Natural Solutions Building resilience in the Pacific

Nik Sekhran, Head: Ecosystems and Biodiversity, UNDP

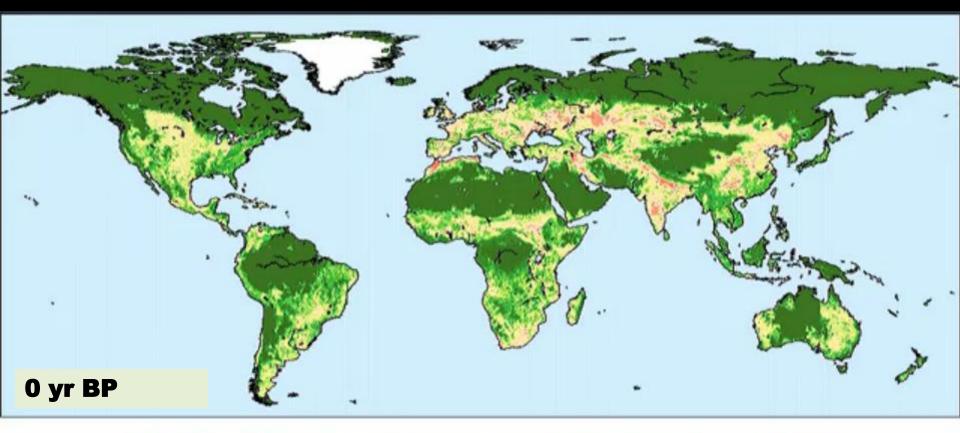
9th Pacific Conference on Nature Conservation and Protected Areas Suva, Fiji, 2-6 December 2013

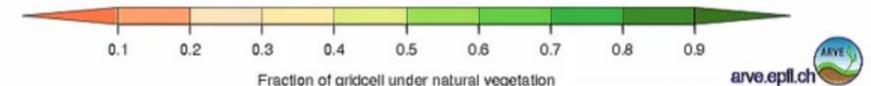


Empowered lives. Resilient nations.

Surviving and thriving in the Anthropocene...

43% global terrestrial area transformed





The Great Acceleration

1950 marked the beginning of a massive acceleration in human activity and large-scale changes in the Earth system.

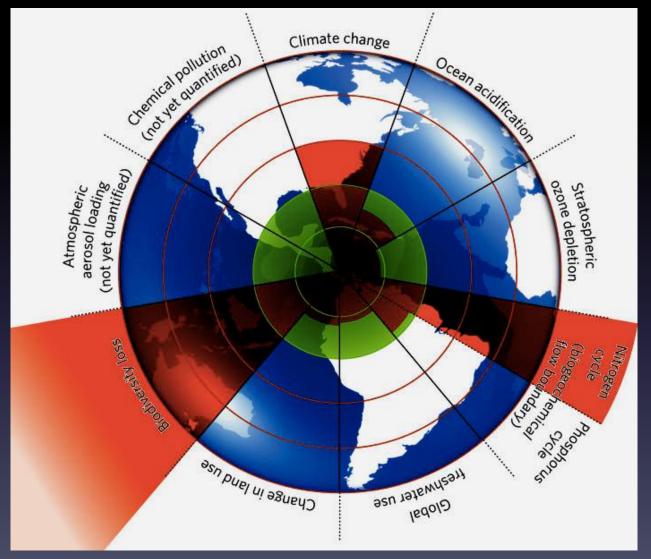


SOURCE: igbp.net | Steffen et al., 2005, Global Change and the Earth System, Springer, pp. 132-133 DESIGN: Globala.org

...into the Anthropocene

www.igbp.net

Planetary boundaries

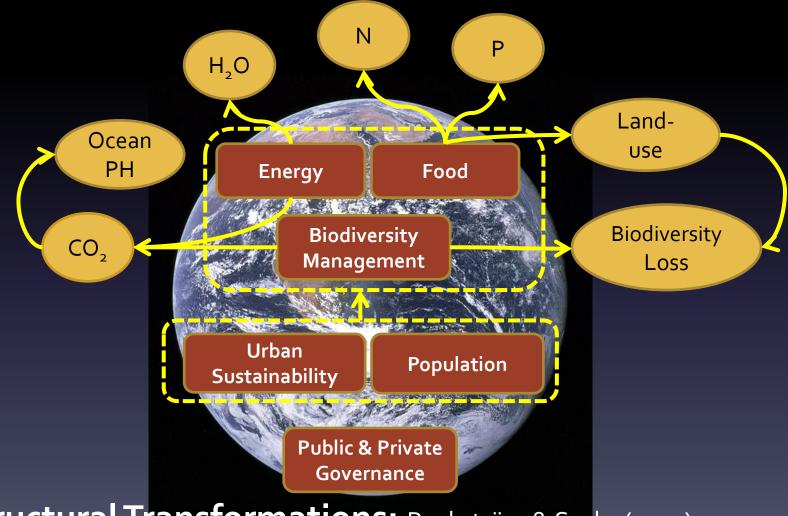


Rockström et al. (2009)





Planetary Boundaries: Rockström et al. (2009)



Structural Transformations: Rockström & Sachs (2012)



Occupy 2012

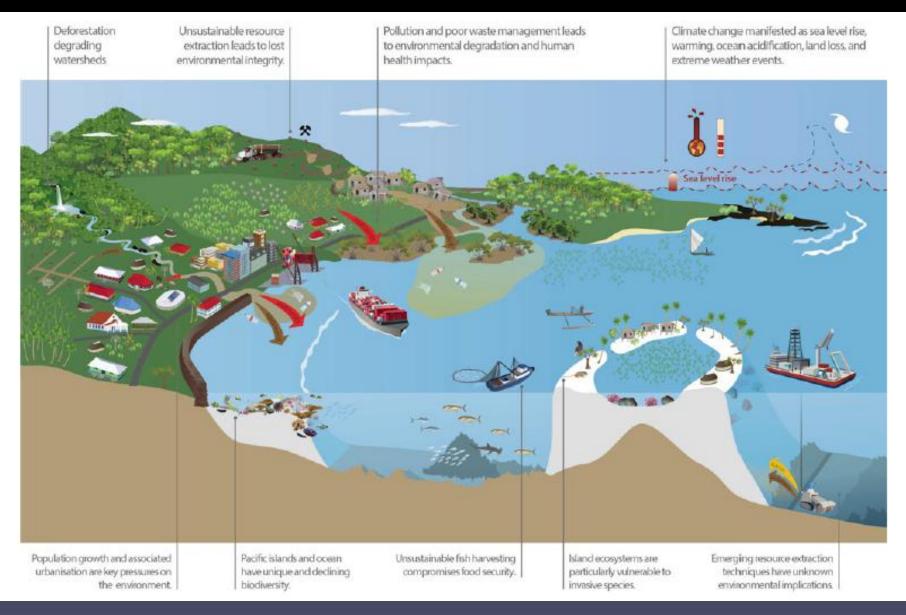




Encyclopaedia Britannica

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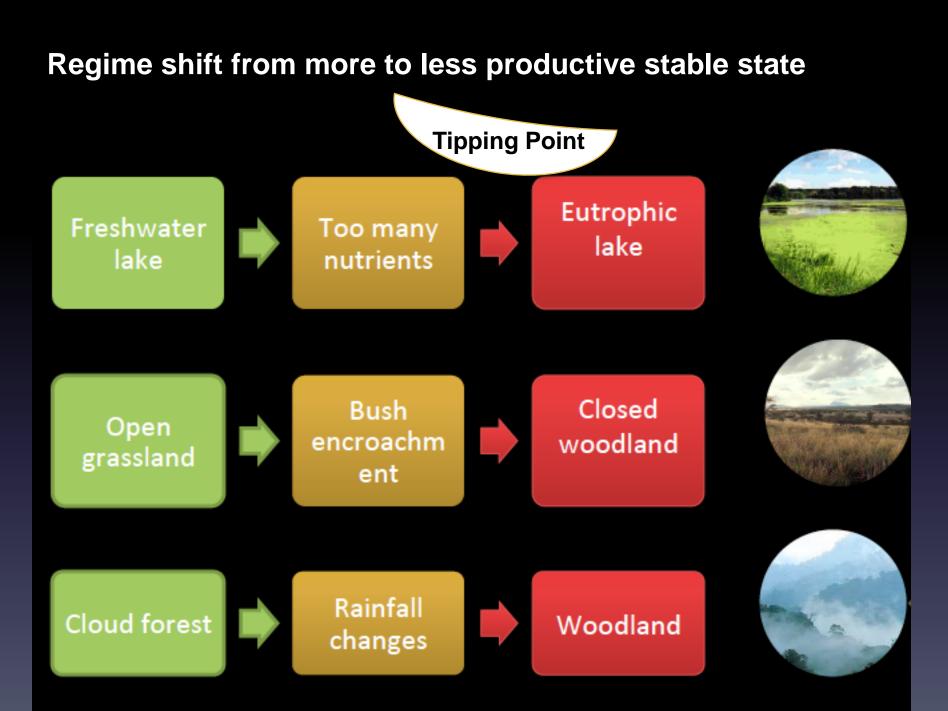
Key threats to ecosystem services in the Pacific

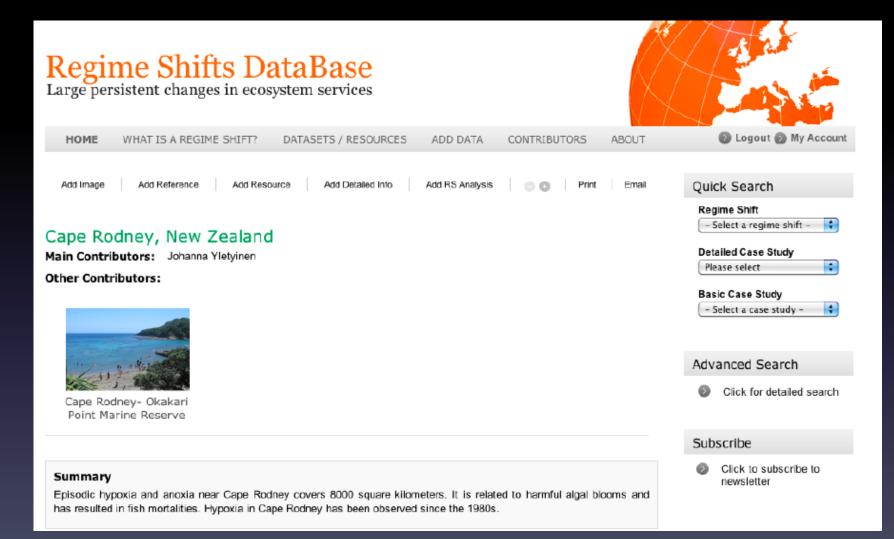


Hills, Carruthers, Chape and Donohoe, 2012



The capacity of a system to absorb disturbance and reorganize while undergoing change so as to still retain essentially the same function, structure, identity and feedbacks





Ecosystem Based Adaptation

Convention on Biological Diversity:

"the use of biodiversity and ecosystem services to help people adapt to the adverse effects of climate change"

Decision X/33 on Climate Change and Biodiversity:

includes the "sustainable management, conservation and restoration of ecosystems, as part of an overall adaptation strategy that takes into account the multiple social, economic and cultural co-benefits for local communities"



A comparative analysis of ecosystem-based adaptation and engineering options for Lami Town, Fiji

Synthesis report



EBA measures in Pacific islands

Adaptive measure	Adaptive function
Management of tidal wetland system for coastal protection	 Protection against storm surges, coastal flooding Mangrove migration helping protect against sea level rise Protection of beaches and islands from wave erosion
Management of slope vegetation for landslide risk	Reduction of landslide risk
Use of agroforestry and shelter	Yield stability in more variable climates
belts for production stability	Maintenance of soil fertility
	Protective barrier for crops
Management of floodplain and riverine vegetation for flood management	 Decreasing the speed and size of the peak of floodwaters Allowing floodwaters to disperse across a floodplain

Hills, Carruthers, Chape and Donohoe, 2012



protected areas helping people cope with climate change

aires protégées aider les gens à faire face au changement climatique

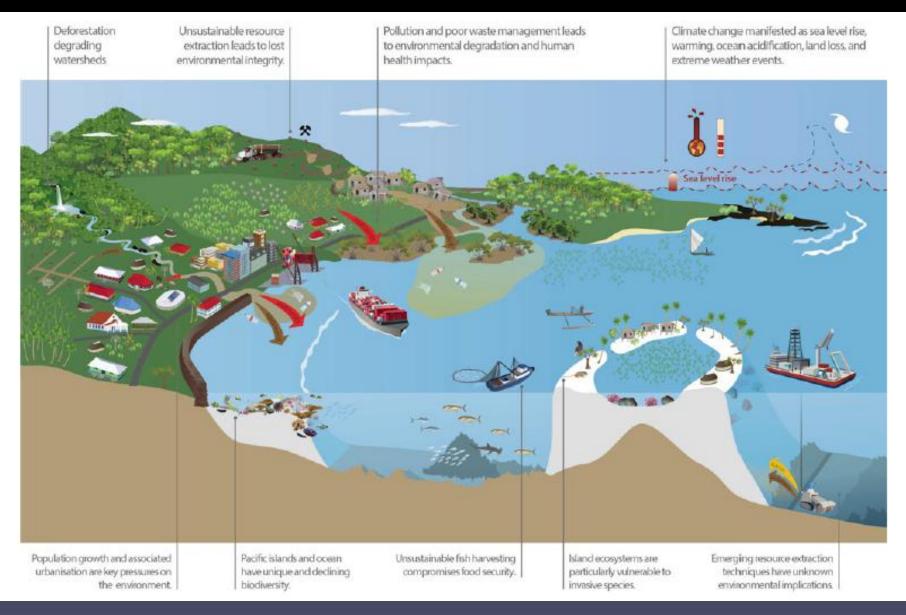
Preface by Lord Nicholas Stern

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Summary | Résumé | Resumen



Key threats to ecosystem services in the Pacific



Hills, Carruthers, Chape and Donohoe, 2012



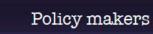
Biodiversity and Ecosystem Services-Network

Connecting policy makers, scientists and implementers



Scientists







NEW PRACTICE-SCIENCE CONNECTION A farmer's federation in the Phu My district of Vietnam uses BES-Net to connect with the Research Center for Energy and Environment to help measure the impact of different ecoagriculture approaches on wetland functioning. LEARN MORE > < I WANT TO CONNECT TO:

Biodiversity and Ecosystem Services-Network

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RESTORATION

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LAND TENURE

A web portal facilitating access to the work of partners who are building capacity in the interface between science, policy and practice - to support IPBES and enable effective management of biodiversity and ecosystems.

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Practitioners

World's largest marine park

Cook Islands designates more than one million square kilometres of ocean for conservation and sustainable development



Solwara 1 - The Future for the minerals industry

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SAY NO TO EXPERIMENTAL SEABED MINING IN THE PACIFIC

SIGN THE PETETION www.actnowpng.org

"WE RECOMMEND IN THE ABSENCE OF CLEAR SCIENTIFIC EVENDICE, THAT OUR RESPECTIVE NATIONAL GOVERNMENTS FOR ON THE SIDE OF CAUTION AND CALL FOR A STOP TO THE ISSUANCE OF FURTHER SEADED MINING LICENSES,"

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PROTECT OCEANS | PROTECT MARINE LIFE | PROTECT COMMUNITIES SEA BED MINING

http://doi.forume.line.org/internet.com/internet.com/



Climate Public Expenditure and Institutional Reviews (CPEIRs) in the Asia-Pacific Region

What have We Learnt?







2008-2012









HOW RESILIENT IS YOUR COASTAL COMMUNITY?

A GUIDE FOR EVALUATING COASTAL COMMUNITY RESILIENCE TO TSUNAMIS AND OTHER HAZARDS







Thank you!