

## **Promising options for low carbon maritime**

Tim Morris CEO, UK Major Ports Group

**REA – Decarbonising trucks, trains, boats and planes** 

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## Ports matter – the UK's main global gateways, catalysts for coastal prosperity, hubs for economic activity

#### The UK's global gateways



- 95% of the UK's global physical trade moves via its ports
- 8 out of 10 cars made in the UK are exported via a port
- Half our food & feed needs are imported via a port
- £9.7bn direct value to UK plc

#### Catalysts for coastal jobs & prosperity



- £600m investment annually
- 115,000+ people are directly employed in UK ports
- 7 jobs for each direct job
- £1 spent on a port road scheme generates £4 for the wider coastal economy

## Hubs for economic activity



- Bases for maritime industries cruise, offshore wind etc.
- 'Port-centric' models of logistics & manufacturing
- Hubs for value addition manufacturing and infrastructure development
- Even film studios!

<u>UKMPG</u>

# Maritime – on sea, on land via a complicated ecosystem of pipes and wires (and regulation & competitiveness)!



Η, Transmission LNG bulk Hydrogen Ship-to-ship / at sea grid bulk supply supply bunkering Distribution grid Or... Or... Port H<sub>2</sub> **Deep-sea** vessel A Port-centric Inbound / distributed outbound Port centric Short-sea / generation & coastal vessel transport logistics & local / manufacturing microgrid Rest of the conference!

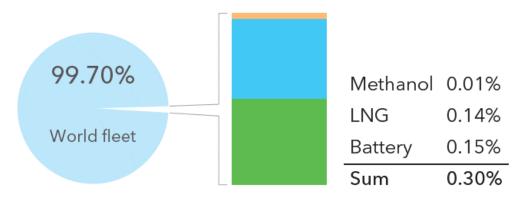
The 'physical' tied up with issues like:

- Safety
- Investment & competitiveness
- Regulatory

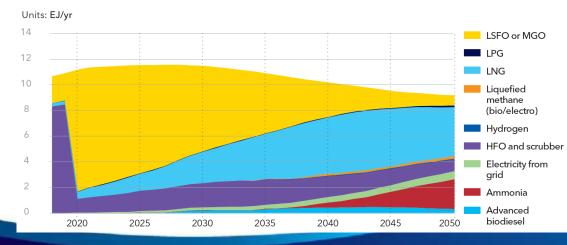
# For vessels – we're starting from a low base (although change is happening) and the future is a mix

#### Alternative fuel uptake (percentage of ships)<sup>a</sup>

Ships in operation



Energy use and projected fuel mix 2018-2050 for the simulated IMO ambitions pathway with main focus on design requirements





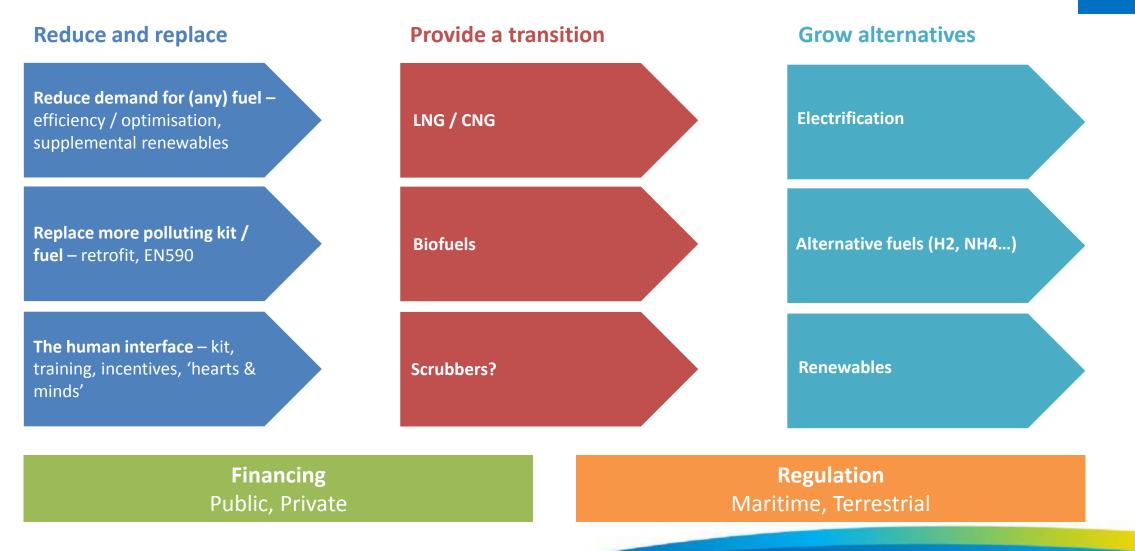


Sources: DNV "Energy Transition Outlook 2019"; Port of London Authority / Goodchild Marine; Carnival



### A patchwork of solutions, with some crucial enablers





### **Government ambition & desire to take leadership – Clean Maritime Plan**



Department for Transport





Maritime 2050 zero emission shipping *ambition*:

"In 2050, <u>zero emission ships are commonplace globally</u>. The UK has taken a proactive role in driving the <u>transition to zero emission shipping in UK waters</u> and is seen globally as a <u>role model</u> in this field, moving faster than other countries and faster than international standards. As a result, the UK has successfully captured a significant share of the economic, environmental and health benefits associated with this transition."

#### Government wants to be a *leader*:

- Maritime Minister repeatedly talks about international leadership
- High Ambition coalition in IMO negotiations
- UK will host and Chair COP26 in Glasgow in December 2020

Some *financial commitment* but more to be looked at (hopefully):

- Some R&D funding calls
- Consultations on RTFO extension & other non-tax incentives
- Government eager to use its convening power

## Sounds great! Why isn't it happening right now / faster?





**Technology uncertainty** 



**Demand – Low, variable** 



Supply – Infrastructure needs, cost recovery



**Global, fragmented sector** 

#### **Summary**

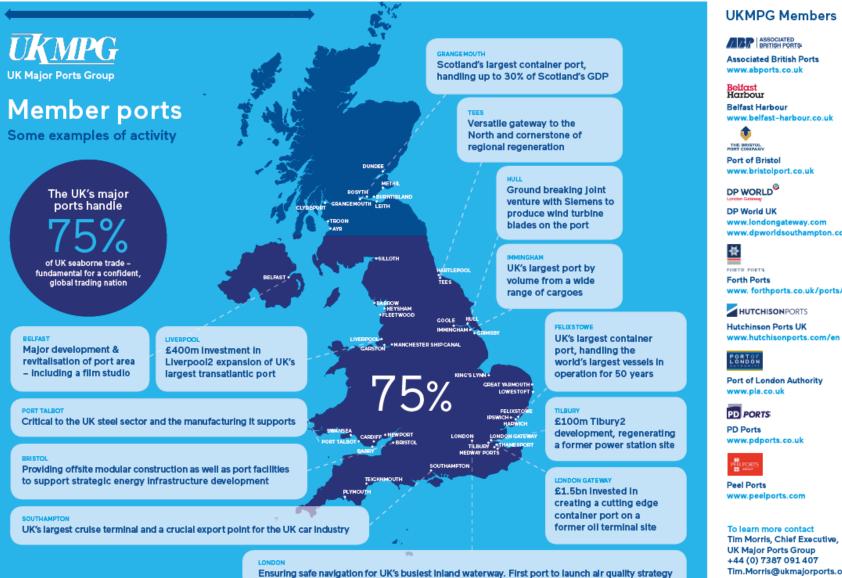
- Decarbonising maritime is more than ships, and it interacts with the 'terrestrial' landscape
- Different types of vessels & activities / ports probably lend themselves to different solutions
- A complex patchwork of options is emerging, with different time horizons
- The UK Government is ambitious for change, but currently there's not a lot of money behind it
- That's important because the 'commercial' business case is not there yet for accelerate change
- Major port operators are committed to playing their role in a zero emissions future







### **Thank you!**



## **UKMPG**

#### UKMPG Members

Associated British Ports

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