



Global Collaboration Responding to Global Challenges

Mikael Lind

(Adjunct) Professor in Maritime Informatics

**Research Institutes of Sweden &
Chalmers University of Technology**



The maritime ecosystem is unique



- **Oldest** and **largest** sharing economy
- **Global**
- **Flat**
- **Self-organized**
- **Federated** and **democratic governance**
- **Asset intensive** with high demands on **optimized resource utilization**
- **Not allowing for one owner**
- **Episodic interactions**

“To INNOVATE the maritime ecosystem: a diverse group of thinkers and doers co-creating solutions to drive improvements in the value chain, industry, or ecosystem they belong to”



This talk highlights:

Two global challenges as examples when the self-organized ecosystem need to come together: CDM and Maritime Decarbonization

"Today's world faces global challenges that require co-creation and collaboration and the self-organising ecosystem of interdependent actors in the transport industry needs to contribute its fair share."



Collaboration is a game changer



			Creation of joint efficiencies for ...		
High	Degree of scope and complexity	Ecosystem	partners in a cross-industry value chain	peers in cross-industry value chains	partners and peers in cross-industry value chains
		Industry	partners in an industry value chain	peers in industry value chains	partners and peers in industry value chains
		Chain	partners in a company value chain	peers in parallel company value chains	partners and peers in company value chains
Low	Degree of integration and complexity	Vertical		Horizontal	Diagonal
		Low		High	

UNCTAD Prosperity for all

Home / News / Collaboration and digitalization for balanced economic and societal capital creation by shipping

Collaboration and digitalization for balanced economic and societal capital creation by shipping

13 December 2022

Written by Mikael Lind, Wolfgang Lehmacher, Richard T. Watson, Article No. 96 [UNCTAD Transport and Trade Facilitation Newsletter N°96 - Fourth Quarter 2022]

CDES: A New Paradigm for Navigating an Increasingly Complex World



Collaborative Decision Making (CDM)

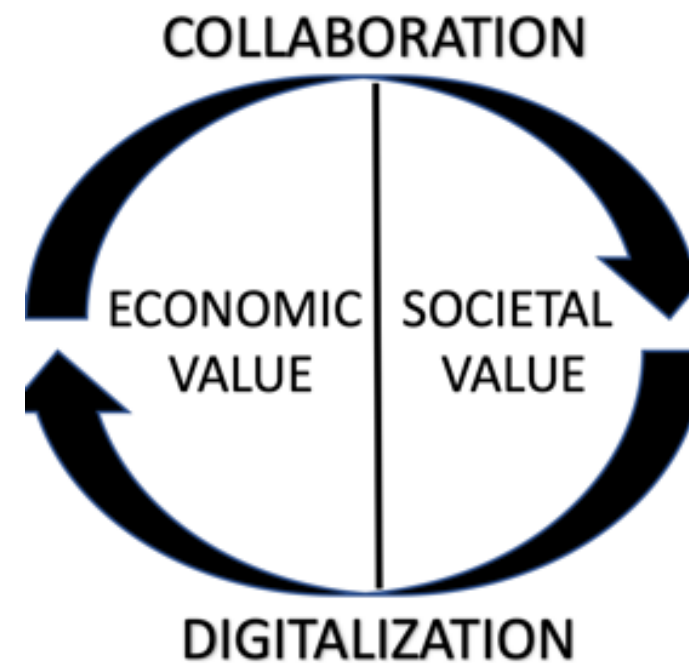
- Expanded planning horizons for enhanced predictability
- Common situational awareness
- Agreement on what data to share with whom and when
- Applied in different areas: AirportCDM, SeaportCDM, RailwayCDM, e2eCDM



Digitalisation and collaboration operating in symbiosis



All industries need to place greater emphasis on the interrelationship between *collaboration* (c) and *digitalization* (d), as this powerful duo impacts *economic* (e) and *societal* (s) success through enhancing human and social capital and preserving and restoring natural capital. Focusing only on one of both dimensions of each pair, either on collaboration or digitalization, or on economic or societal value, leads to suboptimal results.





Challenge #1: Transparent and resilient global supply chains



Engage the buyers of transport services in the change process

The shipper-driven
terminal-centric

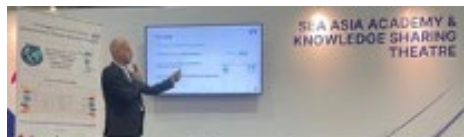
Virtual Watch Tower Network

Assisting Companies in Managing Disruptions
and Risks in Global Supply Chains

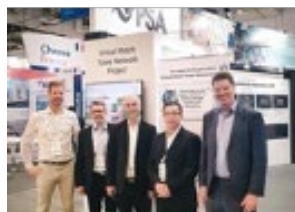




Global launch of VWT@SMW'23

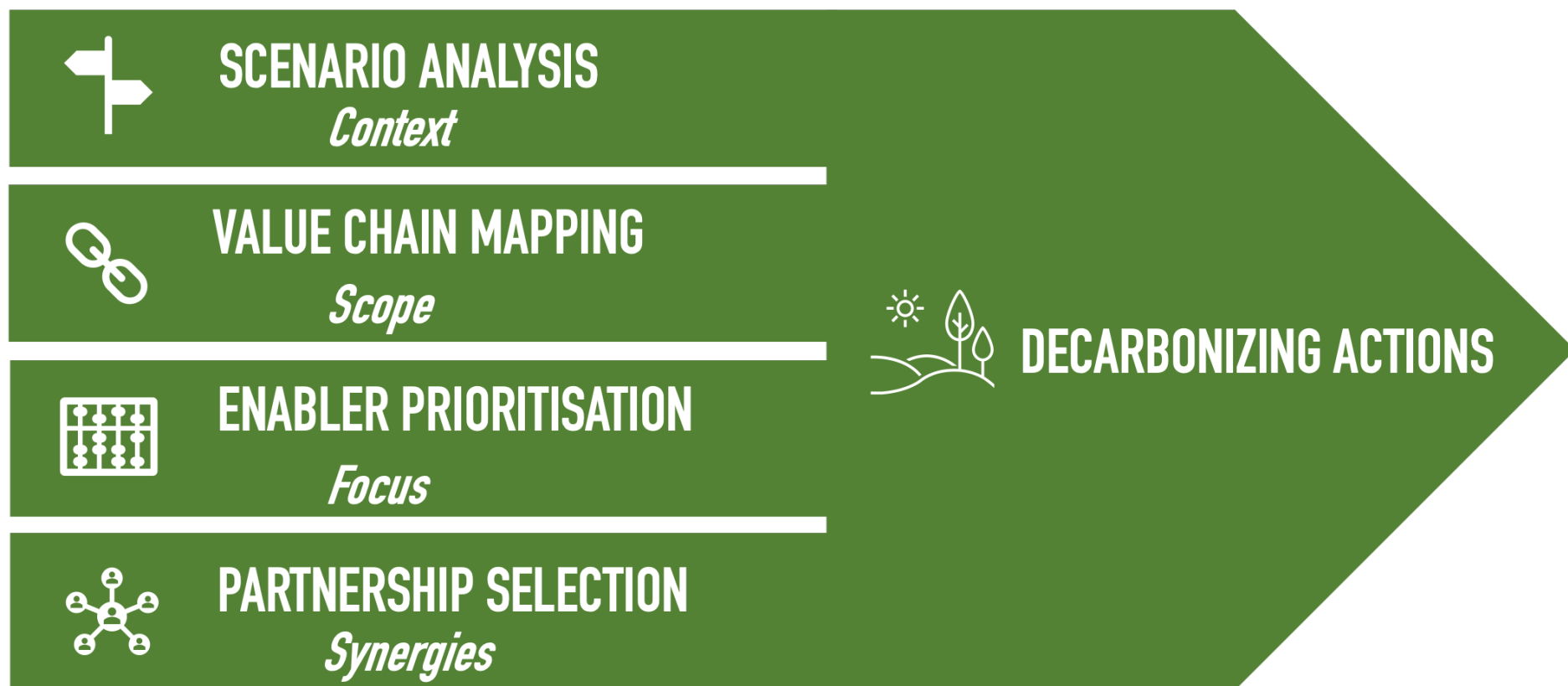


www.virtualwatchtower.org



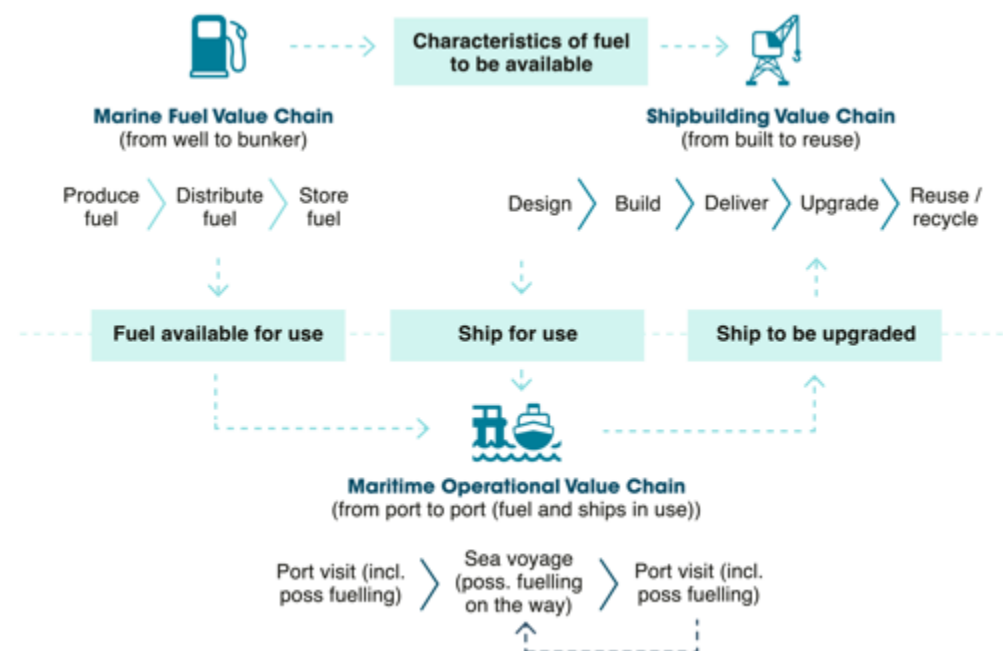
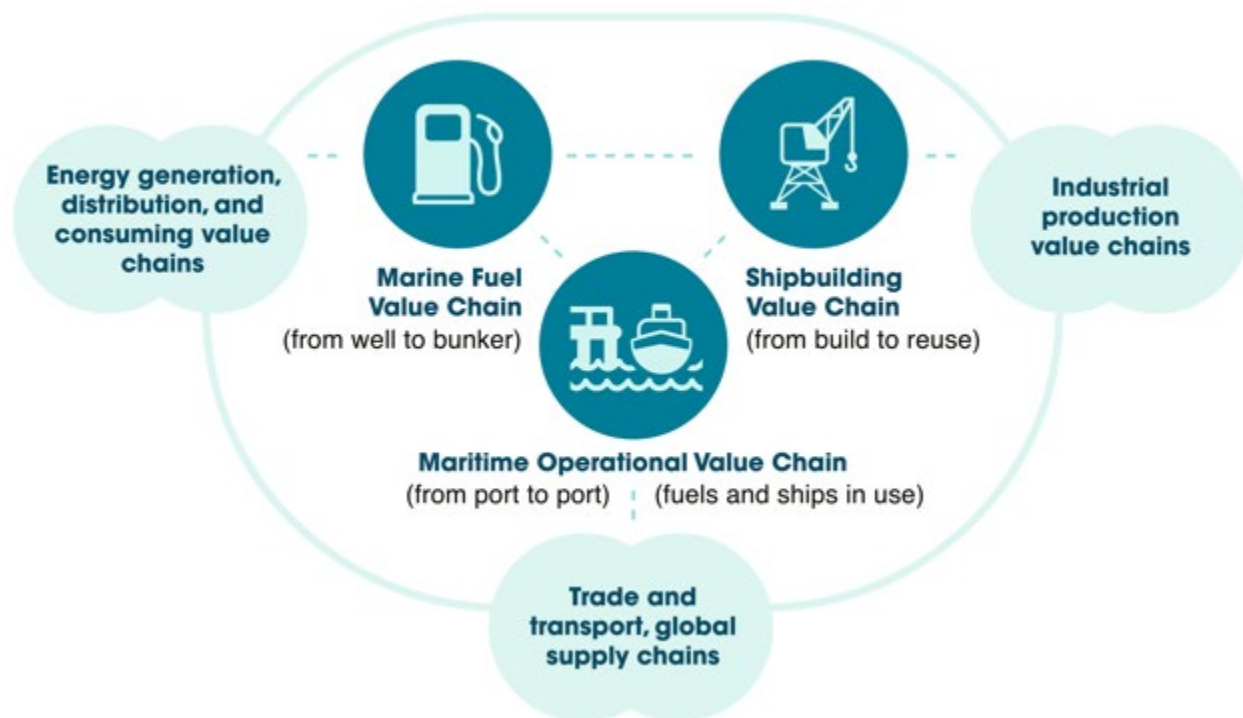


Challenge #2: Enabling Maritime Decarbonization



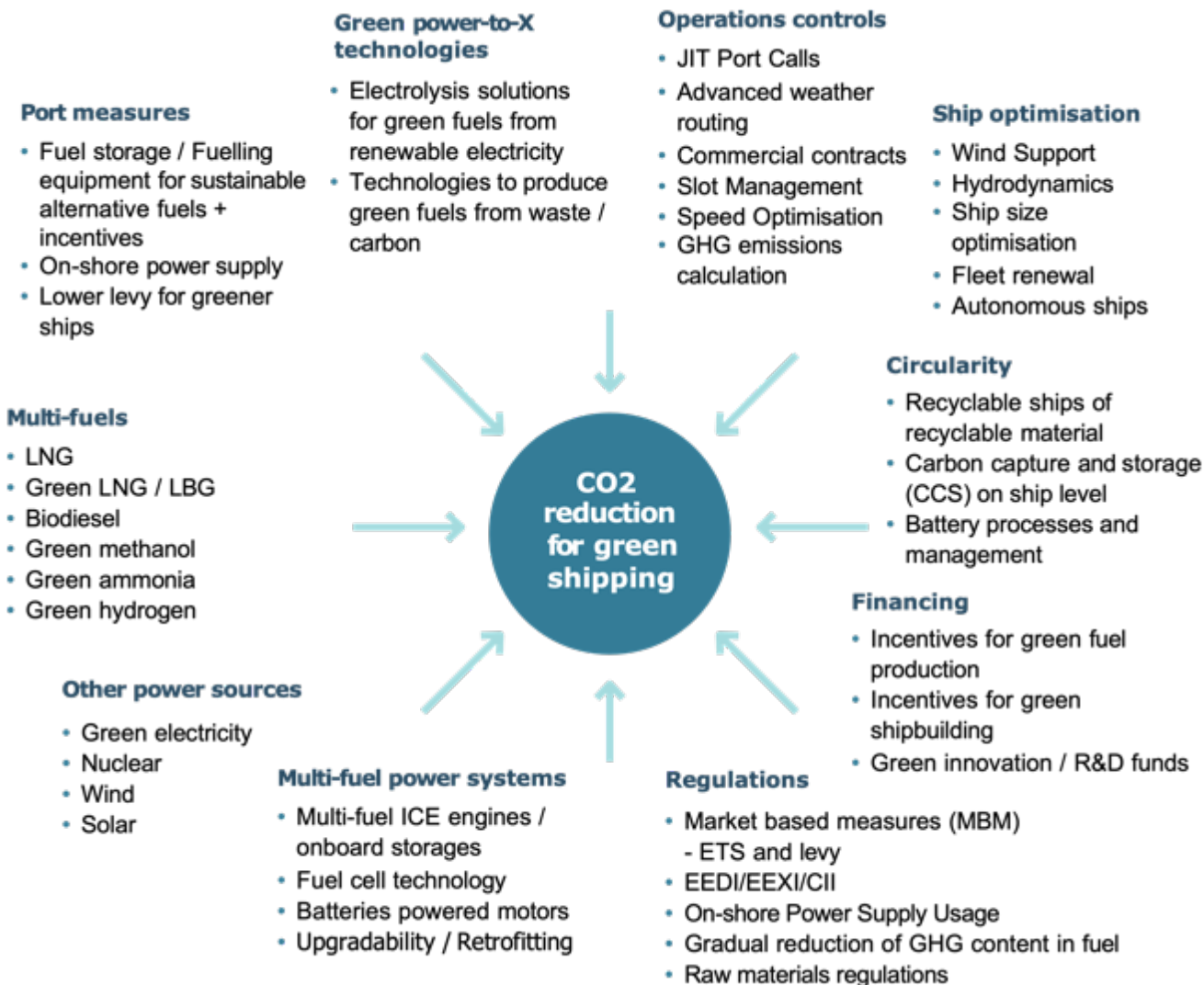
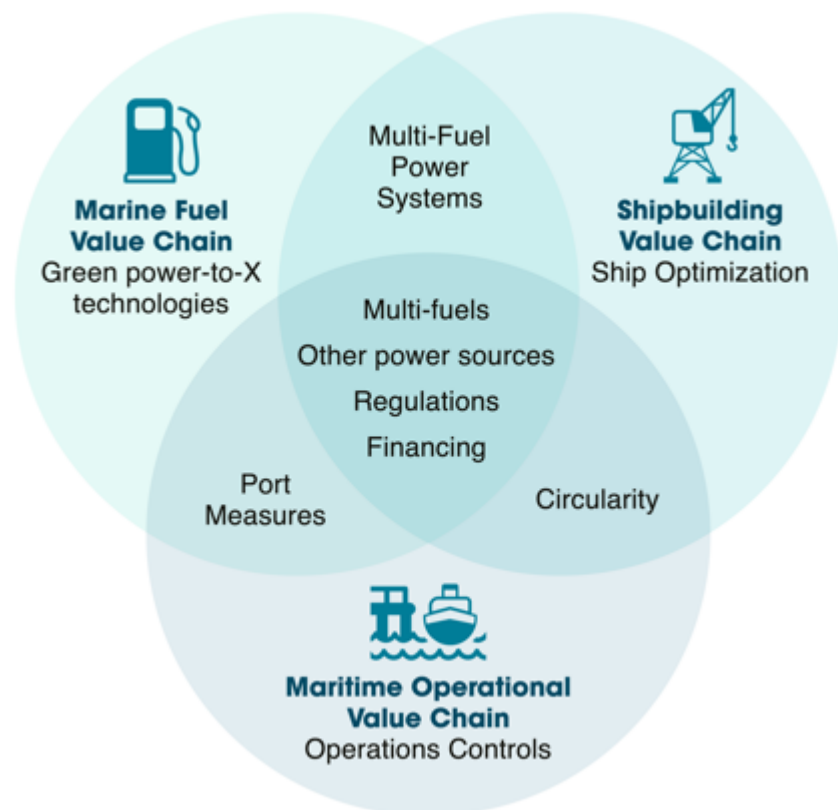


Foundational viewpoint: Interdependent value chains





Decarbonization enablers across interdependent value chains

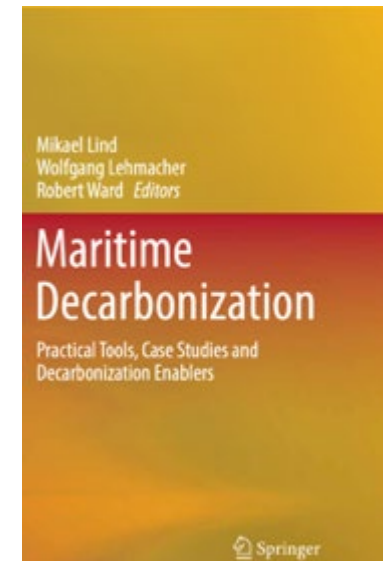




A book on Maritime Decarbonization



- Editors: Mikael Lind, Wolfgang Lehmacher, and Robert Ward
- 70 contributors from industry and academia
- Preface: Mobilizing for decarbonization
- Part 1: Outlining baseline and perspectives
- Part 2: A step by step concept for decarbonizing shipping
- Part 3: Bringing the four step-concept to life
- Part 4: Some critical success factors for fast and global decarbonization
- Part 5: Case studies: Selected maritime decarbonization initiatives
- Concluding remarks – calling for a holistic and inclusive approach





The ability to mobilise for collaboration and co-creation is critical in today's economy and society



- Collaboratively co-creating a novel approach to supply chain management
www.virtualwatchtower.org
- Collaboratively enhancing the knowledge base on Maritime Decarbonisation
www.maritime-decarbonization.org
- Collaboratively establishing Maritime Informatics as an applied research field
www.maritimeinformatics.org

