

Shipping GHG Emissions - The Debate at IMO

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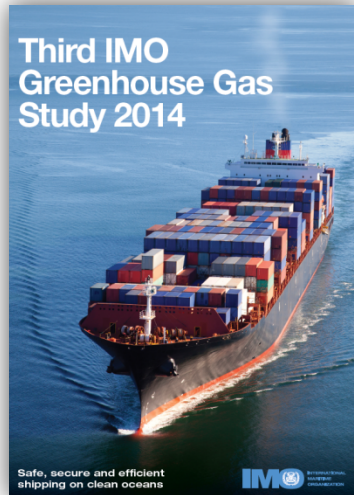
03/08/2017

Foci of our shipping research and consultancy work

2000's

Now

2050

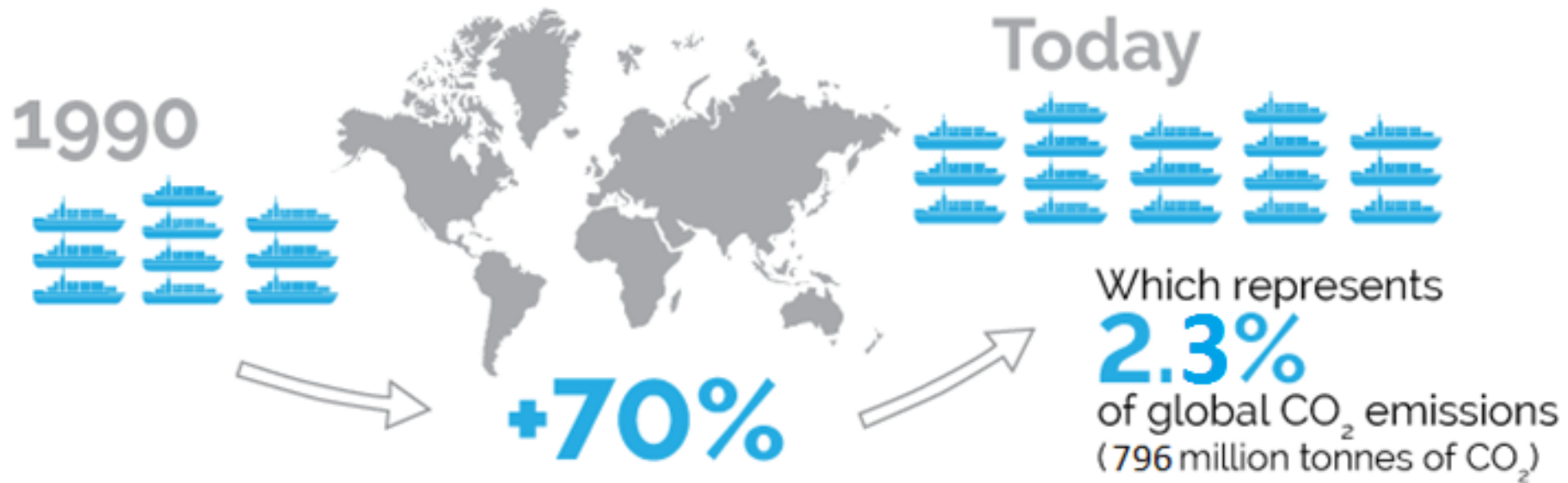


Evidence of recent trends in efficiency/emissions

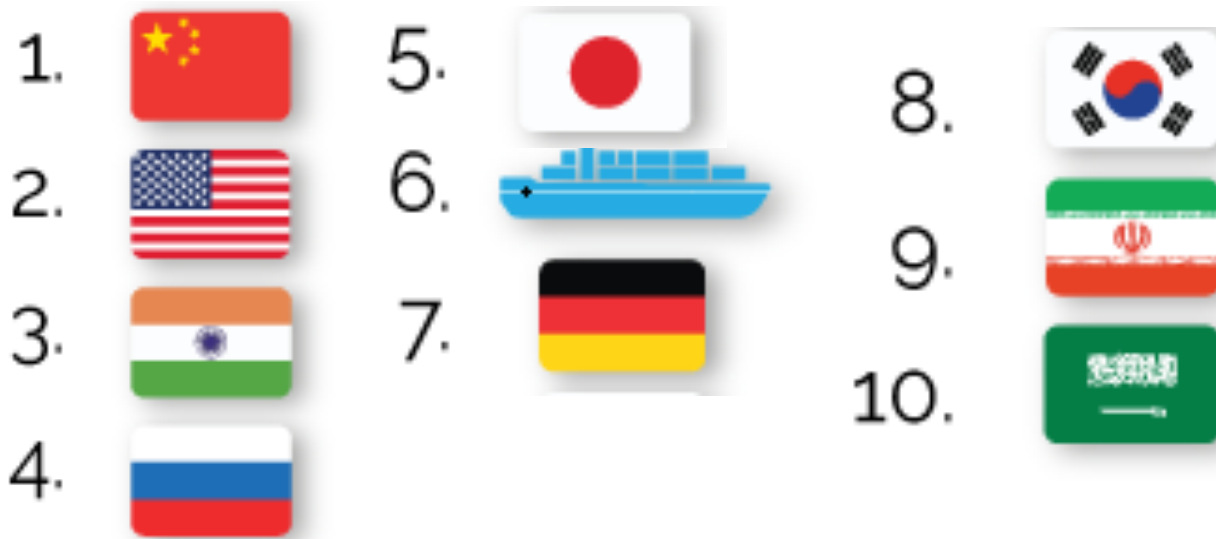


Evidence of how the future of efficiency/emissions might look





CO₂ comparison (or if international shipping was a country):

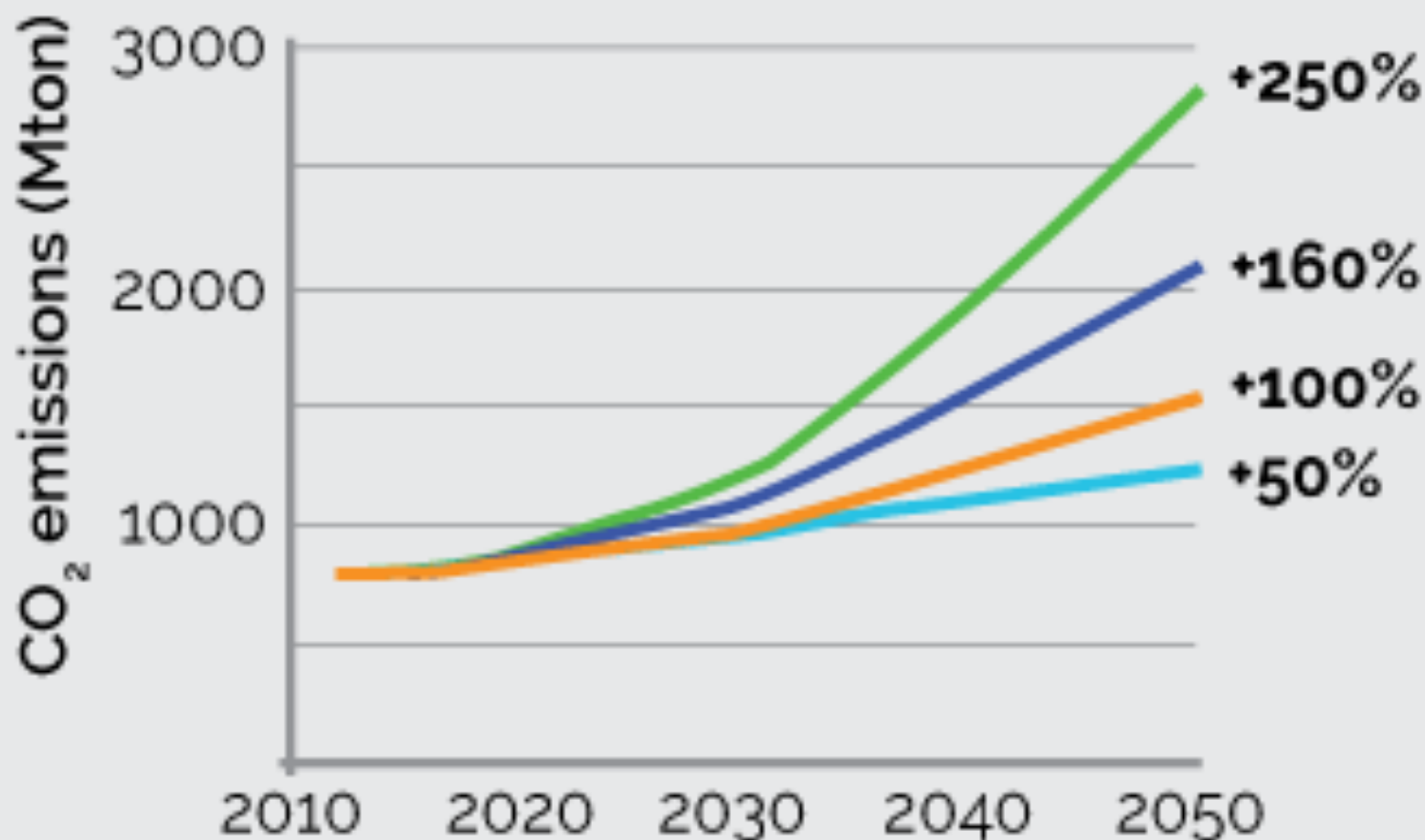


Regulatory oversight

- International Maritime Organization (IMO) in London
 - Marine Environment Protection Committee (MEPC)
- Current regulation:
 - Energy Efficiency Design Index
 - Ship Energy Efficiency Management Plan

Emissions up by 50% - 250%

Business as usual scenarios

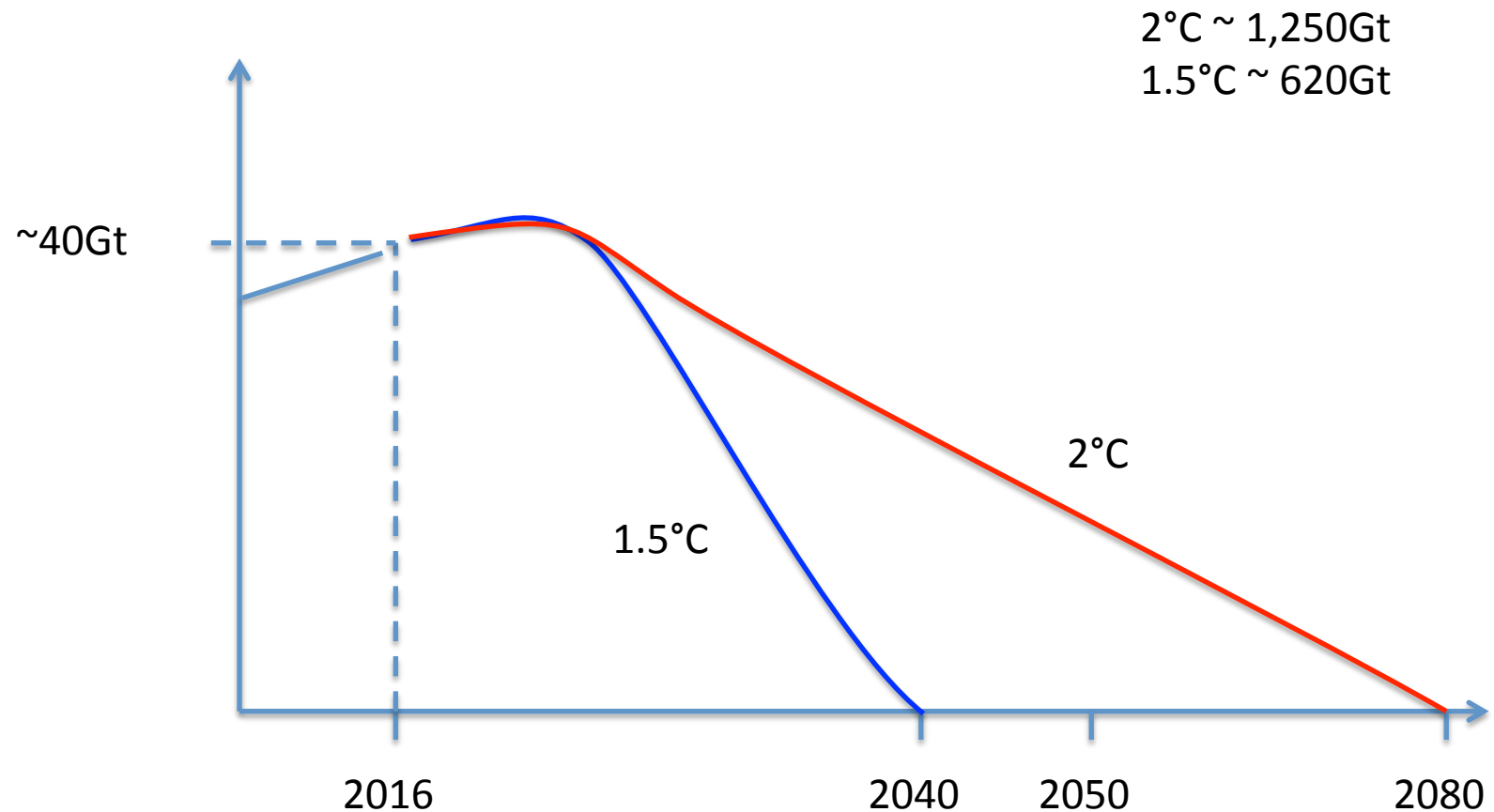


Paris Agreement

Governments agreed

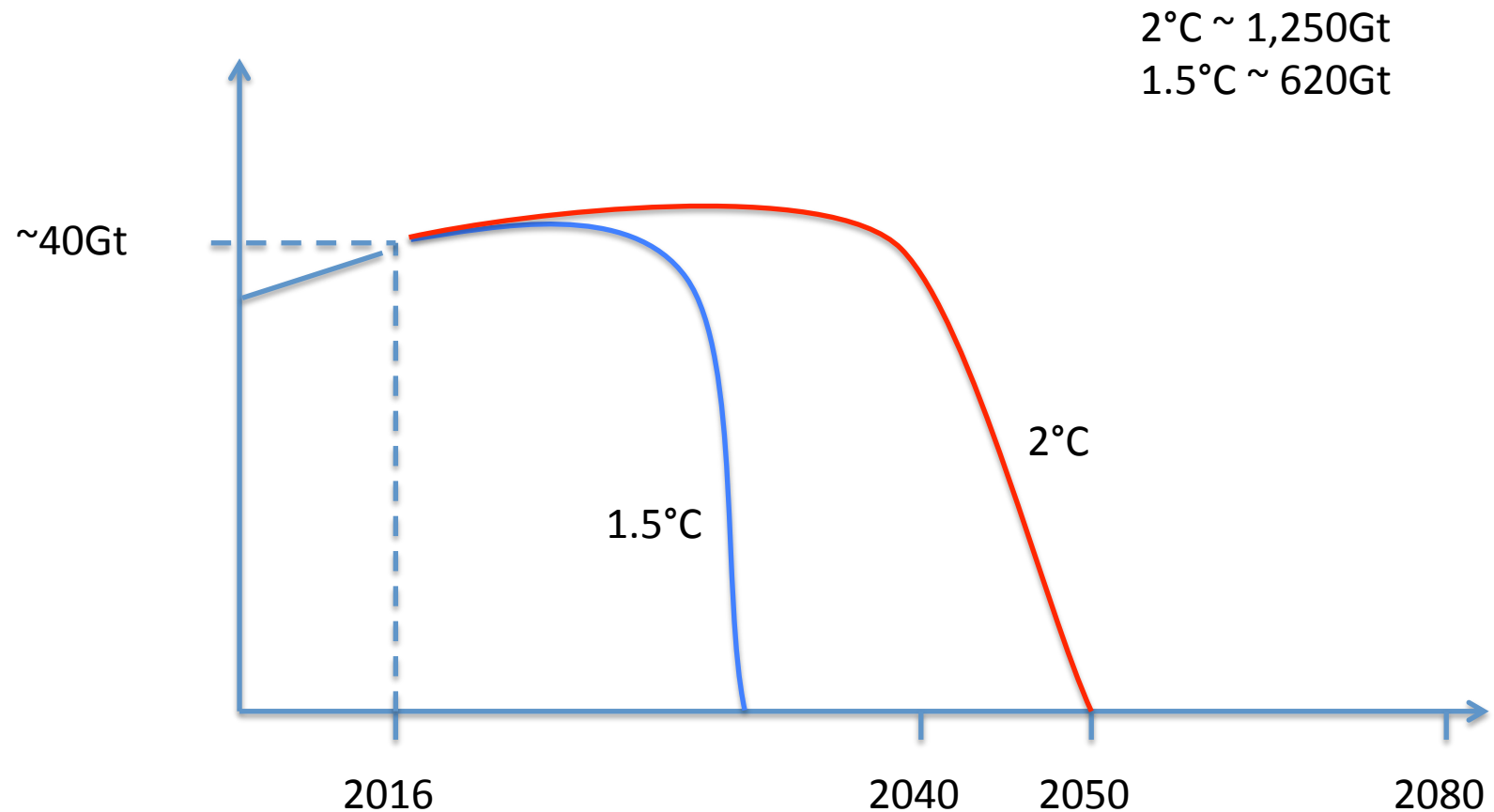
- a long-term goal of keeping the increase in global average temperature to **well below 2°C** above pre-industrial levels;
- to aim to limit the increase to **1.5°C**;
- on the need for **global emissions to peak as soon as possible**;
- to undertake **rapid reductions thereafter** in accordance with the best available science.

Global carbon budgets – glide path

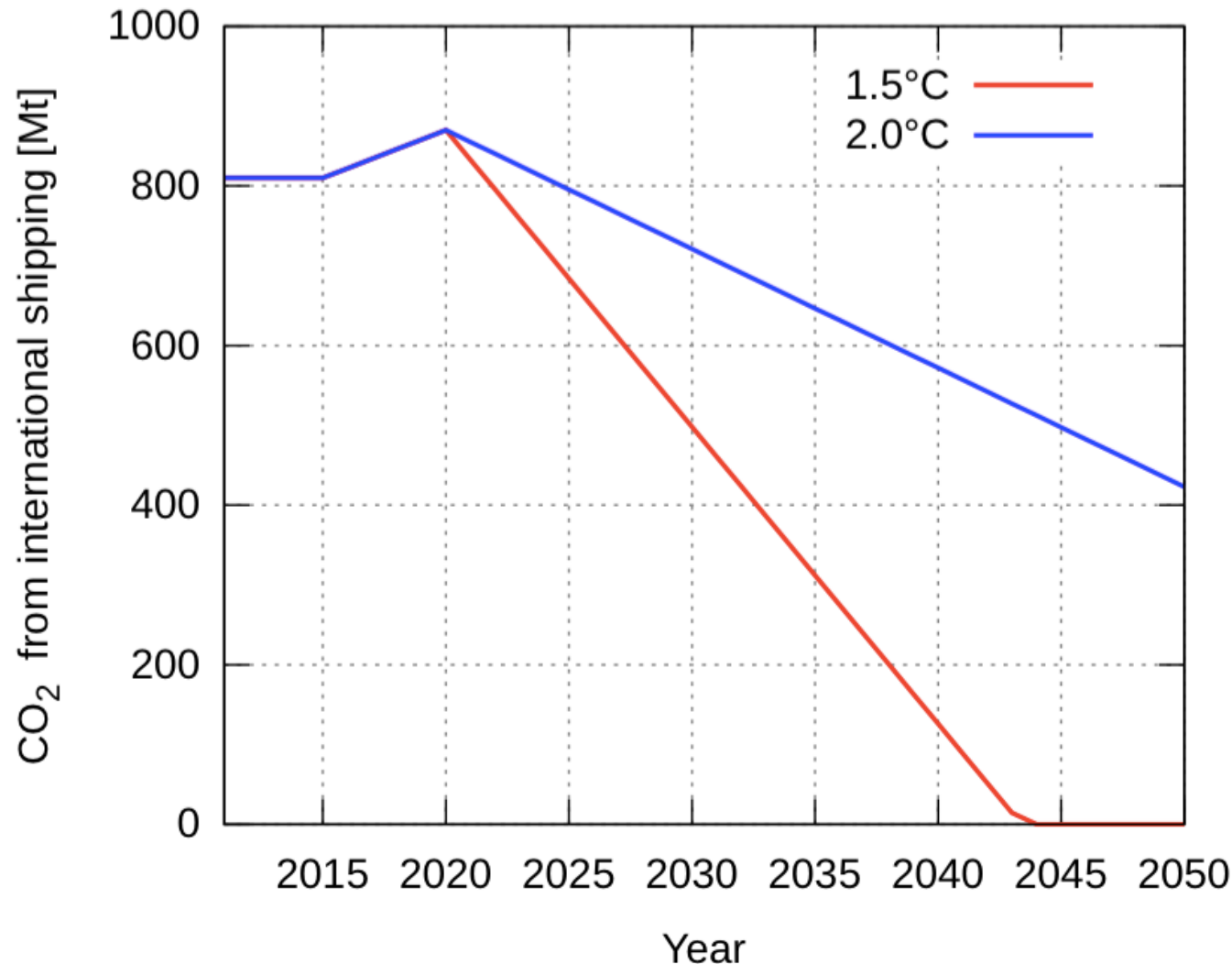


Global carbon budgets

– emit now, pain later



Carbon budgets for shipping



Assumptions:

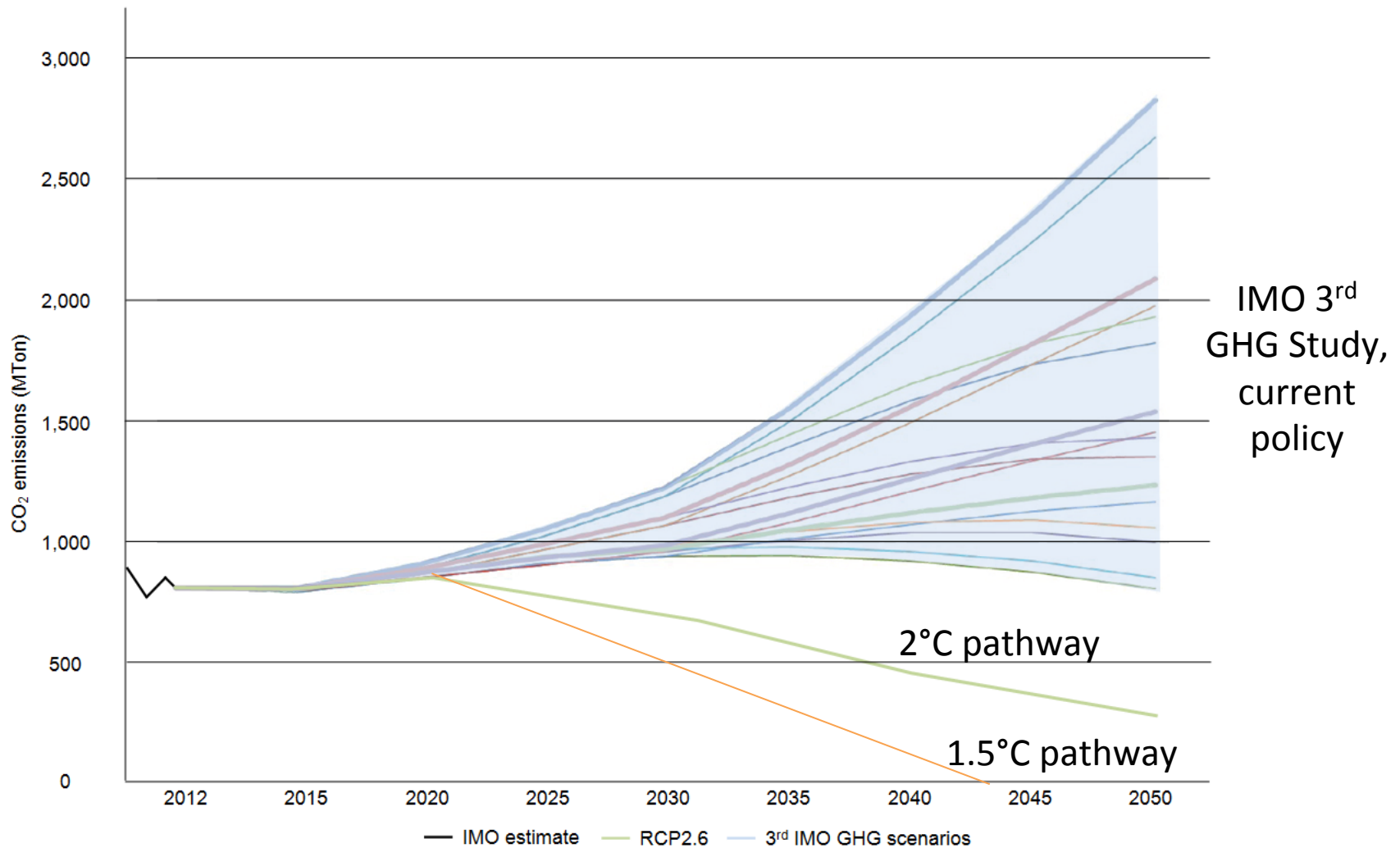
Uses global CO₂ budgets

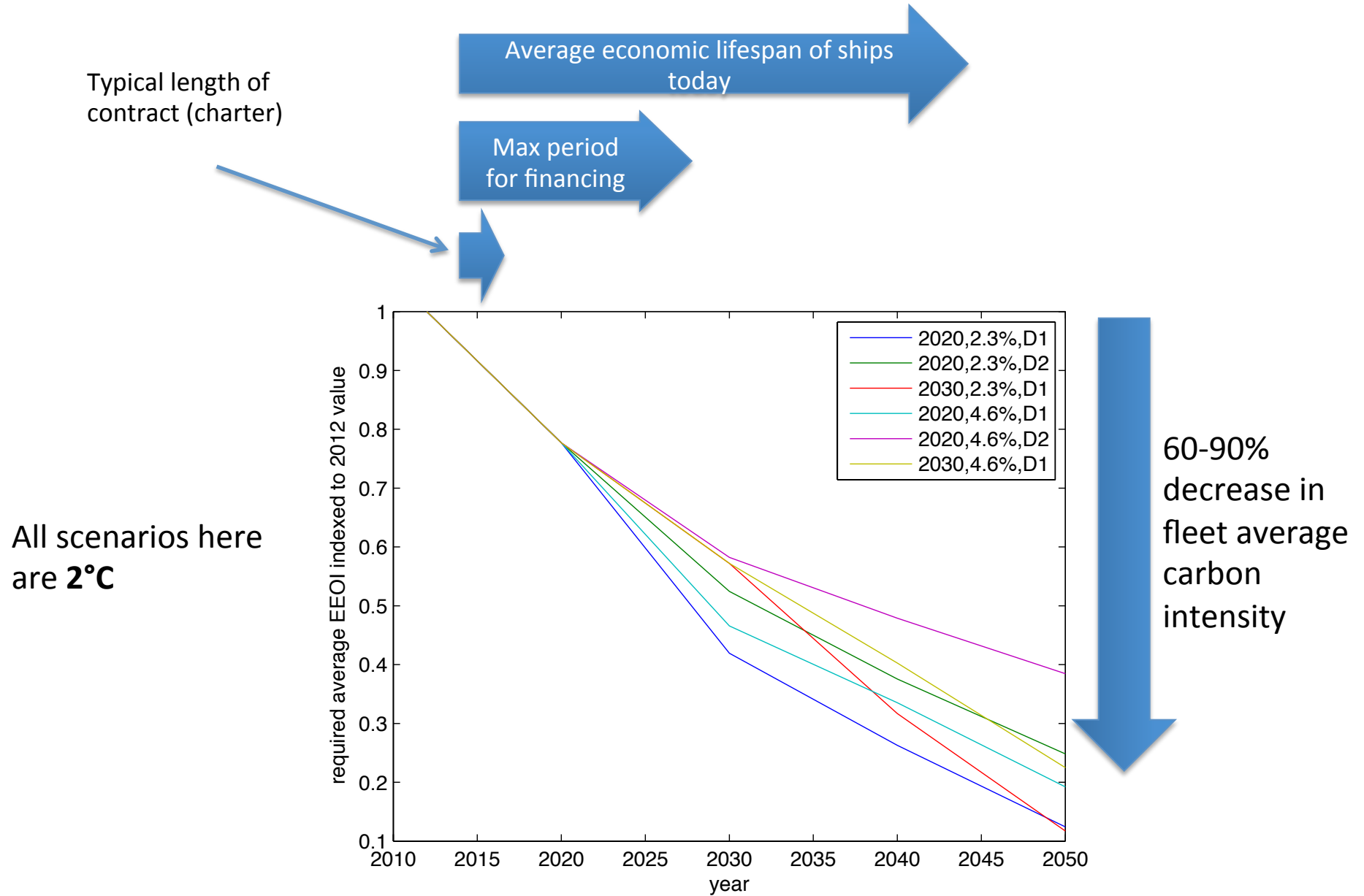
Estimates shipping proportion using 2.3% of global CO₂

2°C ~ 33Gt

1.5°C ~ 18Gt

The scale of the challenge ahead





Roadmap for developing IMO GHG strategy

- Roadmap adopted in October 2016
- Adoption of initial strategy in 2018:
 - Feeding into initial stocktake of UNFCCC in 2018
 - 3 meetings:
 - June/July '17: 1st intersessional and MEPC 71
 - October '17: 2nd intersessional
 - April '18: 3rd intersessional and MEPC 72
- Adoption of revised strategy in 2023 at MEPC 80
 - Data Collection System
 - Fourth IMO GHG Study

1st intersessional & MEPC 71 - Input

- 34 proposals submitted, 11 of which co-sponsored by Pacific Island States
- Many encouraging signs, e.g.
 - Calls for ambitious GHG reduction targets
 - China & India: strategy in line with 1.5 and 2C temperature goal
 - Industry support
 - Importance of low-carbon energy and fuels recognised

Outcome: Outline of the structure of the initial strategy

1. Preamble/ introduction/ context incl. emission scenarios
2. Vision
3. Levels of ambition
Guiding principles
4. List of candidate short-, mid- and long-term further measures with possible timelines and their impacts on States
5. Barriers and supportive measures; capacity building and technical cooperation; R&D
6. Follow-up actions towards the development of the revised strategy
7. Periodic review of the Strategy

What next?

- 2nd intersessional in October
- 3rd intersessional & MEPC 72 in April 2018
- Important to keep up pressure, there will be resistance
- Need to ensure high level of ambition, early adoption of measures
- Work on submissions has started
- Outreach to other countries crucial

Pacific timeline:



HAC 4 Ships

- EU/Pac alliance
- “buddies”
- New partners
- PIDF facilitation & regional outreach
- EU/PIFS financial support
- UCL/USP technical support

IMO Roadmap :

- 23 – 27 October 2nd ISWG
- Deadline for submissions 4 weeks prior (22 September)

Moving forward

- Pacific participation (what and how)
- Regional technicians workshop
- PIDF Leaders' Summit Honiara (22 August)
 - Report back on 1st ISWG & MEPC 71
 - Pacific Position Paper

Thank you!

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