

# *IMO's action toward GHG emissions reduction*

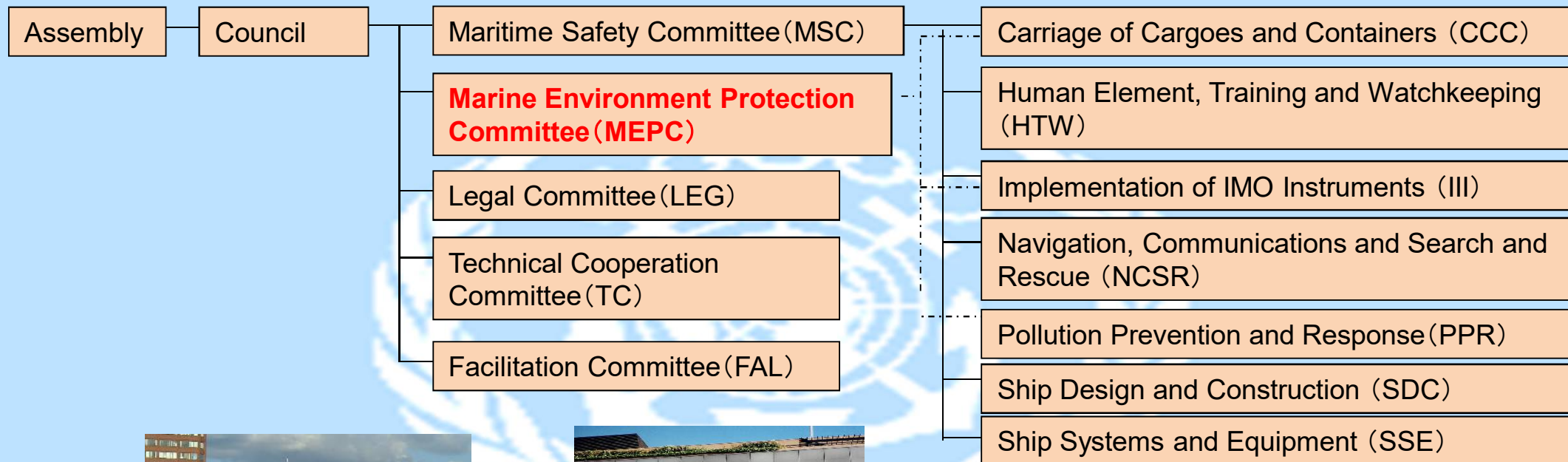
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*13 November 2019*

*Hideaki SAITO*

*Chair, IMO/MEPC*

- ✓ **IMO:** a specialized agency of the United Nations which is responsible for measures to improve the safety and security of international shipping and to prevent pollution from ships
- ✓ **History:** Established in 1958, Headquarters in London
- ✓ **Memberships:** 174 Member States, three Associate Members, 64 intergovernmental organizations, 81 international non-governmental organizations



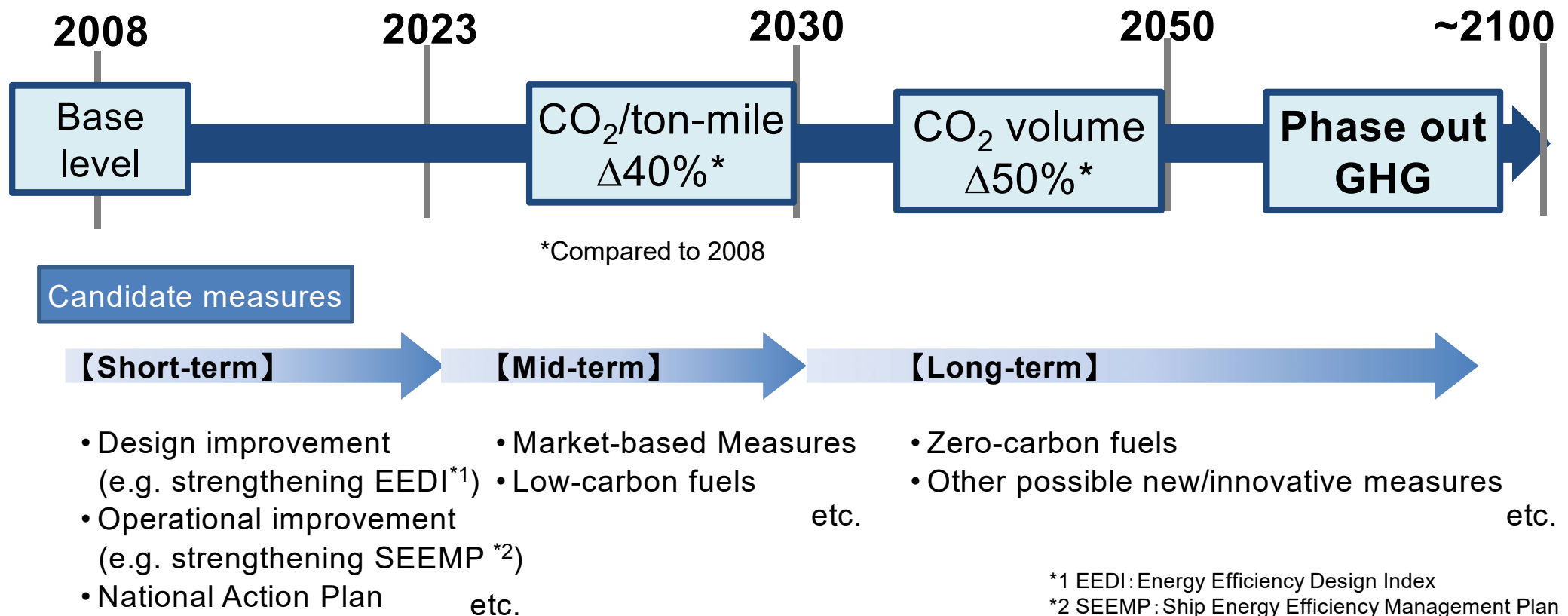
- ✓ MEPC has a role to address environmental issues, and to discuss and develop measures among member States based on MARPOL Convention.
- ✓ Main agenda items in recent years include:
  - Greenhouse Gas emission
  - Sulphur Oxides
  - Nitrogen Oxides
  - Ballast water management
  - Marine plastic litter etc.



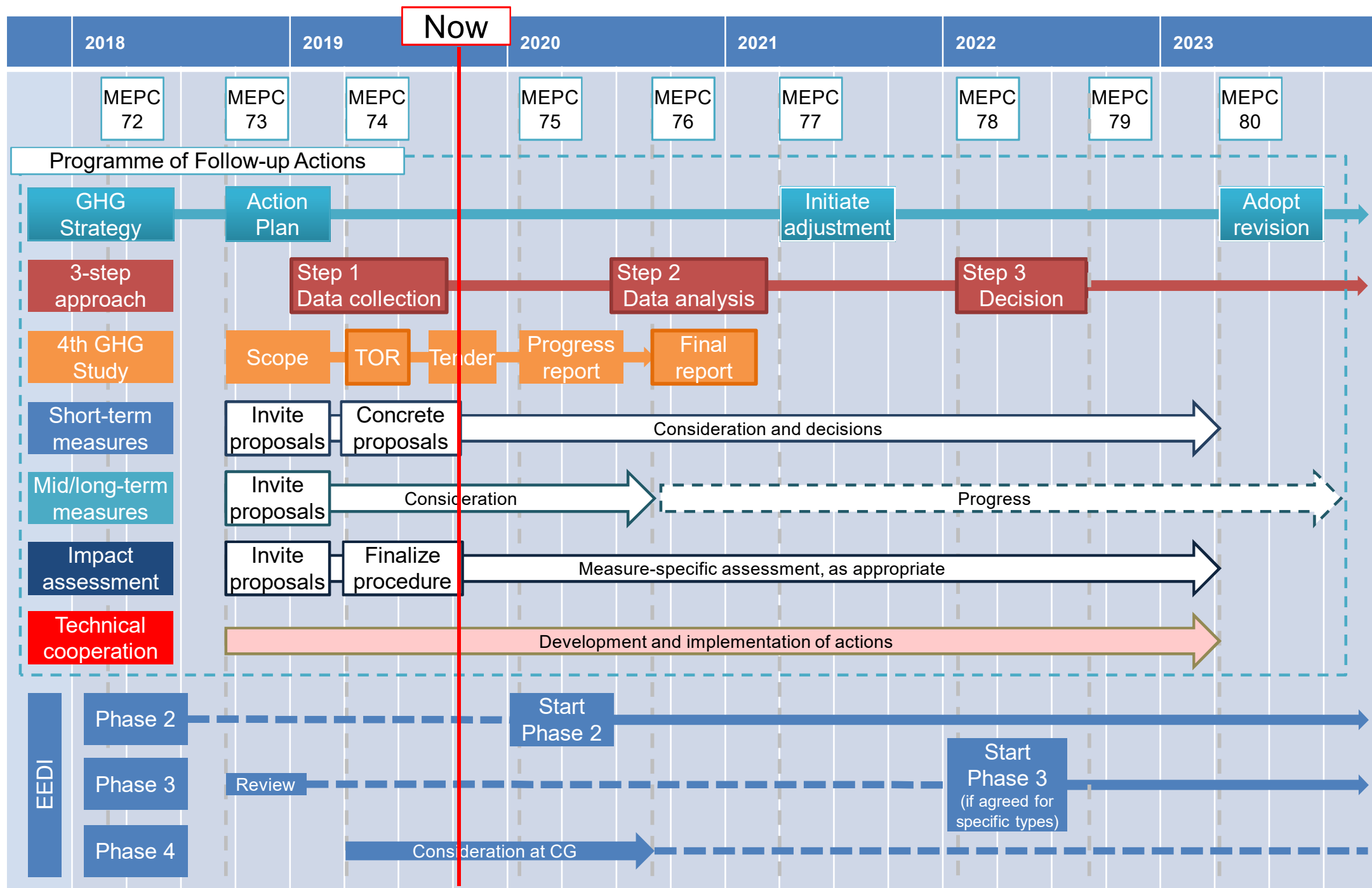


## IMO adopted the GHG Strategy in April 2018

The **first global commitment** by an industrial sector,  
**without differentiation amongst the countries**

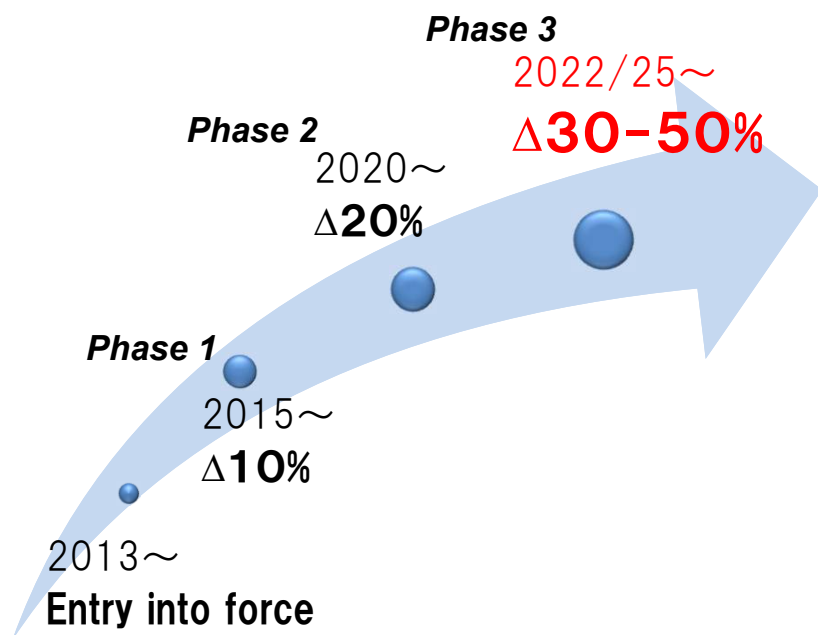


# Programme of Follow-up Actions



- **Mandatory goal-based energy efficiency requirement** applied globally on new ships after 2013
- Gradually strengthened in **phased basis**

$$\begin{array}{ccccc} \text{EEDI} & = & \text{Fuel carbon factor} & \times & \text{Efficiency} \\ \text{[GHG-kg/ton-mile]} & & \text{[GHG-kg/fuel-ton]} & & \text{[fuel-ton/ton-mile]} \end{array}$$



## Introduction of Phase 4 (20XX, ΔX%)

### Ongoing work at the Correspondence Group

- ✓ **Bottom-up exercise**: develop a list of new technologies and alternative fuels along with GHG reduction potential, year of practical use and challenges
- ✓ **Backcasting from the 2050 target**: consider how EEDI can contribute to the initial IMO GHG Strategy
- ✓ **Other technical issues**: scope of application, technical guidelines, evaluation of alternative fuels etc



20+ candidate short-term measures were proposed at MEPC74

✓ **Japan/Norway**

Mandatory Cap on energy efficiency existing ship index, e.g., engine power limit

✓ **Denmark/Germany/Spain**

Mandatory Cap on annual average of energy efficiency

✓ **France/Clean Shipping Coalition(CSC)**

Mandatory Cap on annual average of speed

✓ **International Chamber of Shipping(ICS)**

Mandatory audit of the Ship Energy Efficiency Management Plan (SEEMP)

✓ **World Shipping Council(WSC)**

Mandatory R&D contributions per tonne of fuel

# Global initiatives involving the industries

## Poseidon Principles



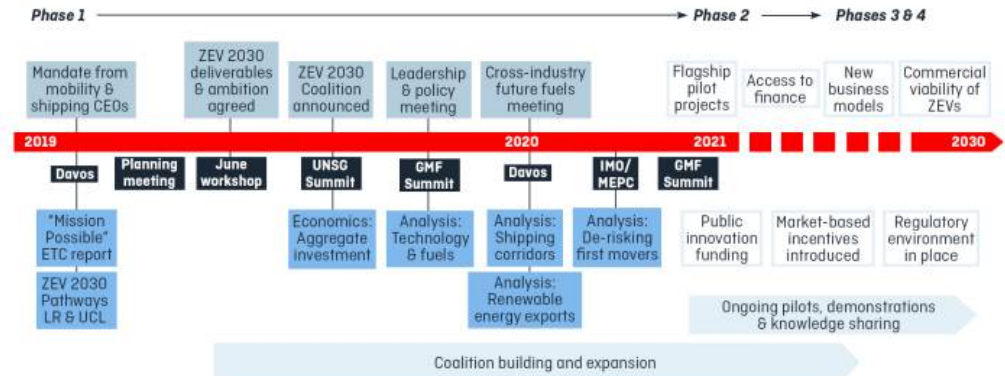
**POSEIDON  
PRINCIPLES**



**GLOBAL  
MARITIME  
FORUM**



## Getting to Zero Coalition





THANK YOU!



**MB**

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