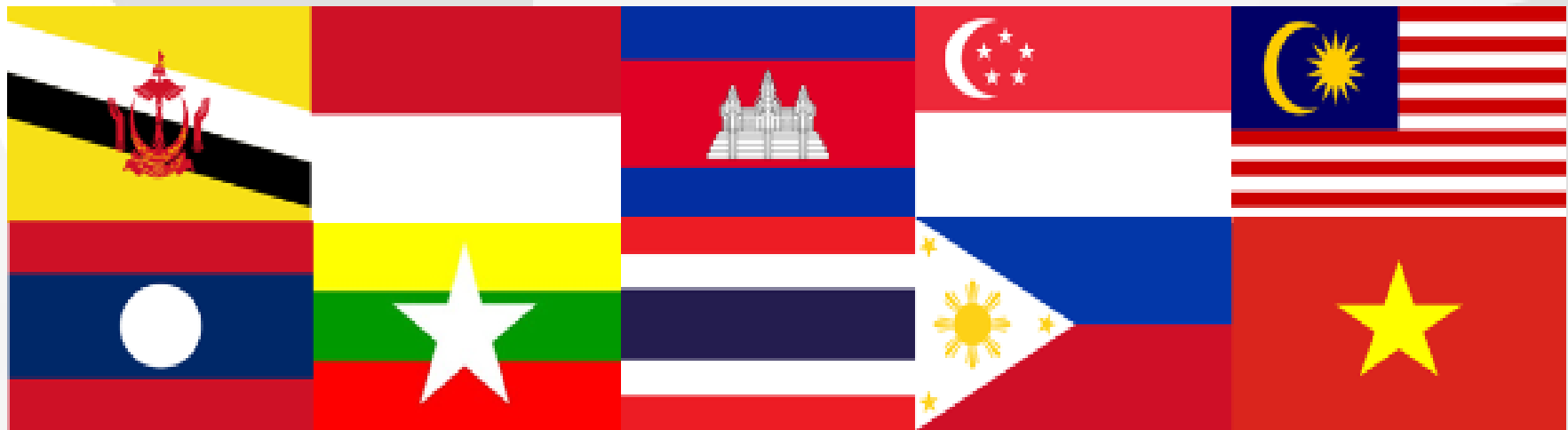




Extractive Industries – Oil & Gas and Mining in Southeast Asia



GHD Environment

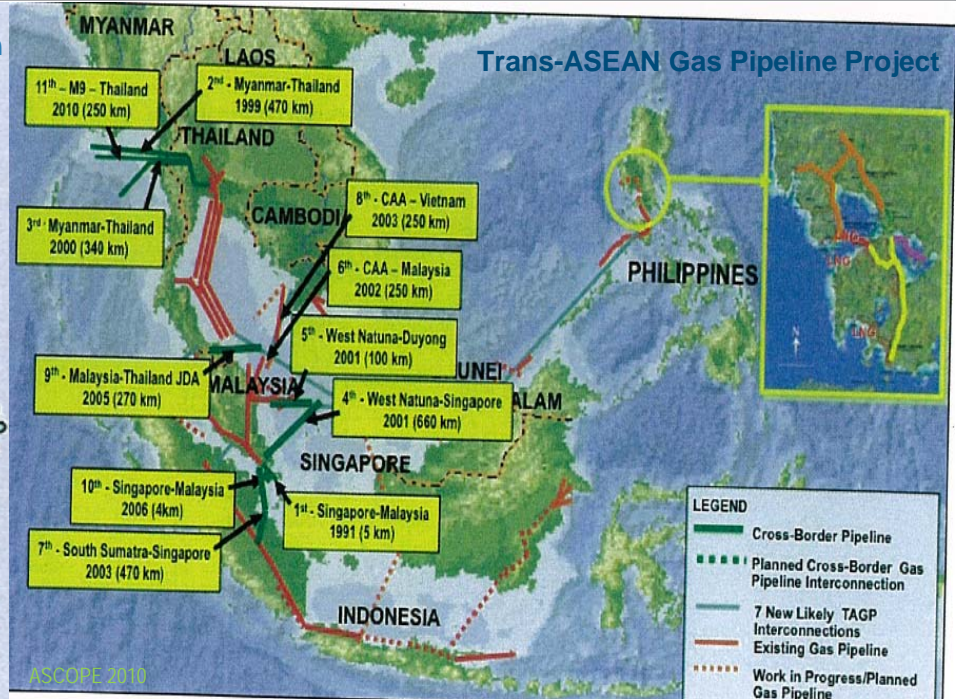
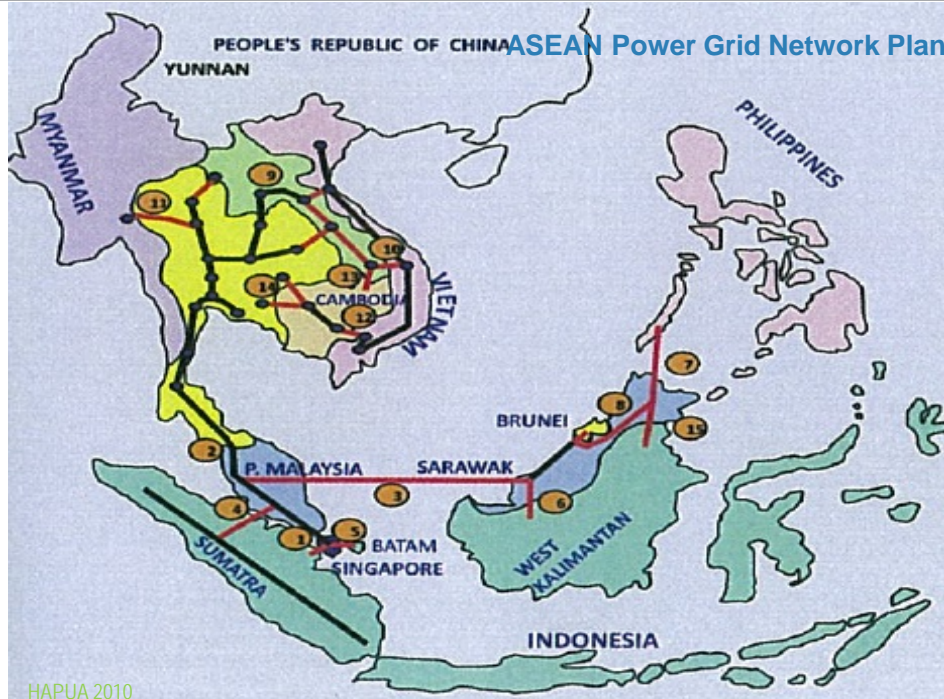
Mitzi Pollisco, PhD
Principal Scientist – Manila, Philippines



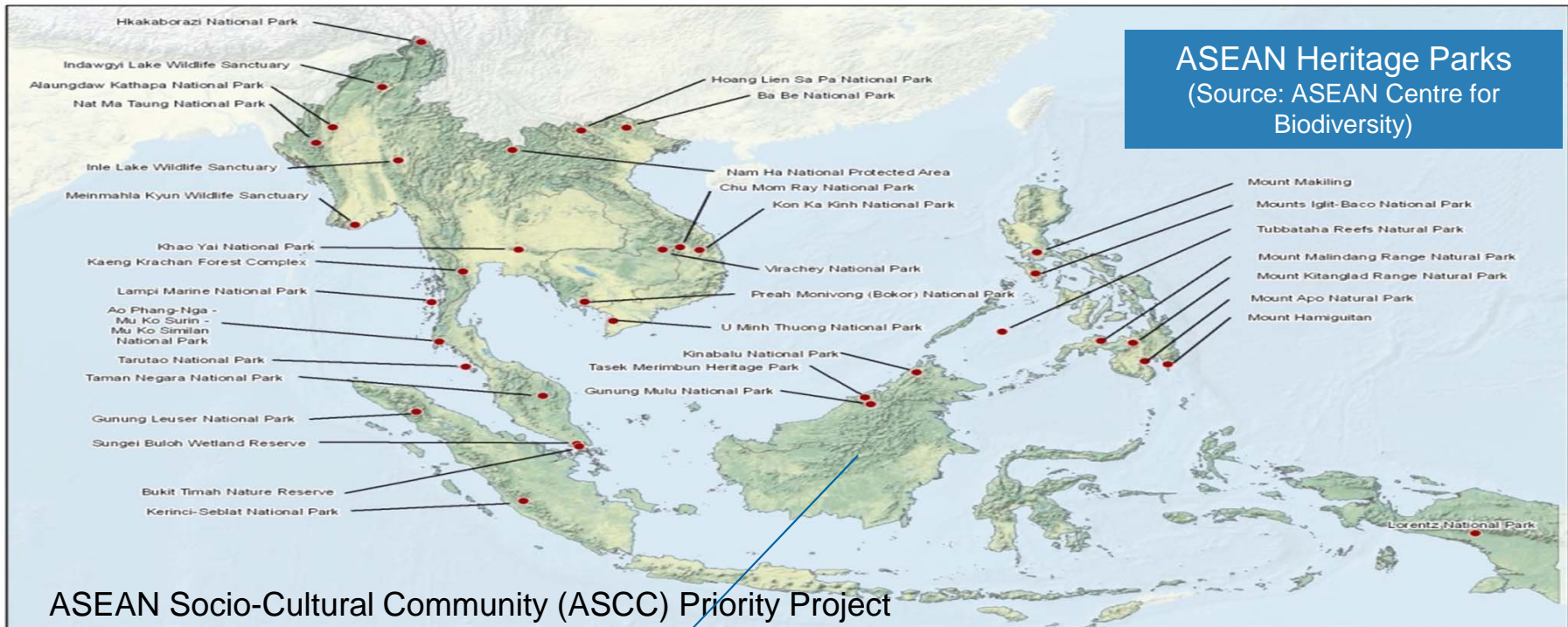
Association of Southeast Asian Nations (ASEAN) Member States

- Brunei
- Cambodia
- Indonesia
- Lao PDR
- Malaysia
- Myanmar
- Singapore
- Thailand
- Philippines
- Vietnam

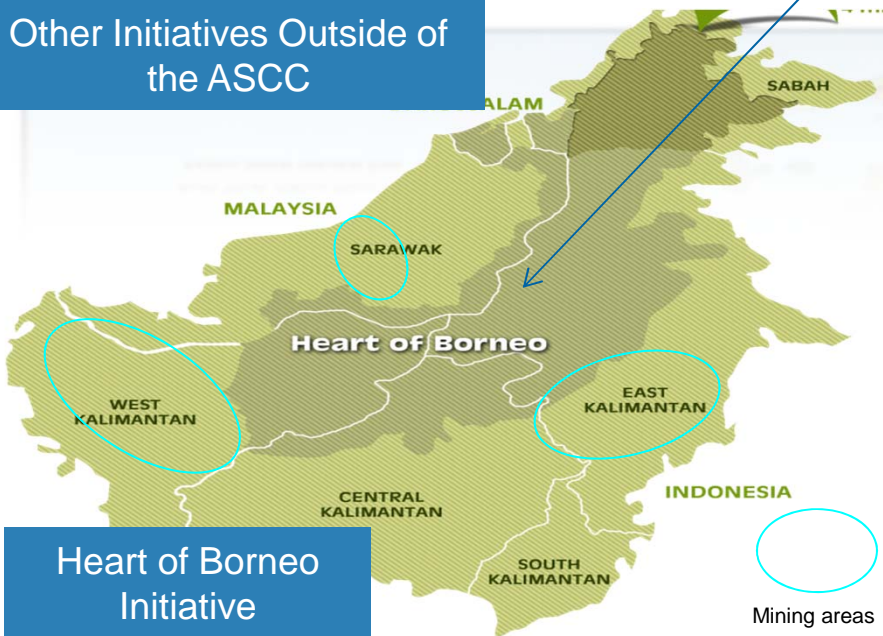




ASEAN Economic Community Priority Projects



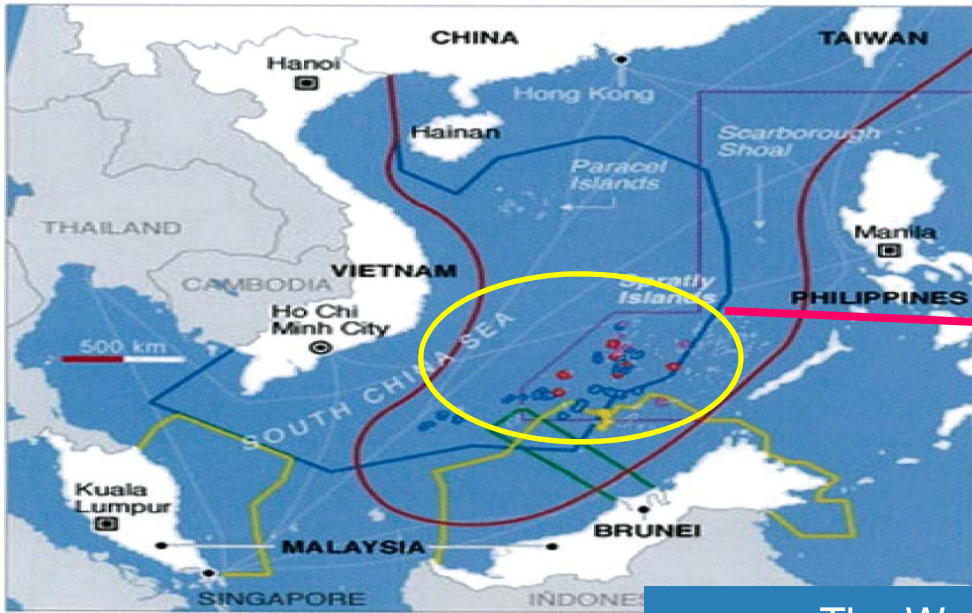
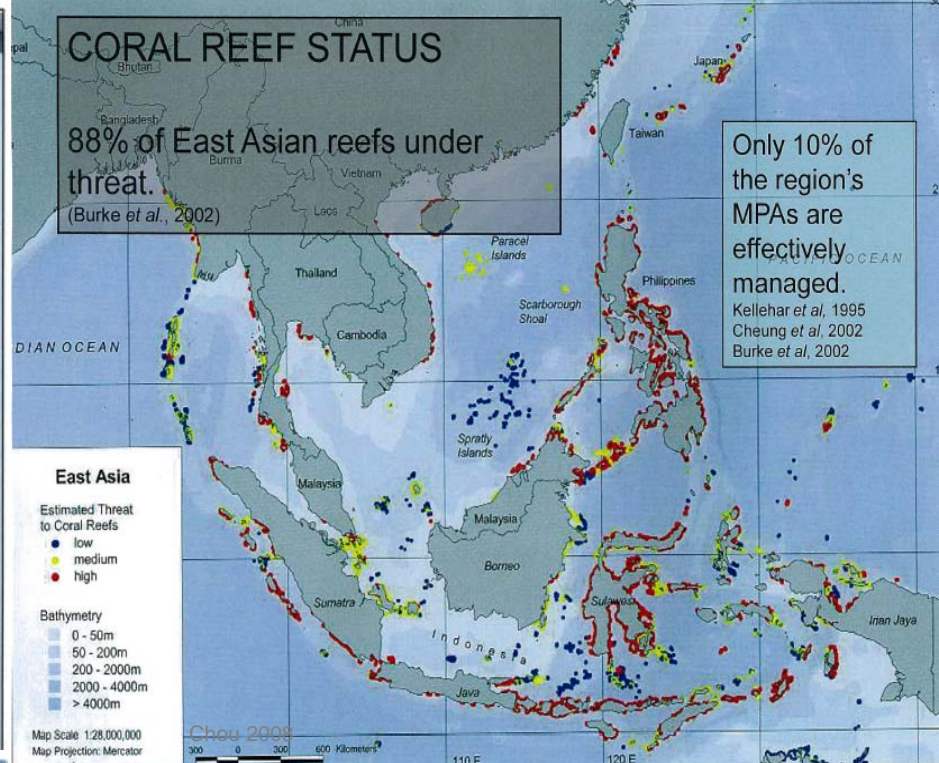
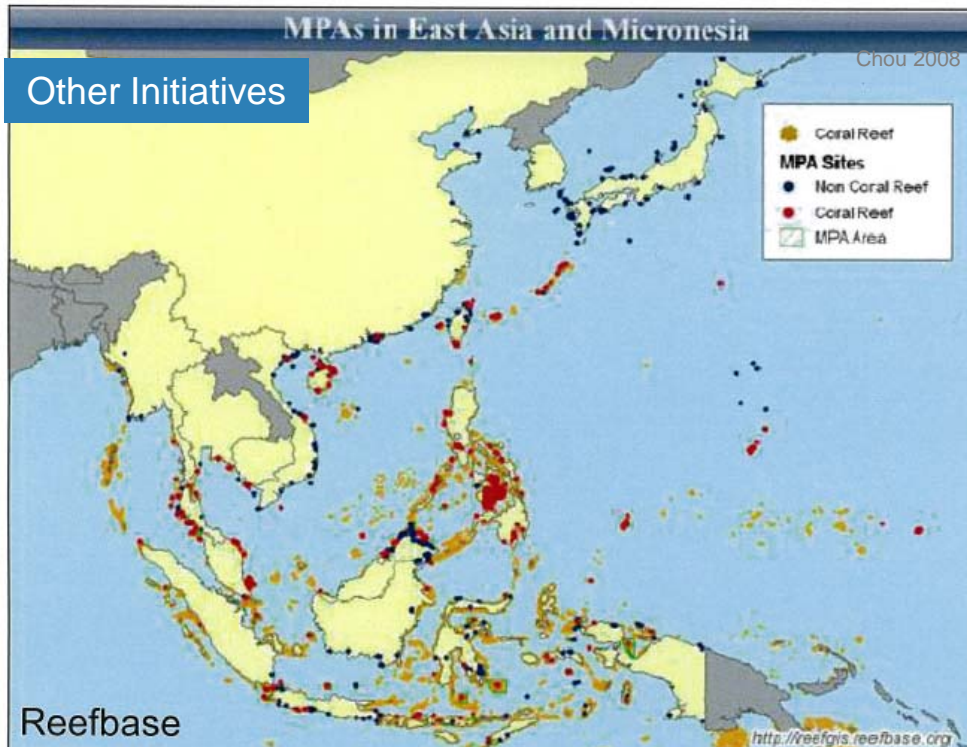
Other Initiatives Outside of the ASCC



Coral Triangle Initiative



Other Initiatives

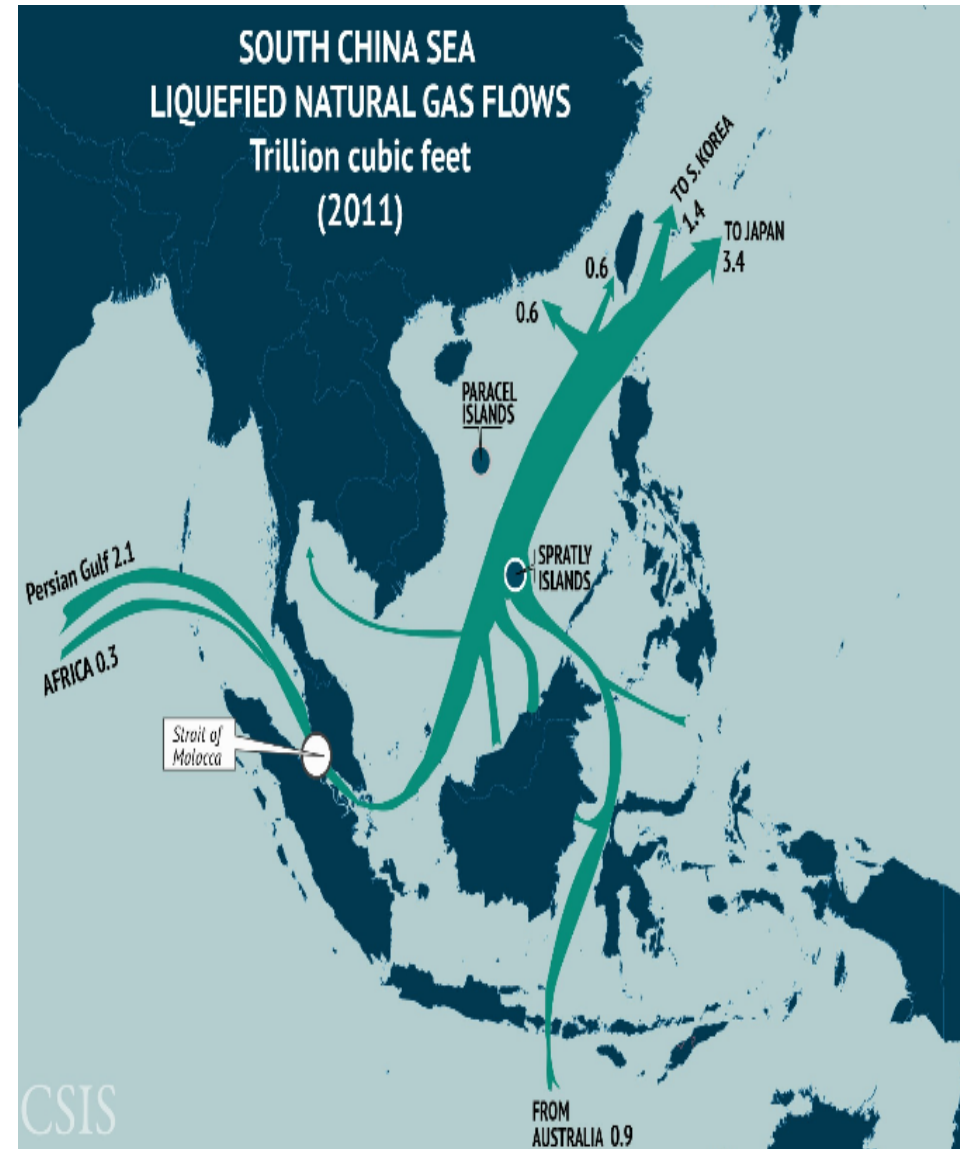


Sources: EIA, Middlebury College, National Geographic, CIA Factbook

The West Philippine Sea

Department of Foreign Affairs Manila 2015

West Philippine Sea Marine Biodiversity and Ecosystem Services



https://www.google.com.ph/search?q=major+shipping+route+in+southeast+asia&safe=active&biw=1240&bih=936&tbn=isch&imgil=5VuJTMLHU0D8kM%253A%253BgAPNcpALnqtC0M%253Bhttp%25253A%25252F%25252Fen.wikipedia.org%25252Fwiki%25252FChola_Navy&source=iu&pf=m&fir=5VuJTMLHU0D8kM%253A%252CgAPNcpALnqtC0M%252C_&usg=__2eit0elwzQBEyyGdM25uufliS4o%3D&ved=0CCQYjdqFQoTCKPm1cTRrcgCFQgqpgodWrePAA&ei=Y6ITVuOoCYHUmXa4j4#imgrc=XGgBsiMhhNCLKM%3A&usg=__2eit0elwzQBEyyGdM25uufliS4o%3D
accessed 6 Oct 2015

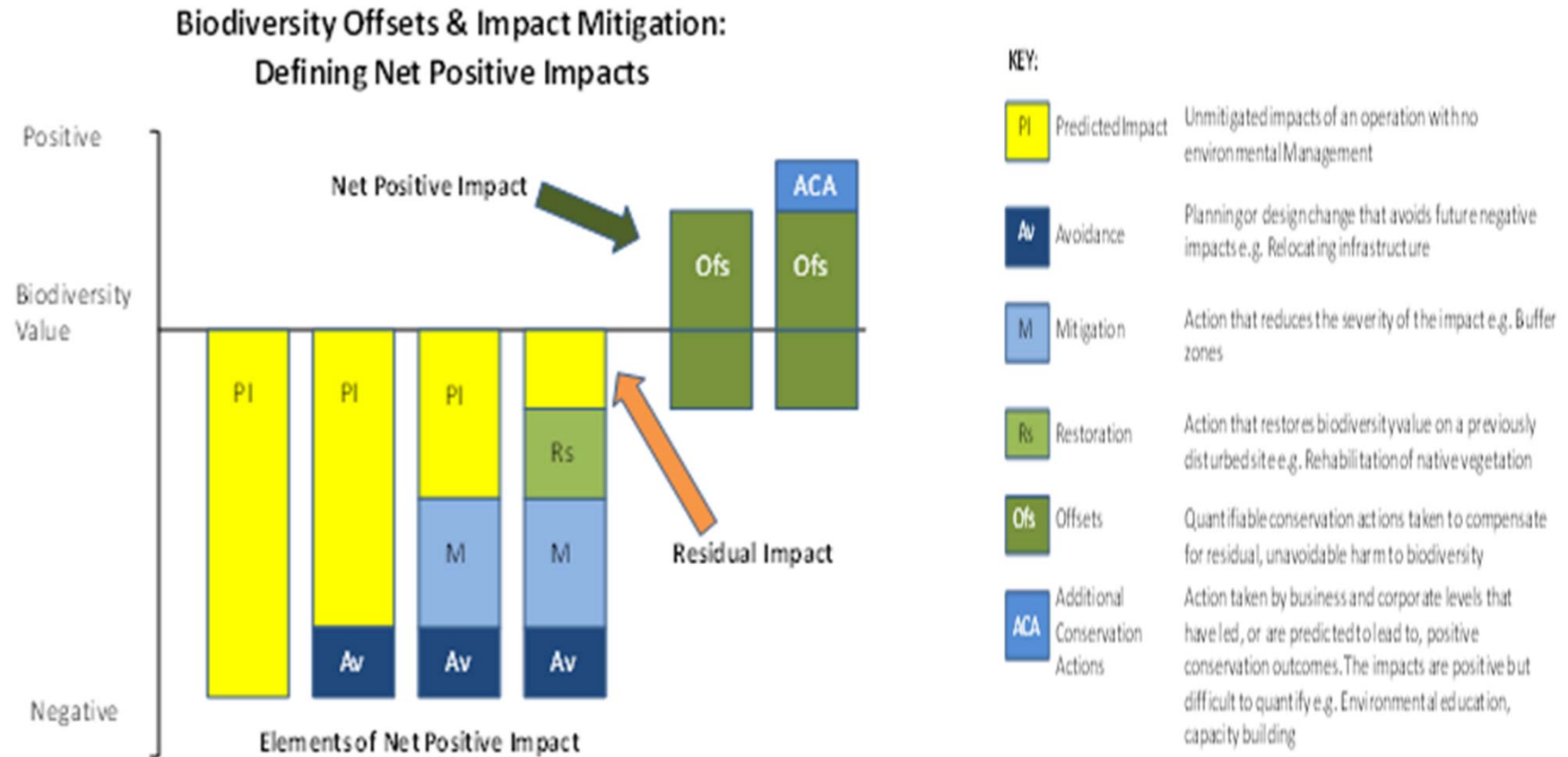
Ecosystem Services: Cultural and Provisioning

The case of Halong Bay, Vietnam – a World Heritage Site across a Coal Mine Site



Hierarchy of Mitigation Measures

Identifying and implementing measures to safeguard biodiversity and affected stakeholders from potential adverse effects of mining (ICMM, 2006)

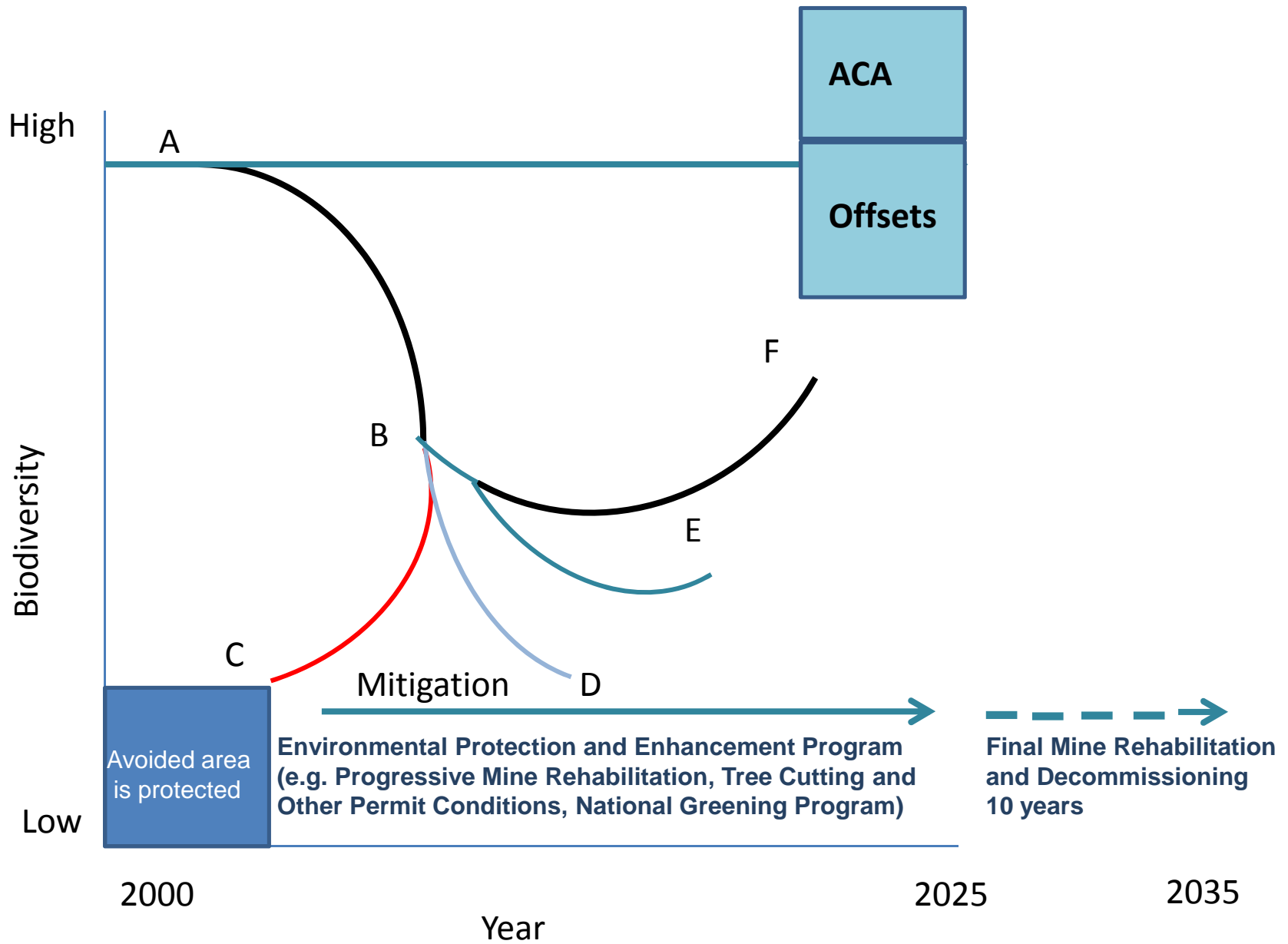


Source: Anstee et al. In preparation of Business & Ecosystems, IUCN Sept 2007

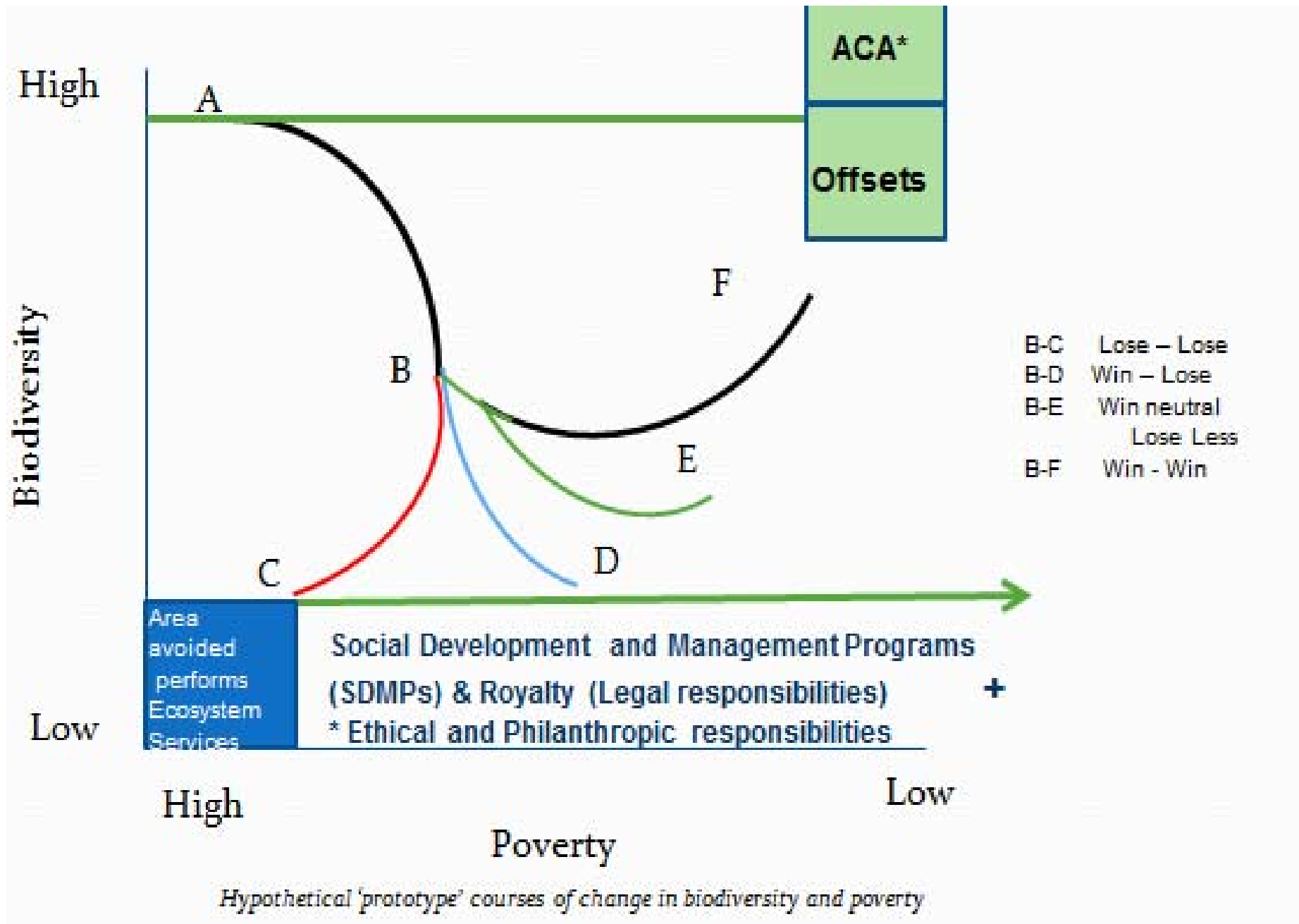


Biodiversity Offsets & Impact Mitigation: Defining Net Positive Impacts

Source: Anstee et al. In preparation of Business & Ecosystems, IUCN Sept 2007



Reference: Basic graph is hypothetical example adopted from Tekelenburg et al (2009), as cited by Roe et al (2011)
 Enriched by Pollisco(2015) to show Philippine Mining Experience



Adopted from Tekelenburg et al (2009), as cited by Roe et al (2011); enriched by Pollisco(2015) to show Philippine Mining Experience

Challenges in ASEAN EI

- Policies/regulations differ as these are implemented in the different Member States (e.g. stakeholder engagement, access and benefit sharing)
- Knowledge on EIA, mitigation hierarchy and other related principles
- Mining and energy agencies belong to different departments in the different Member States

Good Mining Practices

- Multi-partite Monitoring Teams*
- Strategic Environmental Plan: the Palawan Council for Sustainable Development*
- Ecosystem Services Review in ESIA
- National Greening Program – an example of biodiversity enforced offset*
- The Extractive Industry Transparency Initiative (EITI)*
- ISO 14001*

*enacted into Philippine laws

Opportunities for fostering new business models

- In areas where maritime boundary disputes occur: offshore mining joint development
- Corporate Sustainability/Responsibility

Regional common framework for EI Governance

but the ASEAN may opt for 'ASEAN Way' ; harmonization of laws



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Thank you