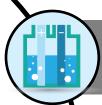


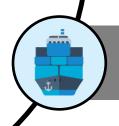
### **Key take-aways: main findings**



1 Ammonia and hydrogen — Most promising zerocarbon bunker fuel options to date



**2 Role of LNG** – Limited role as a fuel, potentially more important role as a feedstock



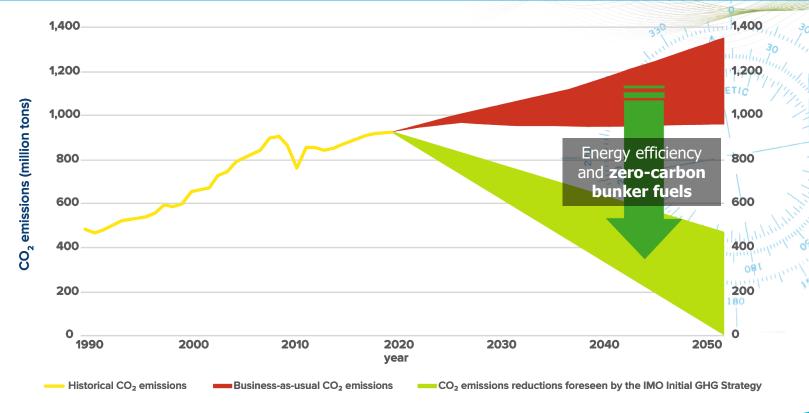
**3 Development opportunities** – Major opportunities for countries and businesses in decarbonizing shipping







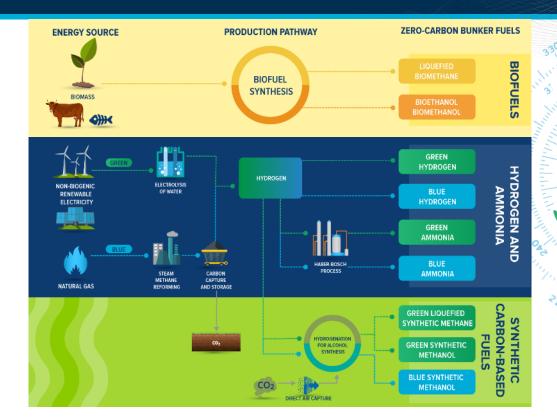
# Forward lookout: shipping's emissions trajectory







### On the horizon: zero-carbon bunker fuels



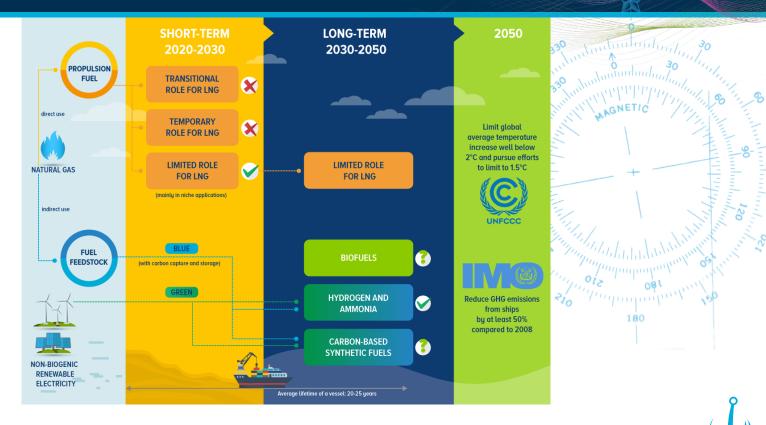


180





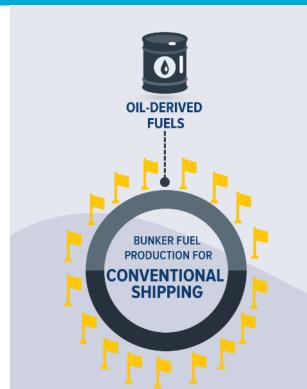
# Navigating the shallows: the role of liquefied natural gas

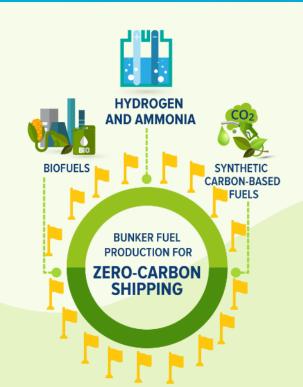






# Turning tides: realignment of the fuel market





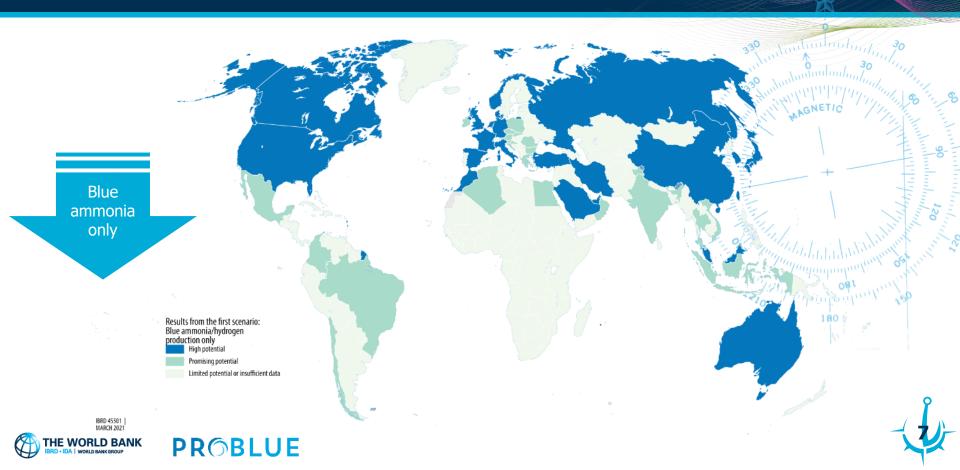


Country with no or insignificant oil reserves, but large renewable energy resources

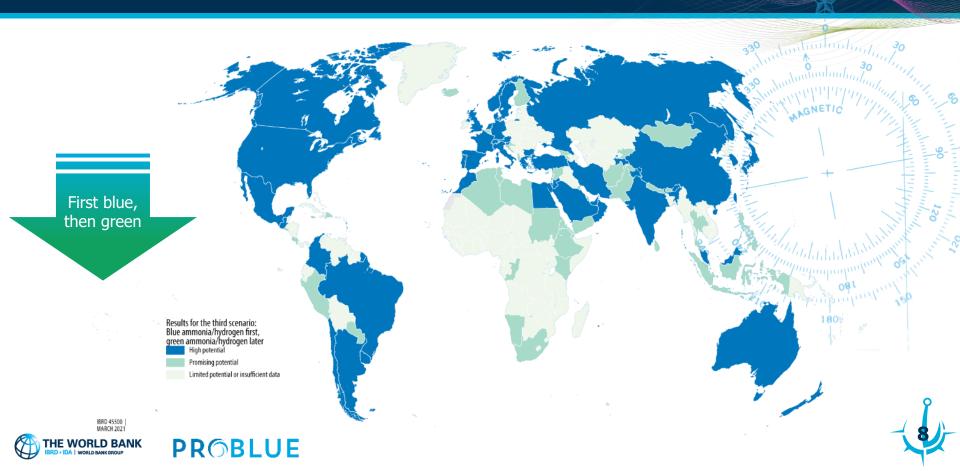




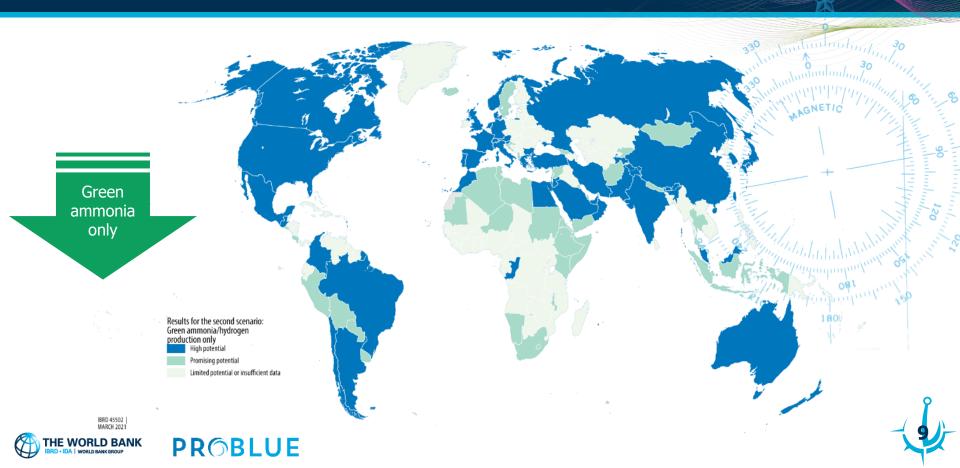
# Setting sail: the potential for zero-carbon bunker fuel production



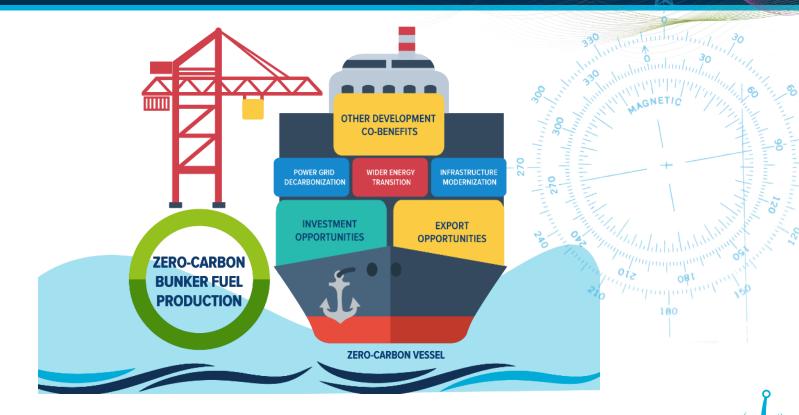
### Setting sail: the potential for zero-carbon bunker fuel production



# Setting sail: the potential for zero-carbon bunker fuel production



### "Treasure Island": wider development benefits







# Charting a course: key implications for policymakers and industry



Public policies



Full lifecycle GHG perspective



"No-regret" options



Constructive collaboration

Policymakers

Industry







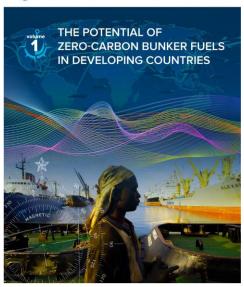
# **Key references**

#### Volume 1:

Zero-carbon bunker fuels



PROBLUE



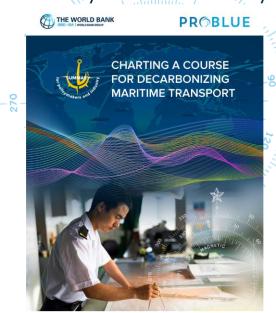
# **Volume 2:** Role of LNG



PROBLUE



# for Policymakers and Industry











# PROBLUE

If you want to build a ship,
don't drum up people together to collect wood
and don't assign them tasks and work,
but rather teach them to long
for the endless immensity of the sea.

Antoine de Saint-Exupéry

# Thank you.



