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How to meet the data-sharing-imperative in decarbonising ocean shipping

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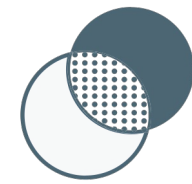


Henning Roxin

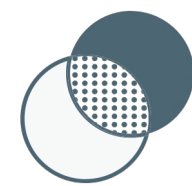
Decarbonisation Architect / Sales Manger



15 years of experience in shipbroking, vessel technical and energy management.



Worked in Hamburg, Copenhagen and Singapore for Germanischer Lloyd, Future Ship, Maersk Broker, and H.Schuldt Shipbrokers.



Strives to overcome information barriers and incentive disconnects to accelerate the decarbonisation of ocean shipping.



Supports highly experienced Ankeri team of shipping digitalisation and energy management experts.

Time to act is now



Ocean Shipping burns **300m tons** of fuel per year.



Contributes **3% of global emissions**.



Commercial fleet of **Bulker, Tankers and Container vessels emits 65%** of all shipping related GHG



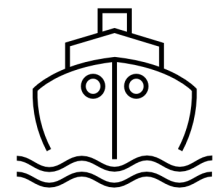
Emissions will **double** by 2050 if we do not decarbonise at all. Even with current efforts, we will end up short with **about 18%** more emissions in 2050 than today.

Sources: IMO, IPCC, IEA,



Getting to Zero by 2050

The 5 critical levers of decarbonisation require an interoperable API-based data infrastructure between expert systems. Data collaboration and accountability between industry stakeholders will be imperative.



1

Tech advancements on ship



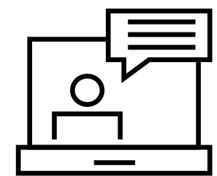
2

Energy & fuel advancements



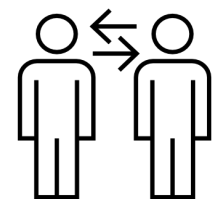
3

Policy and regulation



4

Finance-sector mobilization



5

Customer demand/pull

Sources: Mærsk Mc-Kinney Møller Center
for Zero Carbon Shipping

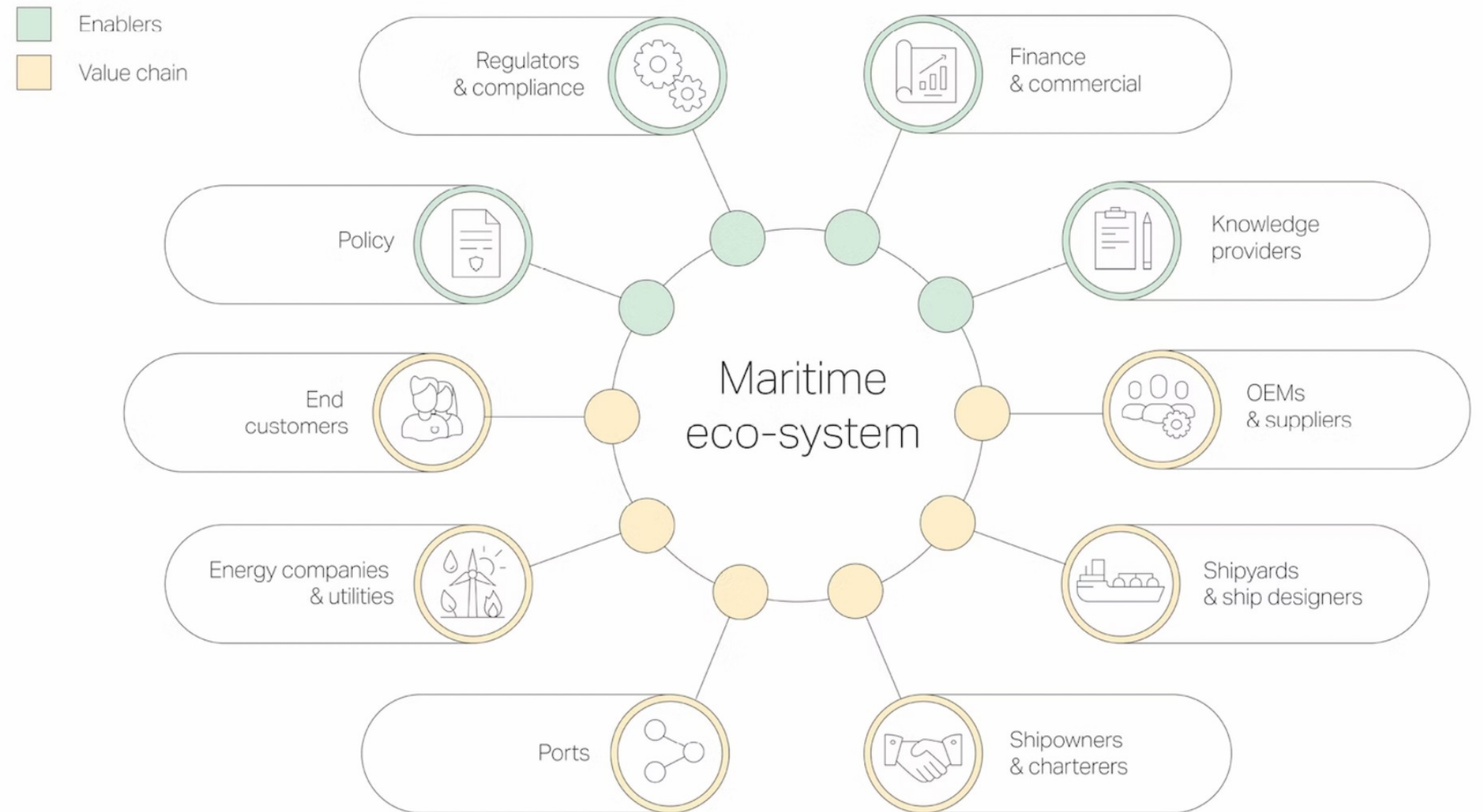
Streamlined data is imperative!



Shipping data is scattered and unstructured on intra- and inter-organization levels.



Data streams must be unified and interoperable for all eco-system stakeholders across all data sources.

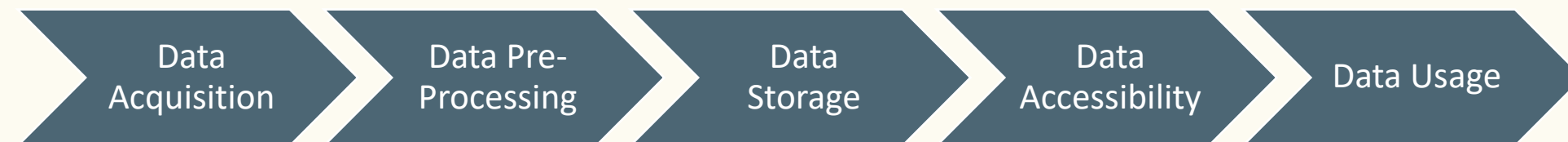
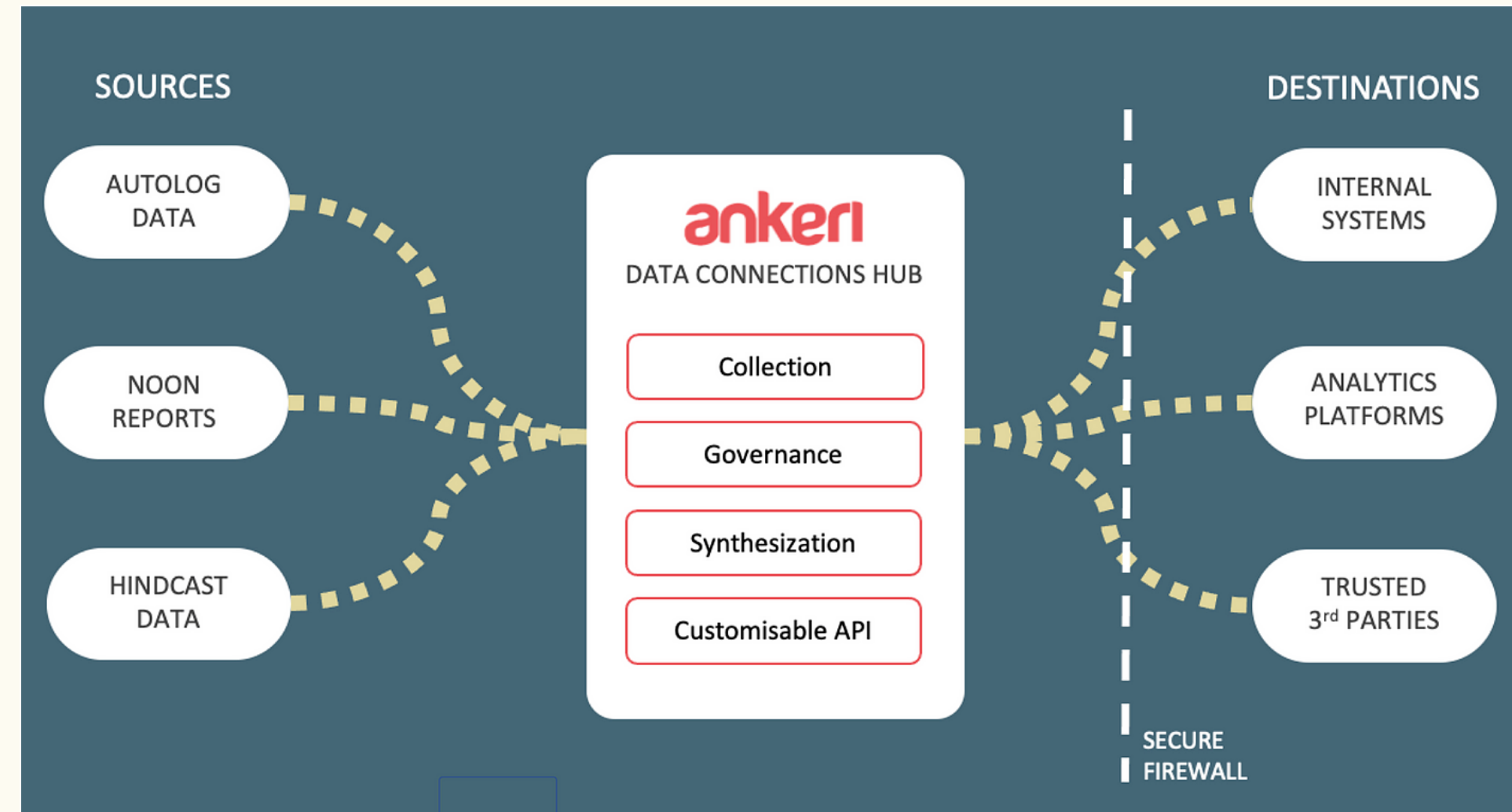


Sources: Mærsk Mc-Kinney Møller Center for Zero Carbon Shipping



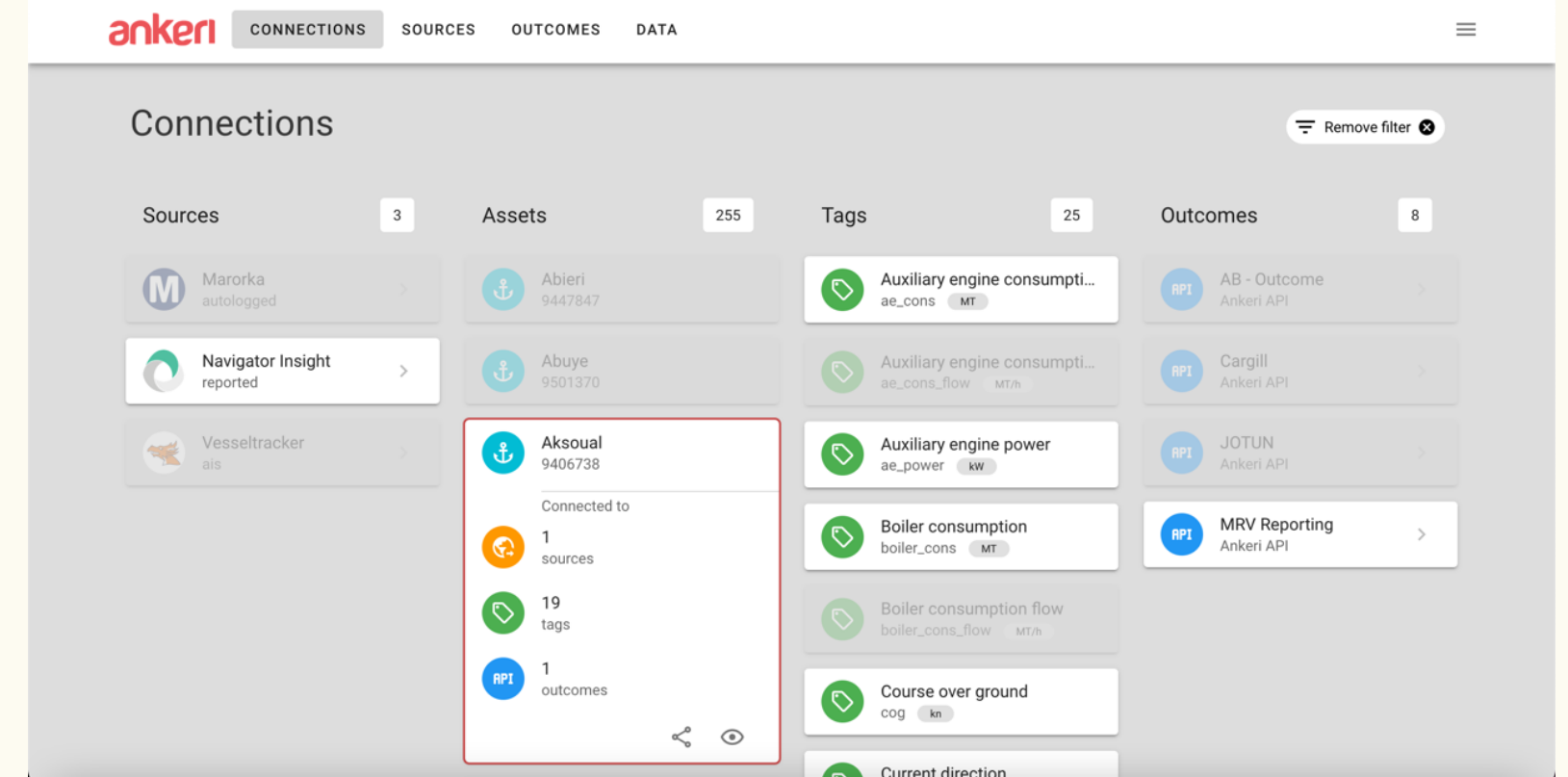
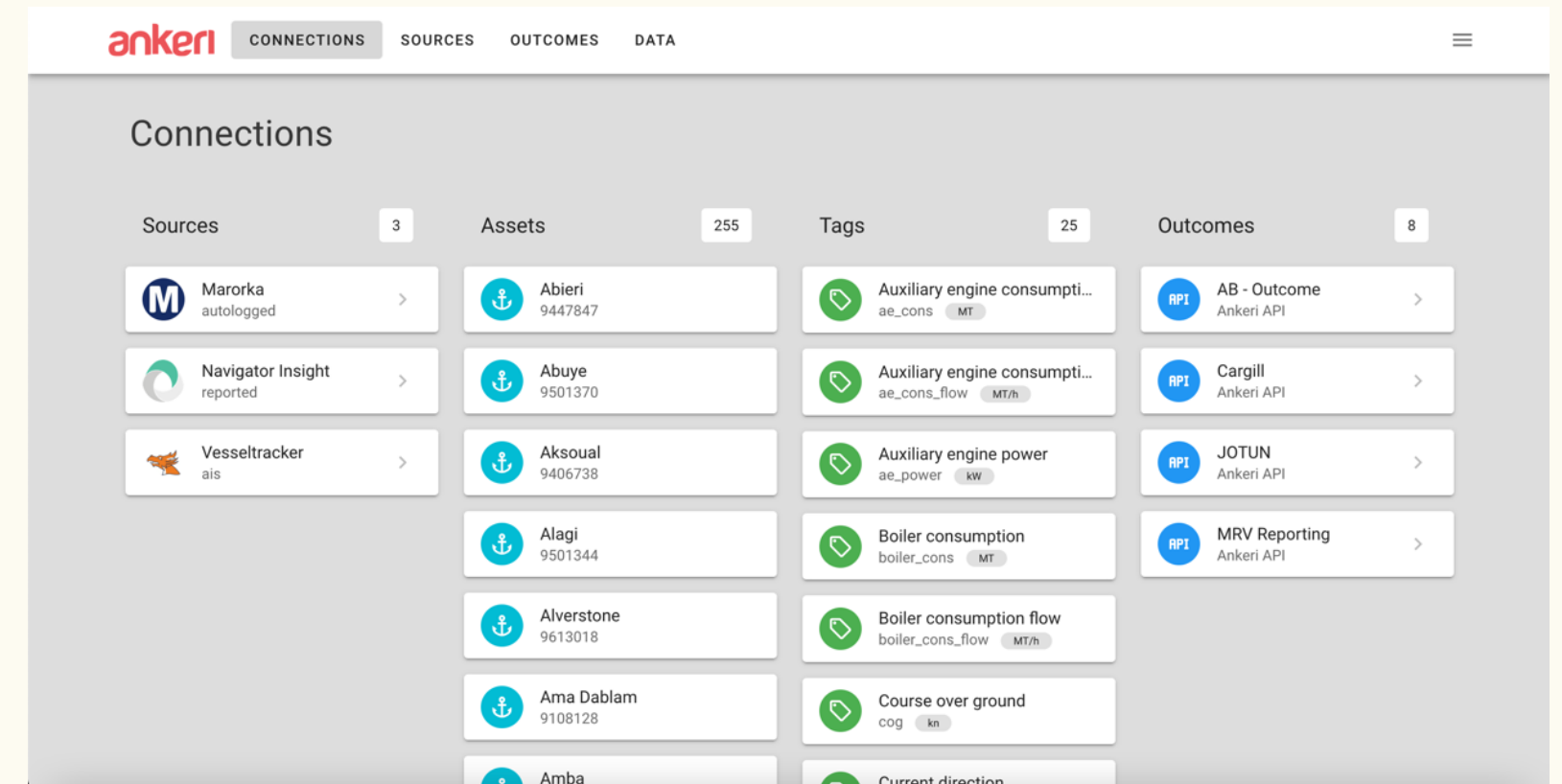
Data Connections Hub

A scalable, cloud-based big data infrastructure that makes maritime time-series data easily shareable with internal or external stakeholders in a consistent and secure manner.



Data Connections Hub

- Catch-all data connections management.
- Data from any number of sources parsed and transformed to a standard format.
- Connect outcomes (e.g. APIs) with any number of sources, vessels and tags.
- Allow access to data with tokens keys and expiry option.
- Live data feed for tracking and debugging.
- Alerts view for alerts raised when data is not being received or can not be parsed.
- Scalable cloud-based solution hosted on Amazon Web Services in a big data storage



Fleet & Chartering

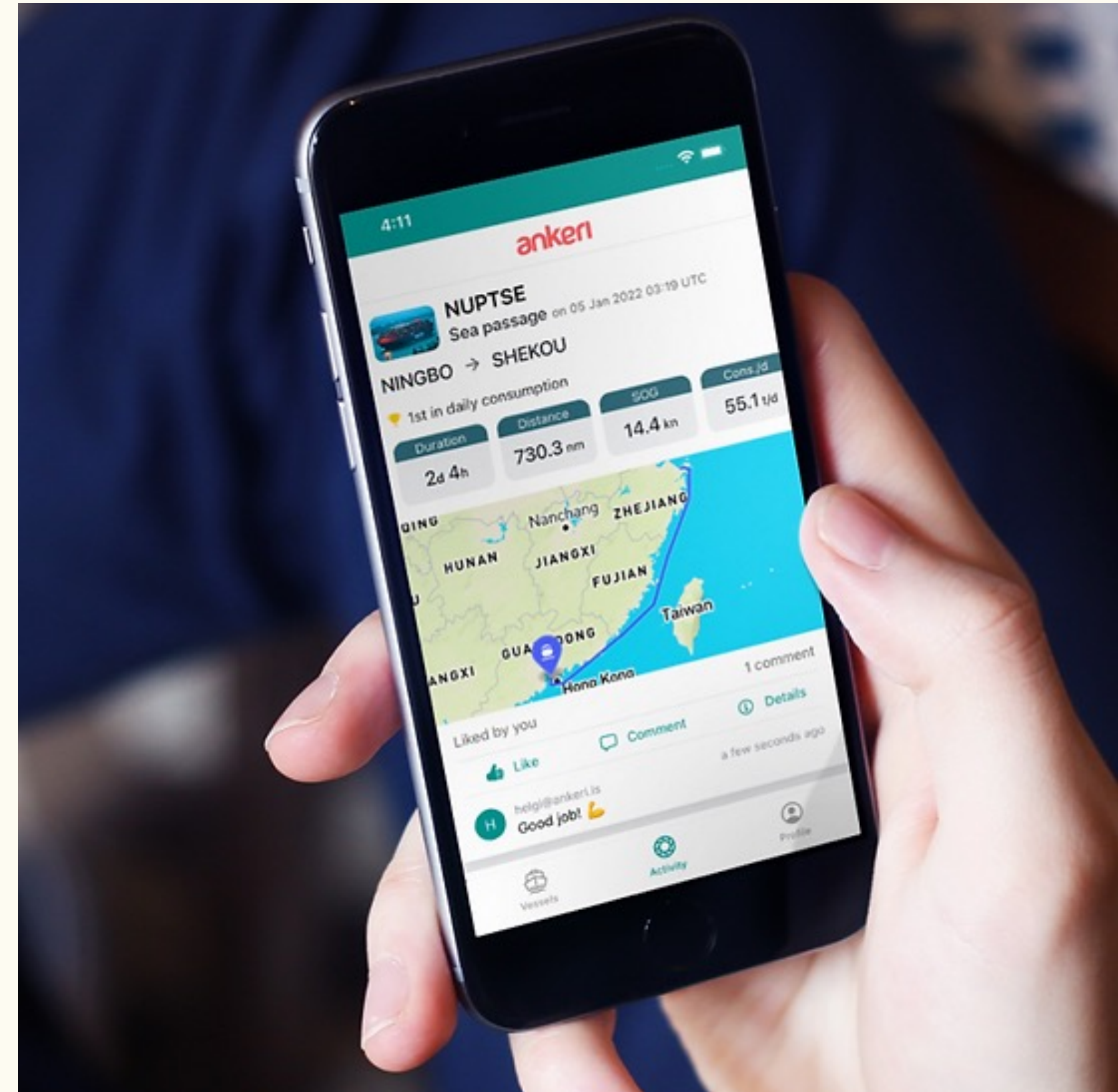
- Manage fleet characteristics
- Complete fleet overview.
- Ship profiles master data management.
- Co-operative workspaces.
- Store certificates, plans and other ship related files
- Single source of information
- Auto populate questionnaires
- Chartering contracts management.
- Events, maintenance and technical improvements planning.
- Vessels' sustainability and performance evaluation.
- Terminals directory management.

The screenshot displays the 'AMATITLAN' ship profile in the Ankeri system. Key metrics include: SHIP OWN, LAST UPDATED 7 days ago, COMPLETION 79%, STATUS ACTIVE, and REVIEW STATUS REVIEWED. The profile is organized into sections: Specification (Files 5, Events 12, Shares, Review, No notes), General information & dimensions (6/9 progress), Ship's main particulars (24/26 progress), Cargo (Ship's Capacity 14/16, Stack weight limits 7/7), and Regulations & environment (Class and compliance 31/35, Energy efficiency measures 24/26). A search bar and '12 available updates' notification are also visible.

The screenshot shows the 'Workspaces' management interface. It includes a sidebar with navigation options like Ships, Performance, Chartering, Companies, Terminals, Vessel evaluation, Services, Fleet management, Reports, Workspaces, and Settings. The main area displays a search bar and two workspace cards. The 'Collaboration Space with S Lines' workspace (Active) has 3 CII, 3 contracts, and 2 reports, featuring ship images for TONICAPAN, AMATITLAN, CIUDAD VIEJA, ANKERI, and PUERTO BAR... with associated companies like Skefian Lines and Ankeri Charterer. A notification indicates a comment was added by Horacio Cane 14 days ago. The 'Ankeri' workspace (Active) has 0 CII, 1 contract, and 2 reports, featuring ship images for ANKERI and AMATITLAN.

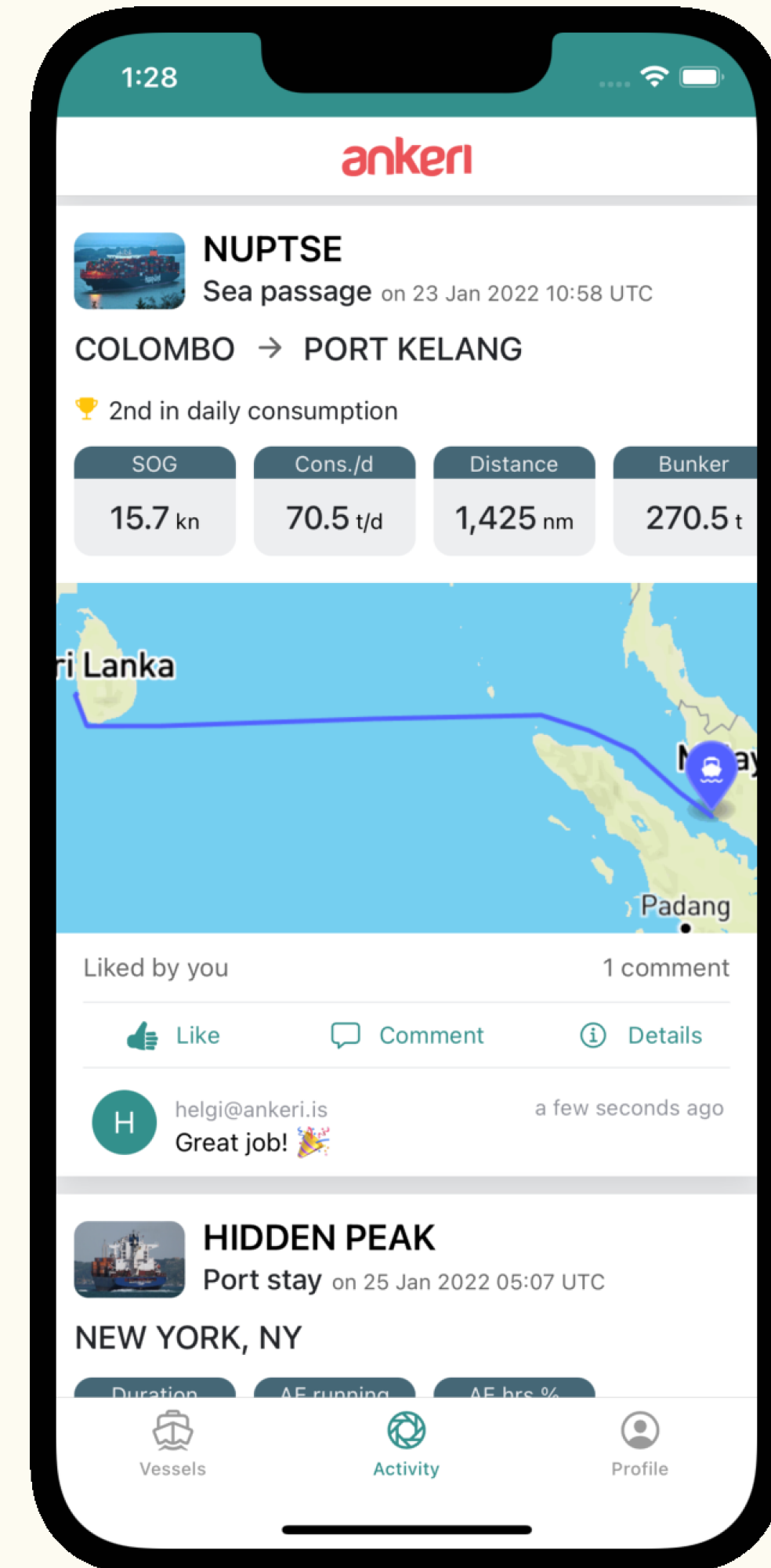
Aware

A fresh take on making performance and sustainability monitoring engaging and accessible to the whole enterprise, using an app that works like your everyday fitness app – but for ships.



Aware

- Performance and sustainability information presented in an easily digestible manner.
- Mobile-first application.
- Rich notifications support.
- Automatic ranking.
- Support for diverse reports.
- Use the data you already own or connect new data streams fast using Ankeri's Data Connections Hub.





Let's take the challenge together!

Ankeri is trusted by



Hapag-Lloyd



**Technology
Development Fund**



NÝSKÖPUNARSJÓÐUR

**FRUMTAK
VENTURES**





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