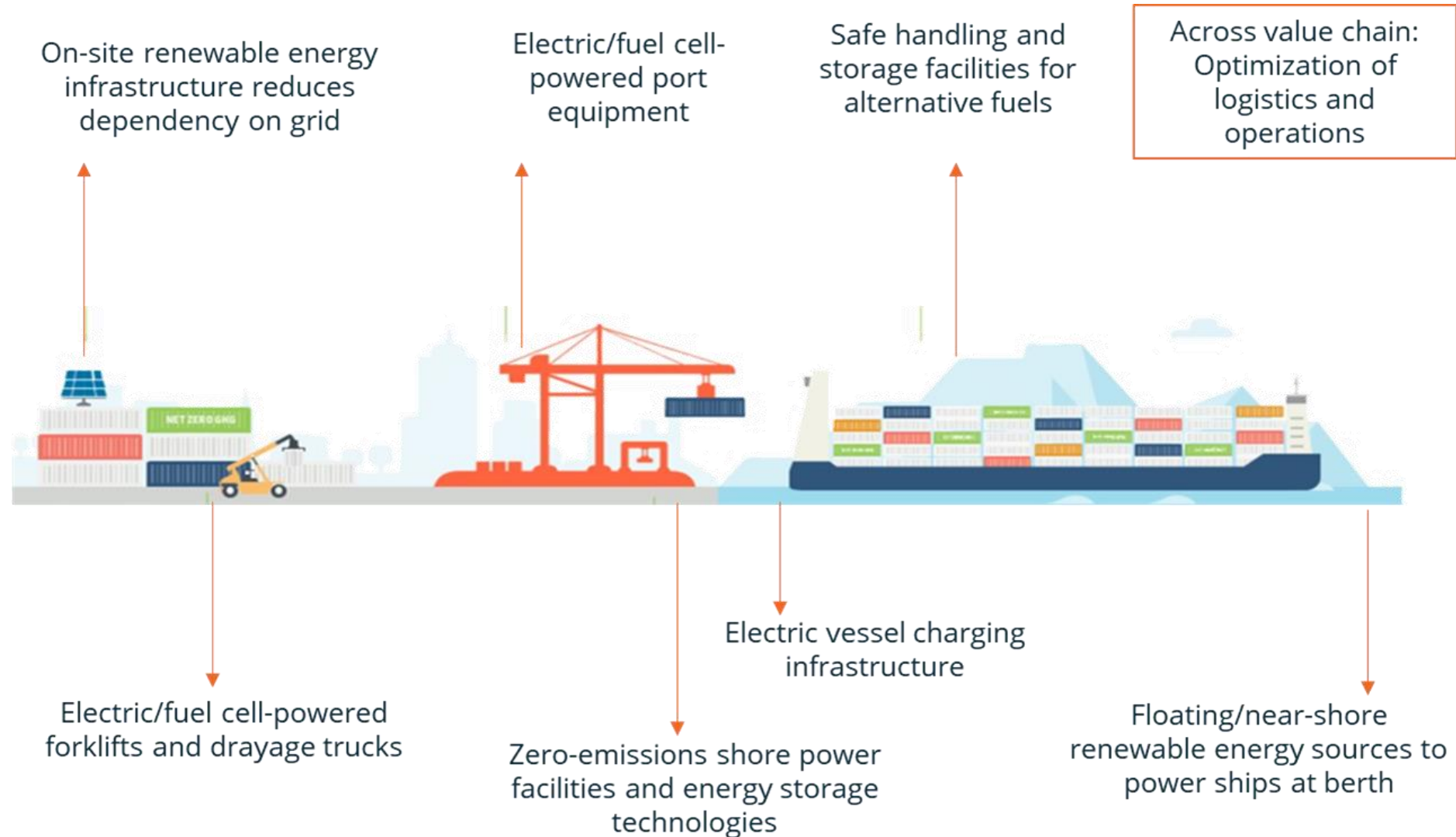


Maritime is 50% of all Economic Contributions (UNDTAD 2023)

Source: OECD, 2024
Adapted from CleanTech Group 2024



2. Key Port Decarbonization Opportunities



2. Key Port Challenges

Increase
Efficiency

Modern and
Sustainable
Equipments

Improve Gate
Movements

Improve Port-
City Relation

Increase
Intermodality

Use of
Renewable
energies



2. Emerging technologies

- Port authorities are increasingly adopting automation, AI, and IoT solutions to enhance efficiency. Recent innovations involve digital platforms for logistics and smart containers.



3. Our Strategic Goals 2030

- Expand the hinterland and reinforce efficiency and intermodality
- Develop a Blue Economy International Cluster

Develop a **Green, Intelligent and Resilient Port Ecosystem**

Reinforce Port-City Relationship/*Sustainable Communities*

Reinforce the international positioning *in the tourism industry*



4. Action Plan 2023-2024

- Promote the Port of Lisbon in the blue innovation ecosystem (ASPBAN)
- Develop and promote an Innovation Programme
- Open Innovation: Implement PoC's in different business areas (TO PERFORM PILOT TESTS, PROTOTYPES OR POCs IN THE PORT'S ACTIVITIES/AREA)



OUR GOAL: TO DEVELOP A GREEN,
INTELLIGENT AND RESILIENT PORT



The journey for building an innovation ecosystem that catalyses ports as blue economy hubs, so far...

2018-2019



- 80 start-up applications
- 10 start-ups winners with business deals



2020-2022

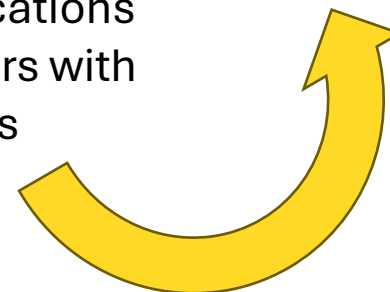
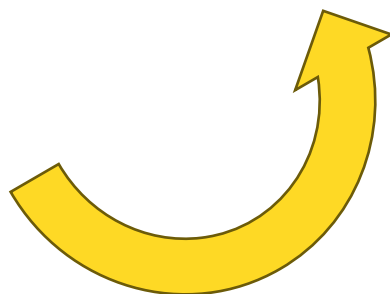
ATLANTIC SMART PORTS
BLUE ACCELERATION NETWORK

- 400 start-up applications
- 10 start-ups winners with 20 pilots in 10 ports

2024-forward



- 100 start-up applications
- 4 start-up winners for pilots

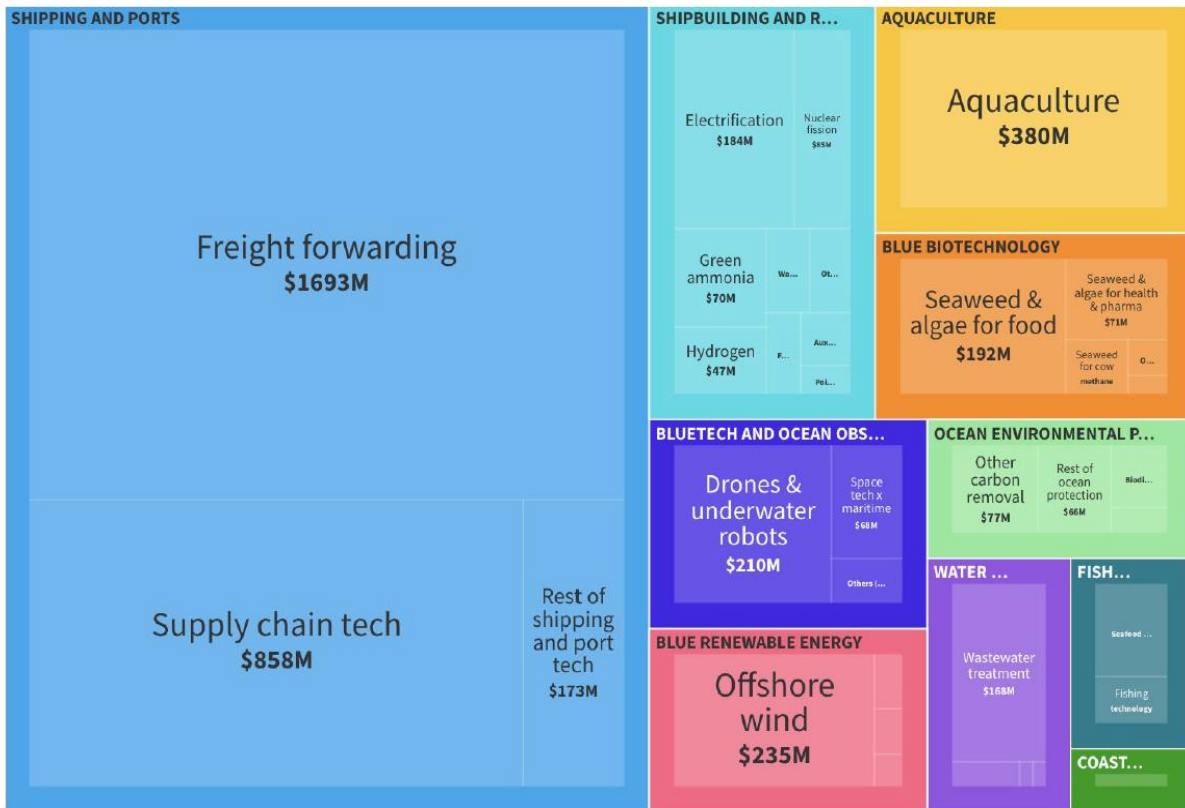


STAY TUNED!

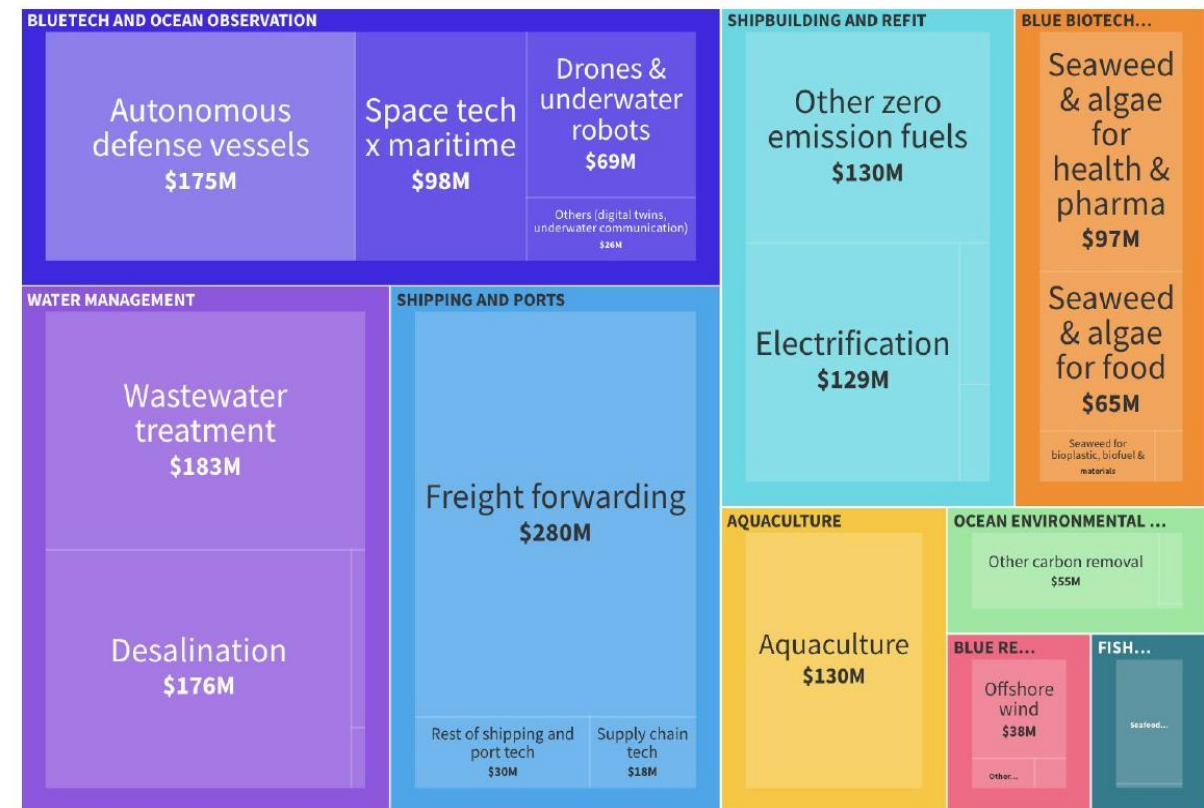


Hub Azul Blue Economy Guide 2024 Trends: shipping & ports have taken a back seat while ocean observation and water management has grown in

Global VC funding in Blue Tech by segment 2022



Global VC funding in Blue Tech by segment 2024



BLUE ECONOMY GUIDE

blue investment snapshot by **HUBAZUL** dealroom

PORTUGAL 



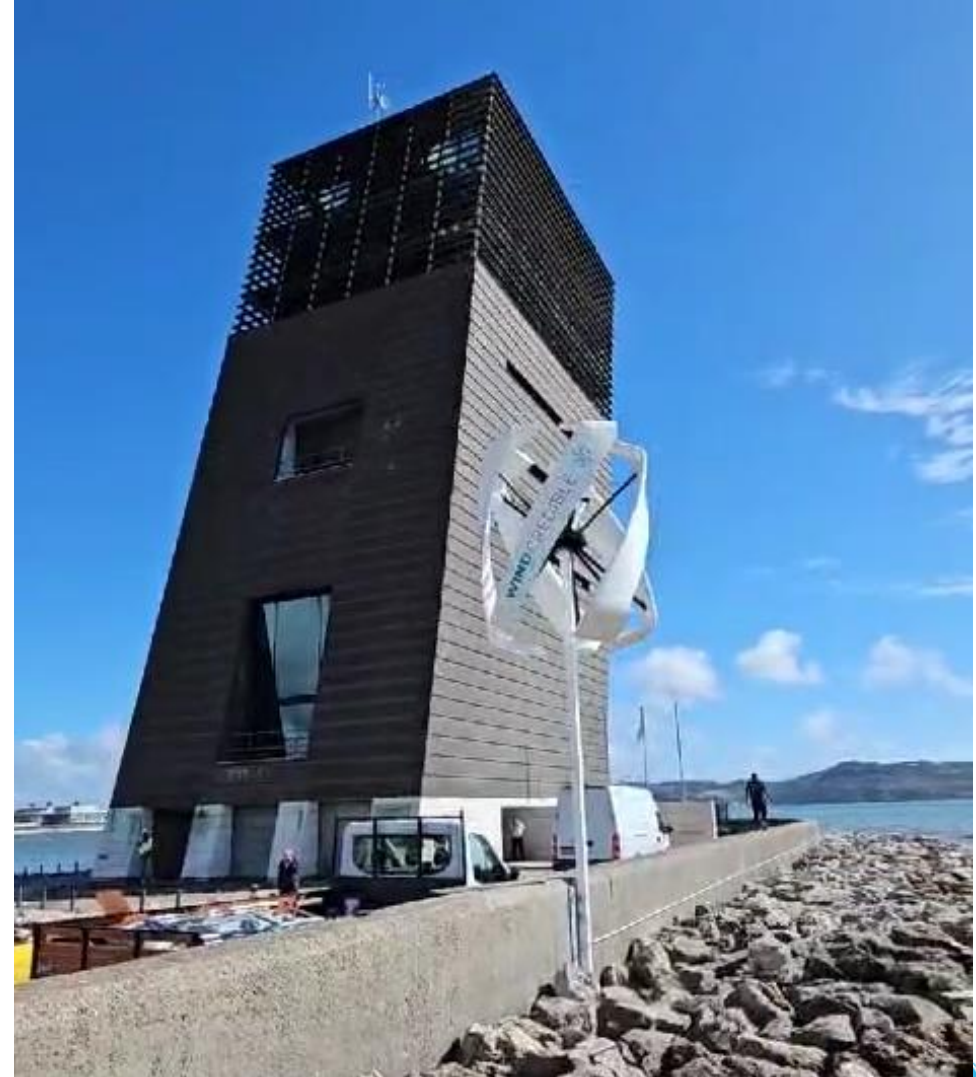
5.PoC by Windcredible

Urban Wind Generator

Installed power 3 kW

Silent Low Vibration

Generates energy with strong winds - 90 km/h



Open Program for a Sustainable Port

a **Living laboratory** for the experiment and scaling of new technologies, products and services that will help the **Port of Lisbon to assume more quickly its role as an integrator to a decarbonized, digital and circular economy**



HUMAN CAPITAL AND TALENT



**CULTURE OF
INNOVATION**



**ATTRACTING
INVESTMENT AND
INTERNATIONALIZATION**





**LEISURE
& TOURISM**



**SMART & GREEN
PORTS**



MOBILITY



DeepNeuronic: A solution based on artificial intelligence to optimize security and protection in port areas.

Nudgd: A solution that uses behavioral psychology to encourage sustainable and eco-efficient practices in port spaces.

NILG.AI: A digital platform for data analysis using artificial intelligence to promote the digitization and simplification of procedures.



5. Smart Docks – PoC by Wavecom

IoT solution and connectivity based on **three pillars:**

1 . Parking

Tracking in real time, the location of the ships.
Measure dwell times, capacity and control of entries and exits.

2 . Utilities

Measurement of energy and water consumption per ship.

3 . Connectivity

- The possibility for customers and employees to connect to broadband wifi internet securely
- The Lora network to connect sensors for measuring air quality, water quality and noise levels





Smart Port LX

Smart monitoring of port resources and activities in the Port of Lisbon

Investment: 5 M€

Period: 2025-2027





Porto de Lisboa

Thank you

Isabel Moura Ramos

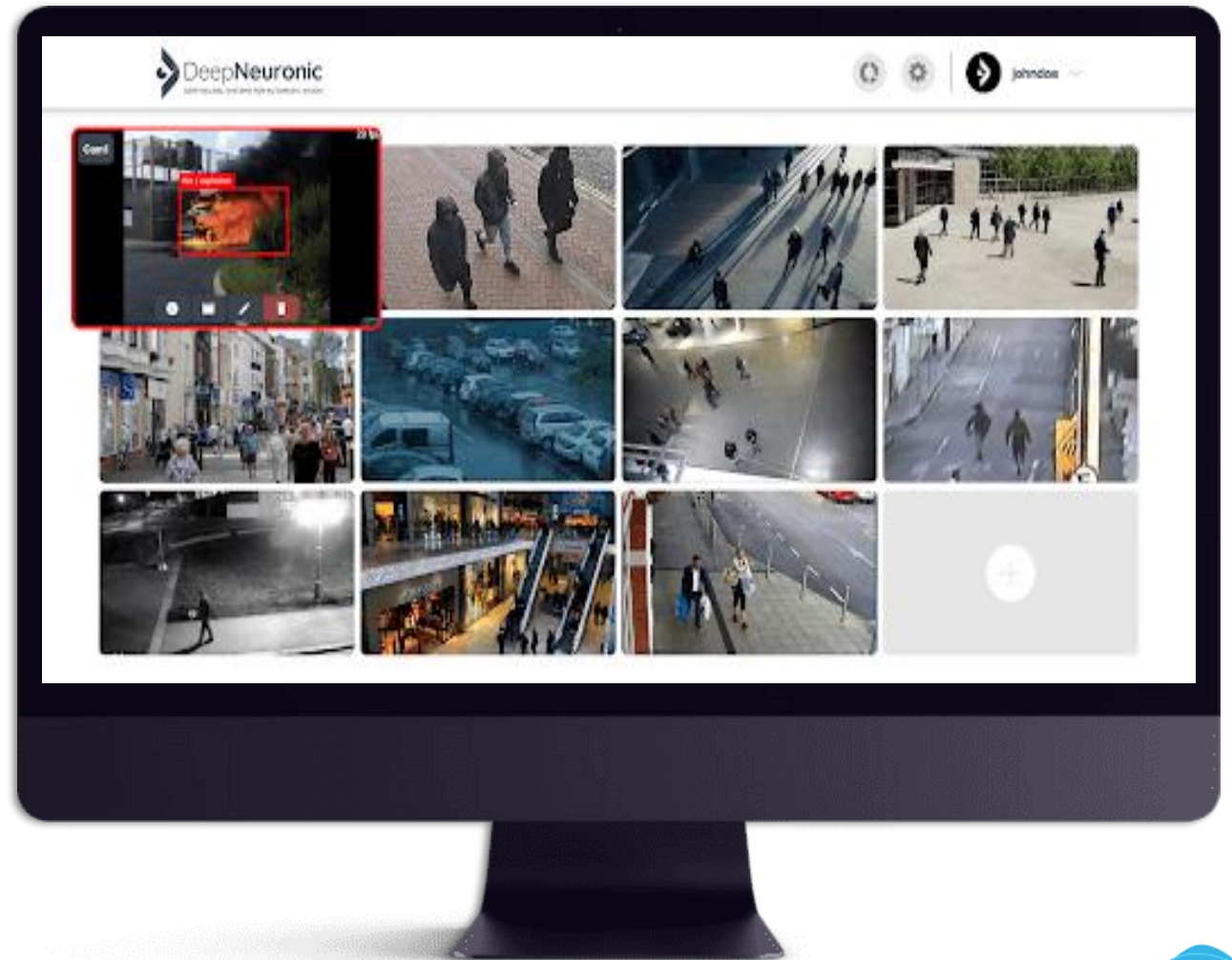
Executive Board Member / Ports of Lisbon and Setúbal

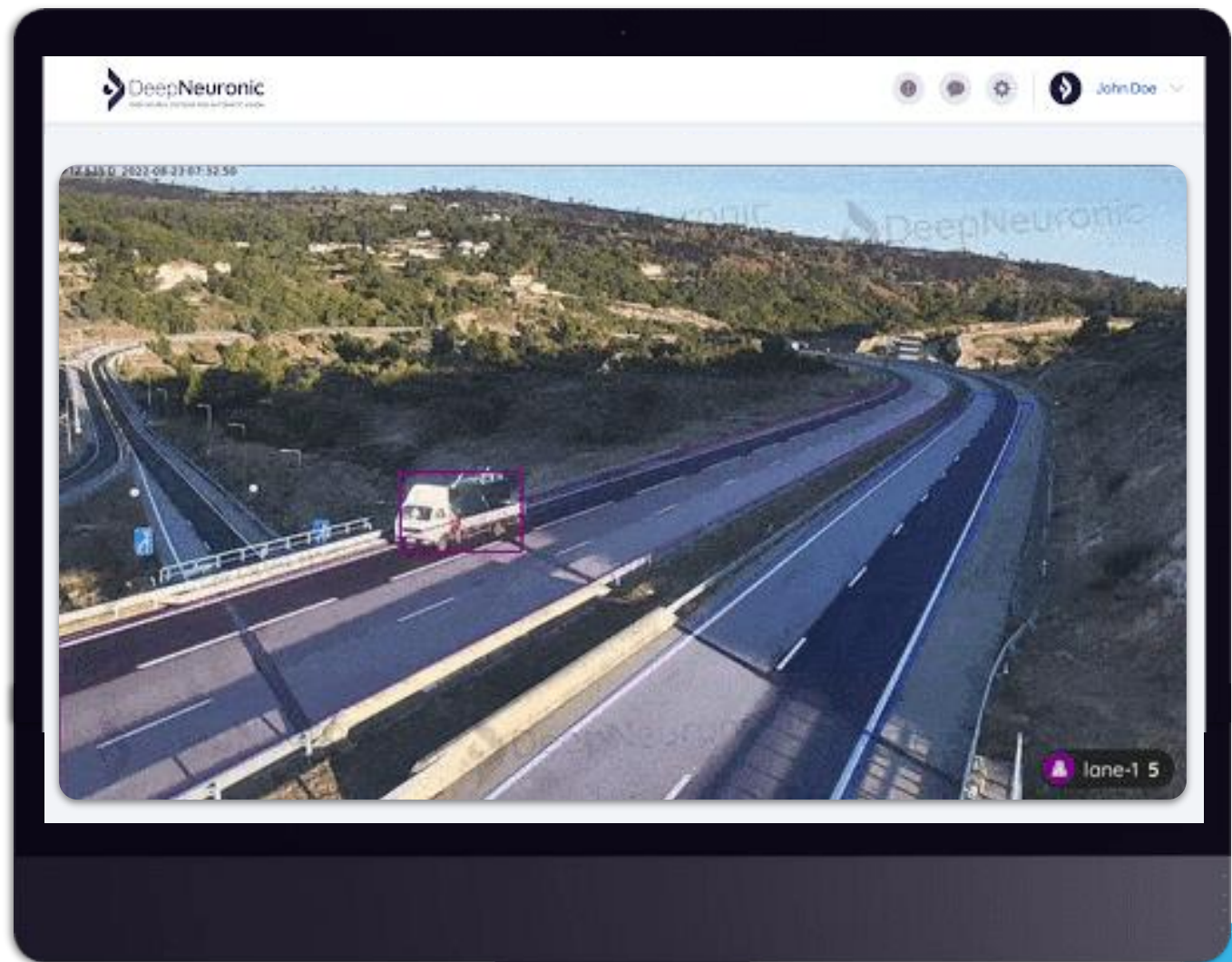
imouramos@portodelisboa.pt

Isabel Moura Ramos



**We automatically
detect dangerous
and behaviours of
interest
for you**

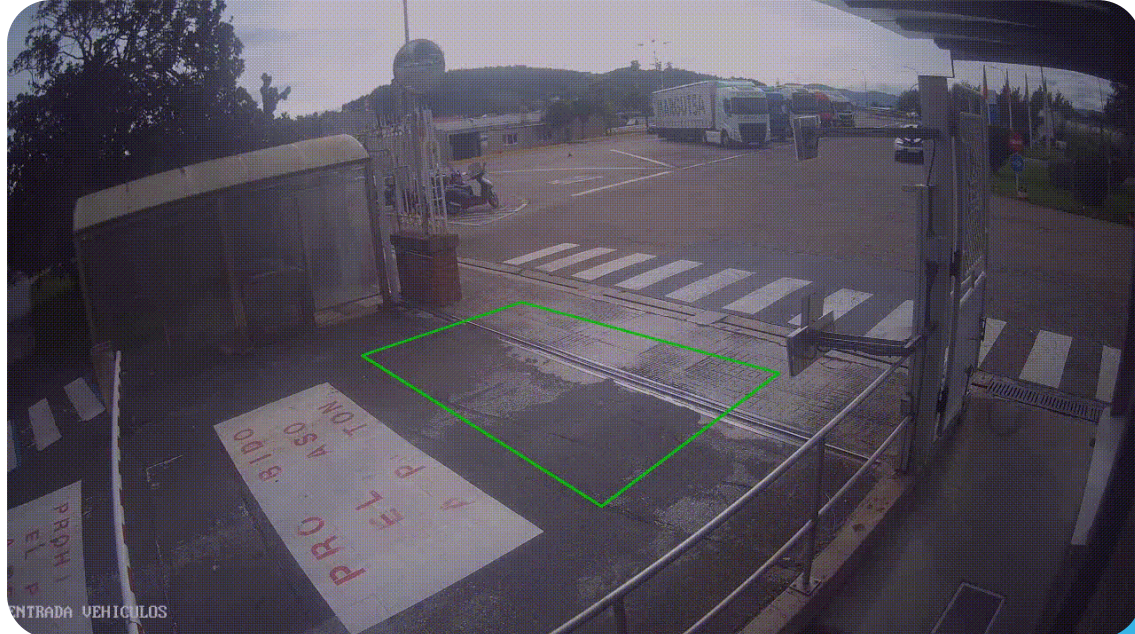




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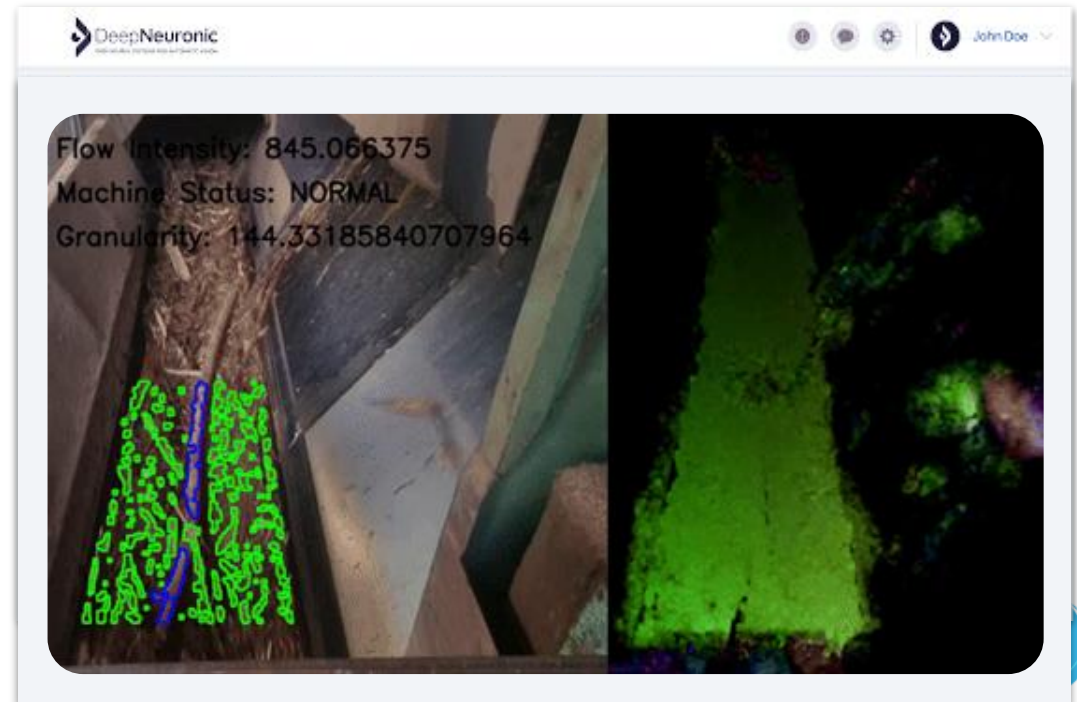
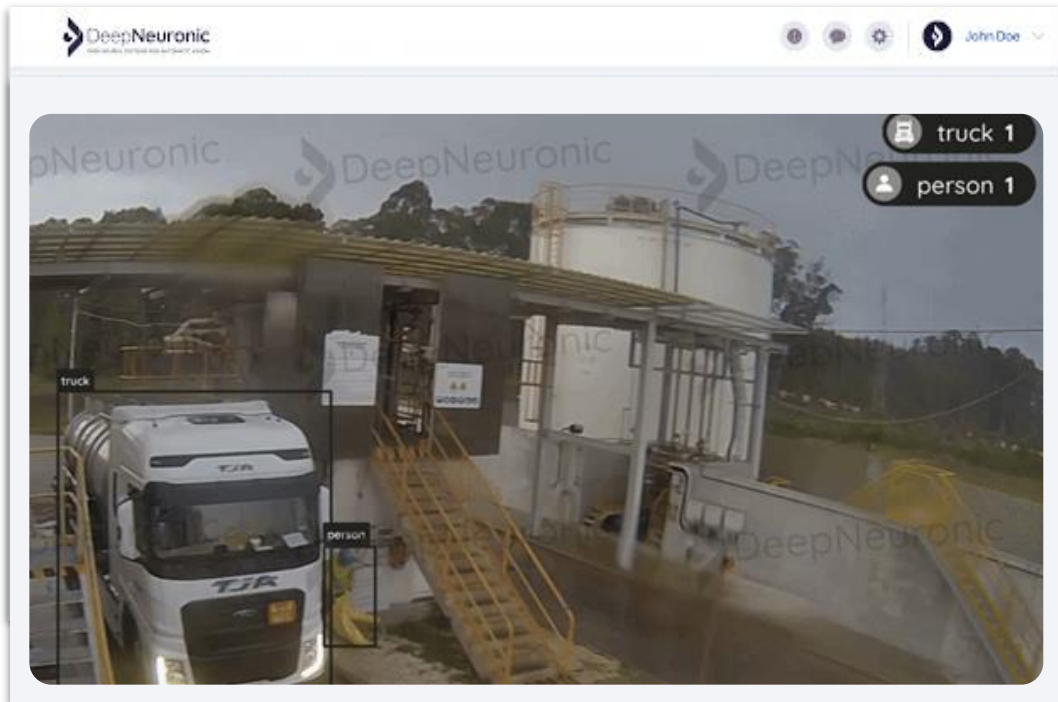
3



1 Verification of **Personal Protective Equipment (PPE)**

2 Detection of **anomalies** in production lines

3 Identification of **danger zones, access, and alarms**

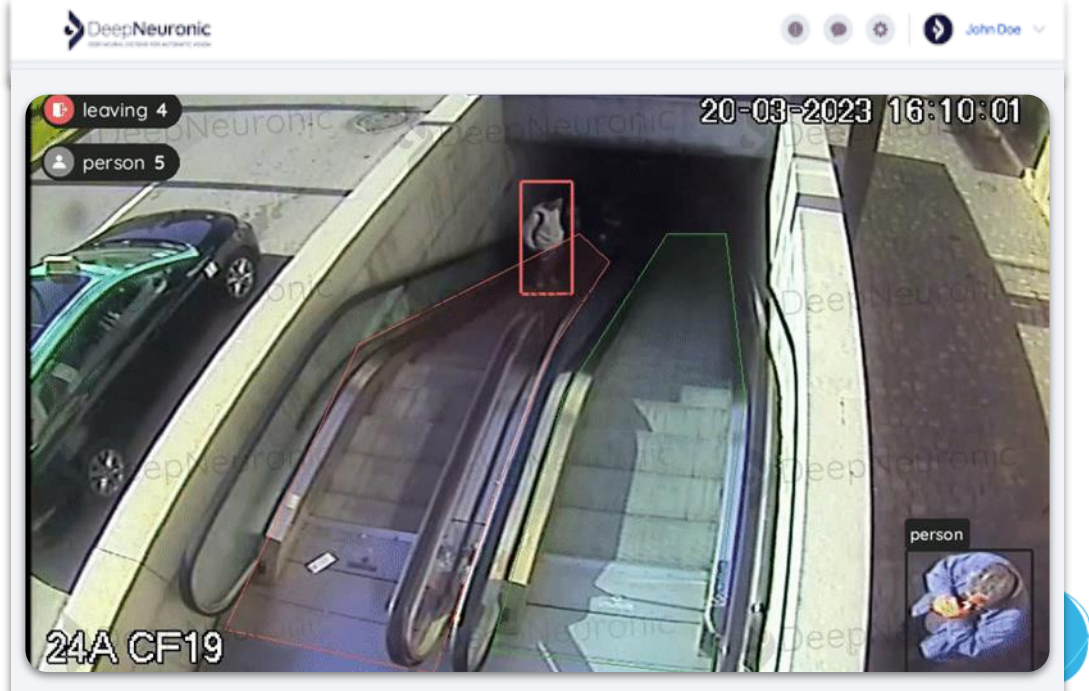
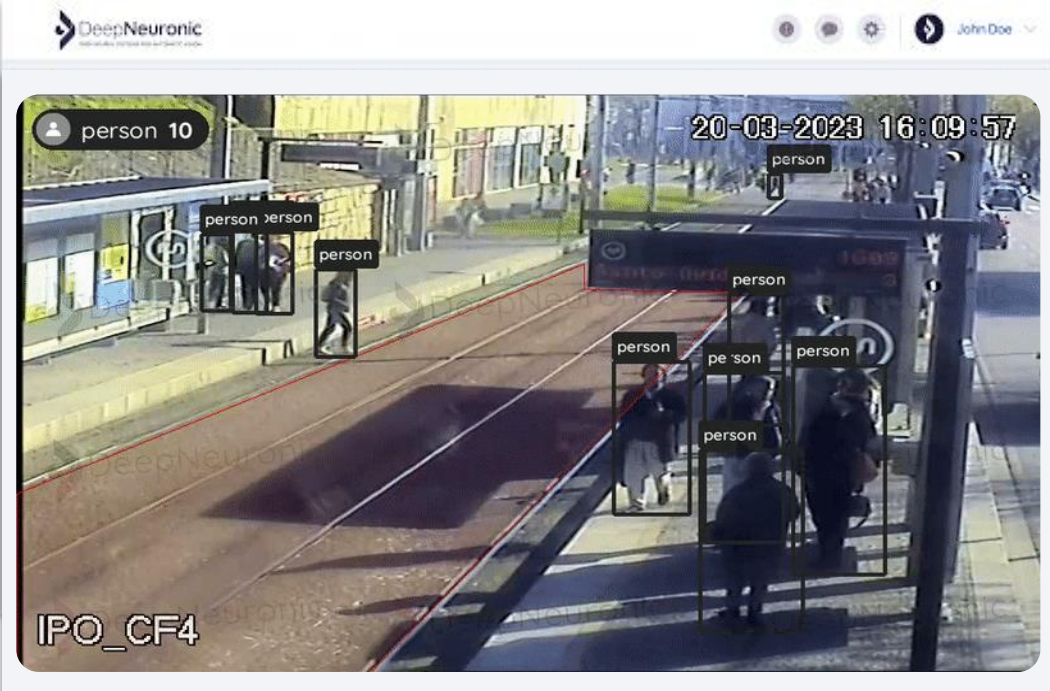
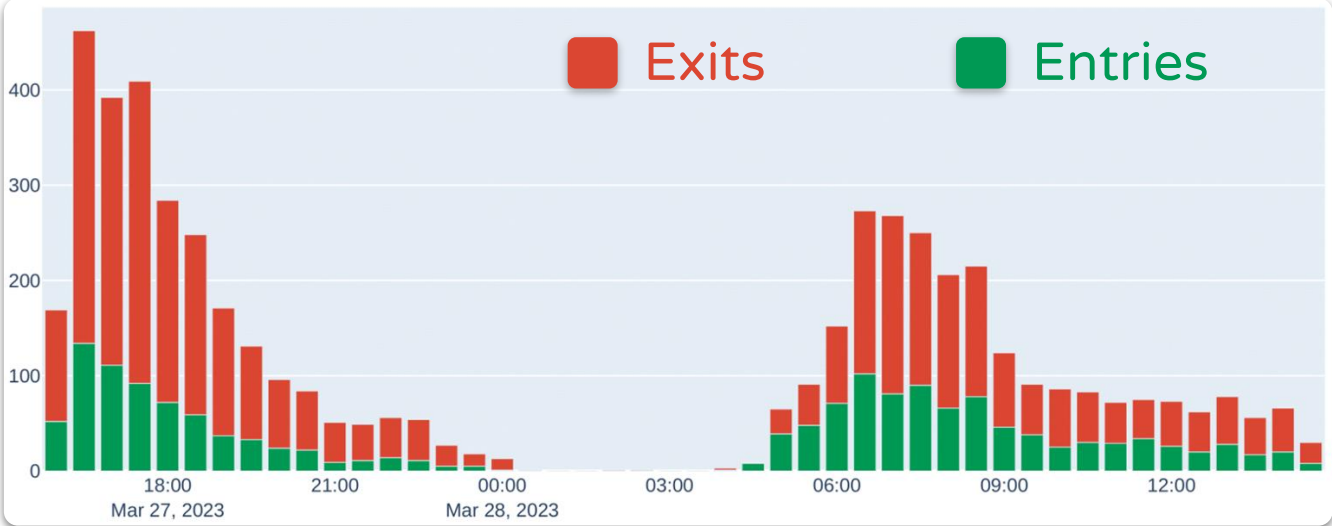




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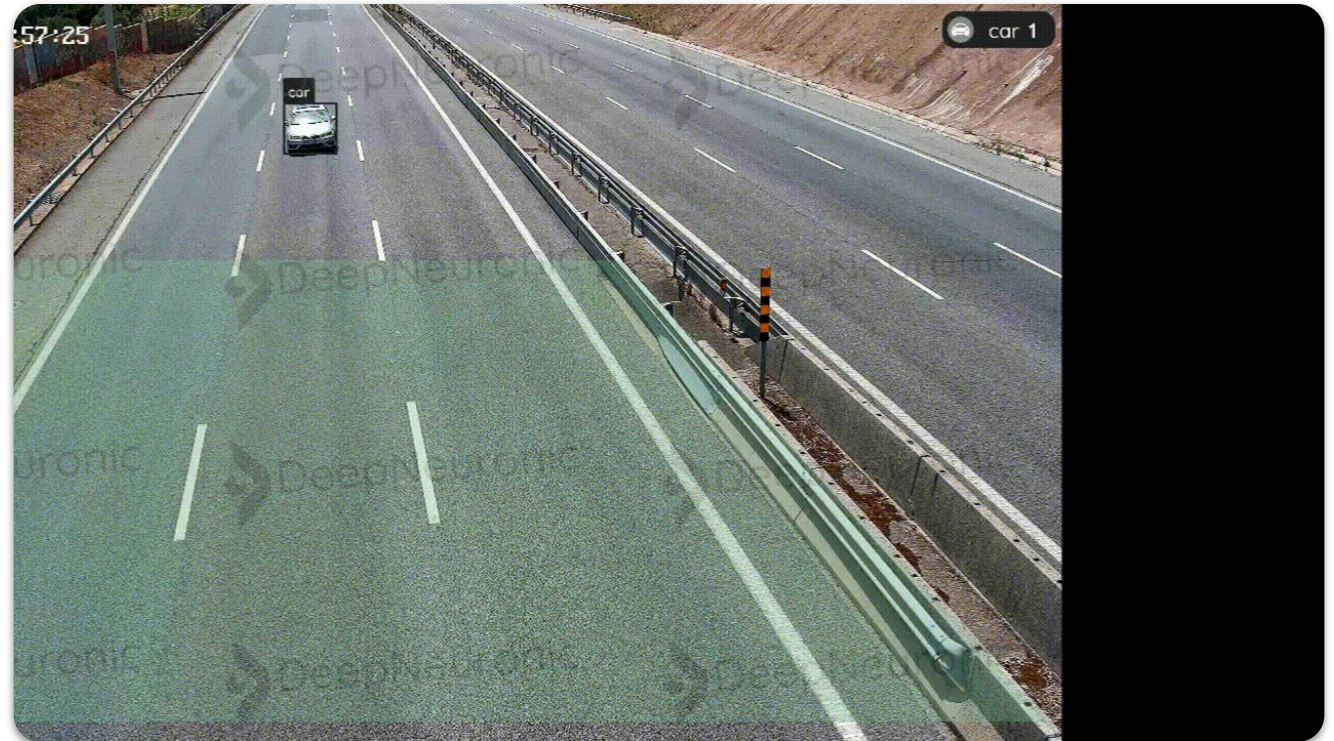
Control of vehicle entries and exits and tolls

2

Temporal and digital confirmation history

3

Correlation and integration with databases

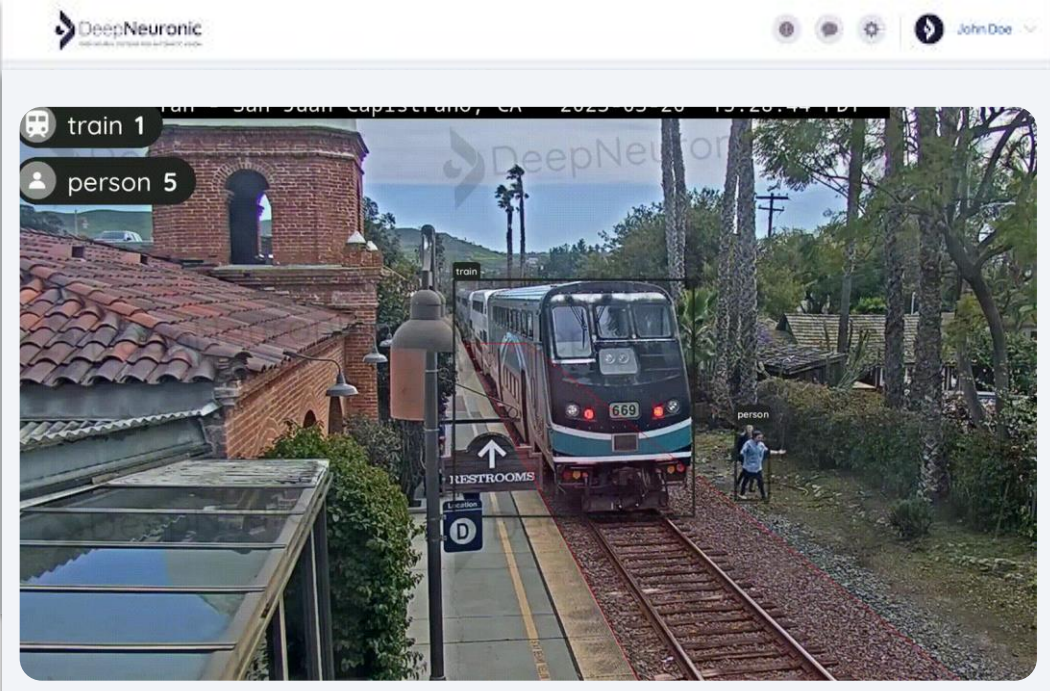
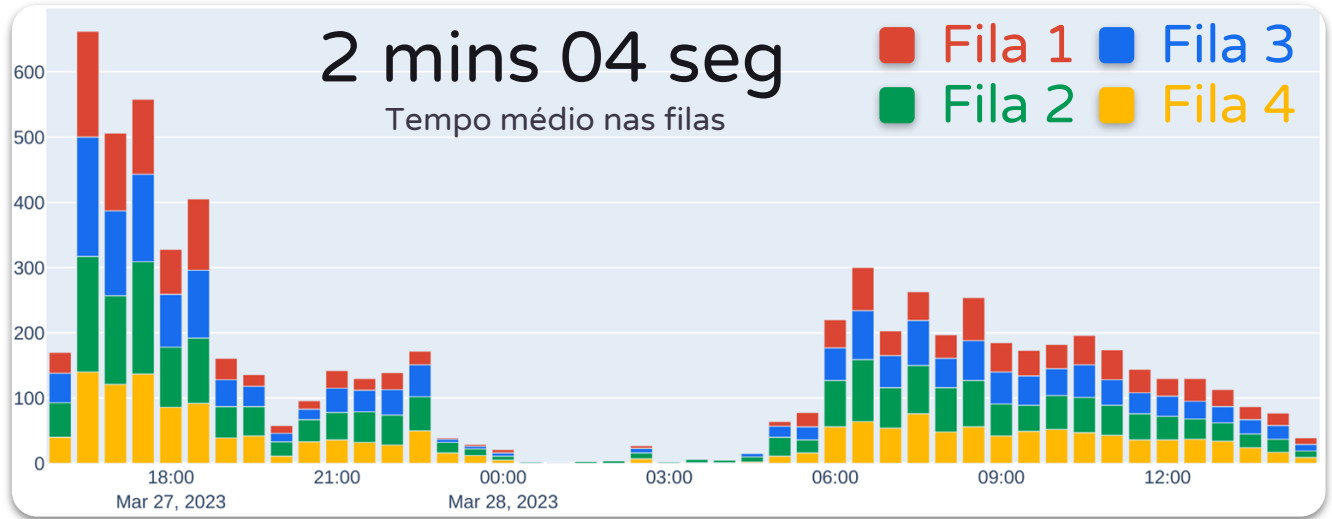


matrícula	confiança	via	classificação	características	data e hora	anexo
24-VO-75	86%	1	camião	azul, ...	2024-07-29 14:24:11 (GMT+1)	(imagem)
BD-54-EG	90%	1	camião	azul, ...	2024-07-29 14:25:23 (GMT+1)	(imagem)
30-XU-54	83%	3	carro	preto, ...	2024-07-29 15:12:06 (GMT+1)	(imagem)
42-JI-01	85%	2	carro	preto, ...	2024-07-29 15:13:19 (GMT+1)	(imagem)

1

2

3





worten

Solobond



THALES



BONDALTI

wells



MOTOROLA SOLUTIONS



BOSCH



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WINDCREDIBLE



Windcredible

Small Wind Turbines for Maritime Applications

Small Wind Turbines



Efficient



Saves 20% to 50%
electricity consumption



Silent



Works day and night



Safe

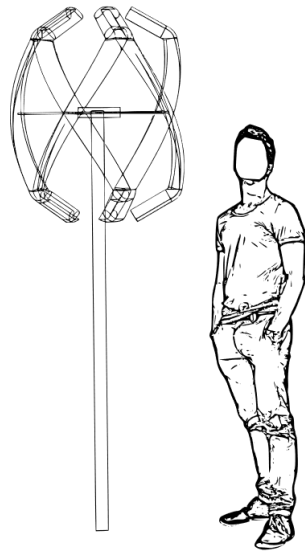


3 X more energy / m²



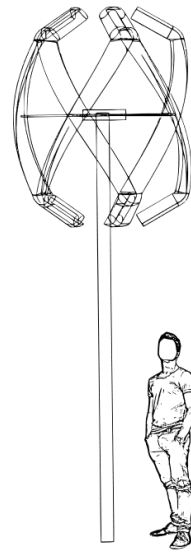
Models and Use cases

Nano



Vessels
Camping

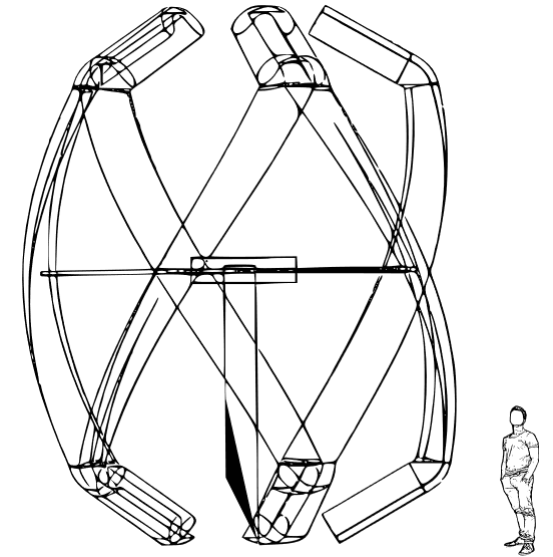
Urban 1KW – 2.4 m



Residential, Commercial,
Energy Communities



Farm



Infrastructure
Off-shore



Piece of the Sustainable Future



Electrification
of Yard
Operations
Energy
Communities

Electric
Mobility
Shore Power



Contact Information



Join us in our **Mission** to provide
Accessible Wind Energy

info@windcredible.com

www.windcredible.com



Av. Padre Bartolomeu de Gusmão 41a,
2720-426 Amadora



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Financing the Port City Transition



MODERATOR



Geraldine KNATZ
Co-Chair
Alta Sea



Geraldine ANDRIEUX
Founder & CEO
Blumorpho



Patrice VERGRIETE
Mayor
City of Dunkirk



Gerardo LANDALUCE CALLEJA
President
Port of Algeciras



Financing the Port City Transition



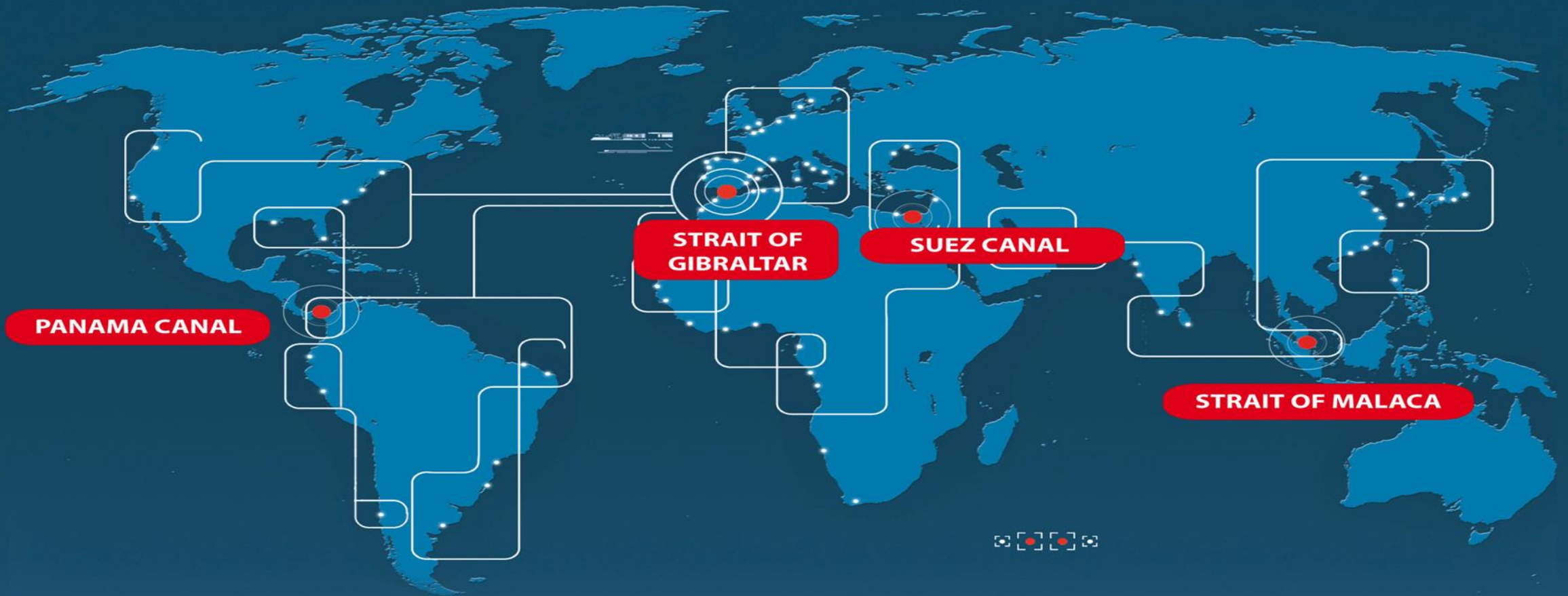
Lisbon, 28th november





STRAIT OF GIBRALTAR STRATEGIC LOCATION

MAIN WORLDWIDE MARITIME HUBS





STRAIT OF GIBRALTAR

MARITIME BRIDGE BETWEEN 2 CONTINENTS



STRATEGIC SHIPPING AREA

9/20 MAIN MARITIME ROUTES WORLDWIDE

2nd WORLD MARITIME ROUTE

MORE THAN 115,000 VESSELS ANNUALLY

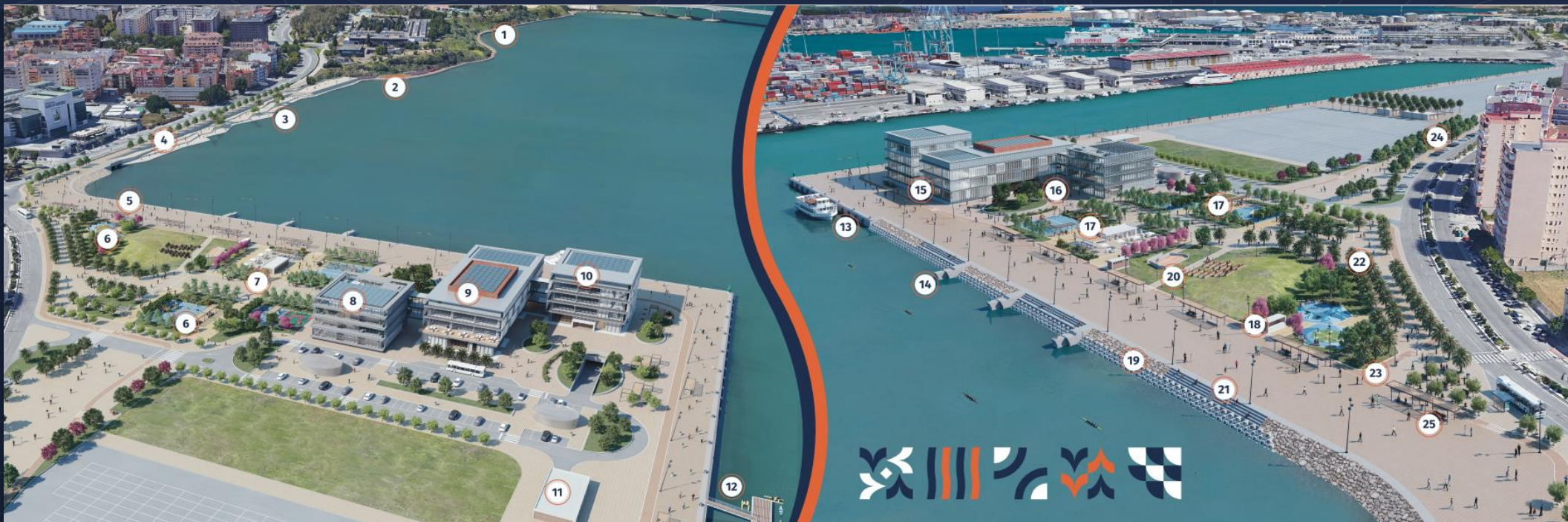
STRAIT OF GIBRALTAR

ZERO DESVIATION AND GLOBAL INTERMODAL NODE





PORT CITY ALGECIRAS MARITIME LAGOON. A NEW GATHERING SPACE BY THE SEA



1. Paseo peatonal y recorrido paisajístico Ribera de Cornisa.
2. Jardín Humedal de Cornisa.
3. Plataformas de aproximación y estancia junto al mar.
4. Ampliación acerado Avda. Pérez Arriete.
5. Nuevo Paseo Marítimo de Ribera Norte.
6. Áreas de juegos infantiles.
7. Módulo de restauración.
8. Centro de Innovación de la Universidad de Cádiz (UCA-SEA).
9. Auditorio público.

10. Centro Portuario de Innovación.
11. Nuevas instalaciones club de piragüismo.
12. Pantalán flotante.
13. Atraque para embarcación visitas marítimas.
14. Puestos de pesca.
15. Museo y Centro de Interpretación del Puerto (Port Center).
16. Cafetería.
17. Áreas de ejercicio y calistenia.

18. Aseo público.
19. Escollera con bloques para desarrollar biodiversidad.
20. Auditorio al aire libre.
21. Zona de estancia y descanso.
22. Zona de Bajas Emisiones.
23. Carriles bici.
24. Nuevo acerado y Bulevar Virgen del Carmen.
25. Áreas de estancia y sombras.





AN ACTIVE PORT AND A VIBRANT CITY A NEW SPACE FOR CITIZENS

New promenades, recreational areas,
green spaces, fishing spots, a
canoeing club, a public auditorium,
and more



World Conference Cities & Ports AIVP

Morning Program
28th November 2024

9:00-9:15	Keynote Port Cities and UNOC 3
9:15-9:45	Innovation in port cities in the face of climate change
9:45-10:30	Financing the Port City Transition
10:30-11:00	Coffee break
11:15-12:00	How to implement local City-Port strategies in the face of climate change ?
12:10-12:25	What are the national strategies for city-port areas in the face of climate change ?
12:25-12:50	What AIVP and the Ocean Rise coalition are proposing
12:50-13:50	Lunch

Co-organizer



Partners



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**Keynote
Towards the UNOC 3**



Olivier BETTATI
Délégué Général de la Mission
Conférence des Nations Unies
pour l'Océan
VILLE DE NICE

World Conference Cities & Ports by AIVP



Carola HEIN
Professor and Co-Chair
TU Delft



Eugene SEAH
Chief Operative Officer
Port of Baku

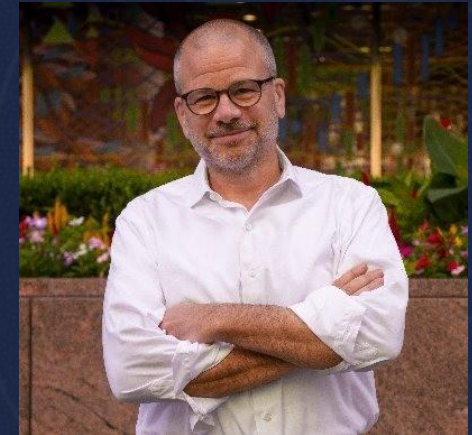
**How to implement
local City-Port
strategies in the face
of climate change?**



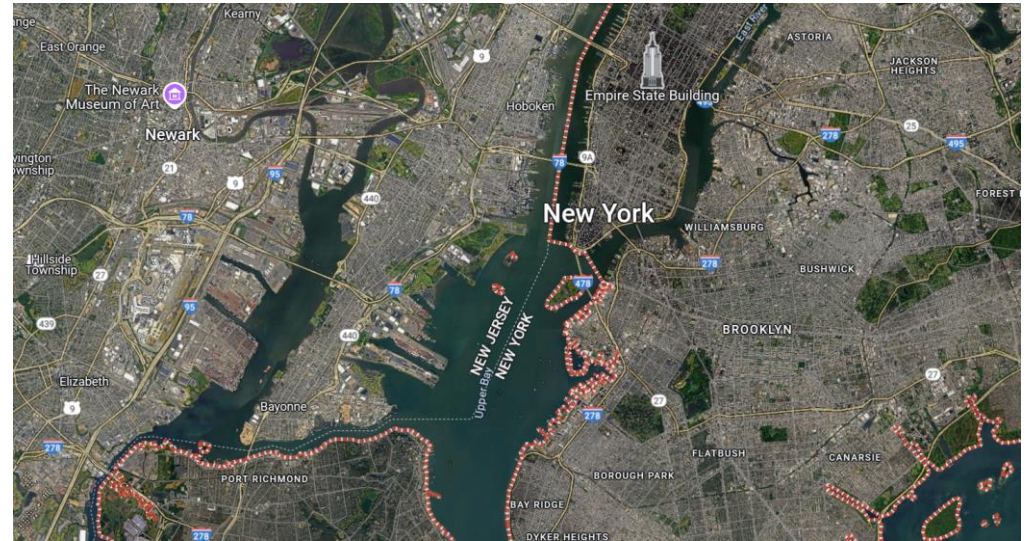
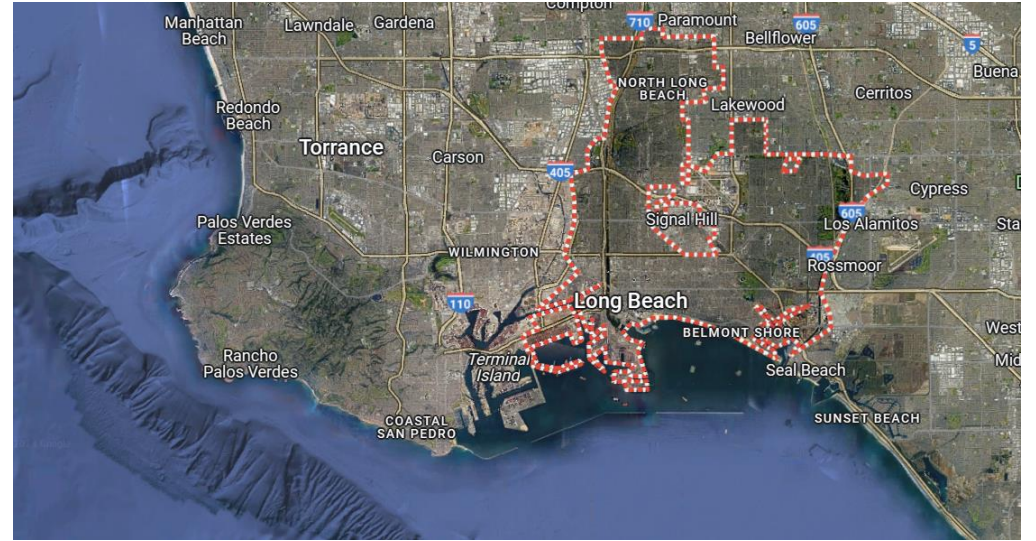
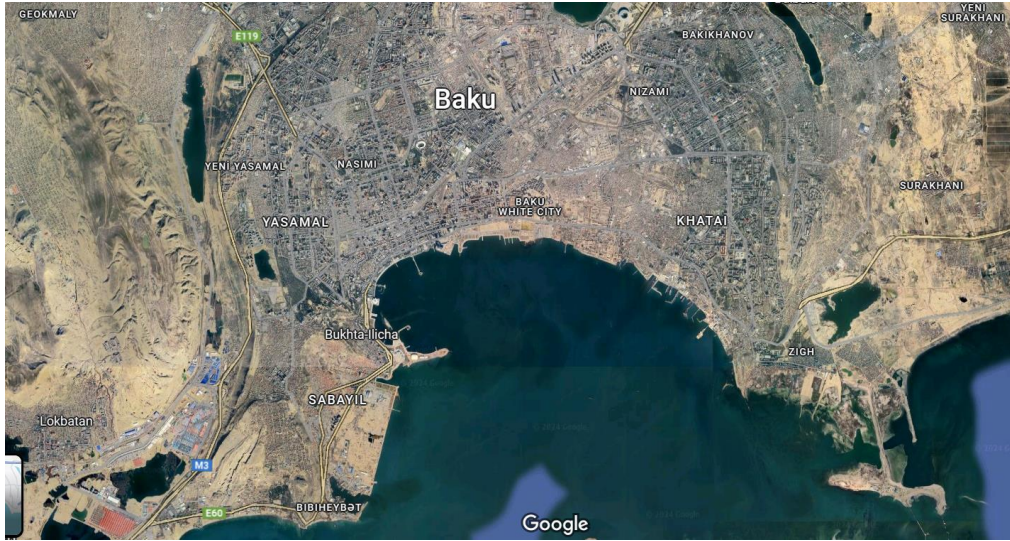
Bonnie LOWENTHAL
President of the Long Beach
Board of Harbour
Commissioners



**Roger Victor MBASSA
NDINE**
Mayor
City of Douala



Andrew KIMBALL
President & CEO
NYC EDC



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What AIVP and the
Ocean Rise coalition are
proposing



Alberto CAPPATO
Secretary General
AIVP



Edouard PHILIPPE
President
AIVP

Inclusion of ports and port cities in international ocean policy

Coastal and inland port cities play a strategic role in the international trade and cultural links that, over thousands of years and on every continent, have been the key drivers of local and national economic growth, and helped to make peoples free and independent. In recent decades, as these commercial and cultural exchanges have accelerated, port cities bear their share of responsibility for the current climate crisis: port activities and infrastructures interact with marine and river ecosystems, their economic pull attracts migrants and increases land pressure along coastlines, and the mass tourism they generate has repercussions for the environment. Yet they offer solutions for the future of both the energy transition and the environment, and are a vital partner for blue innovation.

United under the AIVP banner, port cities are fully committed to United Nations Sustainable Development Goal 14, to “conserve and sustainably use the Oceans, seas, and marine resources for sustainable development”. The AIVP 2030 Agenda for sustainable port cities, adopted by AIVP’s members in 2018, translates the 17 SDGs into almost 50 actions designed to guide the public policies deployed in port cities. The agenda, which brings together key decision-makers from both cities and ports around a shared ambition, is the only one of its kind in the world.

With this declaration, we reaffirm our ambition:

- **to promote best practices** by all available means, and to develop and share knowledge and cooperation, both locally between cities and ports and their stakeholders, and globally between port cities around the world, through the AIVP 2030 Agenda;
- **to encourage local initiatives**, City-Port-Citizen governance, and dialogue with the public and indigenous peoples, to find new ways of ensuring the sustainable development of port cities and regions, while slowing the pace of climate change;
- **to ensure our rivers, seas, and oceans are developed sustainably**, by promoting low-carbon uses of maritime and inland waterways, port activities and logistics, and biodiversity safeguarding;
- **to advocate for coastal and inland port cities with national and international organizations**, emphasizing not only their vital role but also their responsibilities, on issues such as the economy, geopolitics, energy, migration, and the environment.

With this declaration, we pledge:

- **to rally and unite experts, practitioners, partners and networks working with AIVP** around efforts to build a sustainable future for ports and port cities, both in the run-up to and during the 3rd United Nations Ocean Conference;
- **to provide the Ocean Rise & Coastal Resilience Coalition** with the benefit of our combined knowledge and resources, to enable the development of port city-focused action plans;
- **to accelerate the process of ratification of the AIVP 2030 Agenda by cities and ports**, and to ensure that its ten goals are implemented in the following areas:
 - Climate change adaptation
 - The energy transition and the circular economy
 - Sustainable mobility
 - Renewed governance
 - Investment in human capital
 - Port culture and identity
 - City-port interface
 - Health and quality of life
 - Biodiversity protection
- **to assess resulting public policy outcomes** in a fully transparent way, and to train our managers in sustainable port city issues;
- **to platform the most outstanding city port developments;**
- **to raise public awareness in port cities** about climate change, the energy transition, and environmental conservation, through ongoing dialogue and Port Center-led initiatives;
- **to educate investors** about the support port cities need in order to build development strategies capable of ensuring their long-term resilience to climate change and accelerating innovation.

With this declaration, we call for:

- **full recognition of coastal and inland port cities** both in the lead-up to and during the 3rd United Nations Ocean Conference taking place in Nice in June 2025;
- **the creation of a working programme at the Ocean Rise & Coastal Resilience Coalition**, specifically aimed at including port cities in national and international maritime and ocean policies;
- **dedicated funding for developing the programme and sharing best practices.**

We note:

- **that this agreement will be submitted for the endorsement of the cities and ports gathered today in Lisbon for the 19th World Conference Ports & Cities, and all AIVP members.**
- **that these endorsements will be forwarded in early 2025 to the inviting powers hosting UNOC 3, namely the United Nations, the Presidency of the Republic of Costa Rica, the Presidency of the Republic of France, the City of Nice, host city of UNOC 3 and chair of the Ocean Rise & Coastal Resilience Coalition.**

Lisbon, 28 November 2024

World Conference Cities & Ports AIVP

Afternoon Program
28th November 2024

12:45-13:45	Lunch	Champalimaud Foundation
13:45-18:00	Blue Economy and Innovation	Champalimaud Foundation
14:15-17:30	Energy Transition and Circular Economy	MAAT Central - EDP Foundation
14:15-17:30	Environment and Biodiversity	Escola Náutica Infante Dom Henrique
20:00-23:00	Gala Diner	Pátio da Galé

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world conference cities & ports

by aiVP

27-29th November 2024, Lisbon, Portugal

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