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Sea-Change in Mediterranean Transport & Shipping **waves of container terminal concessions in MED region** **Outlook on Port Container Terminal Development** ***connectivity, environment & financing*** (27th of June 2019)

- Port Economics & Business- Policy, Governance and Strategy
- Mediterranean **Maritime Supply Chains**
- **Container Terminal Concessions** in the Mediterranean Region
Outlook on Port **Container Terminal Development**
- How **economic growth** translates into container traffic
- Mediterranean's Maritime **Infrastructures & Industrial Acceleration** - Successes
- **Qualified Human Capital** - Towards a Competitive & **Resource Efficient Transport System** – inclusiveness & training in Med. Ports



*While **Northern EU** box ports suffers from growth, the **Mediterranean** stays alive*

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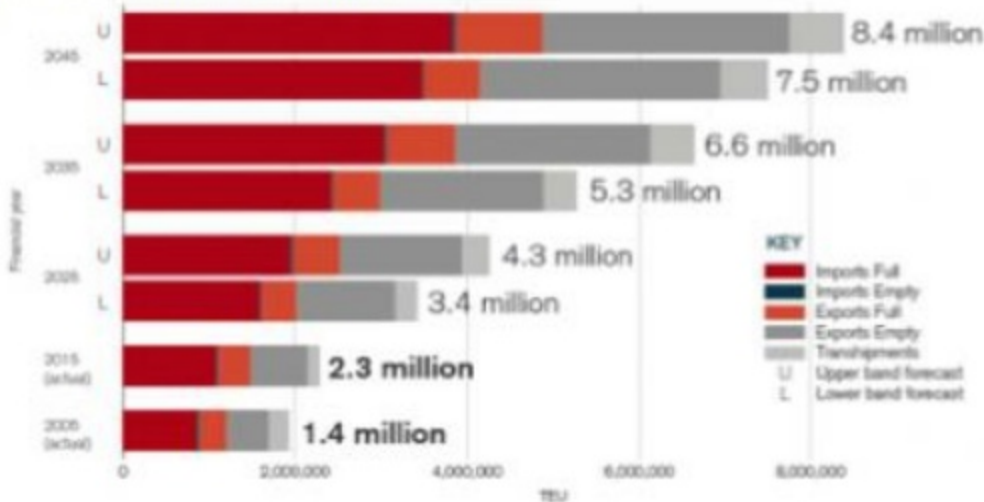
Containers are forecast to triple over next 30 years

Containers are forecast to grow in NSW from 2.4 million TEU now to between 7.5 million and 8.4 million TEU per year by 2045.

The key drivers of NSW container growth:

- domestic demand
- population growth
- strength of the NSW economy
- value of the Australian dollar
- levels of domestic manufacturing
- government trade policies
- location of key distribution centres

42% of all items in a NSW household come through Port Botany
(BIS Oxford Economics)



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Port Connectivity & Efficiency

- Ports play key role in transportation system
- Ports provide access to global value chains
- Ports act on behalf of exporters / importers

Growth of international trade, delocalisation and fragmentation of production result in growing importance of global value chains

Increasingly fragmented systems require **connected (glocal) cost-efficient transportation systems** to unite the different stages of production, enabling amassed **markets, market shares – faster & more efficiently.**

Multiple factors affect the choice of a port: carriers, logistics providers & shippers choose competitive ports:

- Proximity of production & consumption
- Hinterland connectivity & geographical location
- Maritime connectivity & nautical accessibility
- Port infrastructures and status of the port area
- Operational efficiencies & speed of handling
- Quality of port services, Pricing & cost

Improvement of competitiveness is basic to the positioning of ports in the value chains

ValenciaPort LSCI (Port Connectivity Index by LinePort of the Fundación ValenciaPort)

PUERTO ORIGEN	ICP 1er	ICP 2do	ICP 1er	ICP 2do	ICP 1er	ICP 2do
	Semestre 2016	Semestre 2016	Semestre 2017	Semestre 2017	Semestre 2018	Semestre 2018
VALENCIAPORT	100.00	95.47	98.89	102.19	102.12	97.31
ALGECIRAS	75.26	78.44	87.64	88.75	85.86	83.85
BARCELONA	76.91	73.20	84.03	84.94	89.42	83.57
LAS PALMAS DE GRAN CANARIA	26.42	26.89	26.94	27.98	29.54	29.55
CASTELLÓN	26.63	24.10	31.88	28.37	29.55	29.45
VIGO	18.74	16.70	15.78	18.43	19.65	20.48
BILBAO	23.67	16.86	18.44	18.75	20.15	18.96
MALAGA	--	-	-	2.04	8.22	17.81
GIJÓN	12.82	6.15	9.15	9.24	11.91	12.87
TARRAGONA	12.38	13.40	15.71	14.95	11.33	11.58

Mediterranean and other transshipment regions





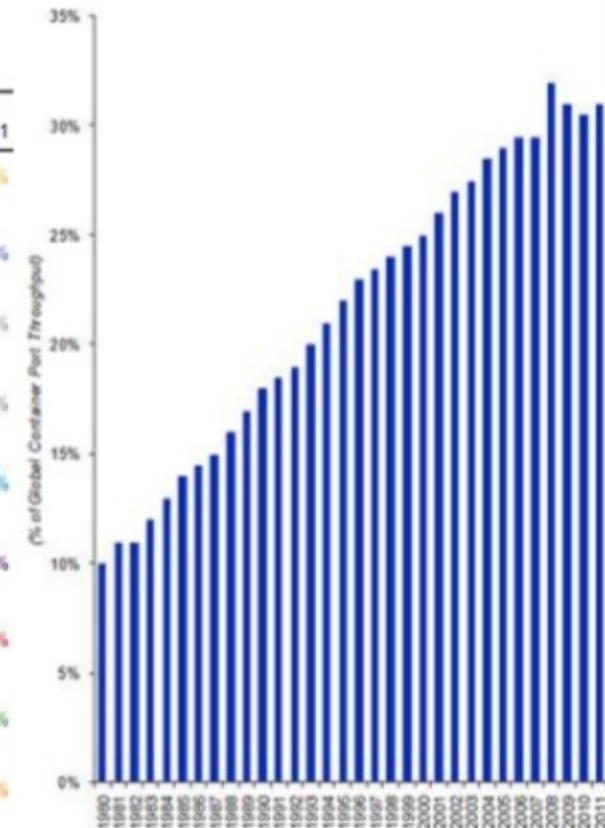
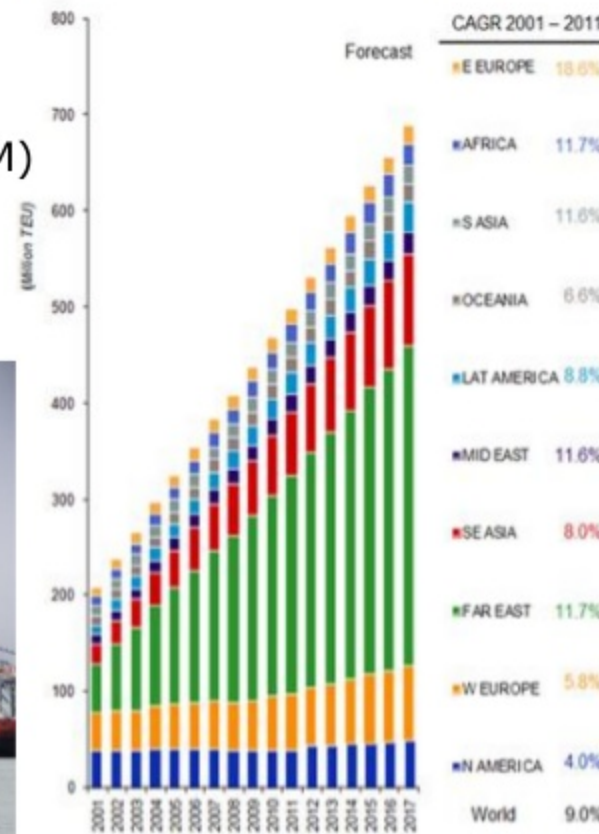
Main Players in the Container Port Terminals

- DP World
- PSA
- APM (Maersk)
- CMA-CGM (+ CEVA Logistics)
- TIL/MSK Terminals
- COSCO
- Yilport (also invests in CMA-CGM)
- ICTSI
- Global Ports Holding
- Hutchison Port Holdings, ...



Development of transhipment

Historical and forecast development of volumes by region

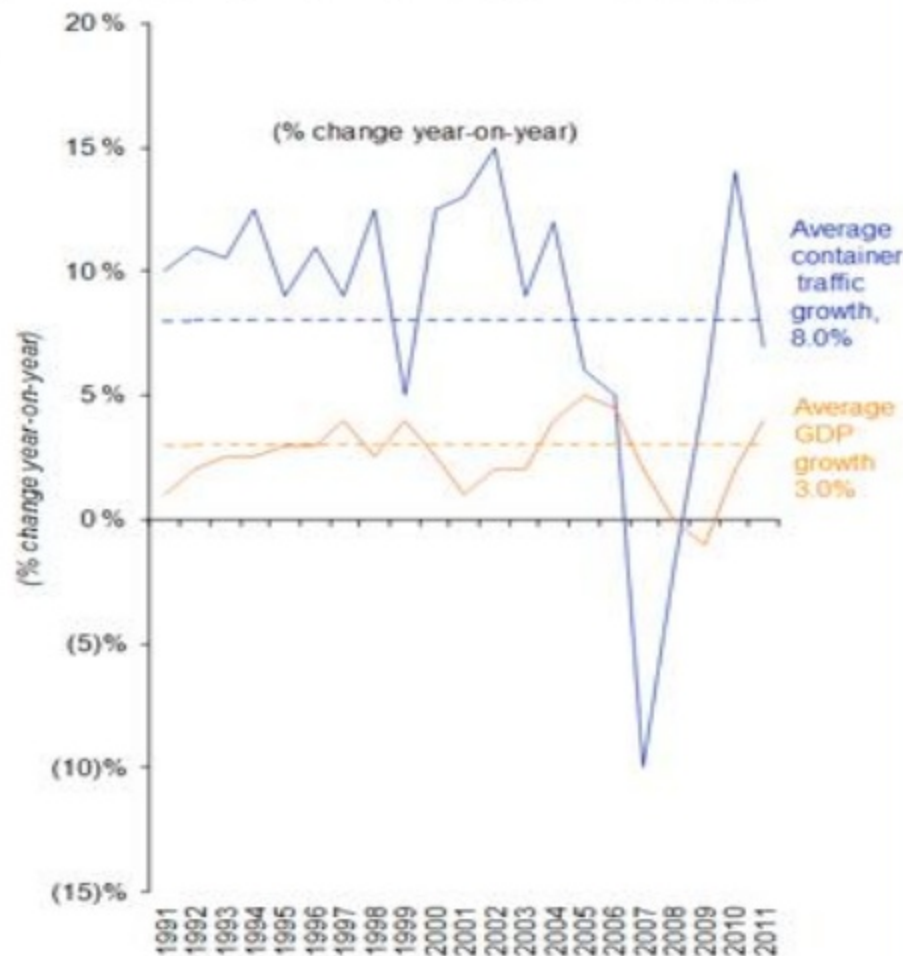


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Key Container Terminal Market Characteristics

- Container terminals: **interface** between container **shipping lines & markets**
- Terminals **manipulate** containers, **store and transfer** containers, serve **multimodal hinterland**
- Terminals are **relay points** in the **maritime networks**, transshipping containers on feeders, allowing shipping lines to increase **market coverage** and **reduce network costs**
- Terminals **income generation**: handling/storing containers for carriers
- **Container trade growth** has a strong correlation to **economic growth** and **regional/national GDP**



serving as best

indicator of prospective container volumes

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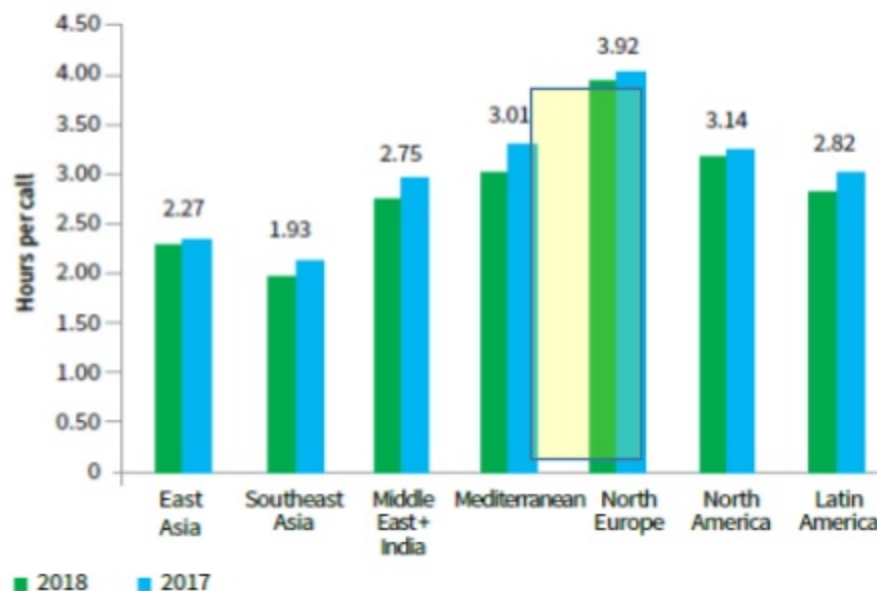
Major Container Ports Productivity by IHS Markit

greatest improvement in Average Hours Port to Berth

Port	2017	2018	Reduction	Improvement (%)	Port	2017	2018	Reduction	Improvement (%)
Manila	8.70	2.98	5.72	65.8%	Valencia	4.02	3.22	0.80	19.9%
Santos	3.70	2.44	1.26	34.1%	Colombo	3.88	3.14	0.74	19.1%
Long Beach	3.81	2.92	0.89	23.3%	Rotterdam	5.67	4.63	1.04	18.3%

- **6 key performance metrics**
 - Port productivity ships >10K TEU
 - Average Hours Port to Berth
 - Average port time
 - Arrival berth to first move
 - Moves contribution by ship size
 - Moves per crane
- Data is provided by largest global and mic-sized shipping lines players **+160,000 port calls/year** and 464 container ports around the world, **67% global container capacity**

Average Hours Port to Berth by Region



www.ihsmarket.com/maritime_trade



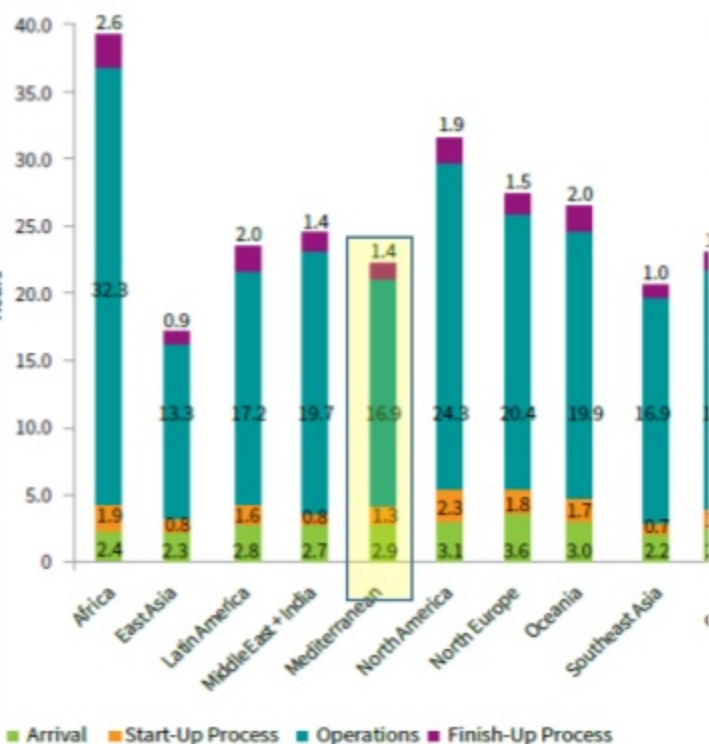
Major Container Ports Productivity by IHS Markit

Mediterranean area performs average – ahead of North EU, but behind Asia, ME, SE-Asia – room for further improvement

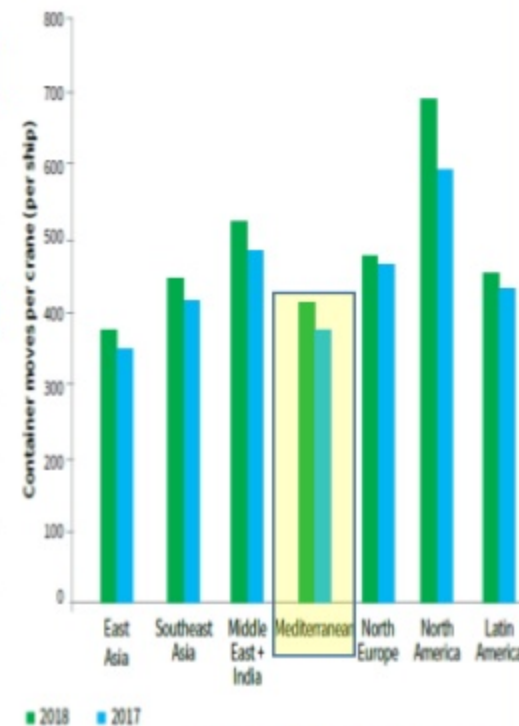
Average Port Time Overview in 2018

Arrival Berth to First Move Most Improved Ports in 2018

Moves per Crane Development 2018 V. 2017



Port	2017	2018	Reduction	Improvement (%)
Port Said	1.42	0.81	0.61	43.1%
Tanjung Pelepas	0.73	0.46	0.27	37%
Salalah	0.65	0.41	0.24	36.9%
Valencia	2.14	1.46	0.68	31.8%
Callao	2.30	1.65	0.65	28.3%
Cristobal	2.43	1.82	0.61	25.1%
Singapore	0.78	0.61	0.17	21.8%
Guayaquil	2.61	2.05	0.56	21.4%
Jawaharlal Nehru	0.98	0.77	0.21	21.4%



www.ihsmarket.com/maritime_trade

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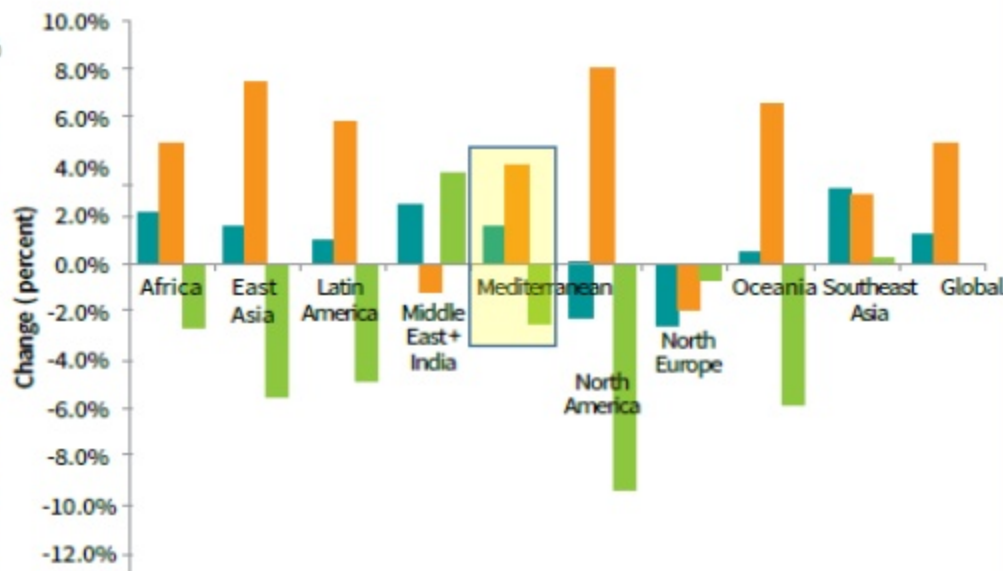
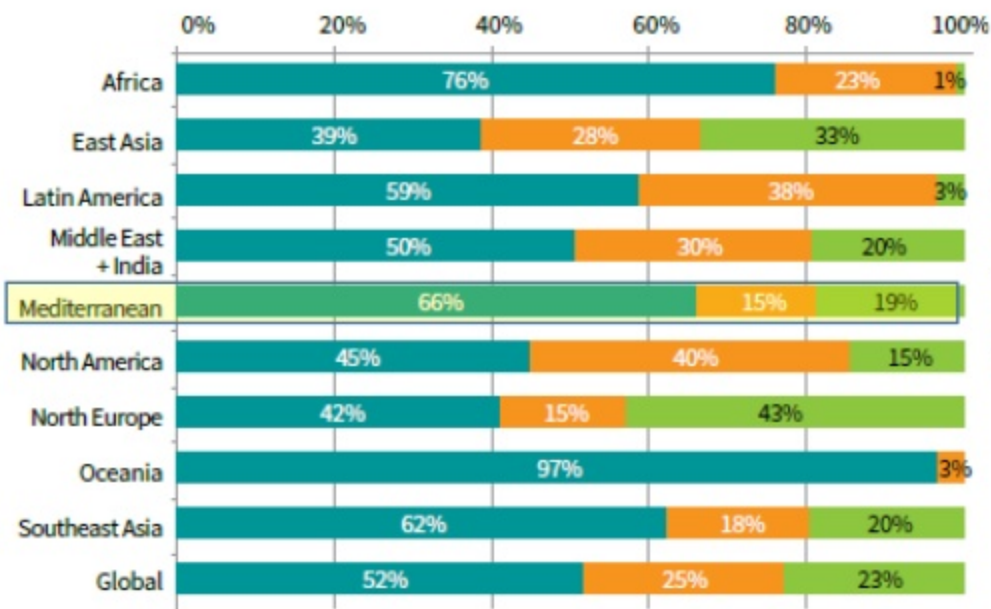


Major Container Ports Productivity by IHS Markit

Mediterranean **slower** on moves per crane development receiving **more <8K TEU - less calls of larger-sized ships**

Moves Contribution by Ship Size in 2018

Port Productivity Development: 2017 V. 2018



TEU Capacity ■ <8K ■ 8K-12K ■ >12K

■ Port-Moves-Per-Hour (PMPH, Call Size / Port Hours)
■ PMPH Weighted to Account for Call Size Growth
■ Call size

www.ihsmarket.com/maritime_trade

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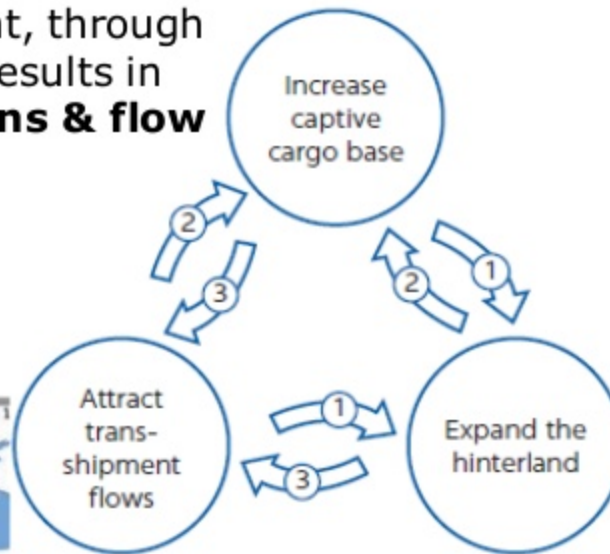


Mediterranean Maritime Strategies

Mediterranean markets and its associated shipping and port activities

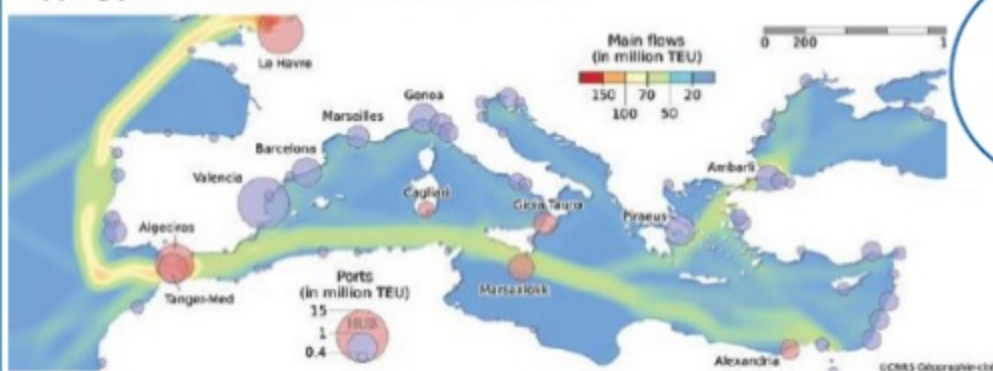
"Port Efficiency and Hinterland connectivity in the Mediterranean Maritime Networks" a study by **WorldBank** (2017): strong and collaborative private-sector participation drives:

- economic growth** = container traffic increase + new capacity and greenfield development, through private and public sector collaboration, results in
- **effective optimization in operations & flow**
 - **infrastructure investments**
 - **terminal capacity increase**



1. Hinterland expands, with more maritime connectivity, from transshipment activity and/or when inland destination benefits from the economies of scale of a strong captive cargo base.
2. Captive cargo increases as better maritime and hinterland connectivity expand the market potential of logistics and production activity in the port vicinity.
3. Transshipment develops as hinterland and/or captive cargo activities expand because the port becomes more attractive to call at for shipping lines.

Shipping patterns in the Mediterranean, 2009-16



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Mediterranean Maritime Networks

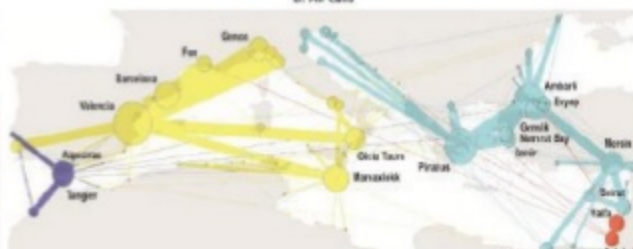
Subnetworks in the Mediterranean, 2015

a. Direct/adjacent calls



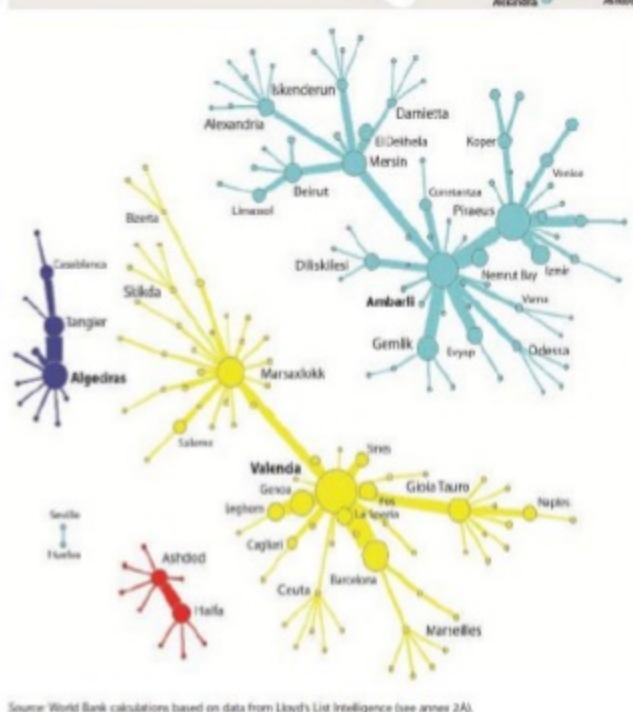
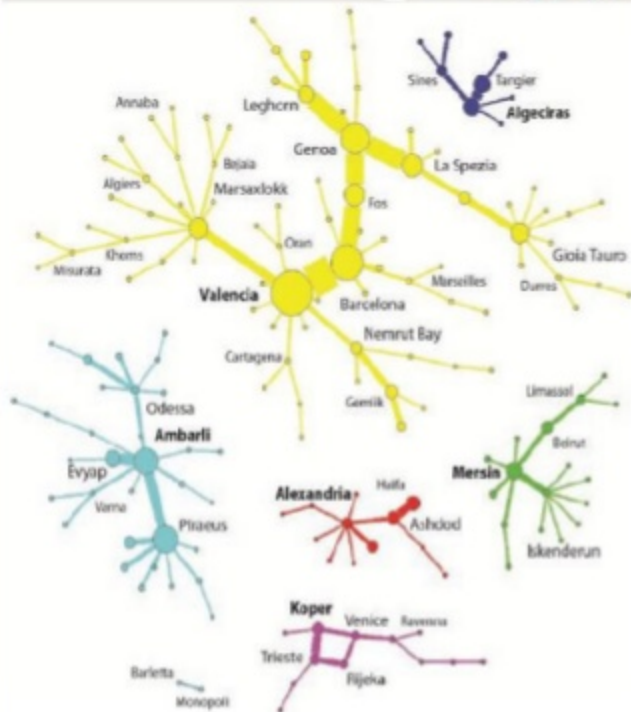
FIGURE 2.8, Continued

b. All calls



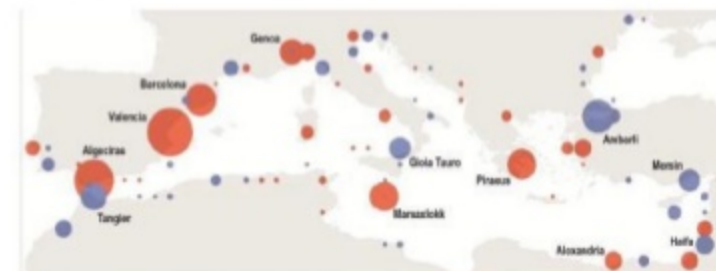
The combination of import/export and transshipment and hinterland connectivity creates **port clusters** with direct and adjacent liner calls

Six port clusters grouped according to traffic trajectory



Source: World Bank calculations based on data from Lloyd's List Intelligence (see annex 2A).

Average vessel turnaround time versus number of vessel calls in the Mediterranean, 2009-16



Source: World Bank calculations based on data from Lloyd's List Intelligence (see annex 2A).

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Mediterranean Hinterland Connectivity

land nodes served by Marseilles port, 2016



Indicators of good approach:
Corridor Governance Structure
and **Performance Monitoring**
along international corridors from
port to the hinterland

Tanger Med is two ports in one



Barcelona's hinterland network, 2010



In the EU the concept of core corridors to connect all EU countries is a cornerstone of the EU transport policy
- **the TEN-t Core Network** -
(INEA - MoS - PoF Network)

MED region is both **a trading area and a transit area** linking Europe & North Africa with the rest of the world through the **hinterland connectivity** and the **hub-and-spoke structure of maritime networks.**

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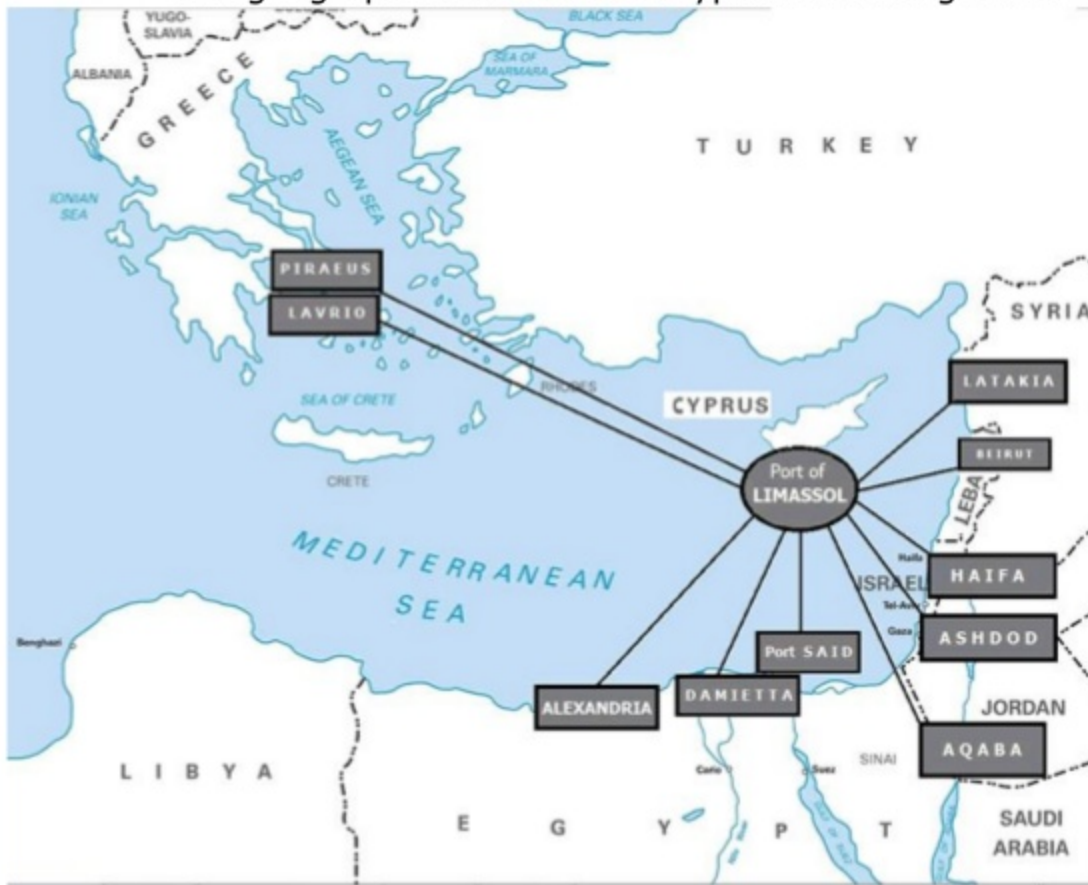


Mediterranean Short Sea Shipping

Short Sea Shipping – Port of Limassol Cyprus

+ 90% of its seaborne transport is currently SSS

The geographical location of Cyprus encourages the use of its ports as transshipment hubs for SSS



data-sharing and eliminating supply chain bottlenecks to reduce time at ports improve Short Sea Shipping performance and efficiency

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Key Connectivity Points

Connectivity

- Import / Export & Transshipment
- **Hinterland** Container Terminals
- **Multimodal**, Multipurpose and Multiproduct
- Multimodal **connectivity**: Road, Rail, IWW
- **Connectivity** with shipping lines, PCS and port portals AND among port terminals
- **BRI/OBOR** initiatives and the **EU TEN-t Corridor Network** development have impacts in Asia, Eur-Asia, ASEAN, Africa, Middle-East and across the Mediterranean region



Only **supply chain actors** which go through the **digitalisation transformation** of Industry 4.0 or Port 4.0 and **connect + enable connection** will remain their **competitive advantage**. Over time, those that do **not adapt** will vanish from the **integrated connected supply and value chain** (goods, data and financial flow).

Port Terminals need to be **SMART connected**

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Key Technology Points

How to successfully fuse physical and digital infrastructure

WEF: \$14.2 trillion new global wealth through 4IR by 2020

Time for industry members to join up and develop comprehensive innovation strategies

- **Cyber Security:** deal with existing and emerging criminal cyber-attacks.
- **Next wave of innovation in terminal operating system (TOS)** (e.g.: NAVIS)
- **Blockchain** (TradeLens, bolero.net)



- **EU SAURON project** asset management
- Automating **Predictive Maintenance**
- Improving **inventory efficiencies** and **shipment / cargo visibility**



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Key Technology Points

- **Fully automated terminals** towards **autonomous** vessels, machinery and vehicles, through extended use of 5G, IoT, AR/VR, AI, intelligent online containers
- **APM** to implement landside infrastructure to operate **electric-powered equipment**



move towards **SMART CONNECTED terminals**

Information & cargo flow go hand in hand, synchronized & securely optimized, improving quality & reducing overall supply chain cost for all stakeholders

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Key Environmental Points

- **LNG-powered container ships** require container port terminals to have LNG terminal in its vicinity
- **Green Terminal: ECO** machines, **ECO** ports, **ECO** terminals
- **Eco-efficiency** projects (e.g.: Valencia aims for **ZERO-emission**)
- extra costs arising from **low sulphur cap** may benefit Mediterranean ports on Asia-Europe trade

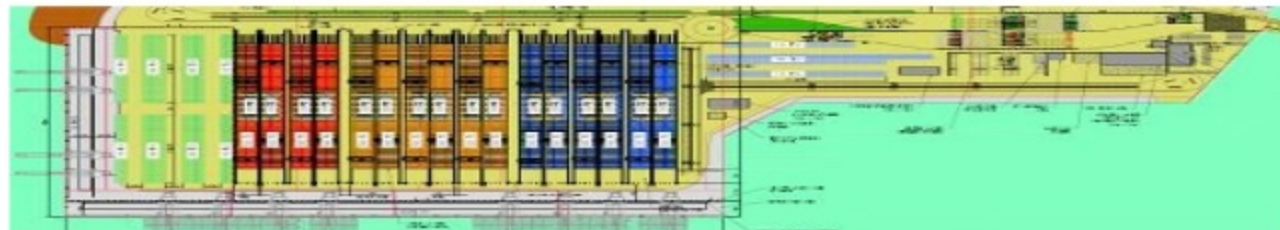
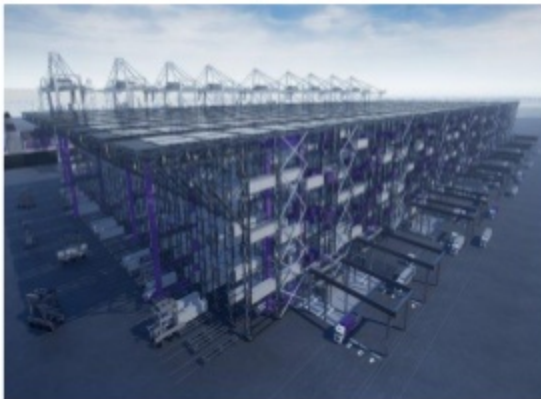
move towards **eco-friendly terminals**

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Key Infrastructure Points

- Adapting to **mega-AGE**: megaships and shipping industry consolidation, challenges for port and terminal operators, with acute concerns raised over **uneven distribution of benefits**, forcing continual port upgrades
- economies of scale in shipping creating **diseconomies in ports** and the onward land transport chain
- Port and connecting landside infrastructure development is vital to trade and nations
- **private & public investments**: impacted by shipping industry developments
- **Remove workflow bottlenecks, raise KPI performance + terminal optimization** (DP World)



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Sector growth & expansion

- **New port developments** (Nador, Morocco; Derince, Turkey)
- **Expansion of concessions and terminal upgrades**
 - Tanger, Morocco; Rijeka, Croatia (ICTSI)
- **New concessions**
 - Valencia: TIL/MSK – phased fully operational in 5 years
by 2027: 3rd largest EU port, after Rotterdam and Antwerp
- **Take-over of concessions**
 - COSCO in Spain
 - YilPort in Italy and Portugal
- **extending their geographical and capacity reach**
- **Divest** from Port Terminal Operations or **merge** with large 3/4PL (e.g.: CMA-CGM)
- Focus **from/to transshipment**
(e.g.: MSC Valencia to move from transshipment to an open-box terminal)



While **Northern EU** box ports suffers from slower growth, the **Mediterranean** is in full swing
Future growth of ports will be limited!

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Key Financing Prompts

- **investors are taking a long-term view:** bankability built into the way concessions are structured
- **Poseidon Principles** for the shipping sector will influence the port terminal sector
- **Hard cash! Green and Sustainability Loan Market:** banks give a discount on loan rate based on the sustainability score of your project (BNP Paribas Fortis, ...)
- **Financing risks remain in Africa:**

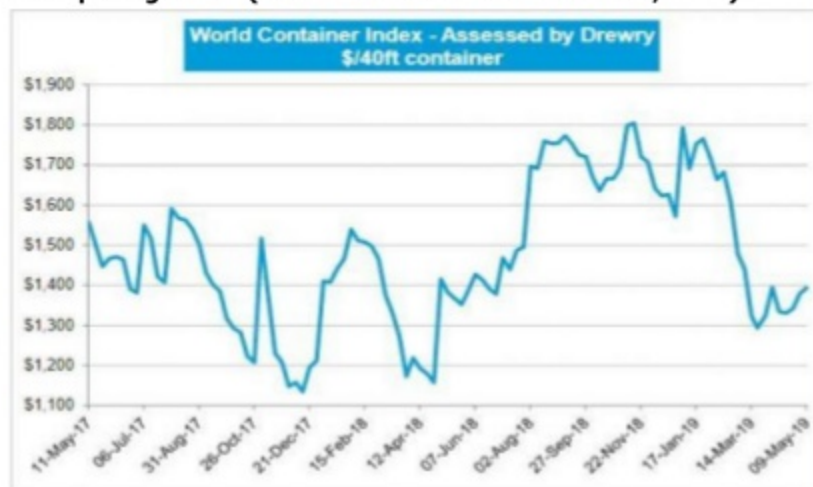
- serious risk of debt distress
- increased foreign-exchange
- refinancing risks, partly driven
- use of non-concessional financing
- foreign-currency borrowings



- **Money remains very cheap**
- **Drewry Port & Terminal Insights**

Comparative analysis of financial performance of 11 stock market listed terminal operators

(key financial trends, review of M&A activity & valuations best/worst performer listed operators, insights & benchmarks for ports & port terminals, terminal capacity & performance quay-line benchmark, ship-to-shore benchmarks, yard benchmarks)



investing in **ports of tomorrow** is more than a catchphrase

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Key Influencers

- **BRI-OBOR** and **EU TEN-t Corridor Network** affecting port terminals: new, upgrade, expand and closures (even entire ports)
- Port Terminal concession expansion and new terminals in **Latin America, Suez** and **Africa** lead to **capacity increases in Mediterranean**
- Some realized through transshipment ports with new and expanding terminals in existing and new **off-shore ports**
- **Pressure** from Port Authorities / OGA's, port-city relations, IMO and bank's on shipping lines to **reduce ecological footprint** require port terminals to be in line and partner up
- Increased volumes in **Short Sea Shipping** and **Feeder** operators increase volumes at transshipment ports and terminals with **RORO facilities**



FUTURE of Port Terminals: better connected, more consolidation, off-shoring, global presence, greener

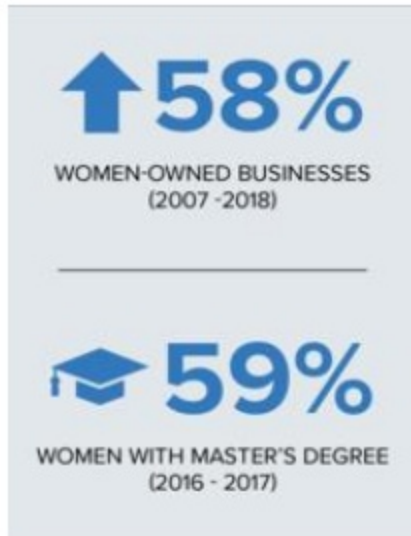
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Value of Women in the Workplace

more women than ever before are active in business and running companies

- Providing strong expertise
- Improving company performance
- Driving economic growth
- Meeting market demands



54% show improvements in **creativity, innovation, openness** and enhance their **company's reputation** from **gender inclusivity**

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Other Topics of Importance

- **Transforming terminals in MEGA-age** (e.g.: DP World Antwerp optimization of terminal through technology, infrastructure + starting to coordinate between terminals)
- **Multimodal platforms**
- **Regulations differ across EU countries**
- **Public to private PCS and port portals**
- **Tracking and tracing** of containers
- **Energy optimization** and **RE-mix**
- **SMART traffic + parking areas**
- **Industry consolidation**
- **Trade wars** and **political** to **worse conflicts**
- Identifying **opportunities, risks, vulnerabilities** and **regional trends**
- Utilizing port technology to **enhance supply chain risk management**
- **Collaboration & partnerships** among **key players prevent supply chain risk - rapid response to threats - impact on business success**



Port terminals connect distributed supply chains

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aivp

The worldwide network
of port cities

UN SDGs related to Port-City Relationships the AIVP Agenda 2030

Port-cities face **sustainable development challenges**

Port-cities are also the **best scenarios to test innovative solutions**

Need for an **holistic approach to sustainable development**

- **10 goals indicating the main challenges**
- **46 measures for action**

inspiring port and city actors to act upon
and maximize the investment & resources

www.aivp.org

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AIVP Agenda 2030: Connecting 10 Goals in Port-Cities to 17 UN SDG's

Port City of the Future



- 1 NO POVERTY**
- 2 ZERO HUNGER**
- 3 GOOD HEALTH AND WELL-BEING**
- 4 QUALITY EDUCATION**
- 5 GENDER EQUALITY**
- 6 CLEAN WATER AND SANITATION**
- 7 AFFORDABLE AND CLEAN ENERGY**
- 8 DECENT WORK AND ECONOMIC GROWTH**
- 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE**
- 10 REDUCES INEQUALITIES**
- 11 SUSTAINABLE CITIES AND COMMUNITIES**
- 12 RESPONSIBLE CONSUMPTION AND PRODUCTION**
- 13 CLIMATE ACTION**
- 14 LIFE BELOW WATER**
- 15 LIFE ON LAND**
- 16 PEACE, JUSTICE AND STRONG INSTITUTIONS**
- 17 PARTNERSHIPS FOR THE GOALS**

1 ANTICIPATING THE CONSEQUENCES OF CLIMATE CHANGE FOR RIVERS OR MARITIME CITY PORTS

2 MAKING OUR CITY PORT TERRITORIES CENTRAL TO THE ENERGY TRANSITION AND CIRCULAR ECONOMY IN REAL SYNERGIES WITH THE DIFFERENT LOCAL STAKEHOLDERS

3 IMPROVING MOBILITY IN THE CITY PORT AND COMBATING URBAN CONGESTION

4 PROMOTING CITY PORT DIALOGUE THROUGH A REVISED GOVERNANCE APPROACH AIMED AT RECONCILING THE QUEST FOR ECONOMIC AND ENVIRONMENTAL PERFORMANCE WITH THE WELL-BEING AND ASPIRATION OF THE POPULATION

5 INVESTING IN HUMAN CAPITAL AND DEVELOPING PORT CITIES IN A WAY THAT PROVIDES RESIDENTS, YOUNG TALENTS, PROFESSIONALS AND EXPERIENCED WITH THE SKILLS NEEDED FOR THEIR OWN PERSONAL DEVELOPMENT AND FOR THE COMPETITIVENESS OF THE PORT COMMUNITY

6 PROMOTING AND CAPITALISING ON THE SPECIFIC CULTURE AND IDENTITY OF PORT CITIES AND ALLOWING RESIDENTS TO DEVELOP A SENSE OF PRIDE AND FLOURISH AS PART OF A CITY PORT COMMUNITY OF INTEREST

7 MAKING PORT CITIES KEY PLAYERS IN THE SEARCH FOR SUFFICIENT, QUALITY FOOD FOR ALL

8 PROVIDING RESIDENTS LIVING IN PROXIMITY TO PORT ACTIVITIES WITH HOUSING, RECREATIONAL AND CULTURAL AMENITIES IN CITY PORT INTERFACE ZONES

9 IMPROVING LIVING CONDITIONS FOR RESIDENTS OF PORT CITIES AND PROTECTING THEIR HEALTH

10 RESTORING AND PROTECTING BIODIVERSITY ON LAND AND AT SEA IN PORT REGIONS AND CITIES

1 Identifying all types of phenomena and their consequences that Port territories could experience whether understanding urban and digital territories, integrating spaces and facilities open to society and actions aimed at port location and strategic mobility, infrastructure and environment.

2 Identifying smart systems for monitoring and controlling food resources that are not all the logistic chain in the urban.

3 Identifying food needs by measuring change capabilities for both import and export of products/organisms.

4 Promoting the creation of Port Cities.

5 Promoting city citizens, city users and stakeholders in port and city for their interests, preferences, experiences and shared interests.

6 Identifying how your personal culture needs impact cities.

7 Developing smart systems for monitoring and controlling food resources that are not all the logistic chain in the urban.

8 Identifying food needs by measuring change capabilities for both import and export of products/organisms.

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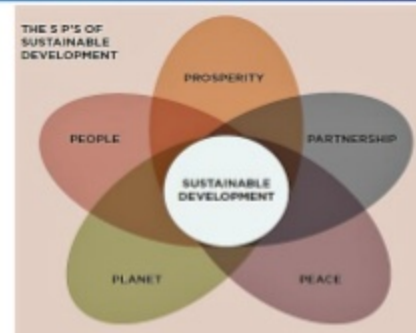
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The worldwide network
of port cities

AIVP Agenda 2030

- 01 Climate Change Adaptation**
Preparing city ports for the consequences of climate change
- 02 Energy Transition & Circular Economy**
Innovative sustainable energy and industry for city port territories
- 03 Sustainable Mobility**
Finding new mobility connecting city and port
- 04 Renewed Governance**
Using innovative governance for sustainable port cities
- 05 Investing In Human Capital**
Human capital for port and social development
- 06 Port Culture & Identity**
Local port Identity as a key asset for sustainable relationship
- 07 Quality Food For All**
City ports are crucial for sustainable food distribution
- 08 Port City Interface**
Port city interface is a resource to mix different programs
- 09 Health & Life Quality**
Having good living conditions a priority for the city port
- 10 Protecting Biodiversity**
City port biodiversity must be preserved and protected



results incorporated in
EU-INEA/H2020 project



DOCKSTHEFUTURE
defining the concept of "Port of the Future"

Port of the Future Network
www.docksthefuture.com



PortForward

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Port of Antwerp vision 2030-2050

Port Community as a Whole

www.portofantwerp.com/en



Subject	Contribution to Sustainable Development Goals
1. Shipping	3, 8, 9, 13, 14, 16, 17
2. Mobility	1, 3, 8, 9, 13, 17
3. Employment & safety at work	3, 4, 5, 8, 10, 11, 16, 17
4. Economic activity	8, 9, 12, 17
5. Nature & environment	3, 6, 8, 9, 11, 12, 13, 14, 15, 16, 17
6. Energy & climate	7, 13
7. Research & innovation	9, 10, 17
8. Society	3, 4, 8, 9, 11, 16, 17
9. Circular economy	9, 11, 12, 17
10. Safety & security	8, 11, 16, 17

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Port Community as a Whole

www.portofantwerp.com/en

<p>SHIPPING</p> <ul style="list-style-type: none"> 3 GOOD HEALTHY PEOPLE AND WELL-BEING 8 DECENT WORK AND ECONOMIC GROWTH 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 13 CLIMATE ACTION 14 LIFE BELOW WATER 16 PEACE, JUSTICE AND STRONG INSTITUTIONS 17 PARTNERSHIPS FOR THE GOALS 	<p>MOBILITY</p> <ul style="list-style-type: none"> 1 NO POVERTY 3 GOOD HEALTHY PEOPLE AND WELL-BEING 8 DECENT WORK AND ECONOMIC GROWTH 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 13 CLIMATE ACTION 17 PARTNERSHIPS FOR THE GOALS 	<p>EMPLOYMENT AND SAFETY AT WORK</p> <ul style="list-style-type: none"> 3 GOOD HEALTHY PEOPLE AND WELL-BEING 4 QUALITY EDUCATION 5 GENDER EQUALITY 8 DECENT WORK AND ECONOMIC GROWTH 10 REDUCED INEQUALITIES 11 SUSTAINABLE CITIES AND COMMUNITIES 16 PEACE, JUSTICE AND STRONG INSTITUTIONS 17 PARTNERSHIPS FOR THE GOALS 	<p>ECONOMIC ACTIVITY</p> <ul style="list-style-type: none"> 8 DECENT WORK AND ECONOMIC GROWTH 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 12 RESPONSIBLE CONSUMPTION AND PRODUCTION 17 PARTNERSHIPS FOR THE GOALS 	<p>NATUUR EN MILIEU</p> <ul style="list-style-type: none"> 3 GOOD HEALTHY PEOPLE AND WELL-BEING 6 CLEAN WATER AND SANITATION 8 DECENT WORK AND ECONOMIC GROWTH 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 11 SUSTAINABLE CITIES AND COMMUNITIES 12 RESPONSIBLE CONSUMPTION AND PRODUCTION 13 CLIMATE ACTION 14 LIFE BELOW WATER 15 LIFE ON LAND 16 PEACE, JUSTICE AND STRONG INSTITUTIONS 17 PARTNERSHIPS FOR THE GOALS
<p>ENERGY AND CLIMATE</p> <ul style="list-style-type: none"> 7 AFFORDABLE AND CLEAN ENERGY 13 CLIMATE ACTION 	<p>RESEARCH AND INNOVATION</p> <ul style="list-style-type: none"> 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 10 REDUCED INEQUALITIES 17 PARTNERSHIPS FOR THE GOALS 	<p>SOCIETY</p> <ul style="list-style-type: none"> 3 GOOD HEALTHY PEOPLE AND WELL-BEING 4 QUALITY EDUCATION 8 DECENT WORK AND ECONOMIC GROWTH 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 11 SUSTAINABLE CITIES AND COMMUNITIES 16 PEACE, JUSTICE AND STRONG INSTITUTIONS 17 PARTNERSHIPS FOR THE GOALS 	<p>SECURITY</p> <ul style="list-style-type: none"> 8 DECENT WORK AND ECONOMIC GROWTH 11 SUSTAINABLE CITIES AND COMMUNITIES 16 PEACE, JUSTICE AND STRONG INSTITUTIONS 17 PARTNERSHIPS FOR THE GOALS 	<p>THE CIRCULAR ECONOMY</p> <ul style="list-style-type: none"> 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 11 SUSTAINABLE CITIES AND COMMUNITIES 12 RESPONSIBLE CONSUMPTION AND PRODUCTION 17 PARTNERSHIPS FOR THE GOALS

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Banks with a combined \$100bn shipping portfolio stimulate green change

11 major shipping banks join global framework to integrate *climate considerations into lending decisions* in line with **IMO's GHG strategy** to slash **industry's carbon footprint by 50% by 2050**

The 4 Poseidon Principles

Assessment of climate alignment

Measure carbon intensity of their shipping portfolios on an annual basis and assess their climate alignment relative to established decarbonization trajectories.

Accountability

Recognize societies' classification role in providing unbiased information, based on mandatory regulation established by IMO for collecting data on ships fuel consumption

Enforcement

Commit to contractual compliance with the Poseidon Principles in their new business activities, using standardized covenant clauses and collaborate with clients and partners

Transparency

Report portfolio alignment score annually, published by the Secretariat of the Poseidon Principles.



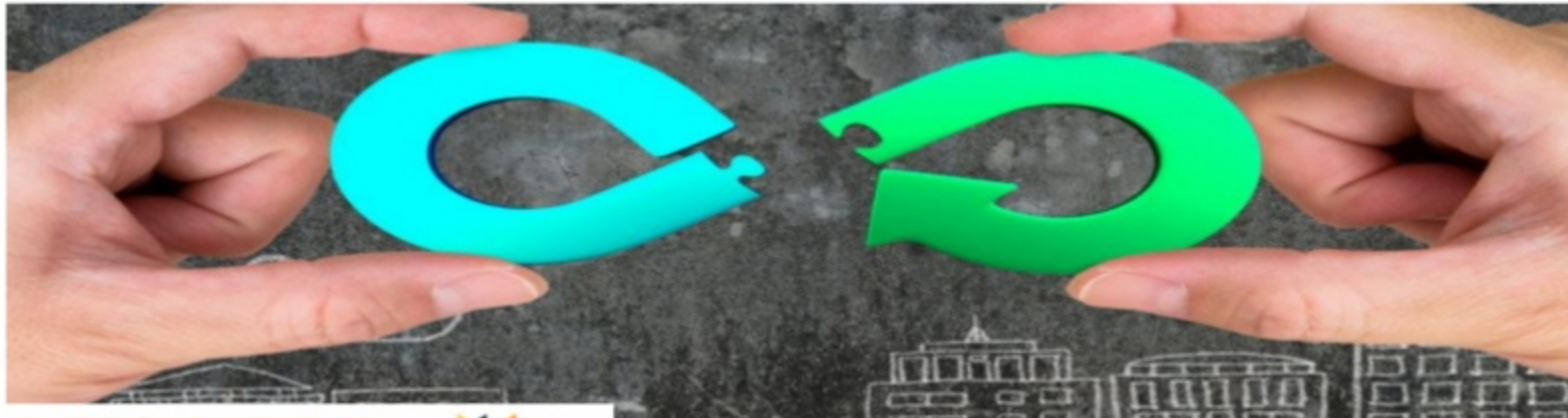
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PRINCIPLES

www.poseidonprinciples.org

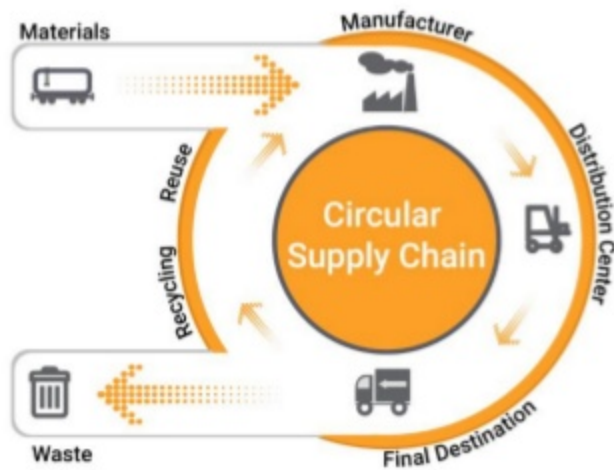
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Circular Supply Chains will replace Linear Supply Chains in the 2020's



Understanding the Circular Supply Chain



- Save Money and Grow Business Value
- Societal Benefits of the Circular Economy
- Recycling and Reusing protects against price volatility

Circular Supply Chains help companies **meet Regulation Standards**
"One man's trash is another man's treasure"

Circular Supply Chain is the Future

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UNDERSTANDING OF THE FRAMEWORK
WITHIN WHICH PORTS AND TERMINALS

Q&A

THEY PROVIDE QUICK AND EFFECTIVE
ANSWERS FOR PORT AND MARITIME

the future is now!

UP TO YOU TO GET THE MOST OUT
OF YOUR INVESTMENT AND OPTIMIZE
YOUR BUSINESS.



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