



Ships and Fuels of the Future

Moderator: Jan-Willem van den Dijssel, *Americas Lead, Cargill Ocean Transportation*

US decarbonization efforts and offshore wind developments

- Dana Merkel, *Of Counsel, Blank Rome*

Fuel Options today and tomorrow

- Jan Hagen Andersen, *Business Development Director, DNV Maritime*

Digitalization Risks and Rewards

- Cynthia Hudson, *CEO HudsonAnalytix*



Cargill Ocean Transportation
More than shipping



Delivering cargo safely. Partnering for progress. Rethinking the future. Putting people first.

We move cargo. We deliver solutions. We lead change.

225M Tons of dry and wet cargo

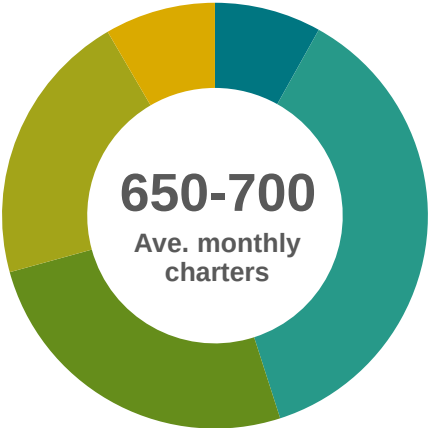
110 Countries

13.3K Port calls

4K Voyages

350+ Customers

Our fleet



Cape 62

Panamax 259

Supramax 178

Handy 136

Tankers 68

All figures refer to
calendar year 2022

Not just decarbonization..

Social



+ Taking people out of harm's way

+ Setting safety standards onboard

+ Standardizing time on ships

+ Developing a diverse pipeline

+ Accessing mental health services

Global Fleet – Dry Bulk / Tanker / Container

Dry Bulk	Scrubbers	Total Fleet	% of Fleet
Capesize 100,000+	830	1842	45.06%
Panamax 65-100,000	380	2840	13.38%
Handymax 40-65,000	332	3858	8.61%
Handysize 10-40,000	104	3782	2.75%
Total	1646	12322	13.36%

Tankers	Scrubbers	Total Fleet	% of Fleet
VLCC 200,000+	368	832	44.23%
Suezmax 125 -200,000	181	615	29.43%
Aframax 85 -125,000	220	1058	20.79%
Panamax 55 - 85,000	38	474	8.02%
Small 0 - 55,000	426	4207	10.13%
Total	1233	7186	17.16%

Containers	Scrubbers	Total Fleet	% of Fleet
15,000+ teu	174	179	97.21%
12 - 14,999 teu	166	267	62.17%
8 - 11,999 teu	226	623	36.28%
6 - 7,999 teu	53	267	19.85%
3 - 5,999 teu	107	1066	10.04%
100-2,999 teu	298	3037	9.81%
Total	1024	5439	18.83%

Where to save fuel...??

- Capesize 45mts/day
- VLCC 100mts/day
- 8000 TEU Container
 - 225mts at 24 knots
 - 150mt at 21knots
- 18000 TEU CMA CMG's Benjamin Franklin: 330mts..



Together, making zero carbon
shipping a **reality**.



Our ambitions



Lead innovation



Partner to deliver on
sustainability goals

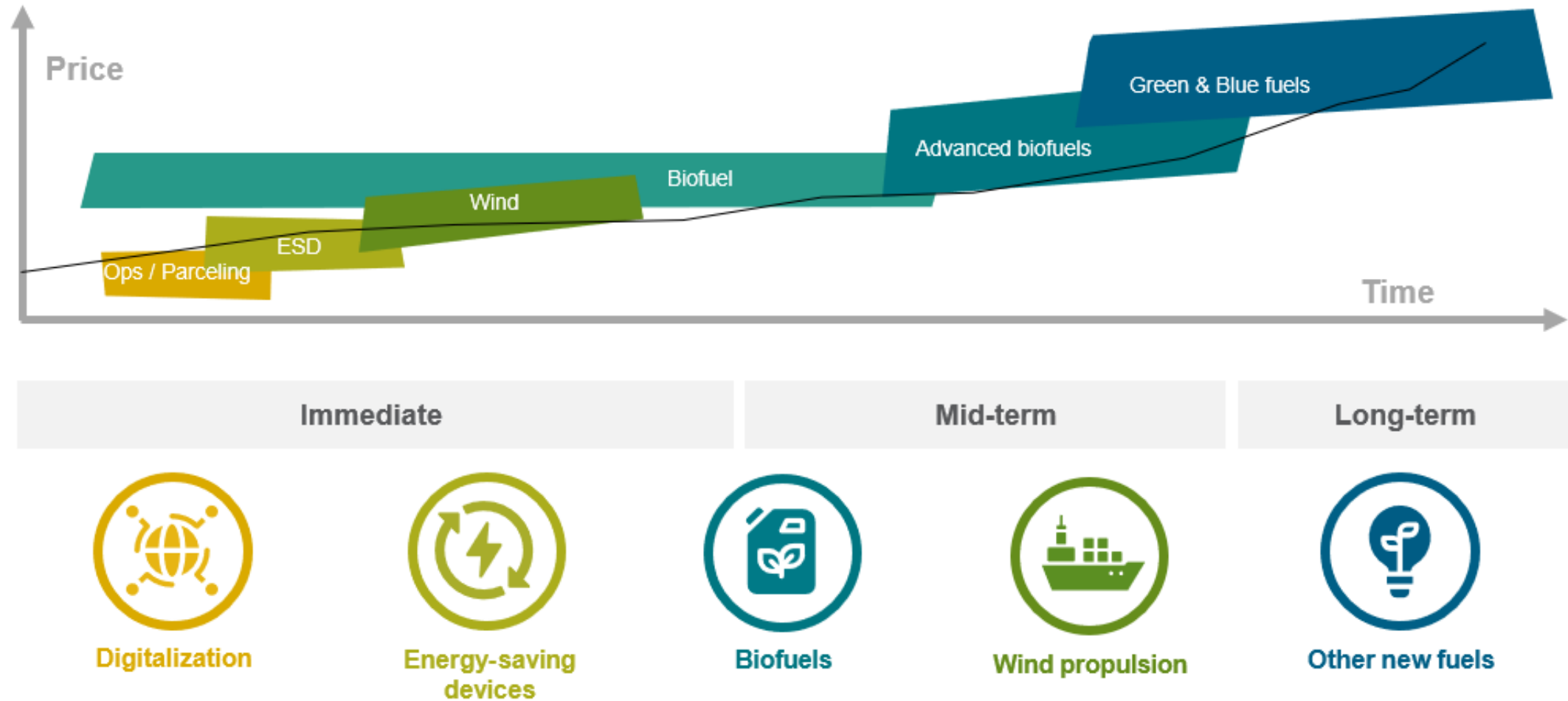


Build broader expertise



Provide best-in-class digital
experience

Driving a decarbonization strategy since 2017



A catalyst for positive change

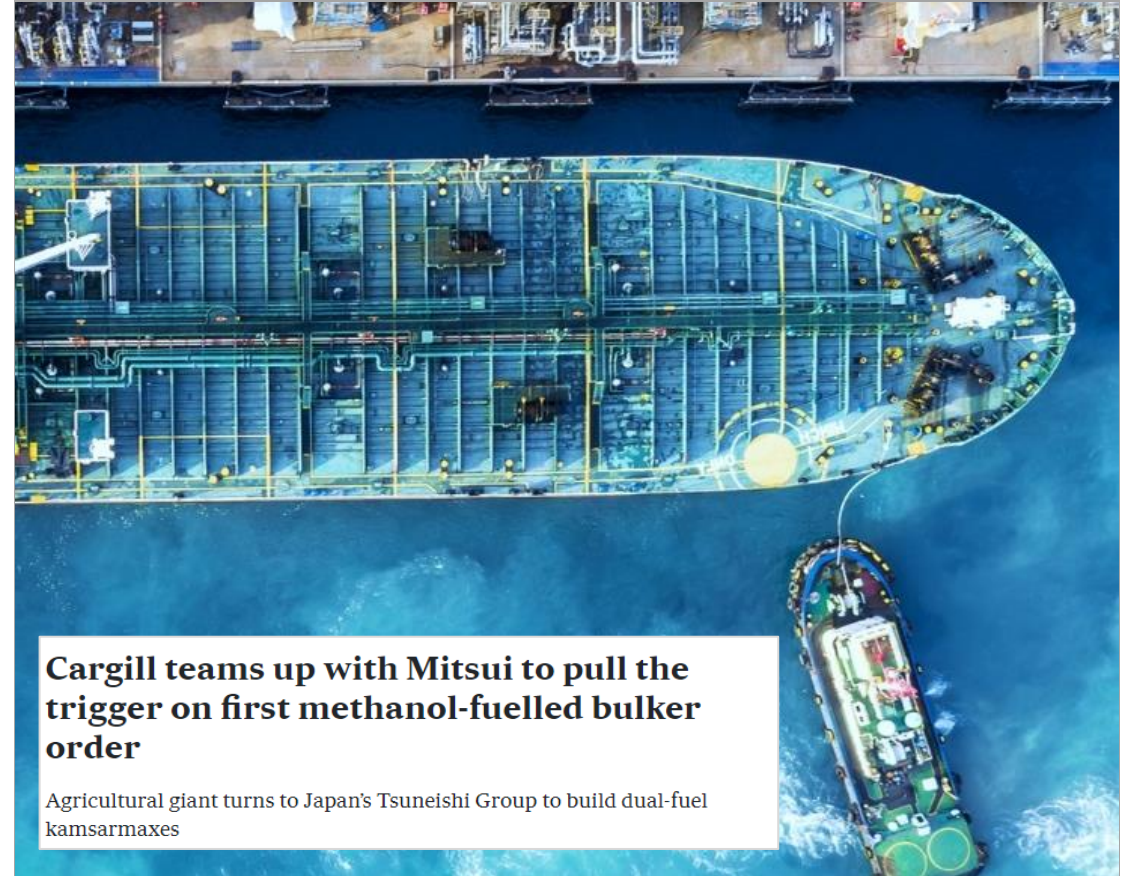
Wind assisted propulsion



Cargill proceeds with wind plans and looks to focus on newbuilds

Chartering giant plans to continue with its three-pillar decarbonisation plans by completing the first installation of solid wind sails

Methanol fuel



Cargill teams up with Mitsui to pull the trigger on first methanol-fuelled bulker order

Agricultural giant turns to Japan's Tsuneishi Group to build dual-fuel kamsarmaxes

Collaboration drives impactful change

Decarbonization partnerships



Commercial partnerships



Creating transparency and standardization in safety and emissions



Industry association



Industry coalitions on R&D



Global corporate relationships

