Strengthening Regional Ocean Governance to Protect Marine Environment: A Case Study of the Yellow Sea Large Marine Ecosystem Project

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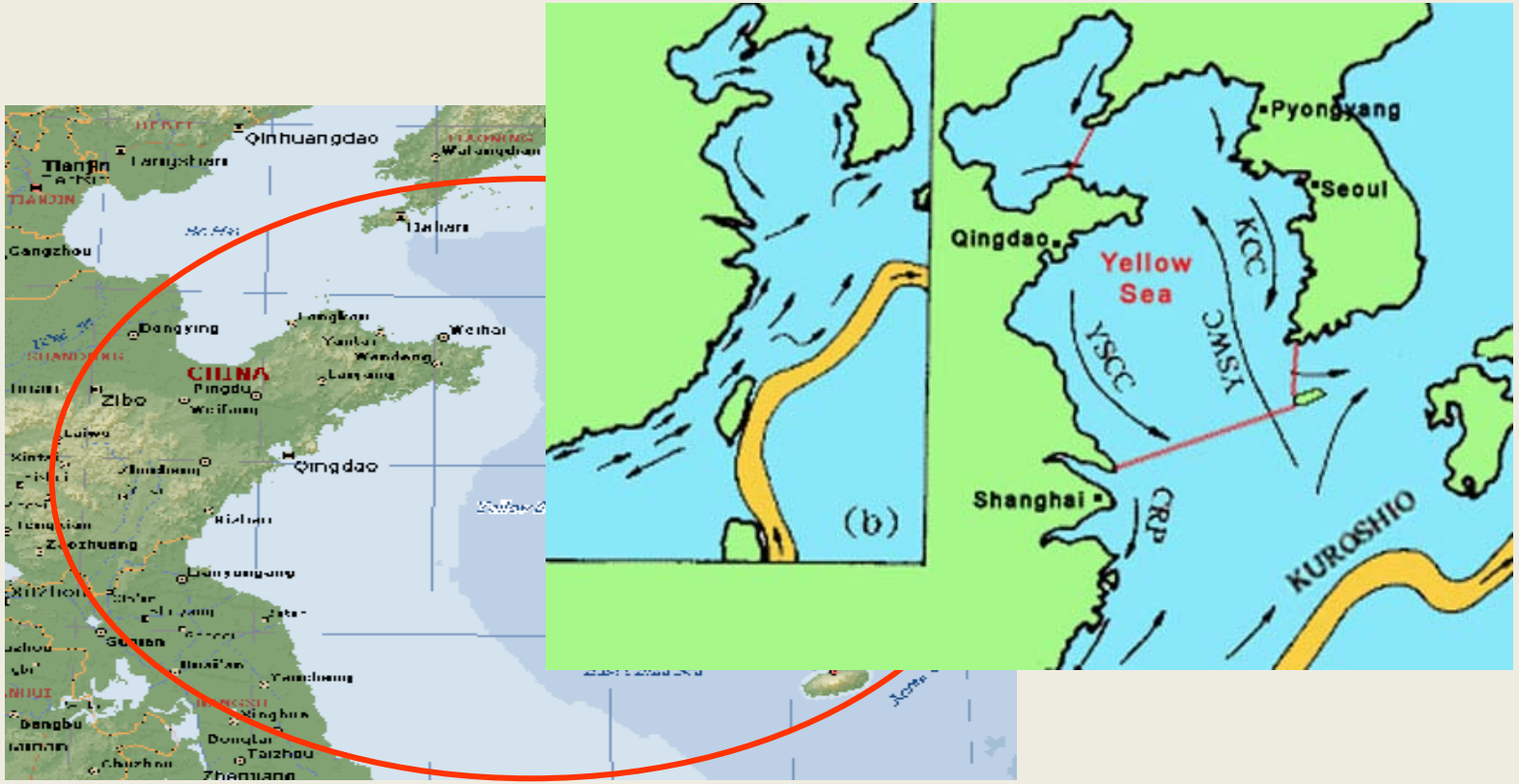
Introduction of the YSLME Project

- Geographic boundary



Introduction of the YSLME Project

- Major environmental problems

Introduction of the YSLME Project

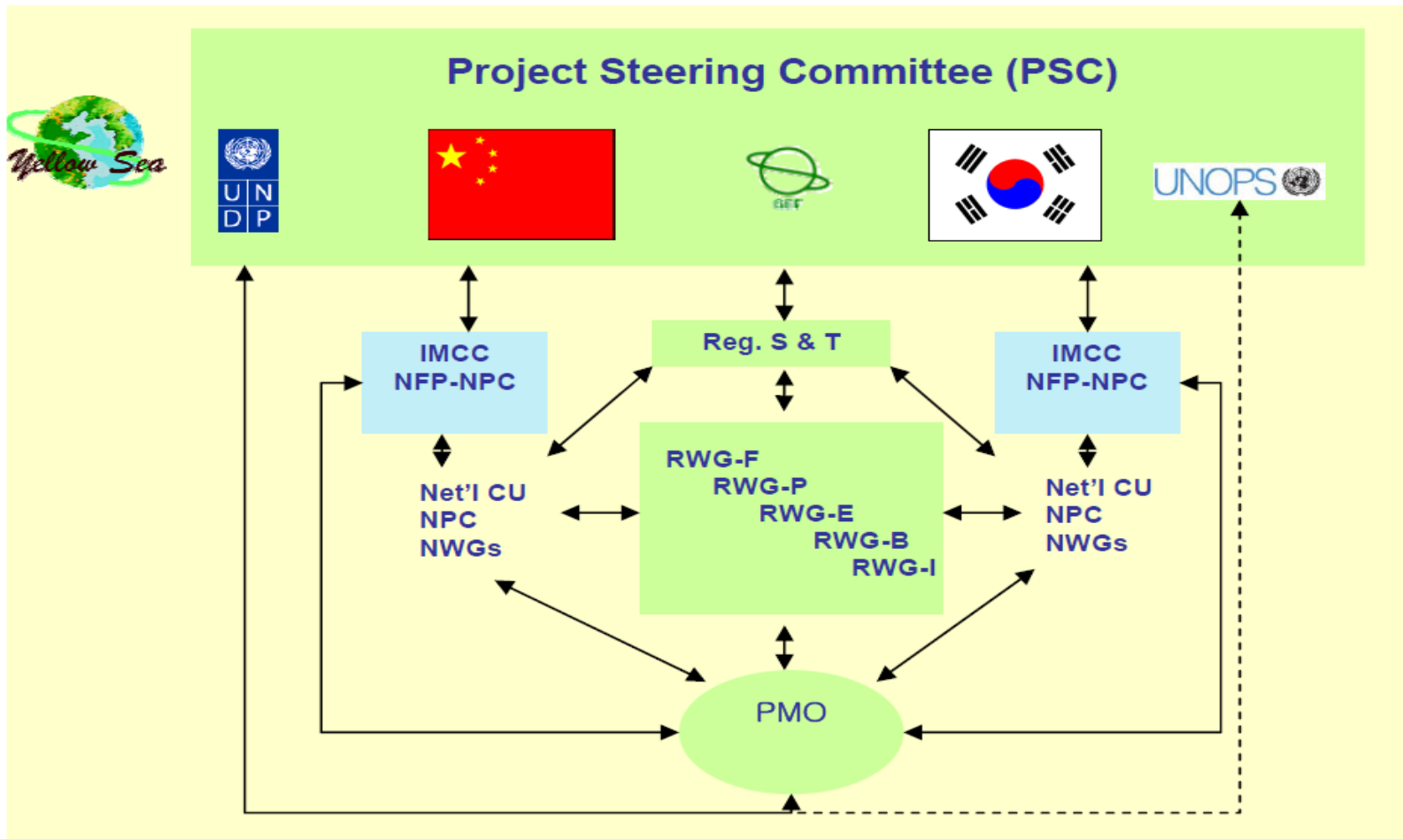
- The YSLME Project
  - UNDP, GEF, the People's Republic of China and the Republic of Korea
  - Its aims

Introduction of the YSLME Project

- Major achievements
  - A practical Strategic Action Plan
    - Regional targets
    - Actions
      - » 2 level technical actions
      - » Governance actions
      - » Legal and institutional actions
  - Joint data research
  - Involvement of DPRK
  - Demonstration activities

The structure of regional ocean governance in the YSLME Project

- An effective regional coordination framework



The structure of regional ocean governance in the YSLME Project

- A wide participation of stake holders

Top down process

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Parliamentary meeting
Local government training

Bottom up process

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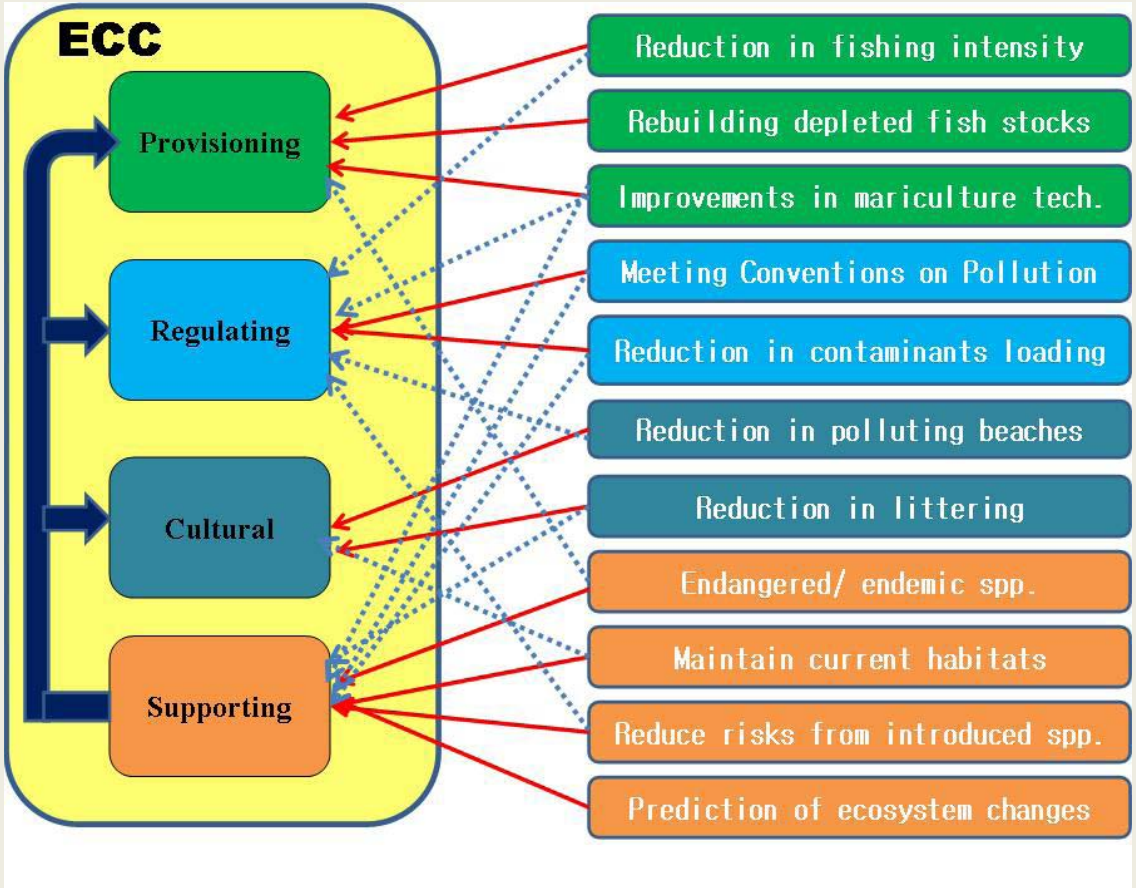
Youth program
Intern program
Small grant program

The structure of regional ocean governance in the YSLME Project

- An ecosystem-based approach
  - Science driven
  - ECC
    - Targets
    - Actions



The structure of regional ocean governance in the YSLME Project

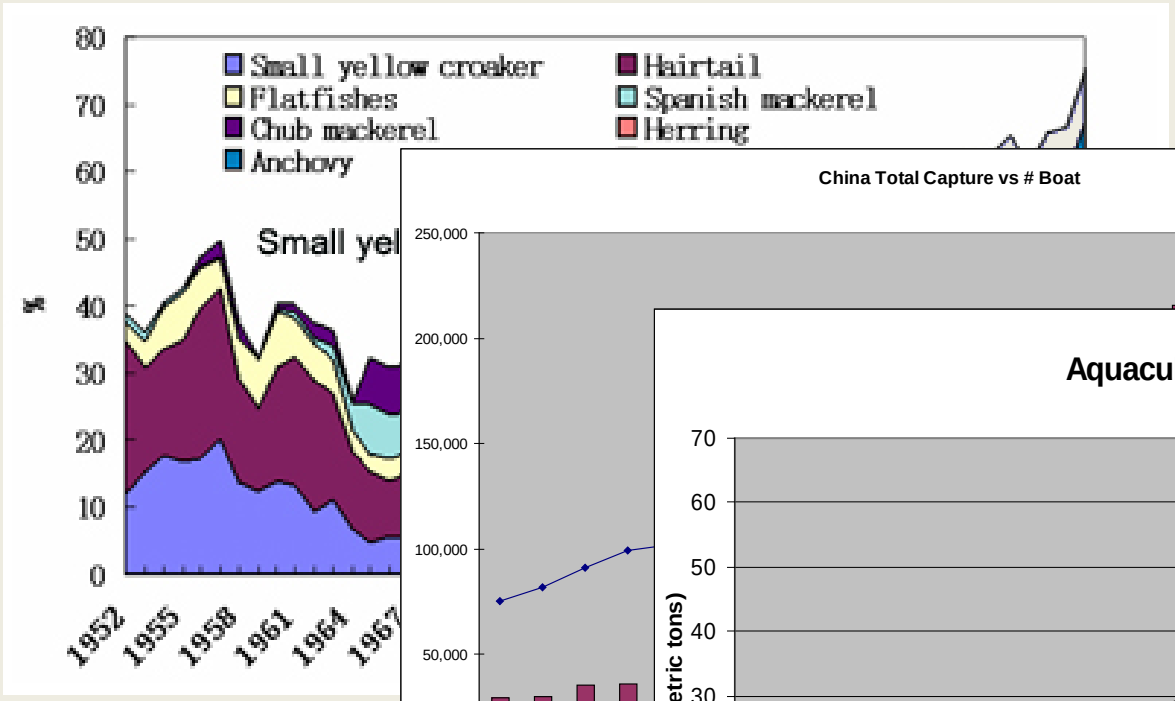
- ECC
  - Targets
  - Actions

a 25-30% reduction in fishing effort
- Control fishing boat numbers
- Stop fishing in certain areas/ seasons
- Monitor and assess stock fluctuations

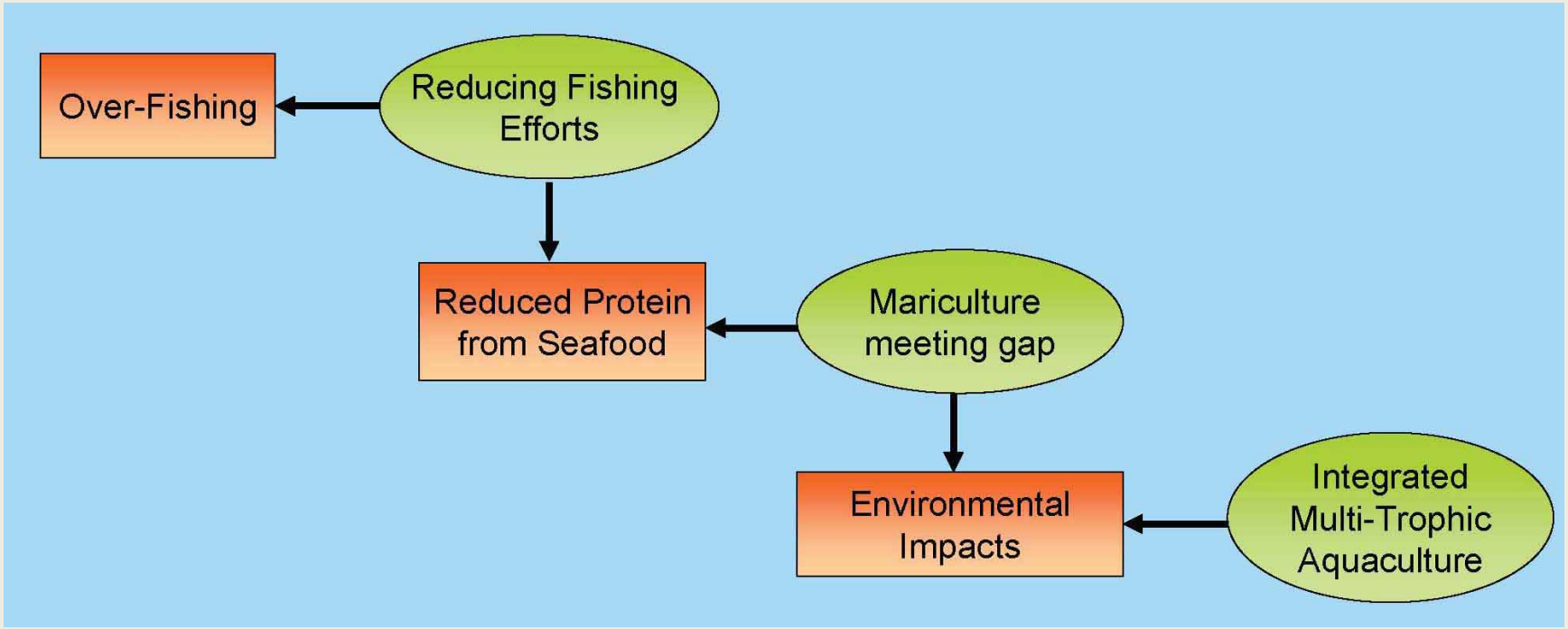
the rebuilding of fish stocks
- Increase mesh size
- Enhance stocks
- Improve fisheries management

Improvement of sustainable mariculture techniques to reduce environmental stress
- Develop environment-friendly mariculture methods and technology
  - Encourage Integrated Multi-trophic Aquaculture (IMTA)
- Reduce nutrient discharge
- Control diseases effectively

The structure of regional ocean governance in the YSLME Project

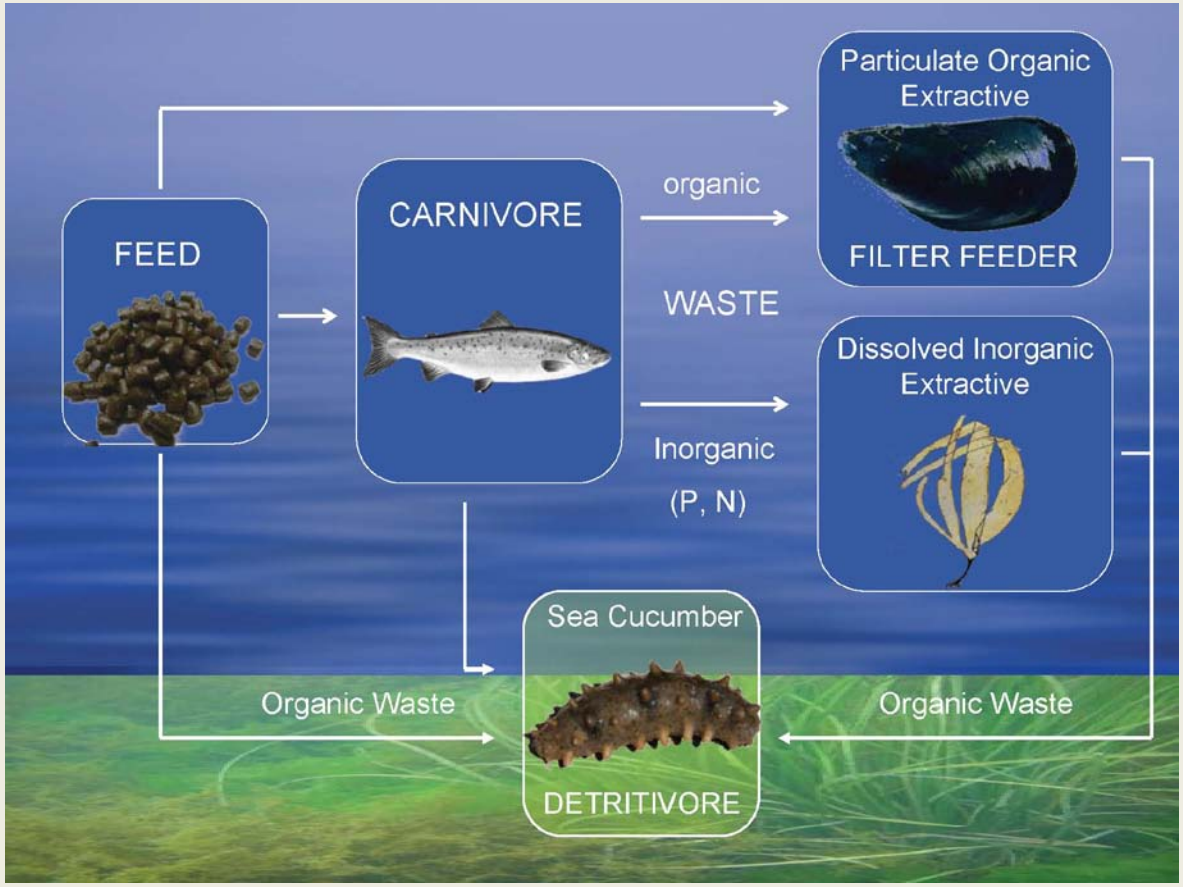


The structure of regional ocean governance in the YSLME Project



The structure of regional ocean governance in the YSLME Project

- IMTA concept: The particulate waste in the water column is removed by filter feeding bivalves, while the portion that ends on the seafloor is utilised by sea cucumbers. The dissolved inorganic nutrients (N, P & CO_2) are absorbed by the seaweed that also produces oxygen, which in turn is used by the other cultured organisms. Modified from (Fang et al. 2009)



Weak points of this ROG structure

- An ineffective national coordination mechanism
- Lack of total planning of the region
- Lack of scientific study of the ECC method