

Establishing Green Corridors

A data-driven approach by the MMM Center

- The Maersk McKinney Møller Center for Zero Carbo Shipping
- A proposed methodology for Green Corridors
- An example from Chile
- Summary



Agenda

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The Mærsk Mc-Kinney Møller Center for Zero Carbon Shipping

- we show the world it is possible

Our vision

A decarbonization of the global maritime industry by 2050

Our mission

To be an independent and significant driver of a sustainable maritime decarbonization



Not-for-profit

Any donation or earned profit is used to pursue our objective

Independent

We collaborate with **key players** across the value chain but are **independent and technology agnostic**

Science-based

We explore viable decarbonization pathways and base our positions on **data and scientific methods**

Agenda

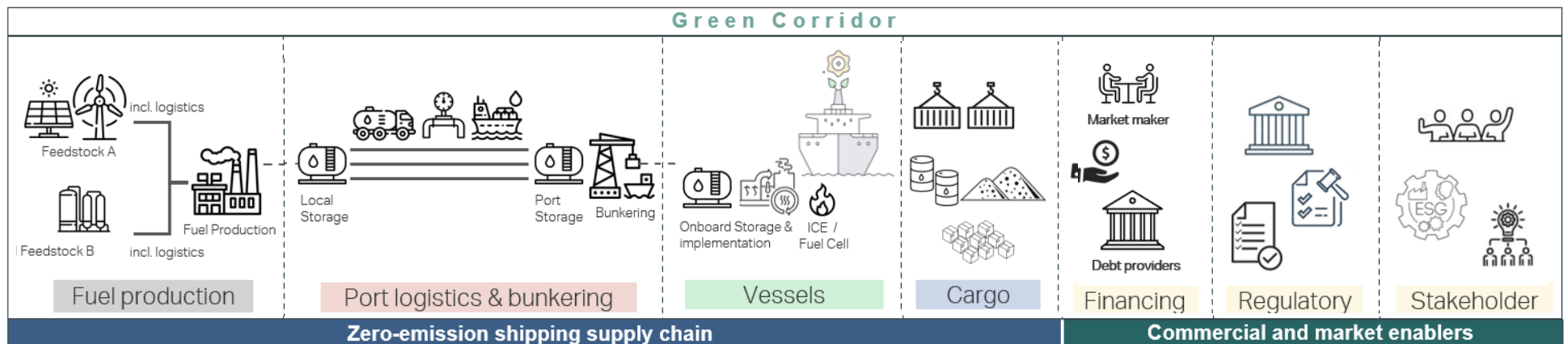
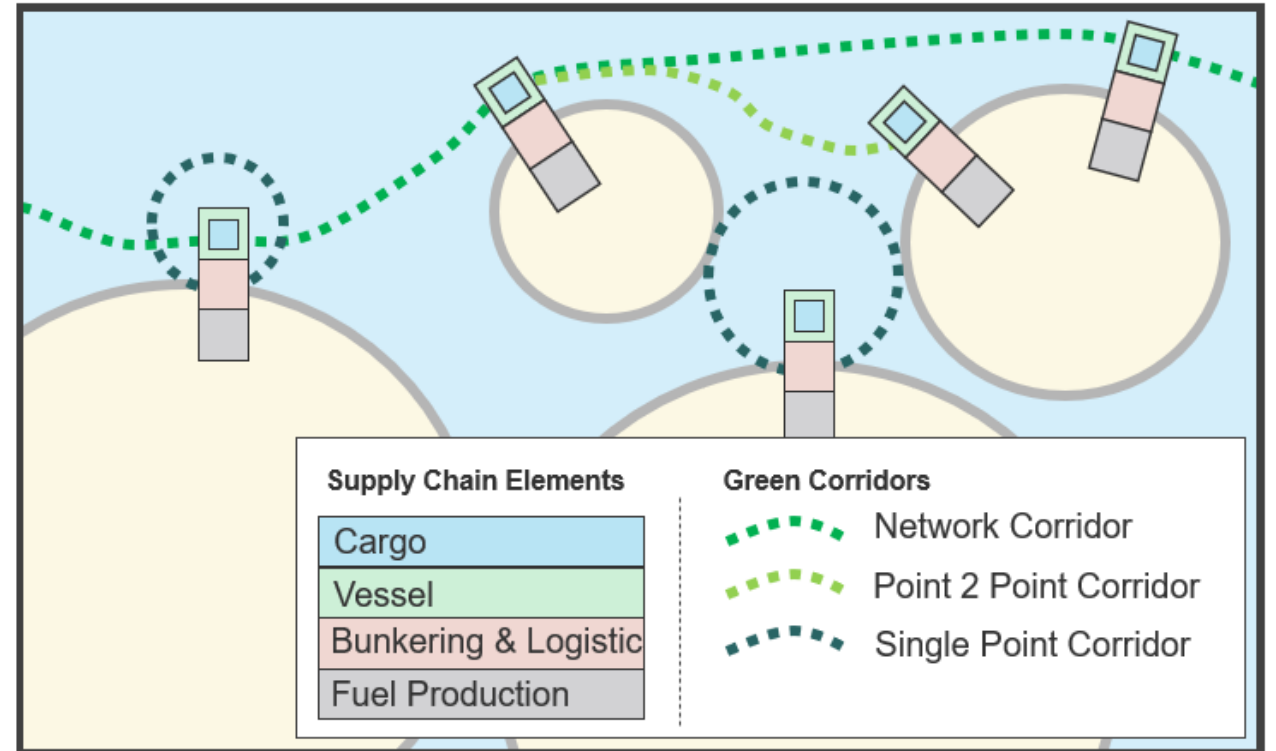
- The Maersk McKinney Møller Center for Zero Carbo Shipping
- A proposed methodology for Green Corridors
 - Green Corridor Definition
 - Pre-Feasibility
 - Feasibility
- An example from Chile
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What is a Green Shipping Corridor?

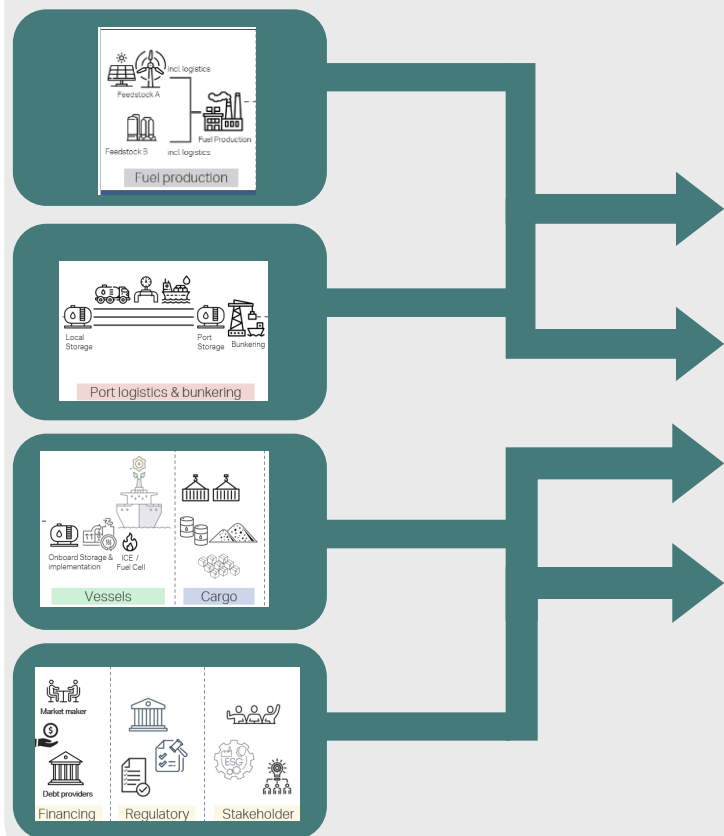
Definition by MMM Center

- Green Shipping Corridor Definition
 - Focussed action/intention by a group of companies/countries/institutes, related to the **entire Zero Emission Shipping Value Chain (ZESVC)** with the aim to deliver a **commercial product/offer throughout the value chain**

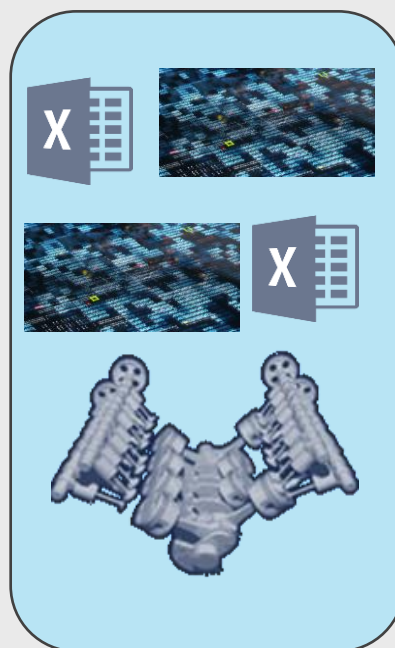


The MMM Center Methodology

Data Input



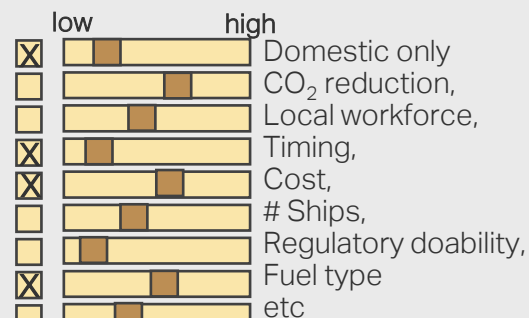
'The Engine'



Criteria for Corridors

(illustrative purpose only)

Use Scale

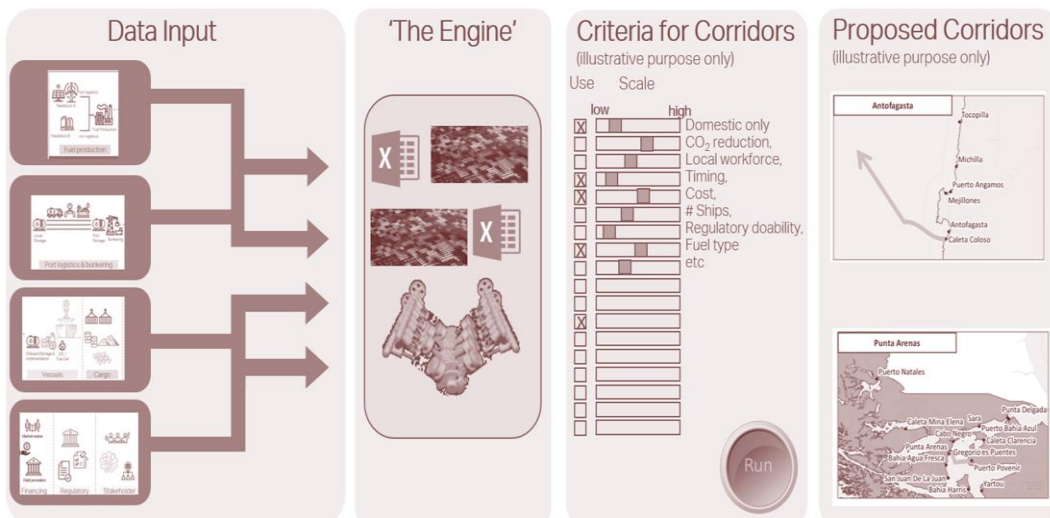
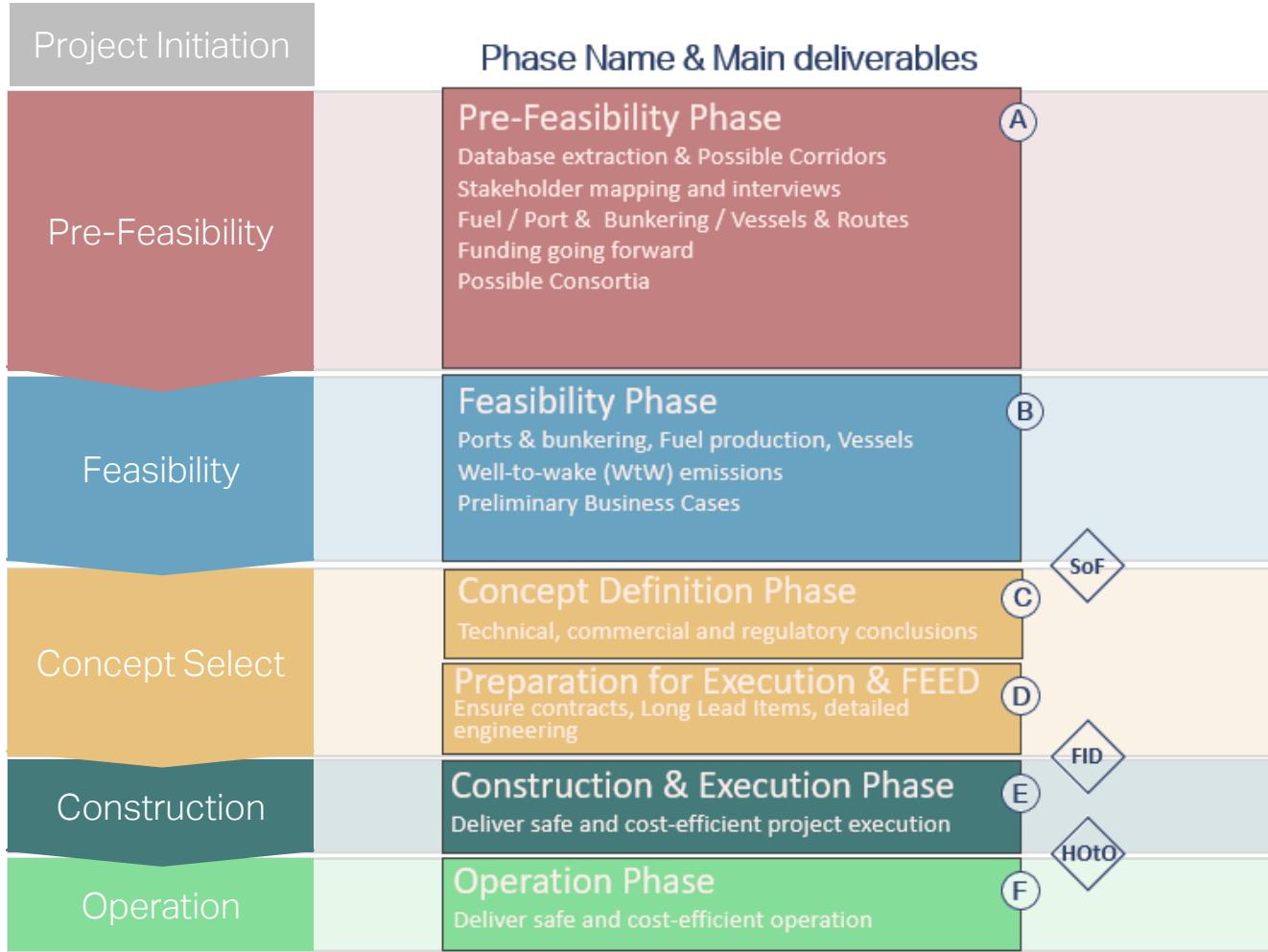


Proposed Corridors

(illustrative purpose only)



Green Corridors Network Maturation Process in MMM Center



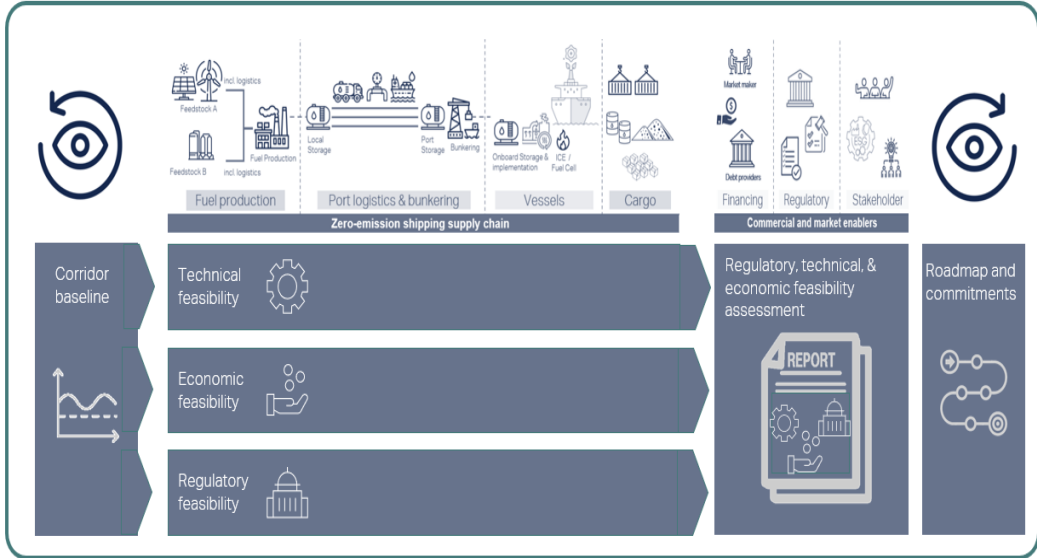
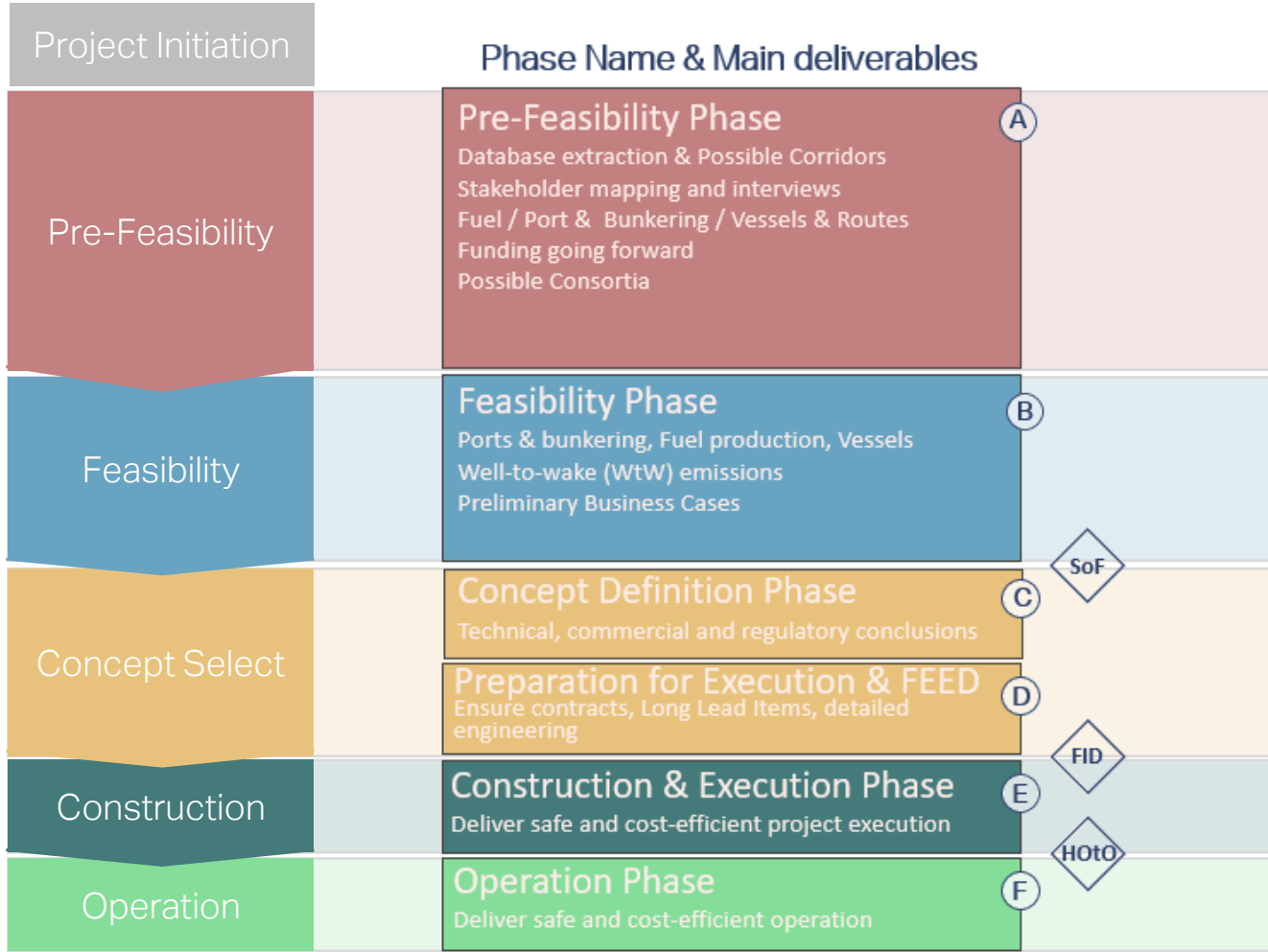
METHODOLOGY BLUEPRINT

Mærsk Mc-Kinney Møller Center
for Zero Carbon Shipping

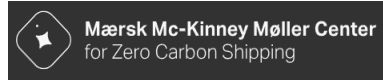


SoF: Statement of Feasibility
 FID: Final Investment Decision
 HOtO: Hand-Over to Operation

Green Corridors Network Maturation Process in MMM Center



METHODOLOGY BLUEPRINT



McKinsey
& Company

SoF: Statement of Feasibility
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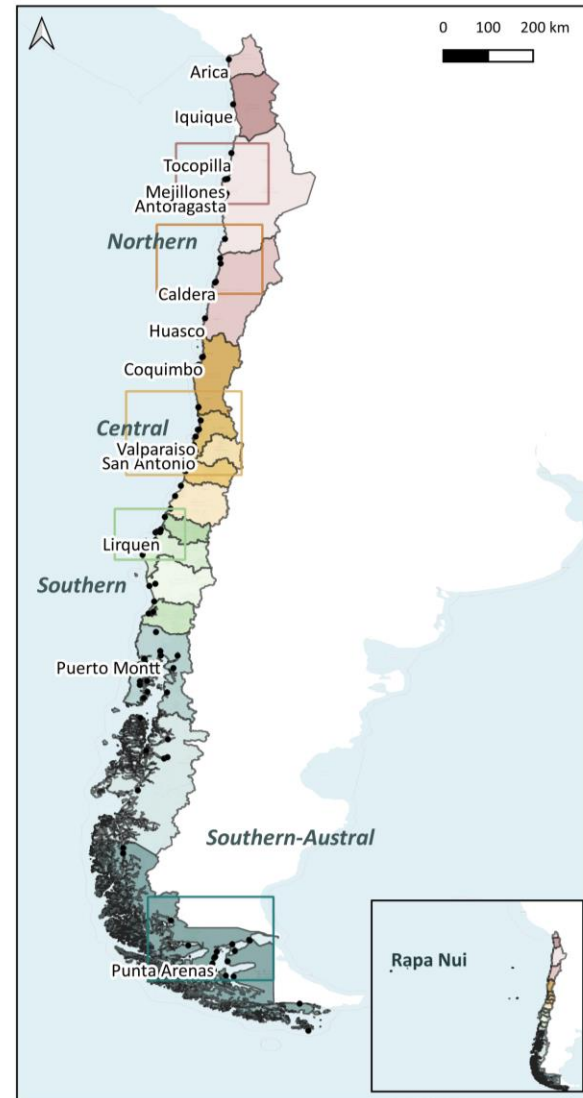


Chilean Green Corridors Network

Pre-feasibility project on:

- Vision & Objectives
- Mapping
 - Fuel
 - Port & Bunkering
 - Vessels & Cargo

Cooperation with three ministries in Chile



Data Sources: Port Locations - World Port Index;
Emissions and Vessel Data - Ocean Data Platform



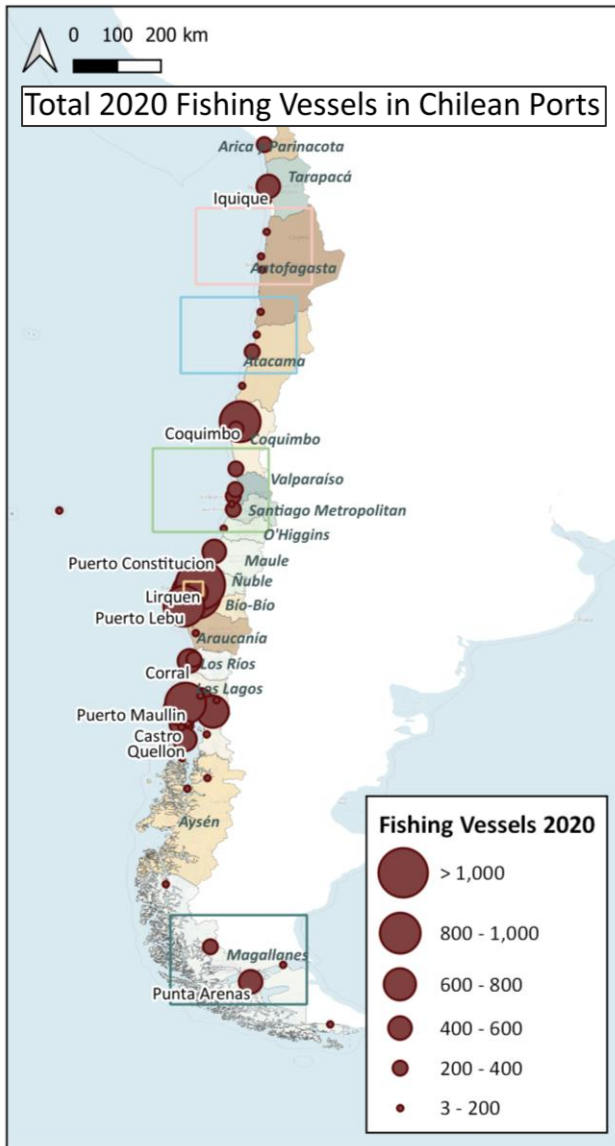
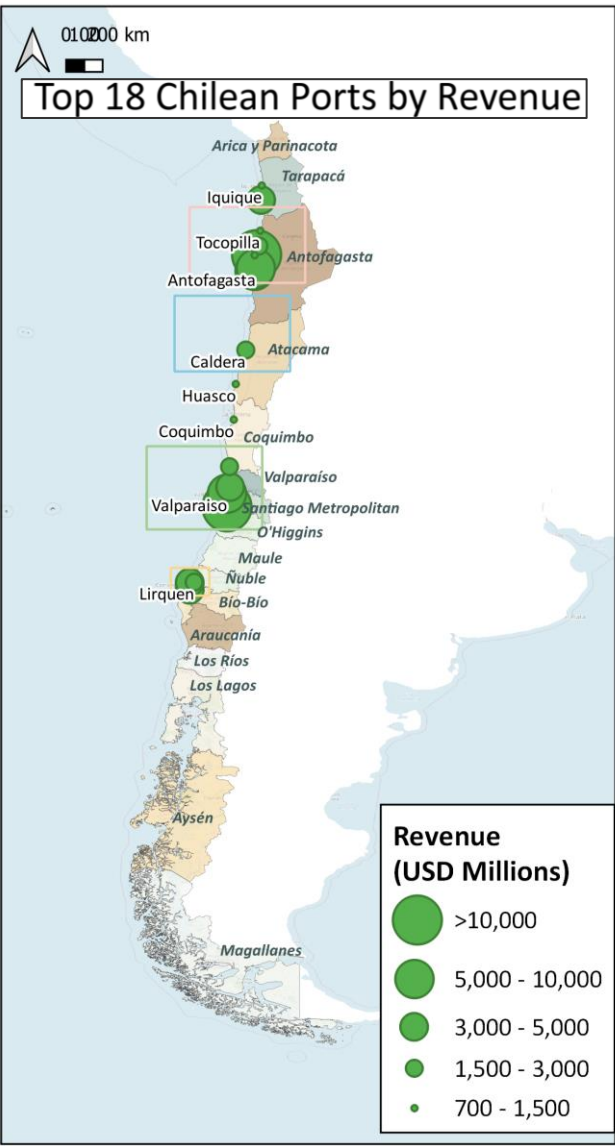
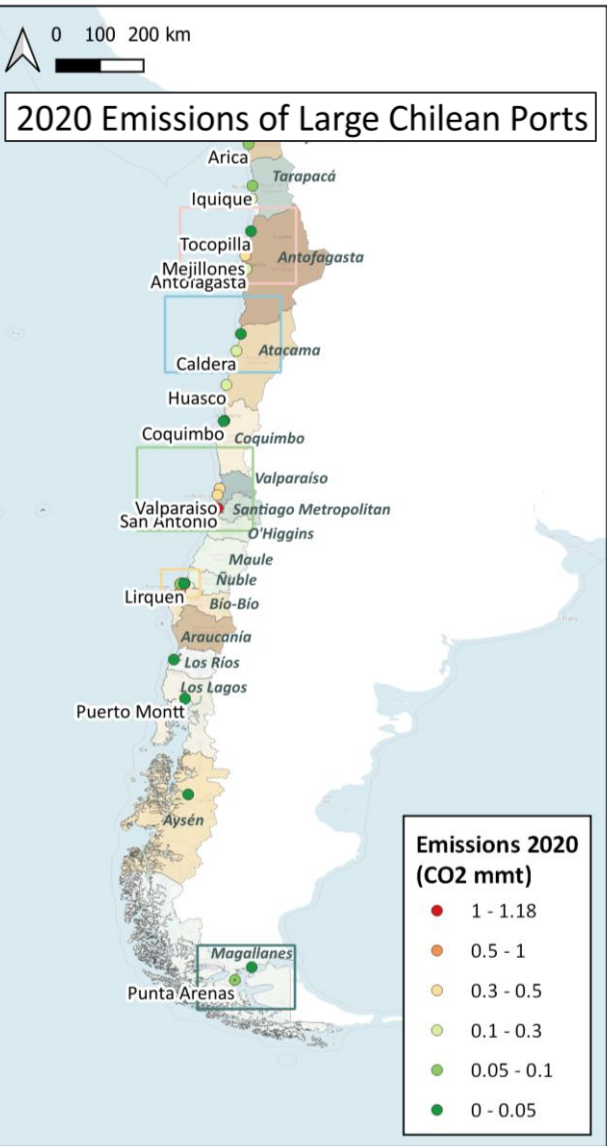
| No Ports | Emissions 2020 (MMT CO2e) | Voyages 2020 |
|----------|---------------------------|--------------|
| 96 | 4.21 | 7,959 |

Top Five Ports by Emissions

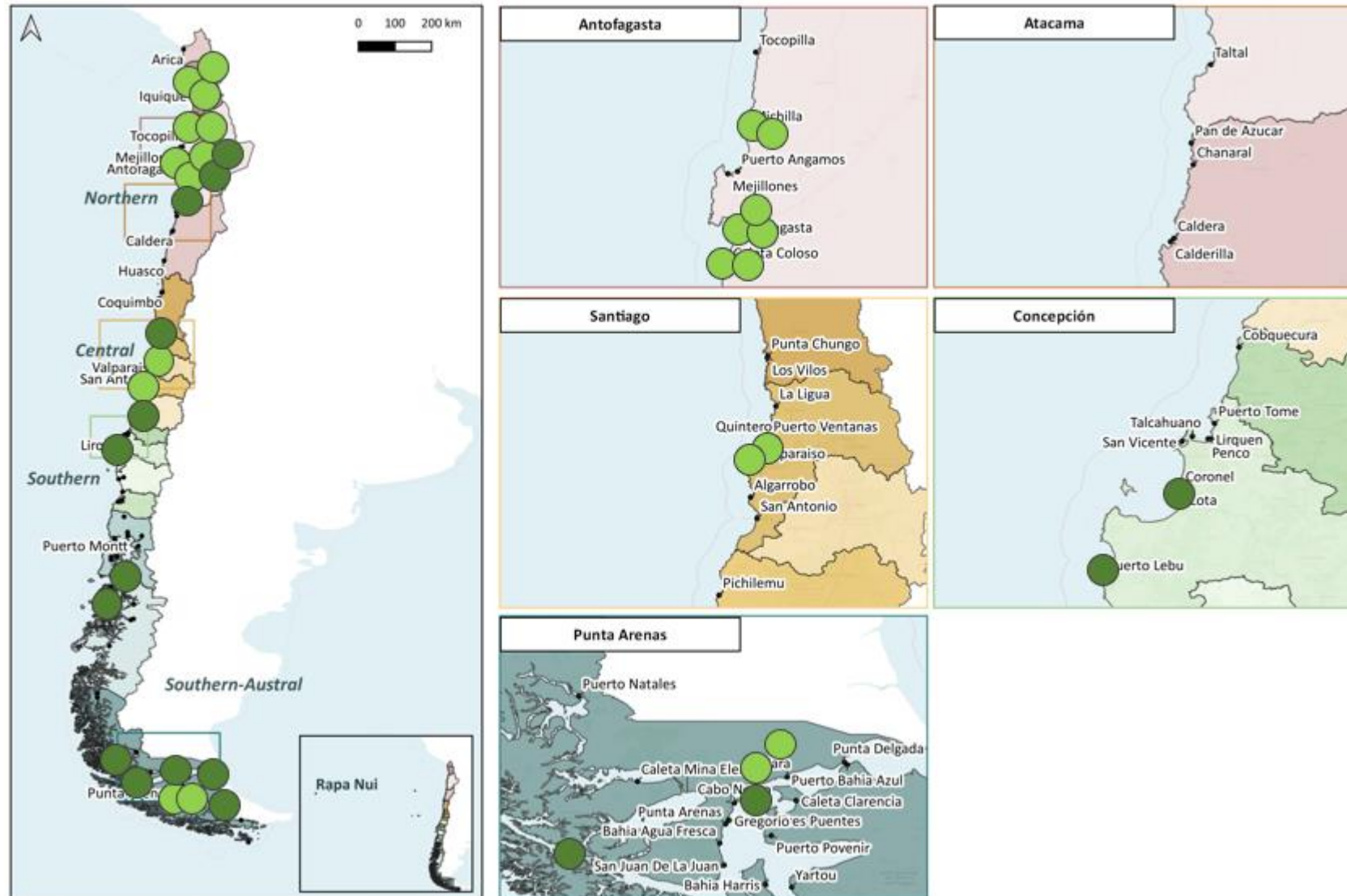
| Port | Emissions 2020 (MMT CO2e) |
|-------------|---------------------------|
| San Antonio | 1.18 |
| Coronel | 0.54 |
| Mejillones | 0.42 |
| Quintero | 0.36 |
| Valparaíso | 0.33 |



Chile – data insight



Preliminary view on Chilean green corridors



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Summary

- The MMM Center Approach to establishing Green Corridors is characterized by
 - Formalized and documented process
 - Data-driven with insight from entire value chain
 - Option to build on partner-base insight and knowledge
- The MMM Center can do Green Corridor work in different ways
 - Project participant if considered a project with high-impact and with right to publicise insights
 - Commercial service



A data-driven approach by the MMM Center

Thank you very much !

