



The International Maritime Transport and Logistics Conference

“MARLOG 12”

**Sustainable & Innovative
Technologies**

Towards a Resilient Future

12 - 14 March, 2023 Alexandria - EGYPT



valenciaport who are we ?

VAB (Valor Añadido Bruto)

2.500 M€



Total empleos

38.866



Top **WORLD** Container Port **2021**

1	Shanghai	47.02
2	Singapore	37.47
3	Ningbo-Zhoushan	31.08
4	Shenzhen	28.76
5	Guangzhou Harbor	24.18
6	Qingdao	23.70
7	Busan	22.69
8	Tianjin	20.26
9	Los Angeles	20.06
10	Hong Kong	17.79
27	Valencia	5.61

Top **EUROPEAN** Container Port **2021**

1	Rotterdam	15.30
2	Antwerp	12.02
3	Hamburg	8.72
4	Valencia	5.61
5	Piraeus	5.32
6	Bremerhaven	4.87
7	Algeciras	4.80
8	Felixstowe	3.78
9	Gioia Tauro	3.19
10	Barcelona	3.53

Top **SPANISH** Container Port **2021**

1	Valencia	5.61
2	Bahía de Algeciras	4.80
3	Barcelona	3.53
4	Las Palmas	1.17
5	Bilbao	0.54
6	Sta. Cruz Tenerife	0.44
7	Málaga	0.24
8	Cádiz	0.21
9	Vigo	0.21
10	Alicante	0.17

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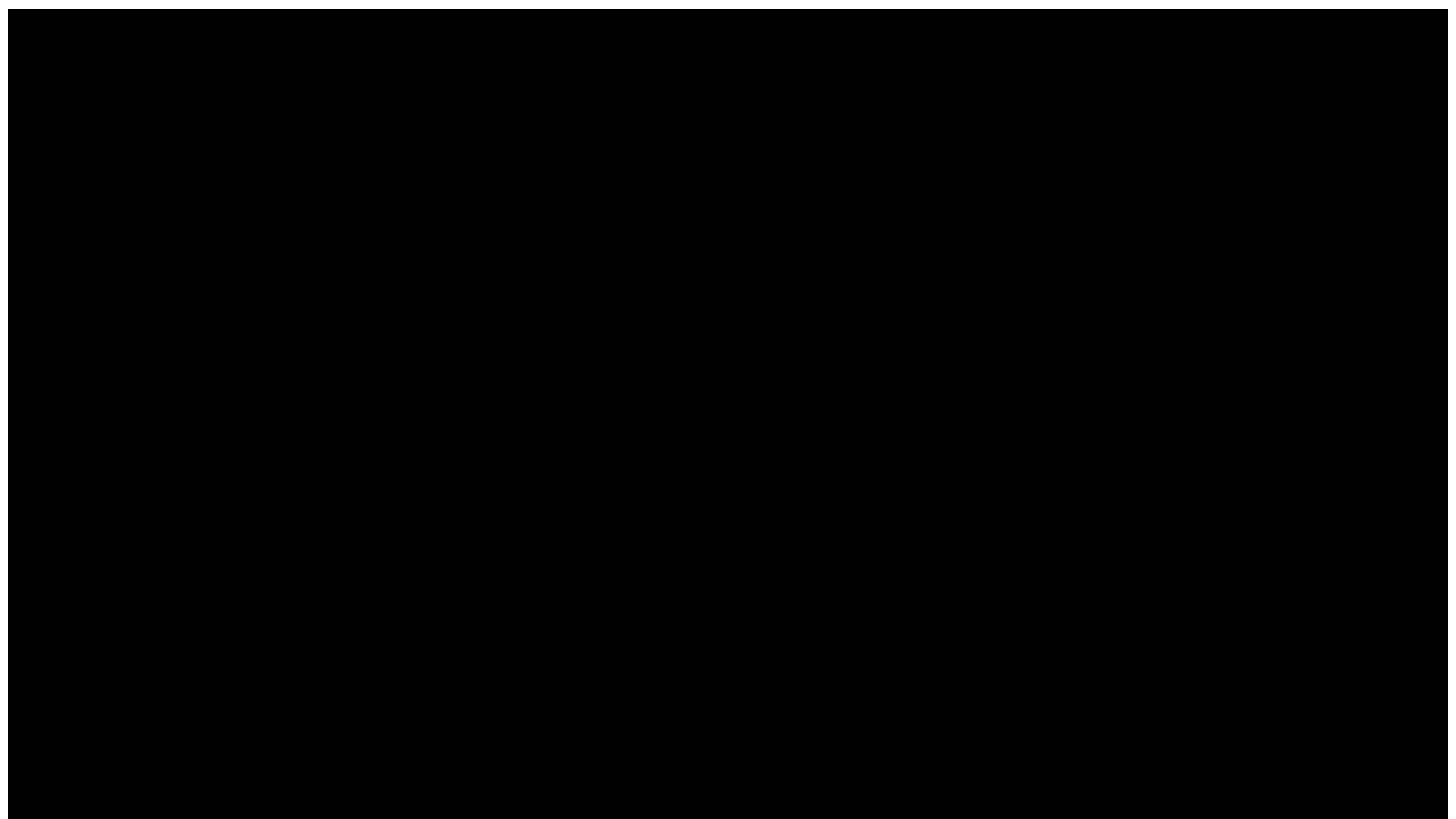
**World,
European
and Spanish
ranking**



Spanish ports



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Port Innovation, Digitalisation and Competitiveness



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PORT MANAGEMENT



PORT MANAGEMENT





XX Century



XXI Century

PORT MANAGEMENT



What are the ingredients?

Traditional port management

Governance
Resource Management
Planning
Infrastructure Management
Service Management

Advanced management port

Governance
Resource Management
Planning
Infrastructure Management
Service Management
Port Community Management
Energy Management
Digitalisation Management
Innovation Management



Innovation Management

What is Innovation?

"Innovation is to have original ideas that generate value, social or economic, in a sustainable way".

Is it important to innovate?



80% of what we buy in the supermarket...

....20 years ago did not exist

Uber



airbnb





Innovation is Important

And in the Maritime & Port
sector?

It's very important to have a good
memory

An aerial photograph of a large port facility. In the foreground, several massive white gantry cranes stand over a dock. The dock is filled with stacks of colorful shipping containers in shades of blue, green, red, and yellow. Some containers have the 'EVERGREEN' logo visible. In the background, a large body of water is visible, with a few ships and a distant shoreline under a clear sky. The overall scene depicts a major hub of international trade.

World Globalization was born with
an innovation in a Port



David Himbara

Sep 11, 2018 · 3 min read · Listen



In 1960, China Was Poorer Than Most African Countries. But Here Is China Bankrolling Africa.



The US\$200 million Chinese gift to Africa—the African Union headquarters in Addis Abeba opened in 2012.







Port of Shanghai



Then what happened?



What changed the world?

Maritime transport by Container

An aerial view of a busy container port. A large red gantry crane with blue legs is lifting a blue container. The crane has labels for 'MSA', 'ZPMC', 'PORT OF TANJUNG PRIOK JAKARTA', and '40 t'. The legs are labeled 'R04'. The port is filled with stacks of containers from various companies like 'MERATUSO', 'seaco', 'EVERGREEN', and 'P&O Nedlloyd'. In the background, there are trucks, a road, and a body of water.

Revolution in prices and times



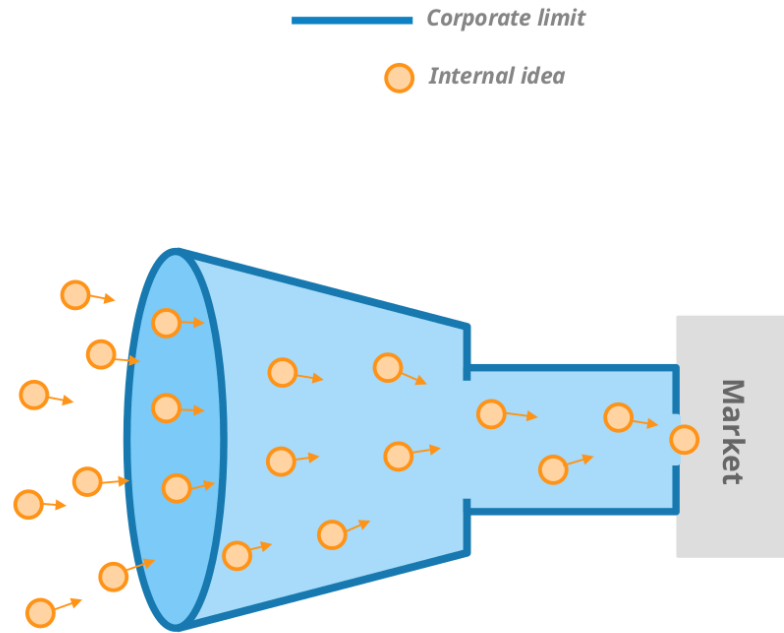
NETFLIX



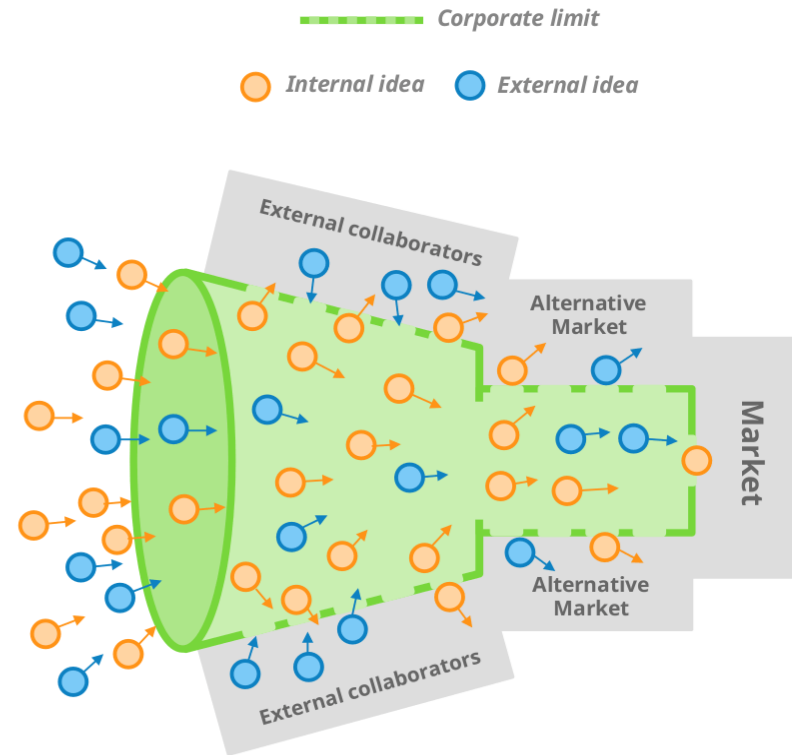


Now what?

Closed Innovation



Open Innovation




OPEN INNOVATION

When companies manage to focus more on their customers than on their own R+D developments, that is, focus more on customer value than on having ownership of technology, ...
....and are open to developing win-win relationships with startups,
It is when the greatest benefits are obtained from innovation.

Welcome to



Valenciaport
Innovation **HUB**



"... To innovate is to see change as an opportunity, not as a threat..."

Steve Jobs

Traditional port management

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Advanced management port

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PORT DIGITALIZATION

(highlights)

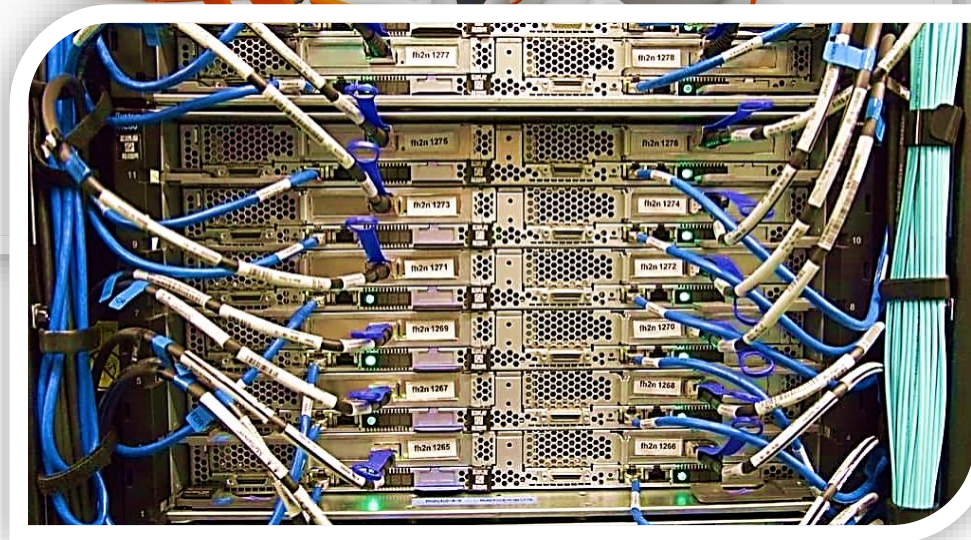
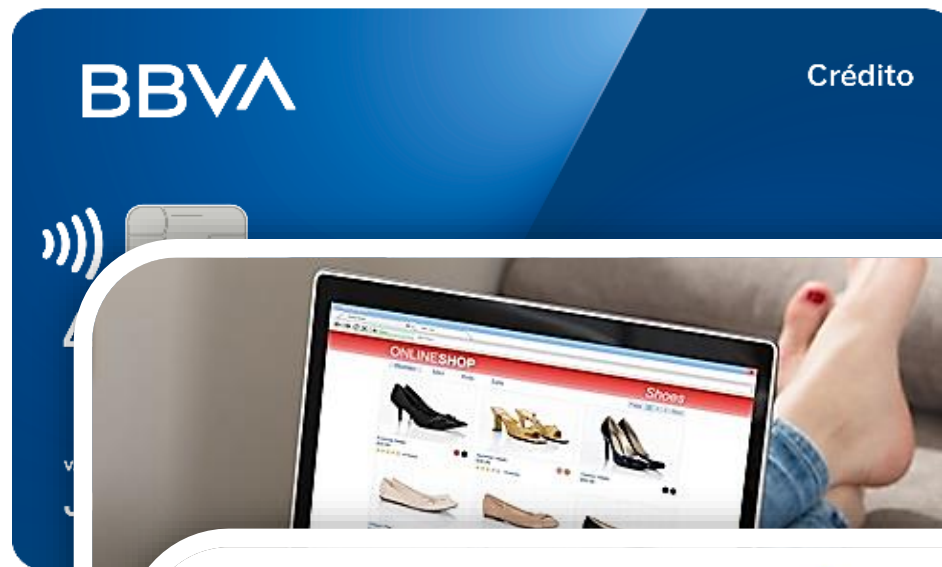
Why?

The Environment has changed

The Market has changed

We have changed

Logistics has changed





New logistics Scenario

Where the power and influence of shipping companies is increasingly important throughout the logistics chain

New Port Scenario





New Port Scenario



Where it is very easy to talk about the variation of the price of freight after but very difficult to do it before



APPEARANCE OF THE PORT INFO-STRUCTURES



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PORT INFO-STRUCTURES

PCS

PMiS

TOS

Port CDM

AUTOMATED ACCESS

....

SINGLE WINDOWS



INITIAL ANALYSIS, STUDY AND DESIGN BY SPECIALISTS IN SYSTEMS... & PORTS





Advantages?

An example: Container Loading/Unloading Lists (with automatic Customs Control of Export and Transshipments)

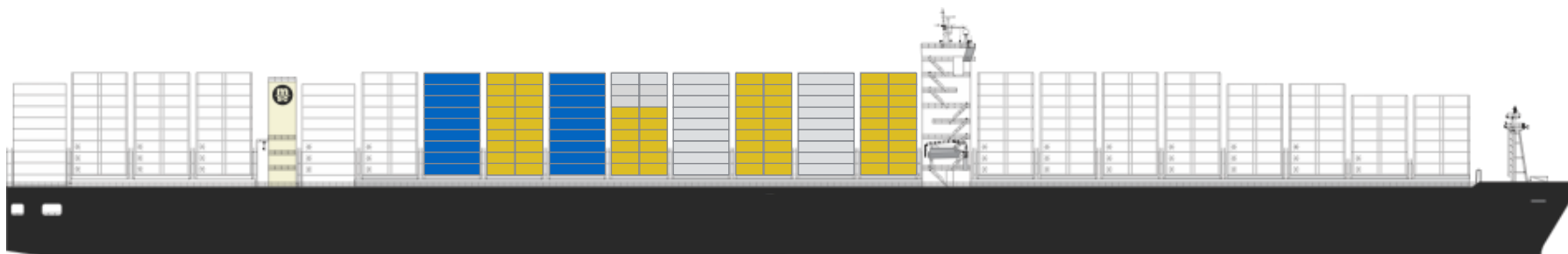


Efficiency and Benefits

Checking a list with 5,000 movements previously took 4 hours.

Now only 3 minutes

The time to verify the transshipped containers of a ship has been reduced tenfold, both for maritime agencies and for fiscal safeguard (customs)



An example:

Treatment of Container Loading / Unloading lists (with automatic Customs Control of Export and Transshipments)



Proceso	Agente involucrado	Situación anterior (minutos/partida)	Situación actual (minutos/partida)
Preparar documentación aduanera	Agente marítimo	5,4	0,4
Revisar documentación aduanera	Resguardo Fiscal	4,0	0,3
Preparar documentación aduanera	NVOCC	6,6	0,6
Resolver errores	Todos los agentes	30,0	0,5
Total		9,4 - 46,2	0,9 - 1,1

La siguiente tabla refleja típicos periodo de tiempo de proceso medido en minutos



Automatic Gate System



Proceso	Situación Anterior / Salida Manual (min/camión)	Situación anterior Salida Manual - Horas pico (min/camión)	Situación actual Salida Aut (min/camión)
Complete necessary processes to leave the terminal gate	2	15	0,4
Complete necessary processes to leave the port gate	2	15	0,3
Total	4	30	1,10

Puertos 4.0

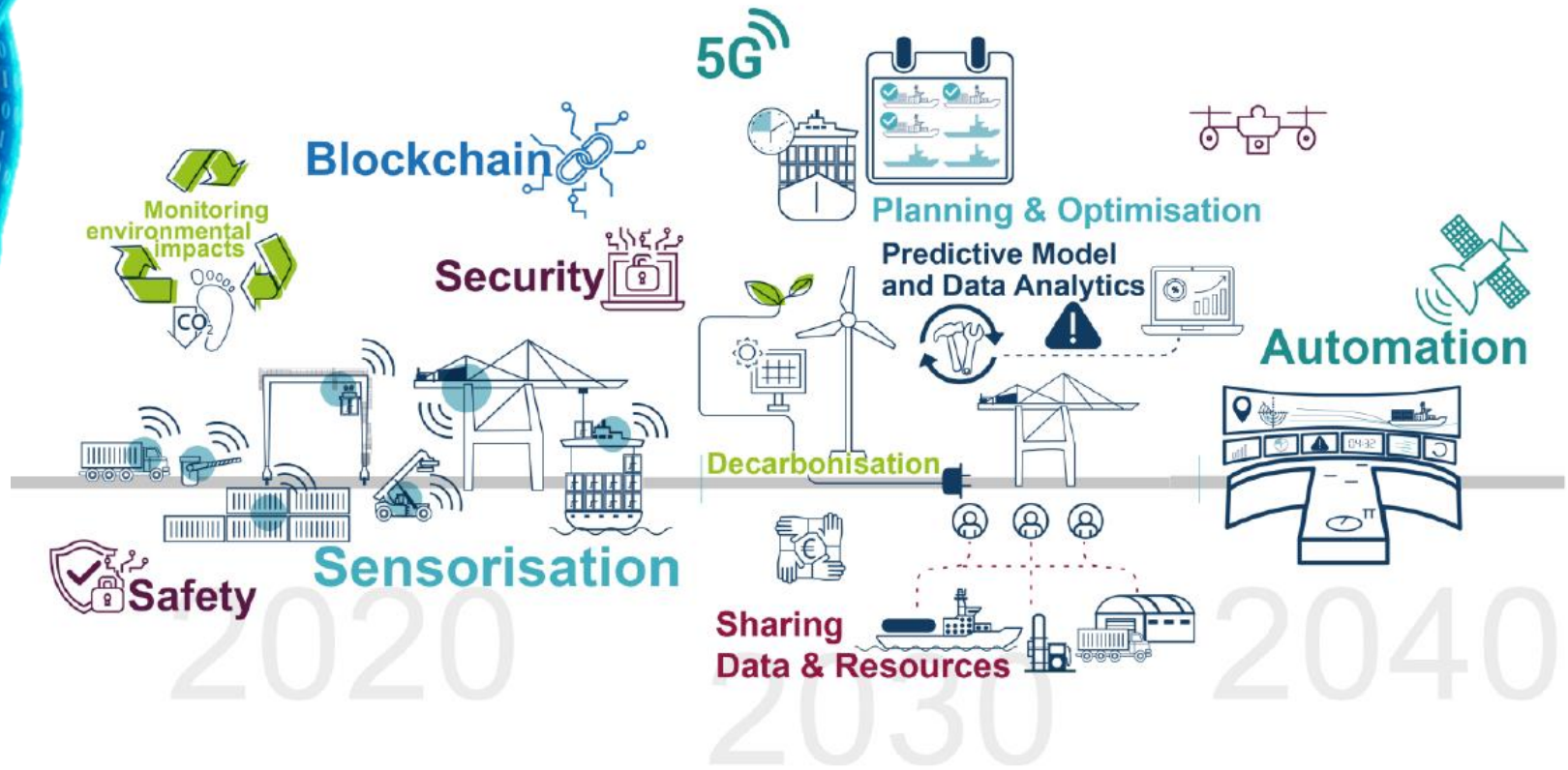


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SMART PORT



Banco Interamericano de Desarrollo









The Cherry on top



Competitiveness

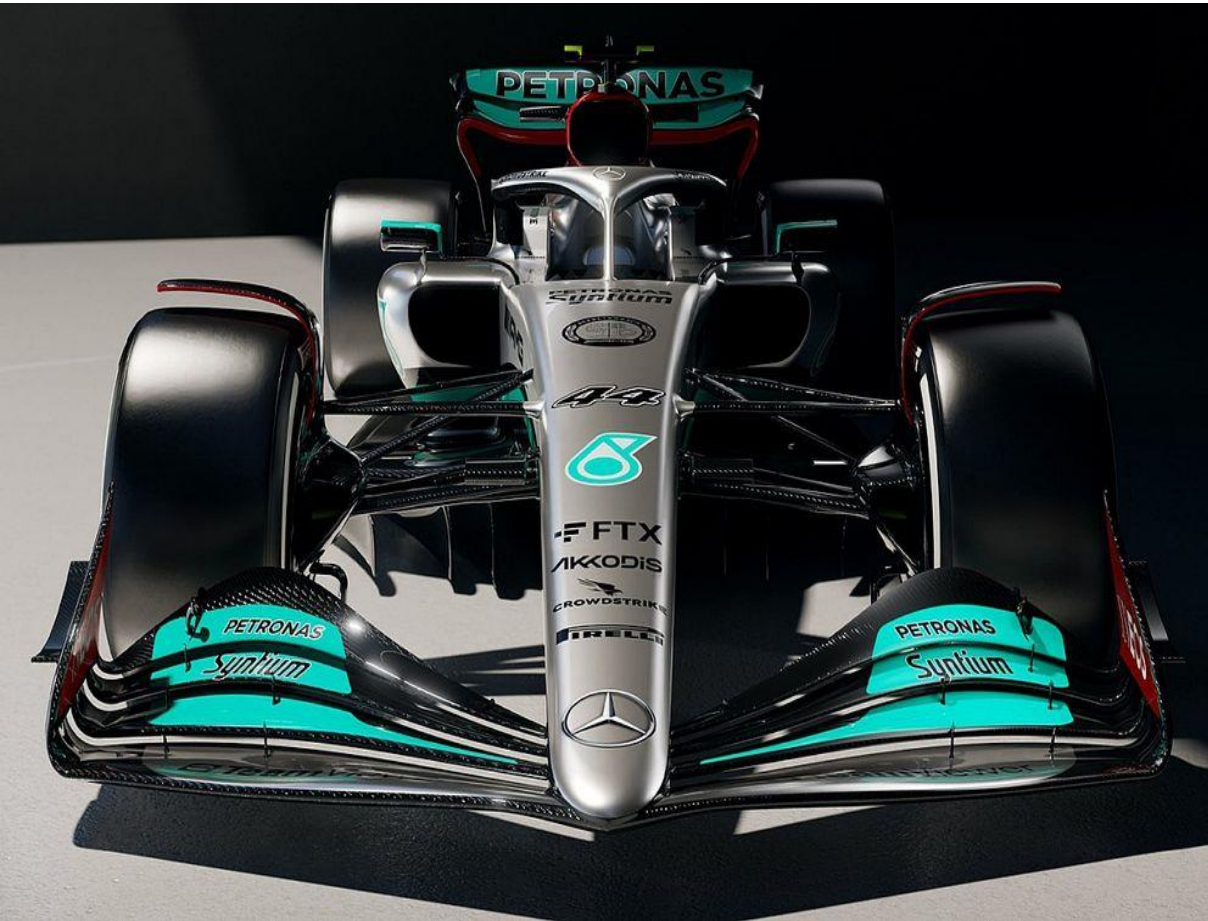


Ports compete with each other

How do ports compete?



Well, like everyone else.



Investing in the best resources



XXI century



TALENT

"...Special intellectual capacity or aptitude
that a person has for
To develop with great skill an activity..."

**BUT THAT ACTIVITY REQUIRES
TRAINING."**





How is Talent developed?

Training





MEDports TRAINING PROGRAM

DIGITAL TRANSFORMATION
INNOVATION AND DEVELOPMENT OF
SMARTS PORTS

2023



Why?

An aerial, black and white photograph of a large, open public square. The ground is paved with light-colored tiles in a grid pattern. Numerous people are scattered throughout the square, engaged in various activities: walking, standing in small groups, talking, and pushing a stroller. The scene is captured from a high angle, providing a clear view of the individual movements and interactions within the space. Two horizontal, semi-transparent dark grey bars are overlaid on the image, one above and one below the text.

Smart Ports

Smart People





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