

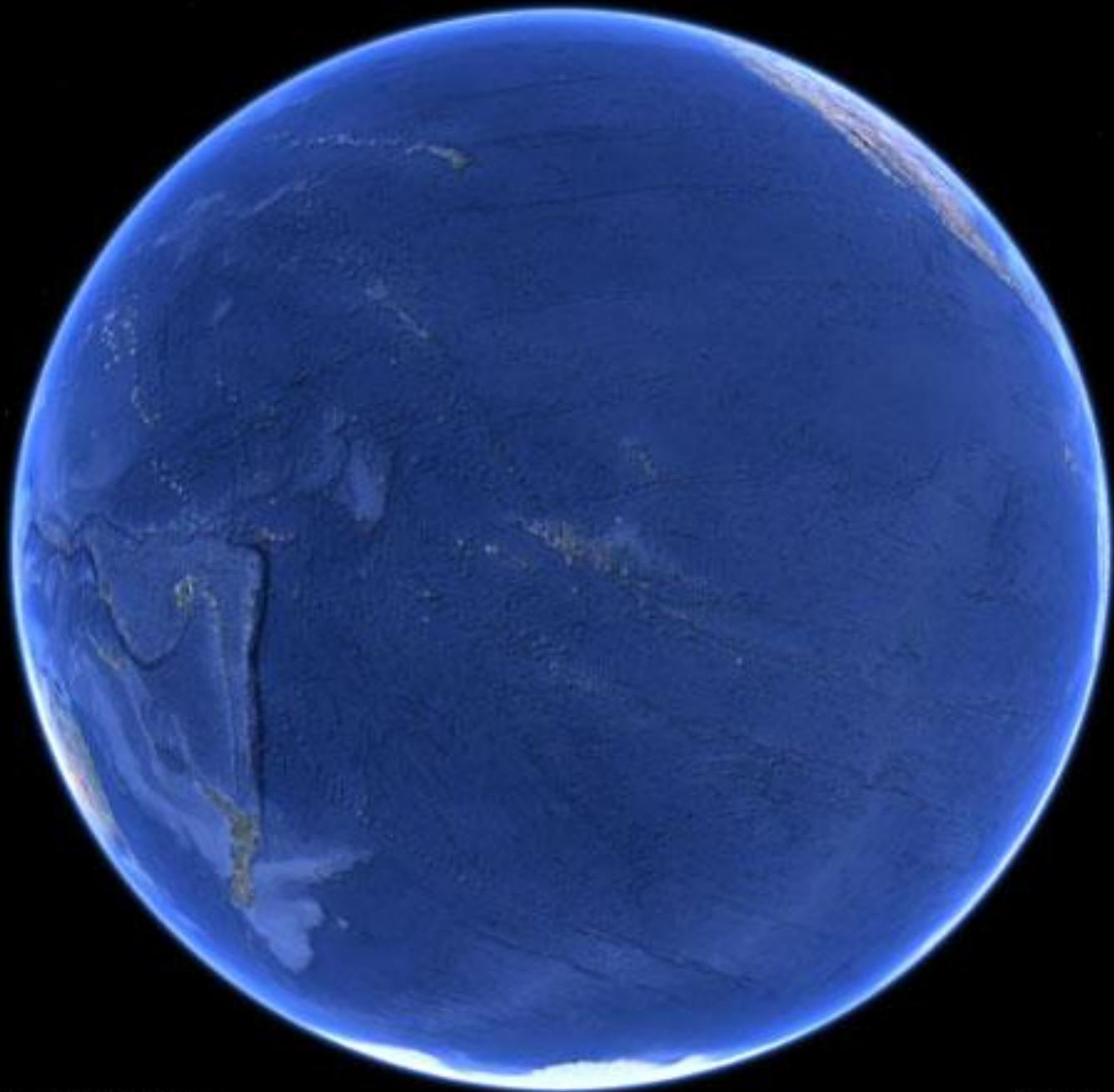
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Controlling aquatic animal disease is vital to global nutrition security

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Aquatic animal production is increasingly important for human nutrition

More fish is farmed than ever

Half of all fish for human consumption is grown in aquaculture

More fish is traded than ever

The value of seafood exports more than doubled in 10 years

Humans eat more fish than ever

World per capita fish supply is >20kg/person/yr compared to 10 in the 1960s

An important source of animal protein

More than 20% of the animal protein intake for 3 billion people

More than 50% in some less developed countries



But... the characteristics of aquaculture are drivers of disease emergence

- Rapid production growth
- High species diversity
- Rapid domestication
- Production of alien species
- High trade volumes



Fish farms, Sukumo Bay, Japan

*...the consequences of aquatic animal diseases
are greater than ever*

Aquatic animal diseases have:

- Destroyed fisheries resources (e.g. abalone, sardines)
- Damaged or destroyed farm productivity (e.g. OsHV-1, WSD)
- Destroyed biodiversity (e.g. crayfish plague, chytrid fungus in frogs)
- Damaged economies (e.g. AHPND, ISA).

AHPND

China (PR)	2010
Vietnam	2010
Malaysia	2011
Thailand	2012
Mexico	2013
Philippines	2014



2013

2010

2010

2014

2012

2011



How can we improve management of aquatic animal diseases?

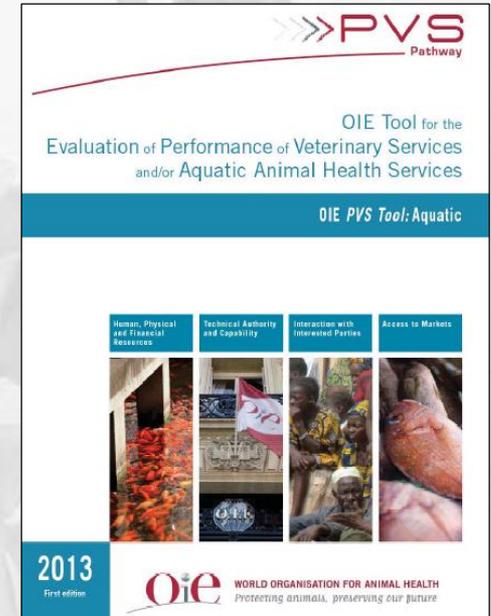
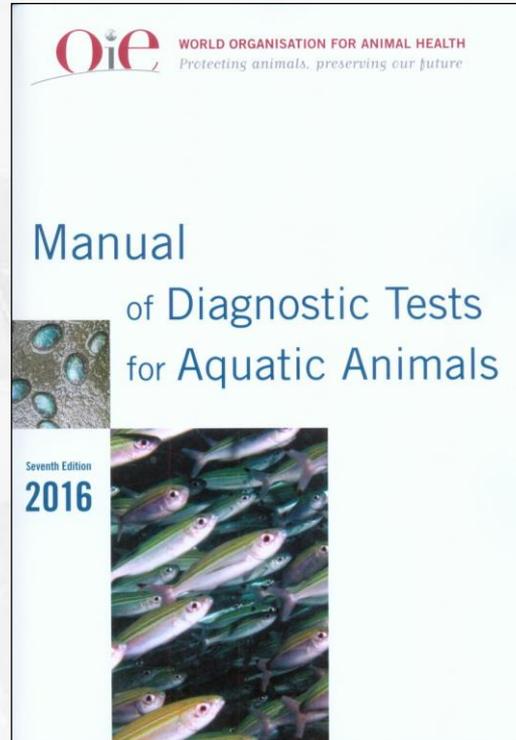
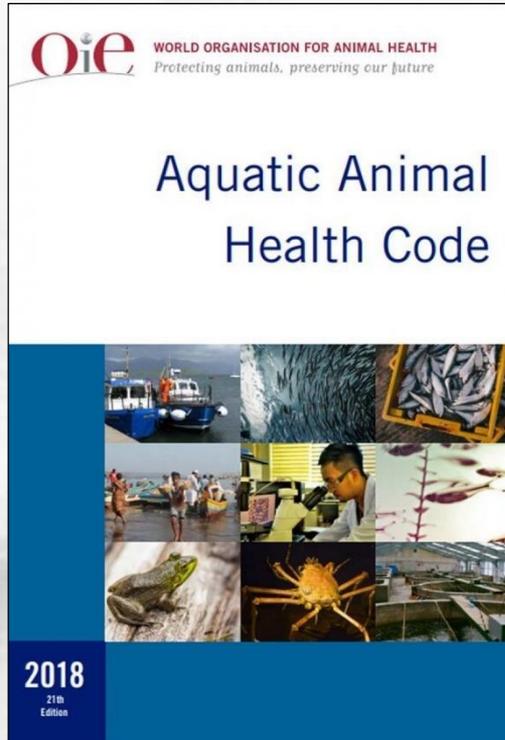
1. Understand the costs and benefits of preventive and response measures

- The cost of aquatic animal disease outbreaks may be severe and extend well beyond direct impacts
- The costs are rarely measured adequately
- Cost-benefit analyses should be undertaken so that proportionate investments can be justified

2. Focus on preventing the spread of transboundary diseases

- The consequences of spread may be high
- The opportunity cost of failure may be high
- Return on investment is usually highest for preventative measures.



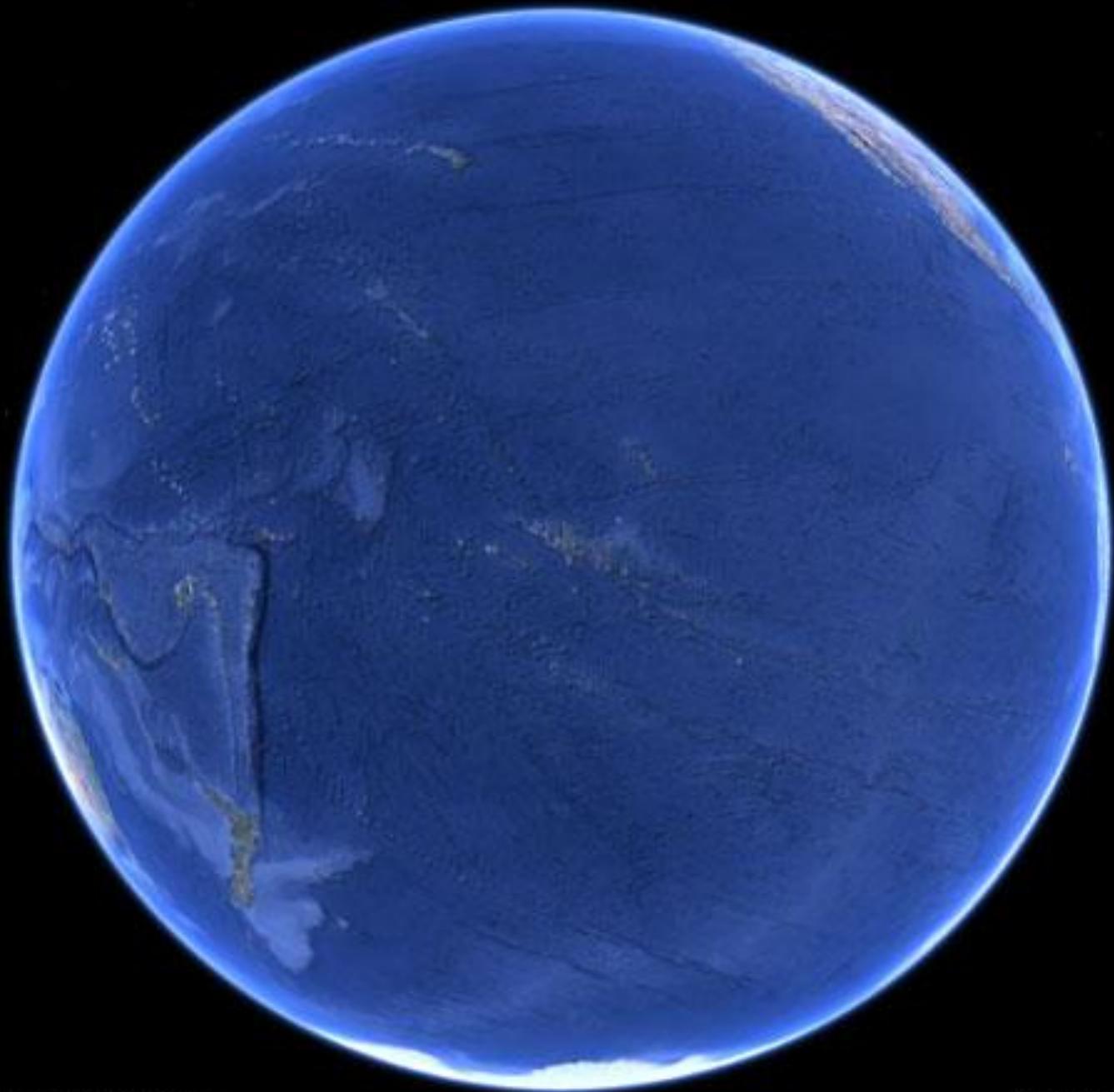


- OIE trade standards provide the mechanism
 - Need to ensure their ongoing revision
 - Need to encourage their application



3. Build resilient and responsive systems

- We know we will be challenged by new and emerging diseases
- Aquatic animal health services need to be able to meet these challenges
 - Prevention
 - Detection
 - Response.





Thank you for your attention

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http://oie.int/