



**Asia-Pacific
Economic Cooperation**

2014/AOMM/005
Agenda Item: 4.2

The Role of the Ocean in Food Security

Purpose: Information
Submitted by: Chinese Taipei



4th APEC Ocean-Related Ministerial Meeting
Xiamen, China
28 August 2014

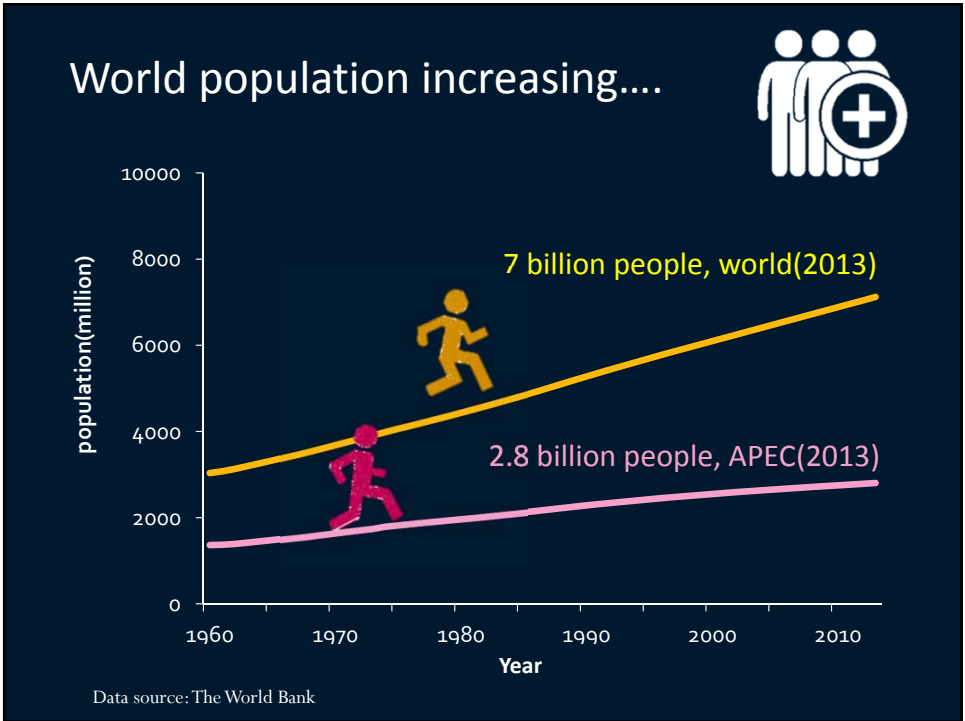


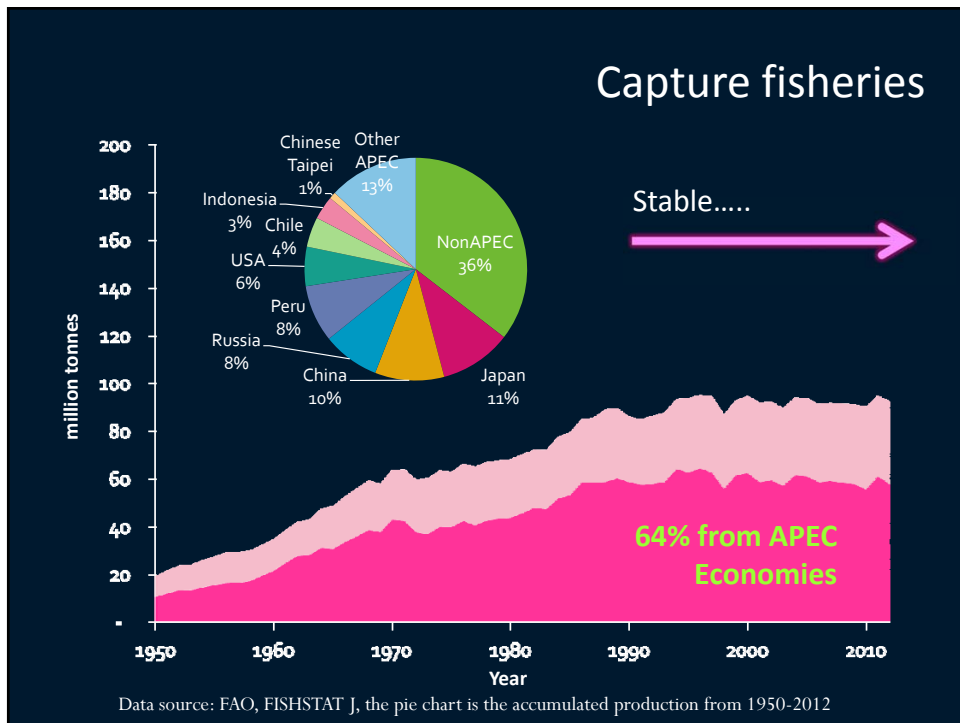
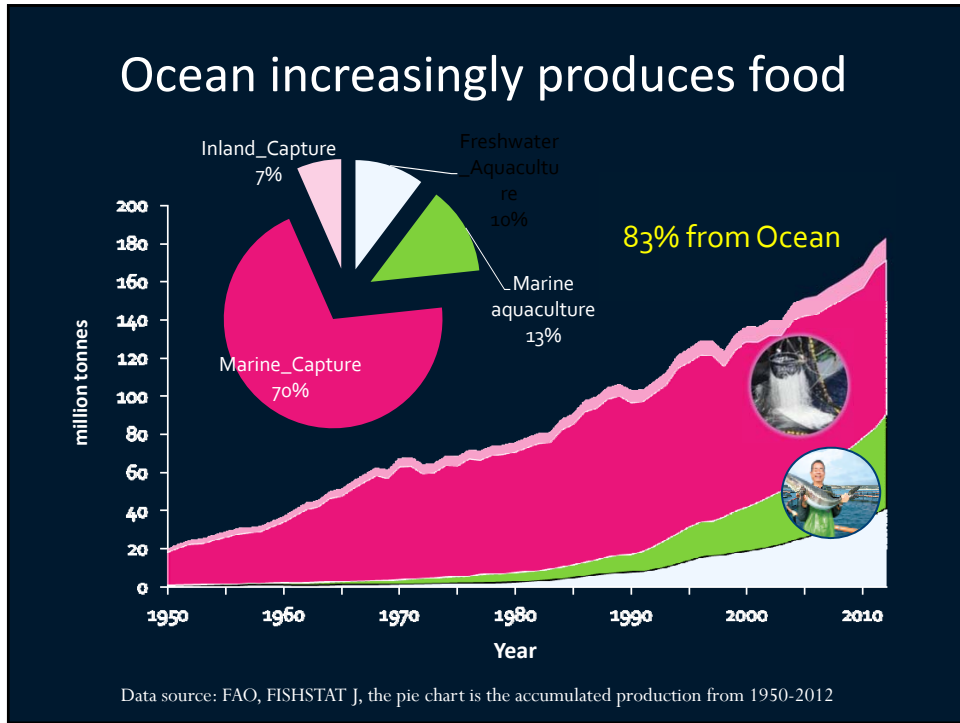
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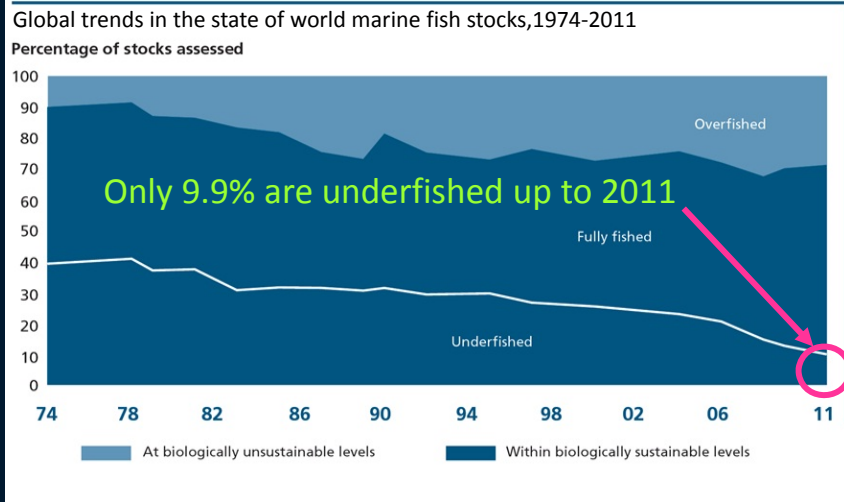
The Role of the Ocean in Food Security

Minister Bao-Ji Chen
Council of Agriculture, Chinese Taipei
August 28 2014





Marine fish resources are limited



Source: FAO, SOFIA, 2014

Threats to Capture Fisheries

Overcapacity

Expanding fishing areas & Insufficient management


Discards & bycatch

IUU fishing

Pollution

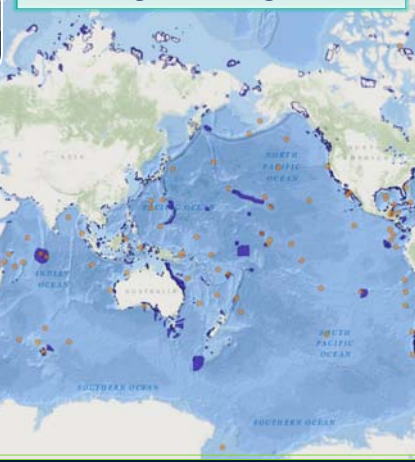
(Daniel Pauly, 2004)


Solutions for Sustainable Capture Fisheries



Capacity Management


Expanding MPAs & strategic management






Full utilization

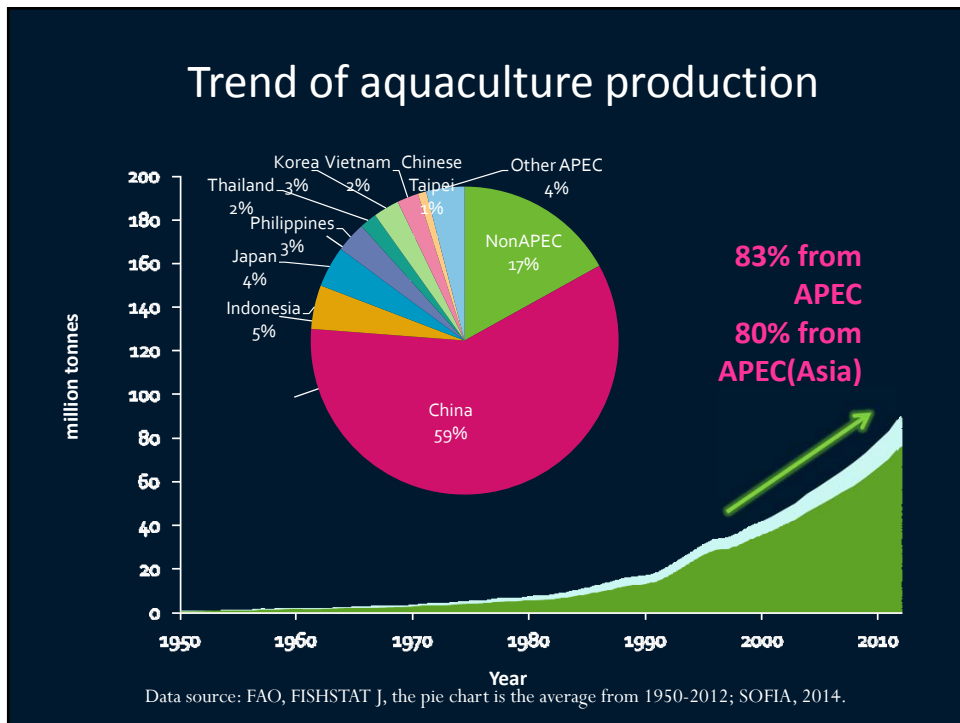
Combat IUU fishing



Pollution prevention



Basemap © ESRI, MPA data from [MPAtlas](#), [WDPA/ProtectedPlanet](#), [US MPA Center](#)



Challenges Impeding Aquaculture Growth



Insufficient wild seed



Fish meal shortage



Disease



Environmental impact

Solutions of Aquaculture Growth



Diversified species



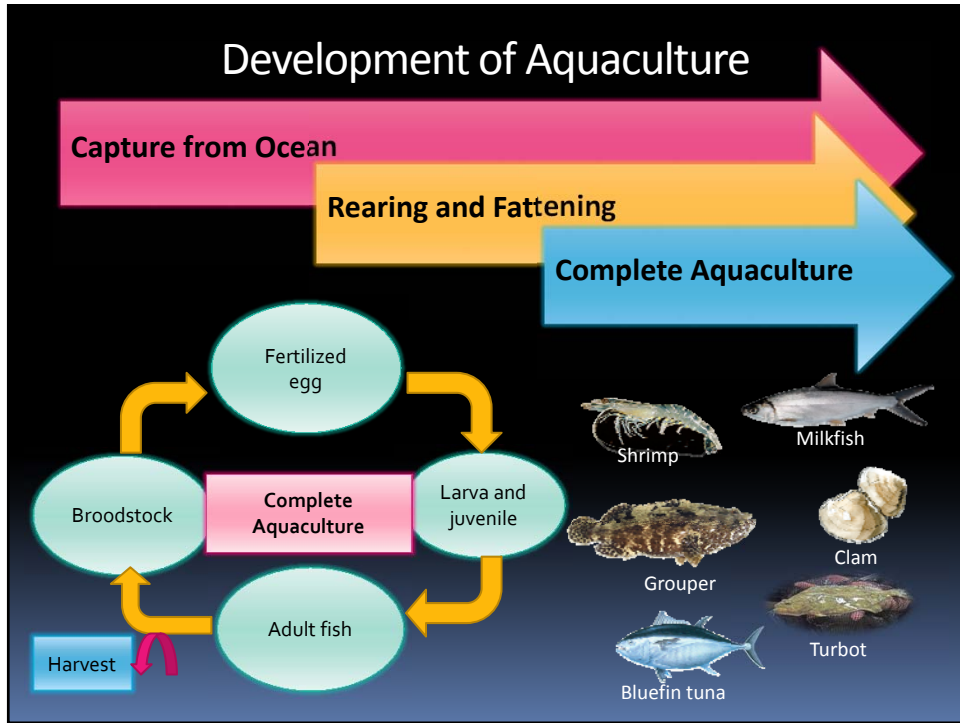
Feed with vegetable protein



Fish disease R&D



Multi-trophic aquaculture



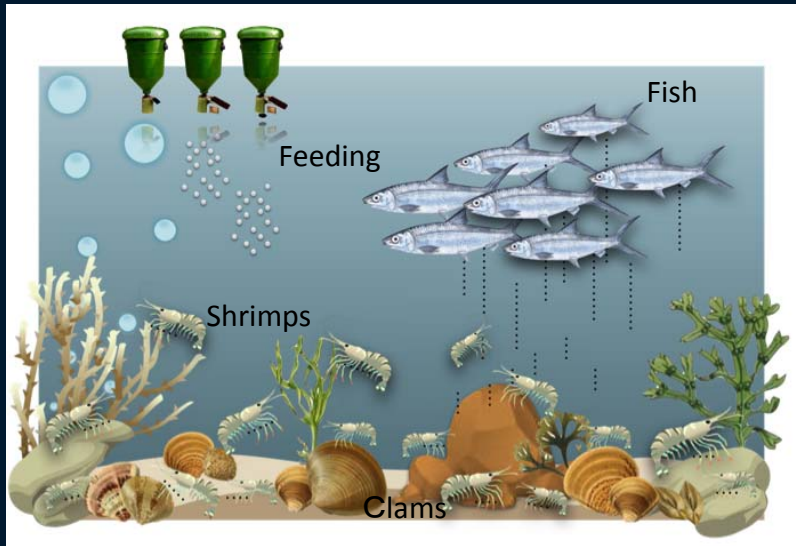
Alternative farmed seafood -- example from Chinese Taipei

Farming golden pompano replace captured white pomfret

Develop artificial propagation of grouper

Farmed mullet roes

Multi-trophic aquaculture ---example from Chinese Taipei



Ensure food security



Fisheries management

Strengthened
International
cooperation



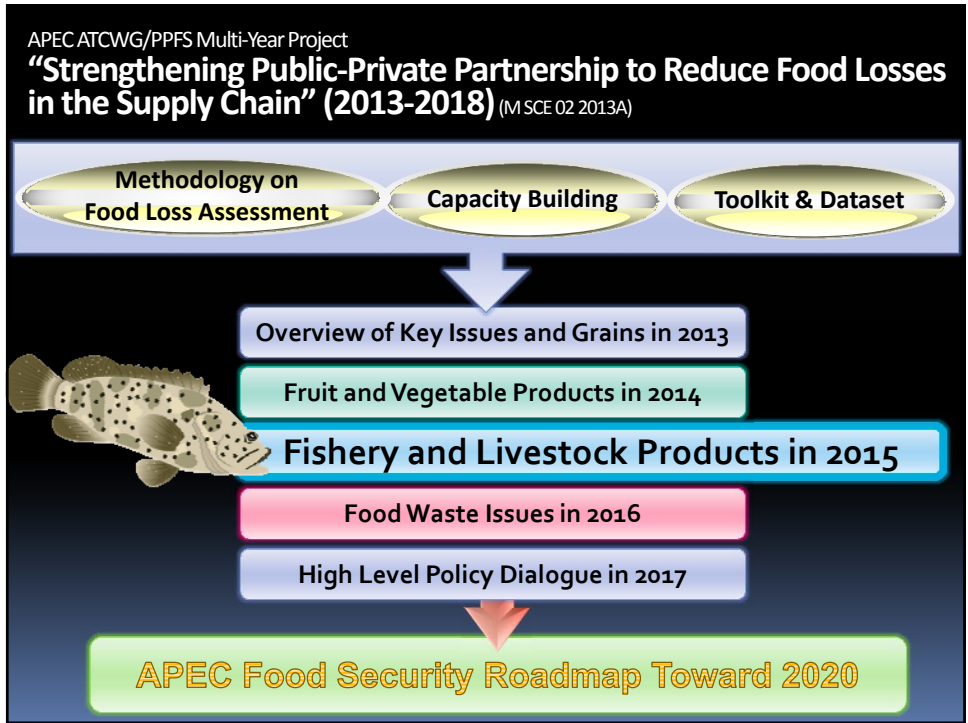
Aquaculture innovation



Environment protection



Trade & Market



Asia-Pacific Economic Cooperation

Let's Work Together
to ensure
Food Security
&
Sustainable Fisheries