Certified B Corporation

Portxchange

Ports as battlegrounds for decarbonization

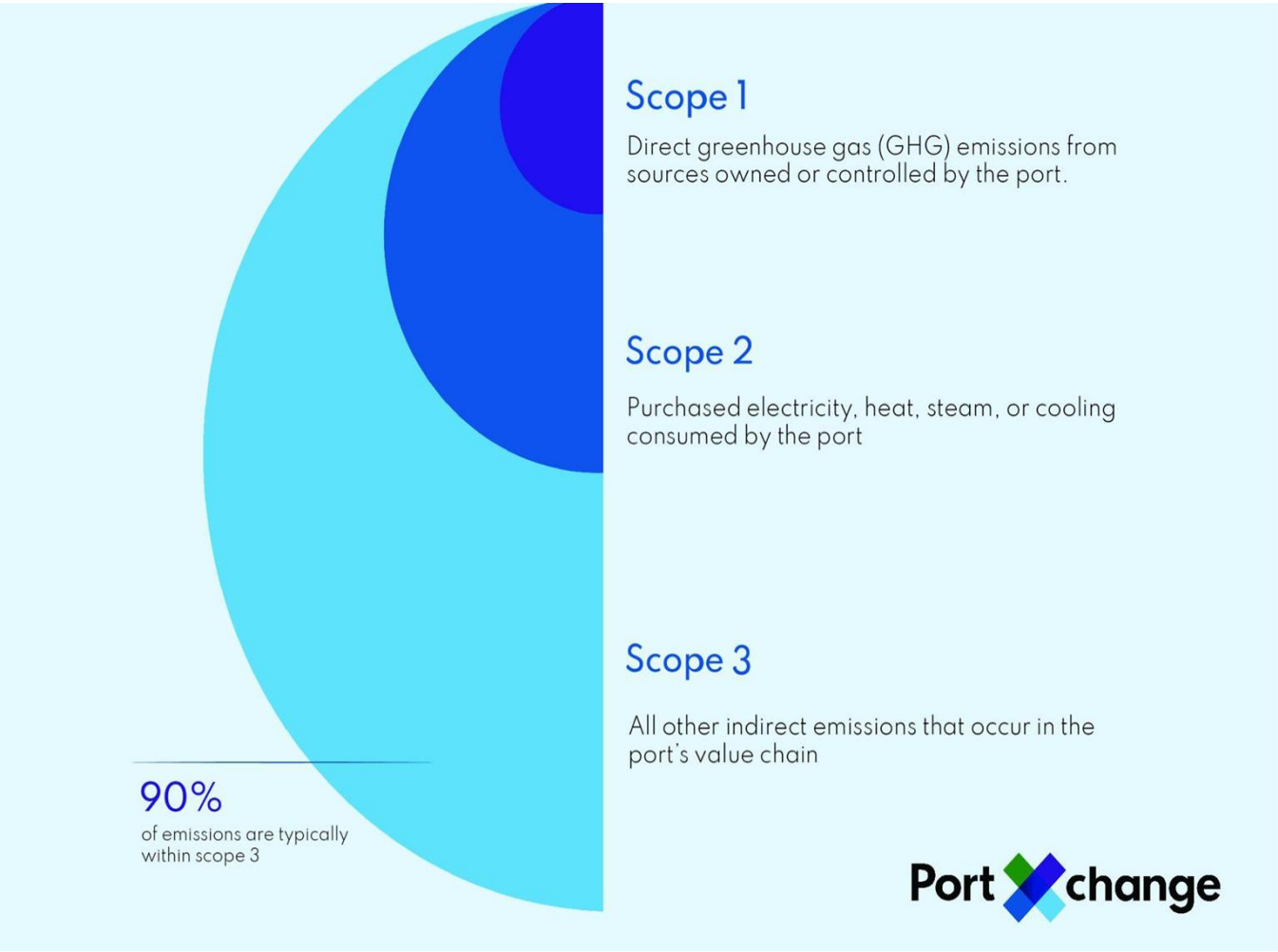
TOC Rotterdam 2025

Sjoerd de Jager
CEO, co-founder

Ports play a critical role in supporting the transition to net-zero emissions

Port Xchange

Scope 3 Emissions represent the largest bucket of emissions in a port



96%

PORT AUTHORITY NY NJ

Port change

Ports play a critical role in reducing vessel related emissions

- **Just-in-time sailing** needs to be facilitated by ports:
  - Terminal berth planning
  - Nautical service planning
  - Harbour fee discount

➢ Environmental impact:
  - **13 tons** bunker fuel saved / portcall
  - **39 tons** of CO_2 / portcall

- **On shore power**
  - Port of Rotterdam can save **2500 tons NOx** by applying on-shore power across terminals
  - Provide infrastructure for future fuel bunkering

Port change


If we can’t measure emissions, how can we manage them?

Needs and challenges with emission reporting

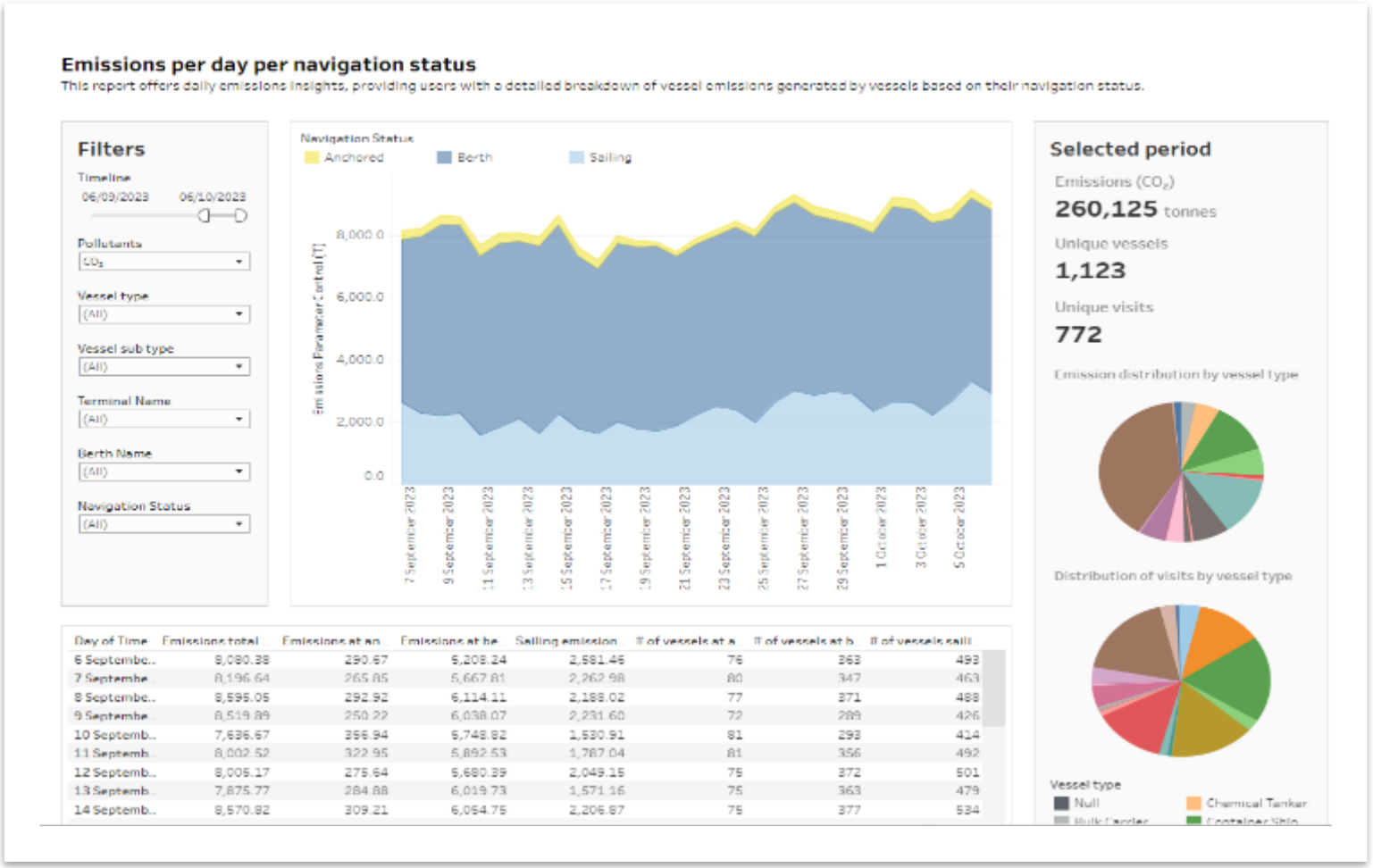
- Lack of consistent and reliable ways to track current emission footprint.
- Need to report on the effectiveness of sustainability projects.
- Impact assessment timing
- Data consistency, definition ambiguity
- Time Consuming
- Costly

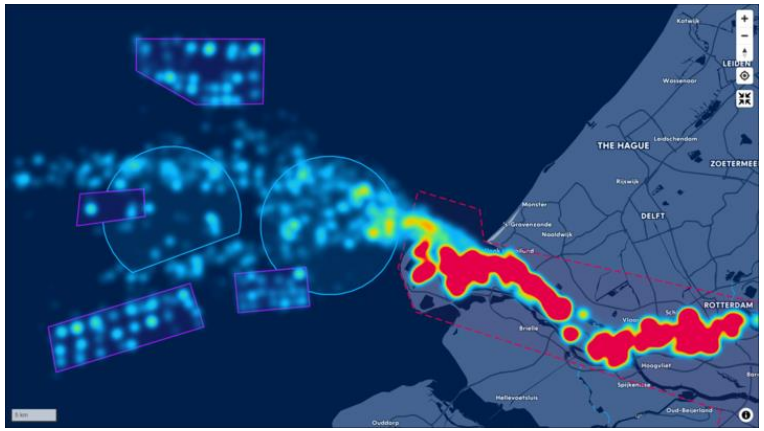
Port change

Emissions transcend borders, emphasizing the need for collaboration and mobilizing communities

PortXchange EmissionInsider

Track your progress toward a zero-emission port





Build the path to a zero emission port:

- Identify emission trends, aiding in transparent communication with stakeholders, regulatory bodies, and the public.
- Measure the effectiveness of decarbonization strategy
- Report on the results and apply corrective actions if needed

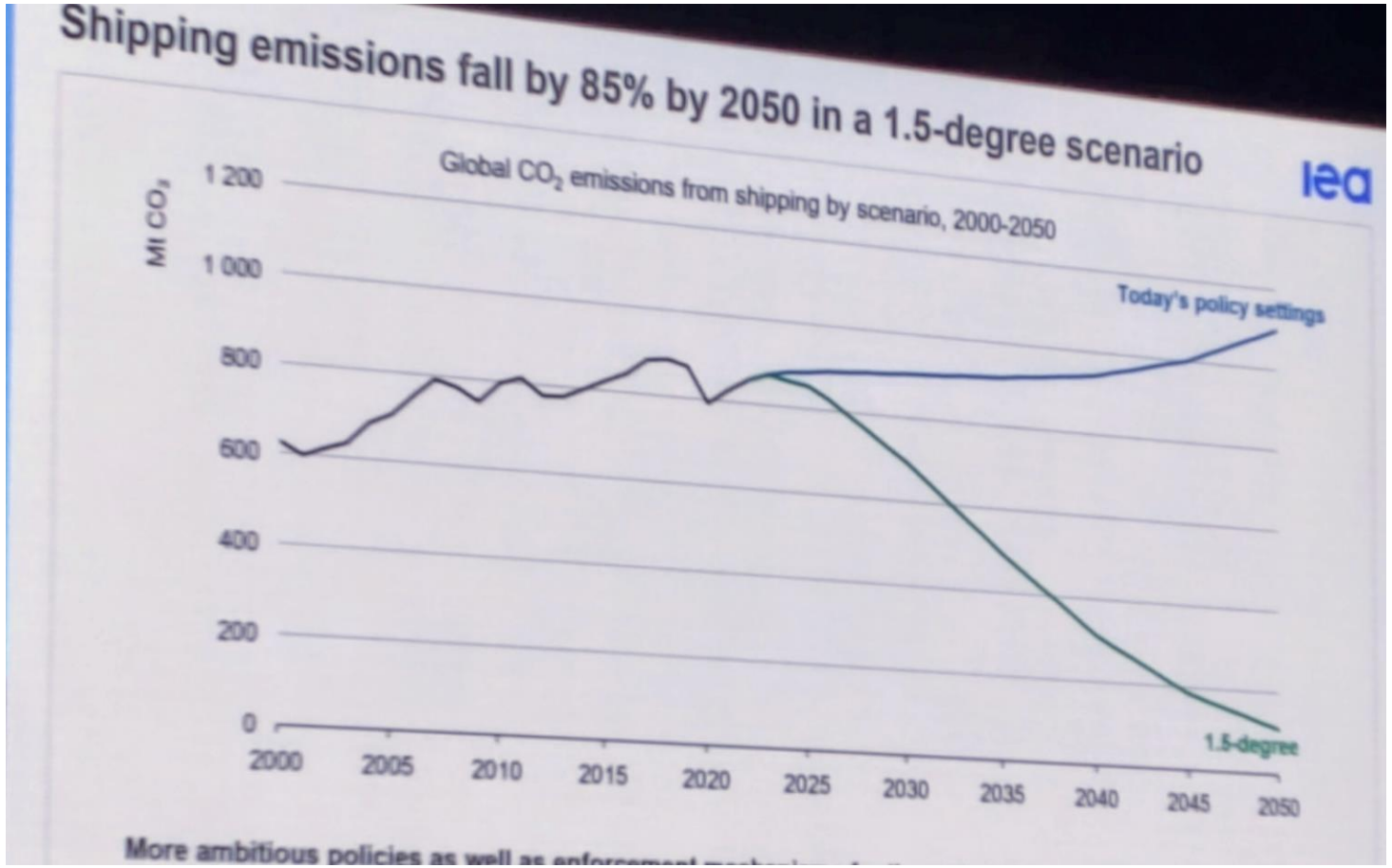
But really…

“ We know what’s wrong and what we need to do to solve it. We have all the data, all the science, the reports; we know what needs to change.
And yet we don’t.

I ask why?”

- Prof. Matthijs Schouten

Shipping emissions need to drop some 85% in order to keep 1.5 degree scenario in 2050



Source: IEA, presentation Singapore Maritime Shipping Week 2024

IMO NZE
CII
FuelEU
LNG dual fuel
On-Shore Power Supply
Wind propulsion
Air lubrication
Green Corridors
Just in Time sailing
etc…

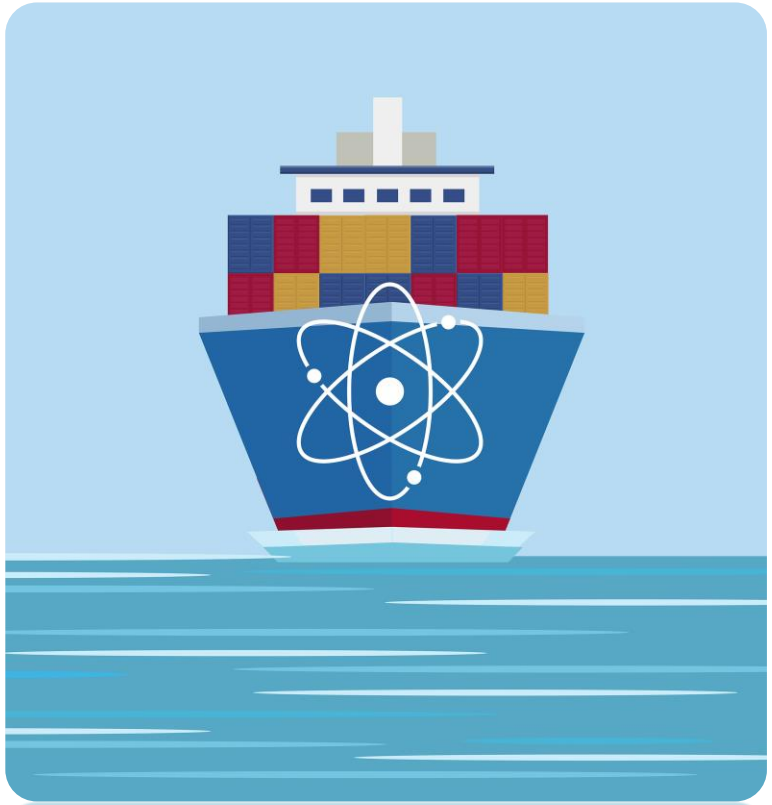
Even when applied all together, all over the world, all at once, into perpetuity…

It wont be enough

Shouldn’t we be talking about…

Stop
Free
Shipping

?



Nuclear powered
deep sea vessels

?

Reduce
Cruise

?

We look forward to talk further!

Contact Information

www.port-xchange.com/emissioninsider

Sjoerd.de.jager@port-xchange.com