

Vital Ports

Driven by sustainable
value

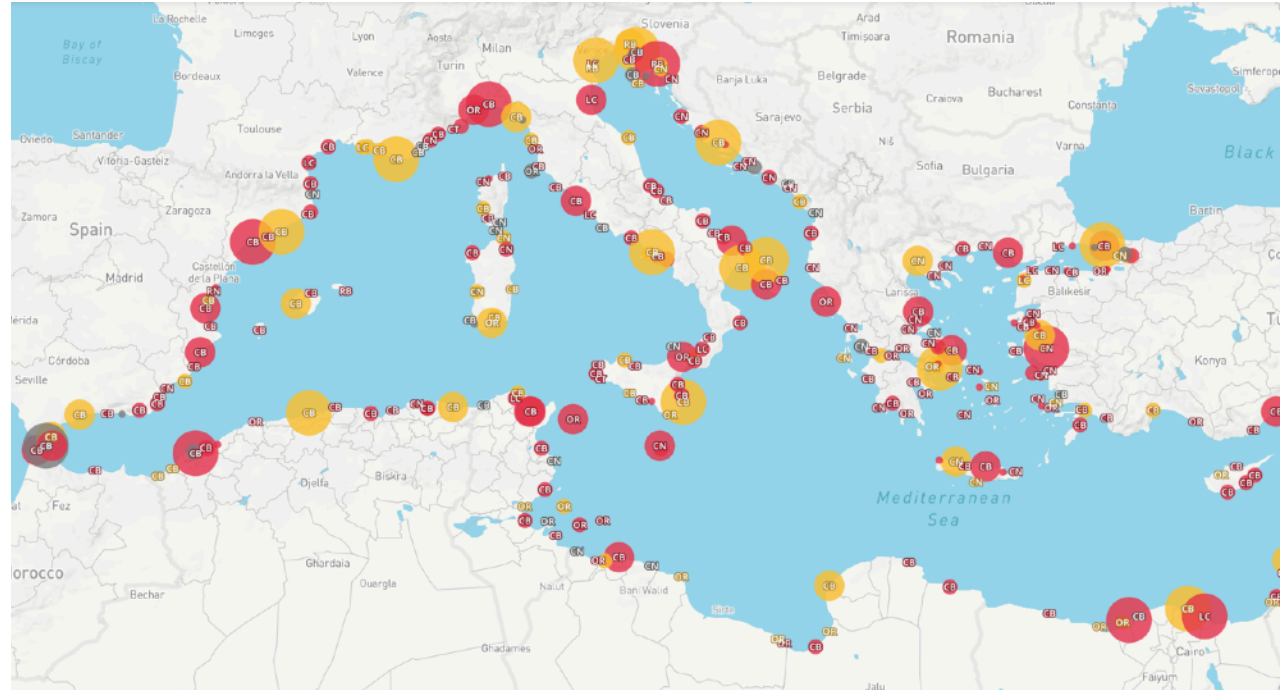
Dr. Arjan Hijdra

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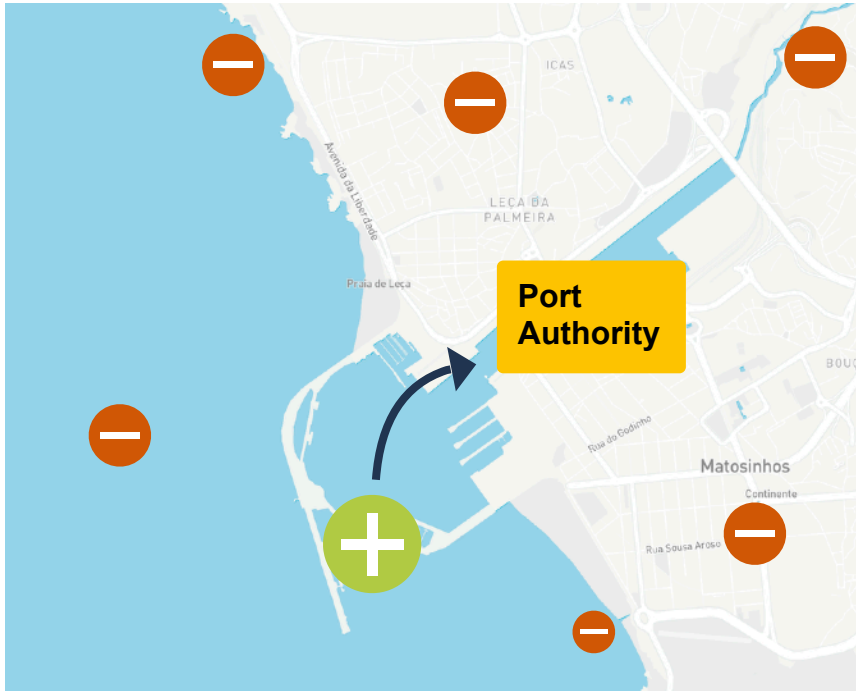
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Ports are Vital (Mediterranean interactive map can be converted to West-African interactive map)

- Ports facilitate maritime transport, are needed for 90% of global trade,
- Ports attract industry and determine hinterland transport
- Ports alter coastlines, and are influential for air and water quality, social and ecological systems
- 3500 mid-size cargo ports in the world,
- 10.000s of local ports (small islands) with dependent communities
- All need to act on climate change, sea level rise and environmental pressures



The Problem



Ports are driven by economic efficiency, causing various negative effects

The Solution



Apply sustainable solutions for greater societal value, value which can be used for port revenue streams

How do we do this?

- By flipping the mechanism from sustainability as a cost to sustainability as a source for revenues.
- When revenues underpin sustainable solutions, the rapid growing market of 'green investment funds' will drive scaling.

In practice this means:

- Use an ever growing portfolio of sustainable solutions covering waterside, urban environment, hinterland and energy.
- Map benefits to identify societal value
- Convert societal value to port-revenue-streams by using full spectrum of potential value capturing options.
- Dedicated workshops to determine most suitable solutions and value capturing structures for specific ports.

Example

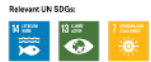
Convert value to port revenues

4.1 Mangrove forest restoration



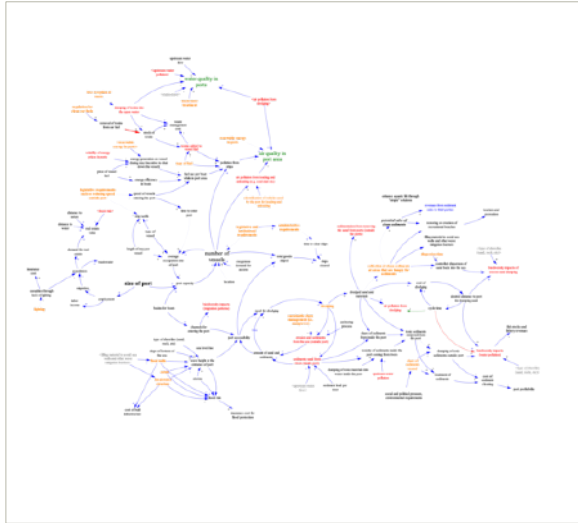
Sustainable Principle: Restoration of mangrove forests will reduce coastal erosion, reducing administration of adjacent regions on channels in a natural way.
Potential Benefits: Reduced need for dredging, rich marine life.

Description: Mangroves hold and prevent soil and restoration of mangrove woods can help reduce erosion of coastal lines. Reduced erosion will help avoid sedimentation of the deeper shipping channels and port cities which, as water velocities slow down, sediment will naturally fall down. Mangroves are critical coastal ecosystems that impact our lives. They nourish biodiversity as nursery grounds for many coastal and marine species and support fisheries. They buffer coastal communities against extreme weather events such as hurricanes, stable as coastlines and a way to reduce soil erosion.



Reference: [AVANTICORAL: THE ONLY PLATFORM TO SOLVE CHALLENGES IN BLUE ECONOMY SOLUTIONS](#)
[MANGROVE PROGRAM, BANGKOK](#)

Mapping value



Convert value to port revenues

Funding Mechanism	Beneficiaries	Measurement of Benefit	Finance Instrument	Cost Type		
				Upfront	Ongoing	
General Revenue	General public	General tax base growth	General fund allocation; property tax; transportation sales tax	●	●	
Value Capture	Restricted non-user beneficiaries	Landowners	Land Value Taxes	●	●	
			Property tax growth	Tax Increment Financing	●	
			Assessed special benefits	Special Assessment	●	
	Developers		Transportation utility	Transportation Utility Fees		●
			Off-site development opportunities	Development Impact Fees	●	
			Off-site access benefits	Negotiated exactions	●	●
User Fees	Users of transportation facilities	Development privileges	Joint Development	●	●	
		On-site development opportunities	Air Rights	●	●	
		Vehicle operators	Gas consumption	Gas Taxes	●	●
			Mileage	Mileage-based charges	●	●
		Passengers	Vehicle units/types	Vehicle sales tax; license tab fee; wheelage charges	●	●
General access rights	Tolling		●			
Demand-controlled access rights	Congestion pricing		●			
	Rights to incur environmental impacts	Transportation environmental taxes/fees		●		
	Ridership	Fare or permits		●		

Vital Ports...

Is a not-for-profit organisation leaning on partnerships, grants and donations

We aim to help out medium and small sized ports serving their dependent communities

We do so through research and education, translating evidence-based knowledge to practical formats

VITAL PORTS

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