

Seizing opportunities for developing countries in providing zero-carbon bunker fuels to global shipping

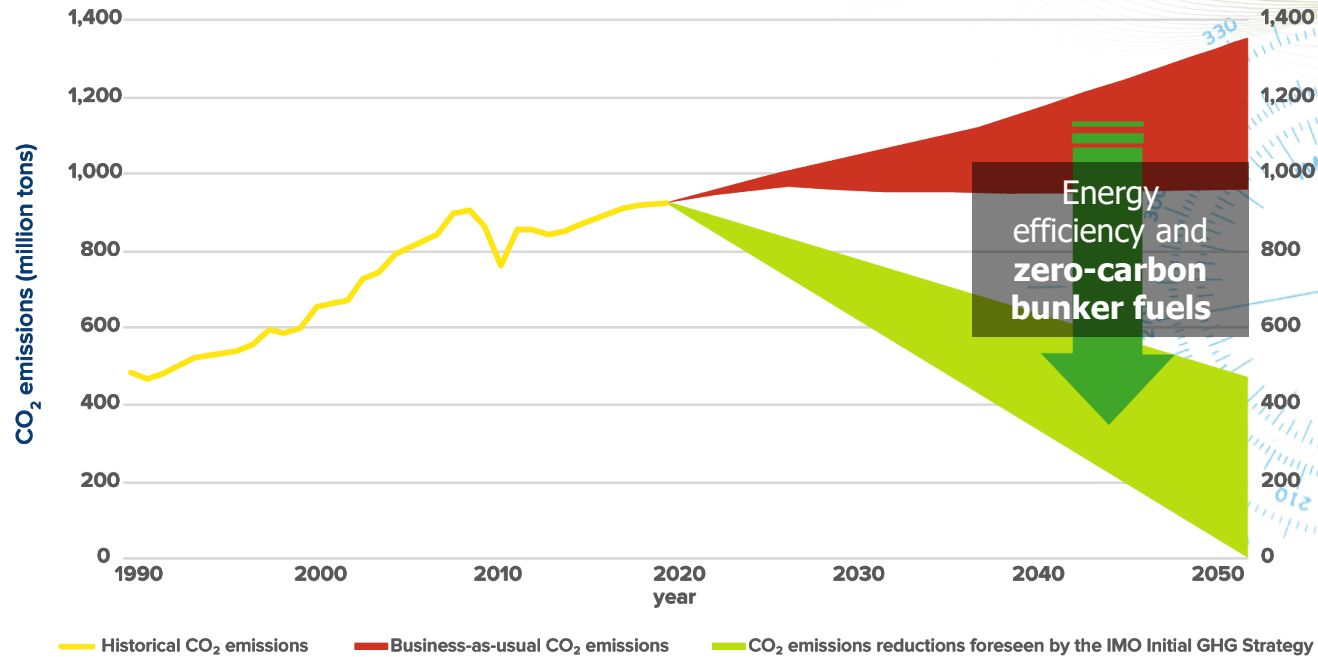


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Mr. Binyam Reja, Acting Global Director, Transport, World Bank
IMO-UNCTAD Side Event at COP26
Wednesday, 10 November 2021

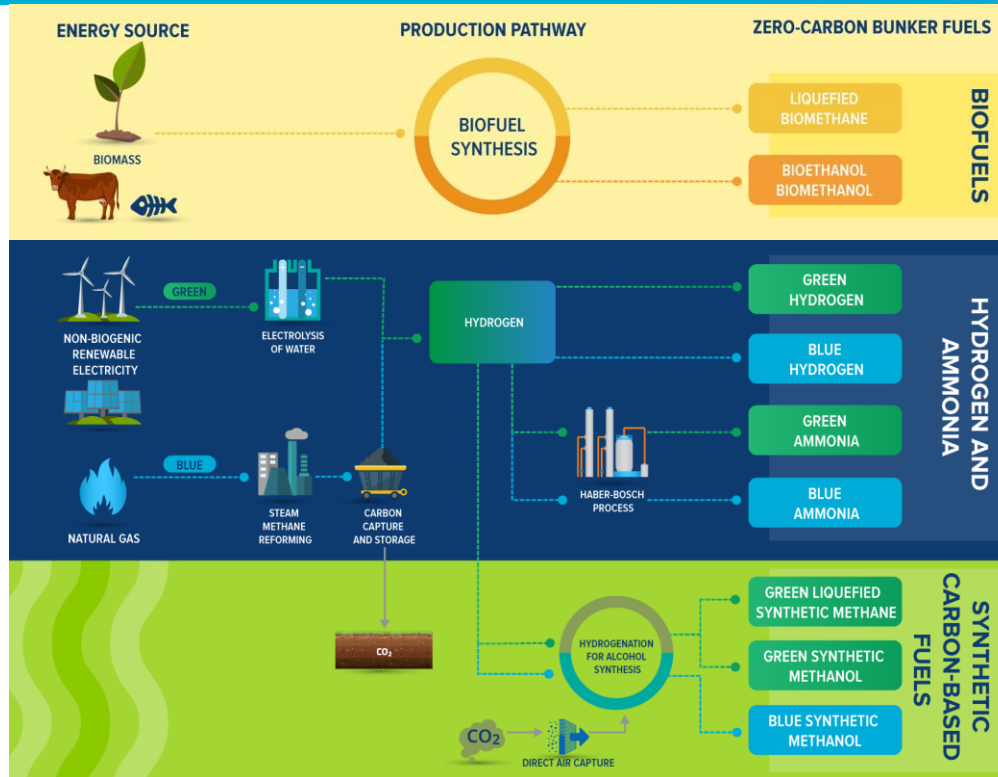


Forward outlook: shipping's emissions trajectory

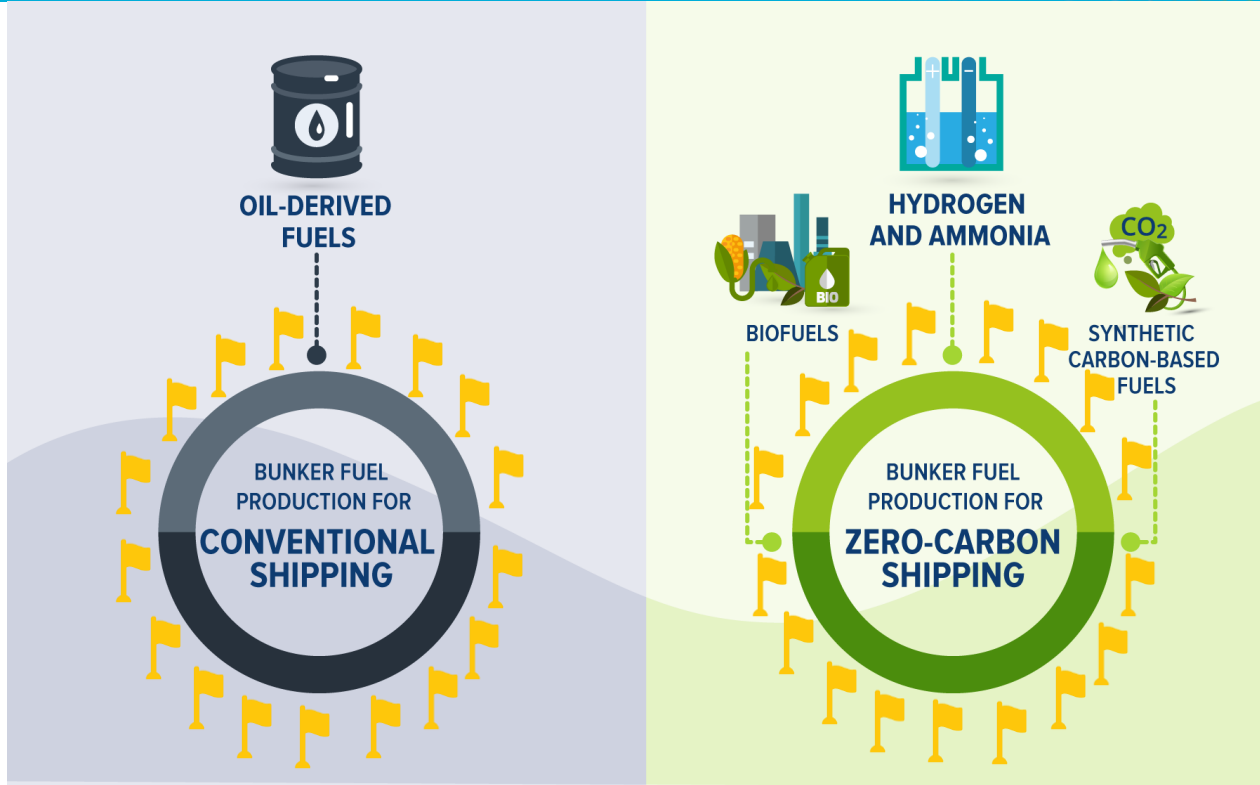



Source: Own graph, based on the Fourth IMO GHG Study (2020)

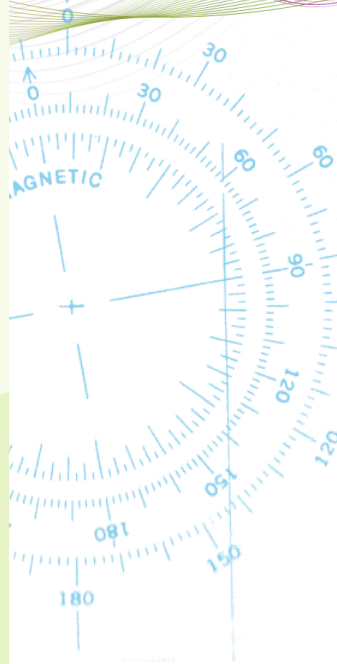
On the horizon: zero-carbon bunker fuels



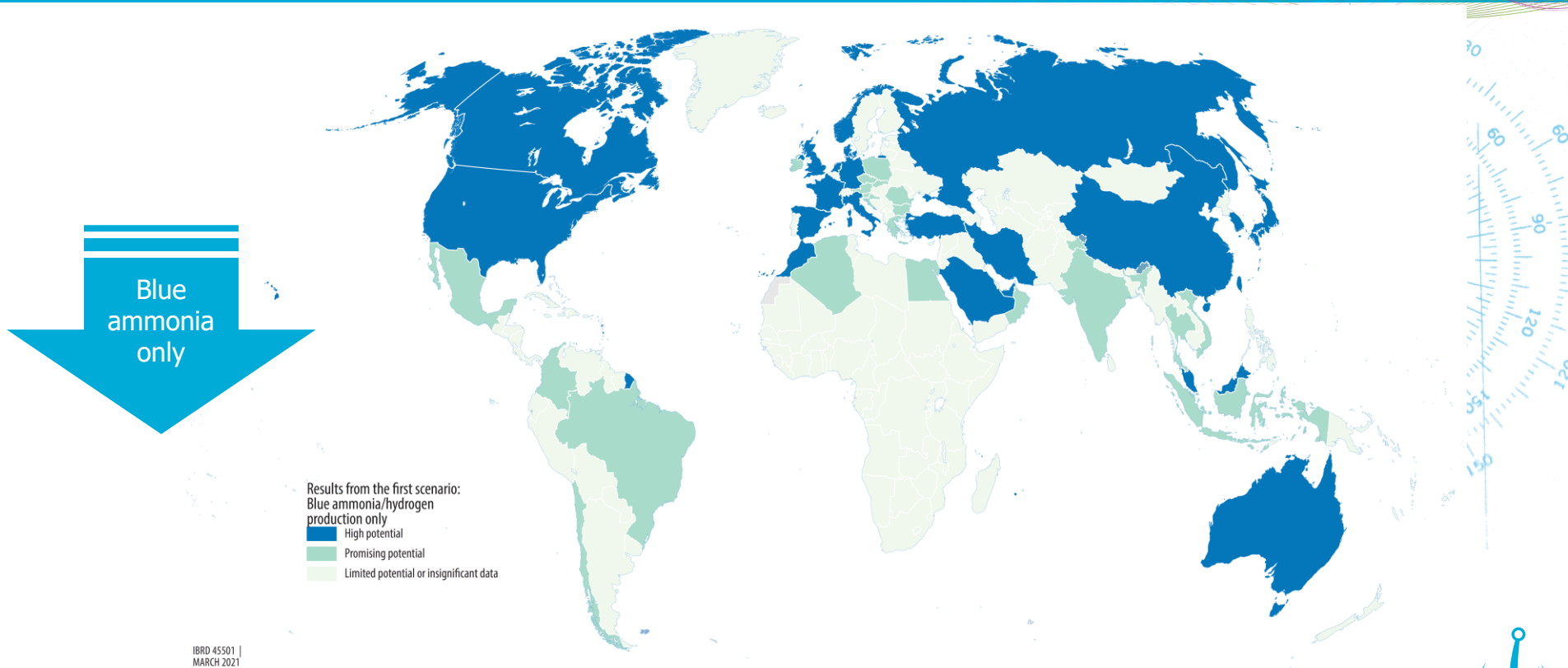
Turning tides: realignment of the fuel market



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



Setting sail: the potential for green/blue ammonia/hydrogen for ships



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MARCH 2021

Setting sail: the potential for green/blue ammonia/hydrogen for ships

First blue,
then green

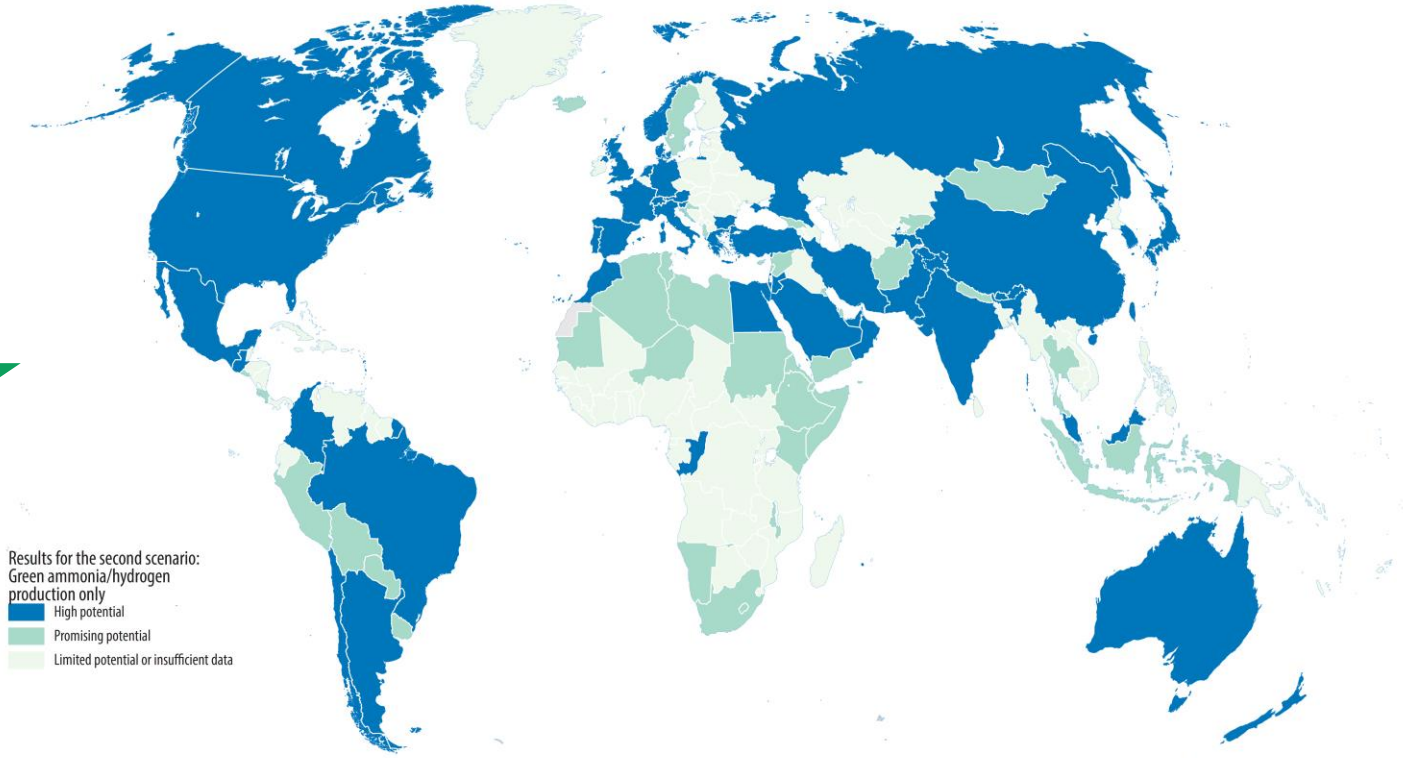
Results for the third scenario:
Blue ammonia/hydrogen first,
green ammonia/hydrogen later

- High potential
- Promising potential
- Limited potential or insufficient data

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Setting sail: the potential for green/blue ammonia/hydrogen for ships

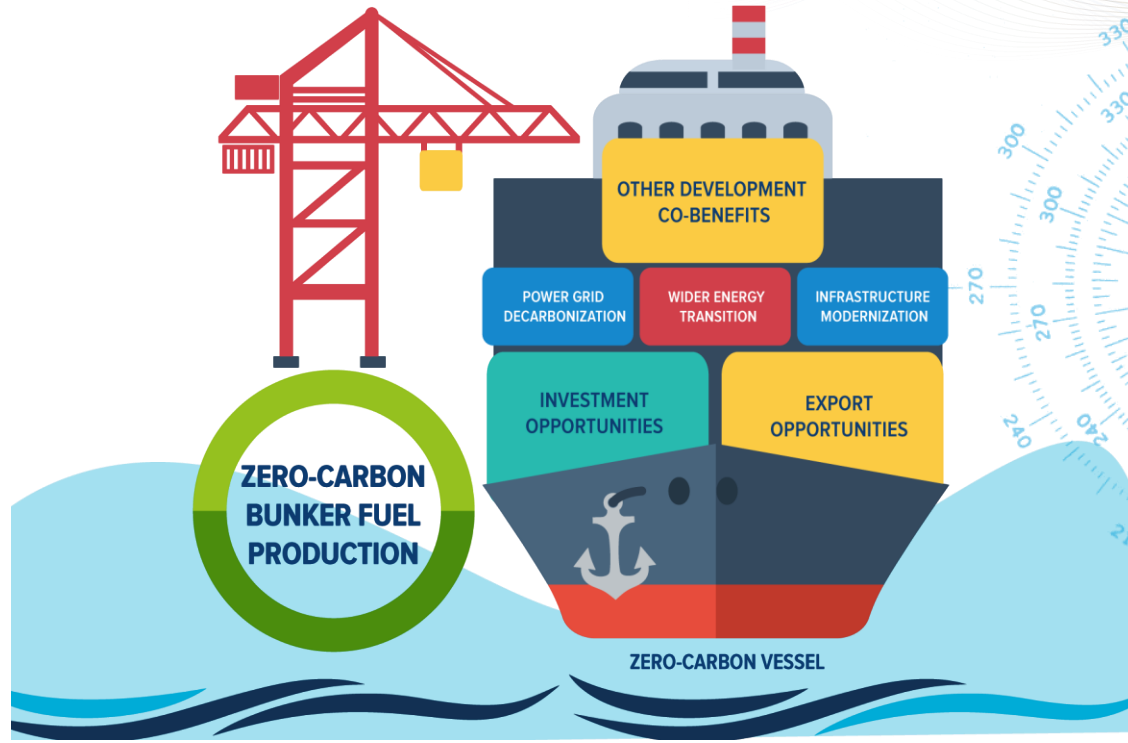
Green ammonia only



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“Treasure Island”: wider development benefits

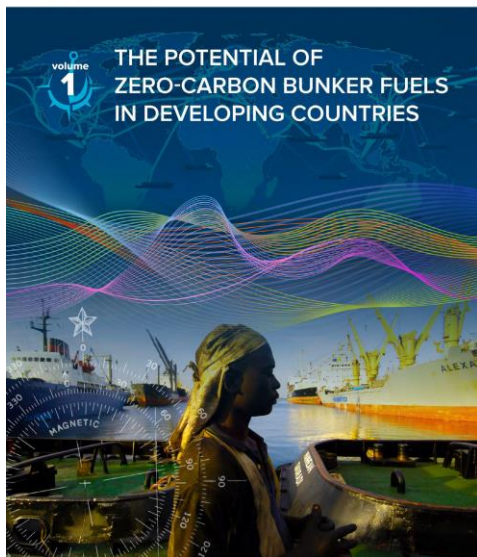


Turning challenges into opportunities in developing countries

Volume 1: Zero-carbon fuels



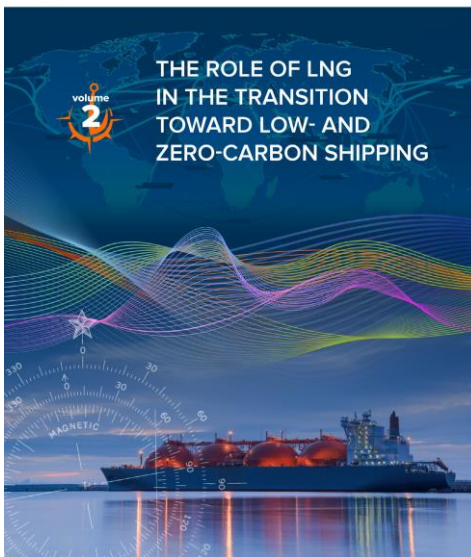
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Volume 2: Role of LNG



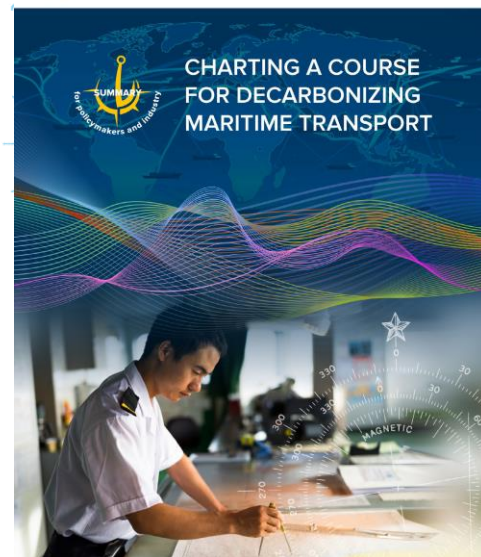
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Summary for Policymakers and Industry

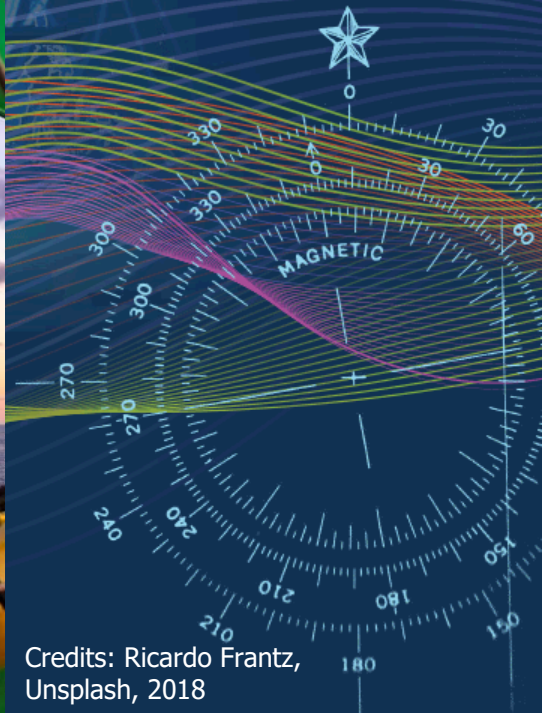


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Thank you.



Credits: Ricardo Frantz,
Unsplash, 2018