



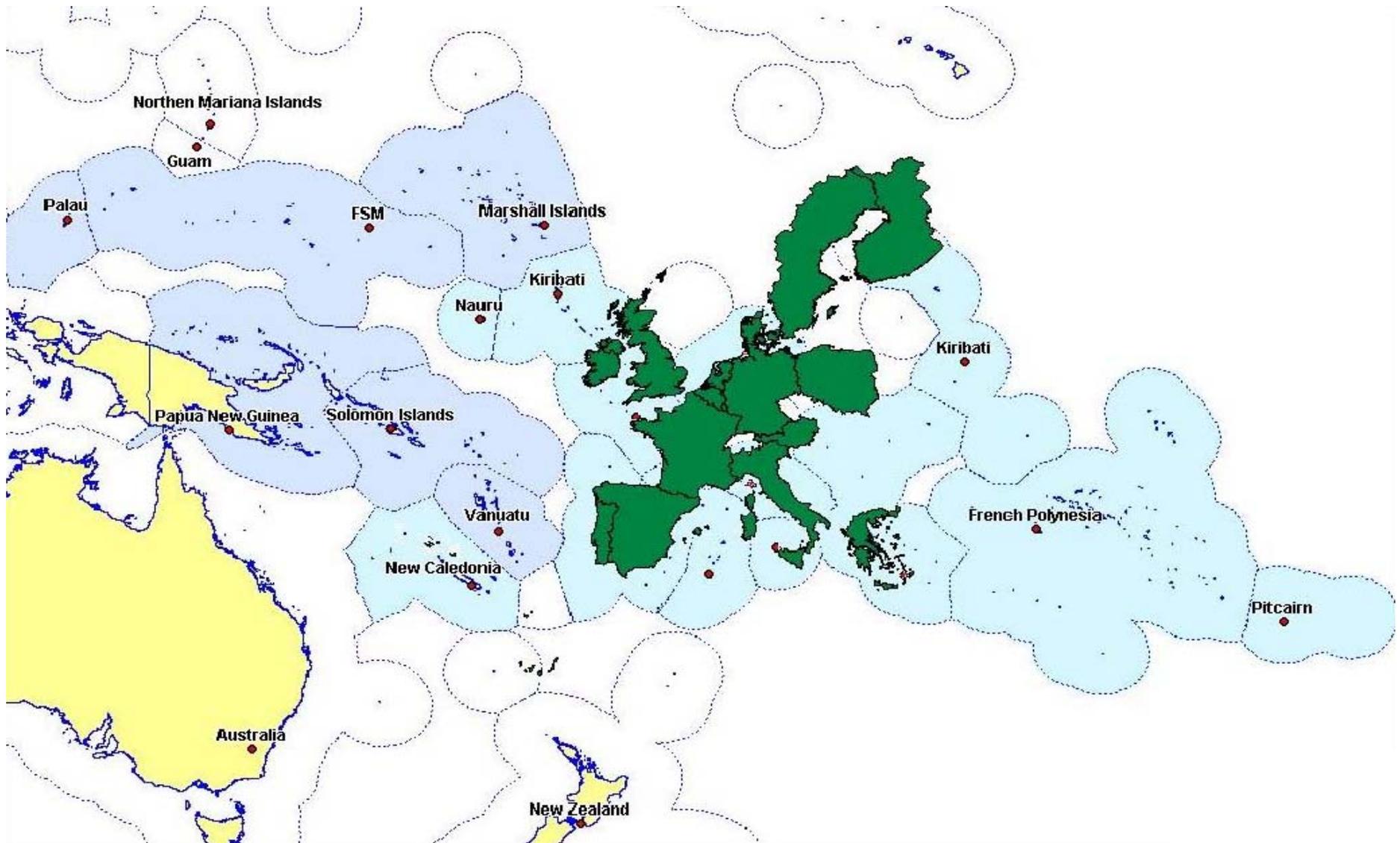
Non Living Resources

Capacity Building - Challenges and Opportunities -

UNICPOLOS XI, New York from 21 to 25 June 2010

**Cristelle Pratt
Suva FIJI**

Pacific Islands Region : Europe



Vital Statistics

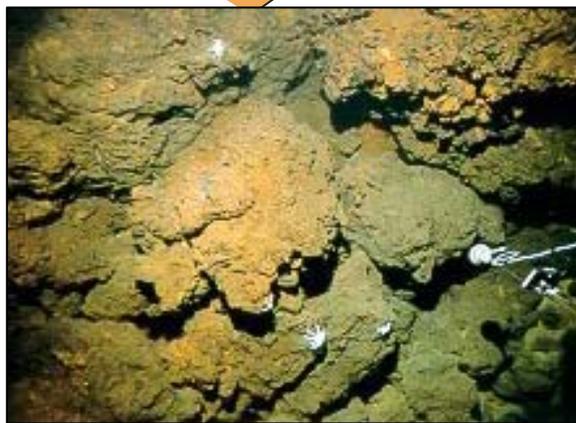
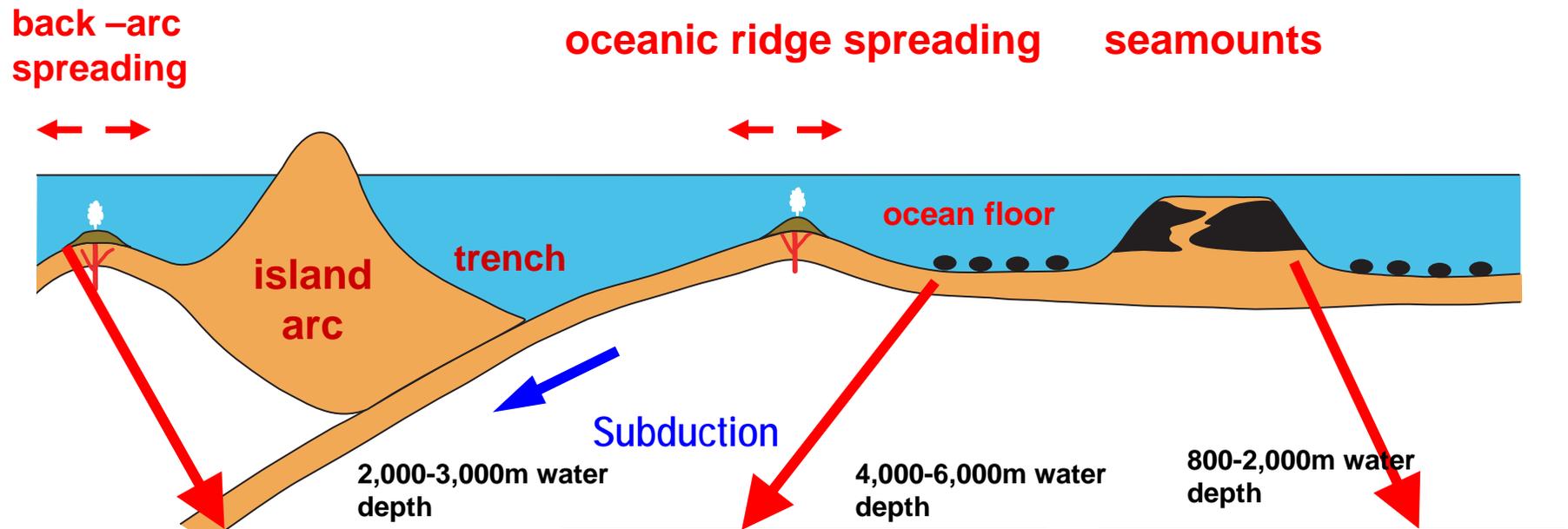
EEZ	30 million km ² [27 million km ²]
Land [excluding Papua New Guinea]	550 000 km ² [93 500km ²]
7 500 Islands	Volcanic Islands Coral Atolls
500 Islands [excluding Papua New Guinea]	9.85 million people 0.1 % worlds population [6.7 million people]
Ocean : Land [excluding Papua New Guinea]	55 : 1 290 : 1

The Opportunities of Resources

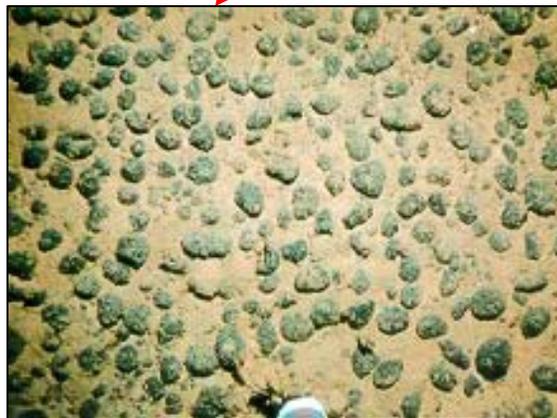
Marine Minerals

- ✦ **Manganese nodules** – deep water
- ✦ **Ni-Co Crusts** – deep water, seamounts
- ✦ **Hydrothermal deposits** – back arc basins
- ✦ **Placer deposits** – river and delta systems
- ✦ **Sand & Gravel**
- ✦ **Hydrocarbons** – continental shelves, sedimentary Basins

deep-sea mineral deposits



hydrothermal deposits
(Cu, Pb, Zn, Au, Ag)

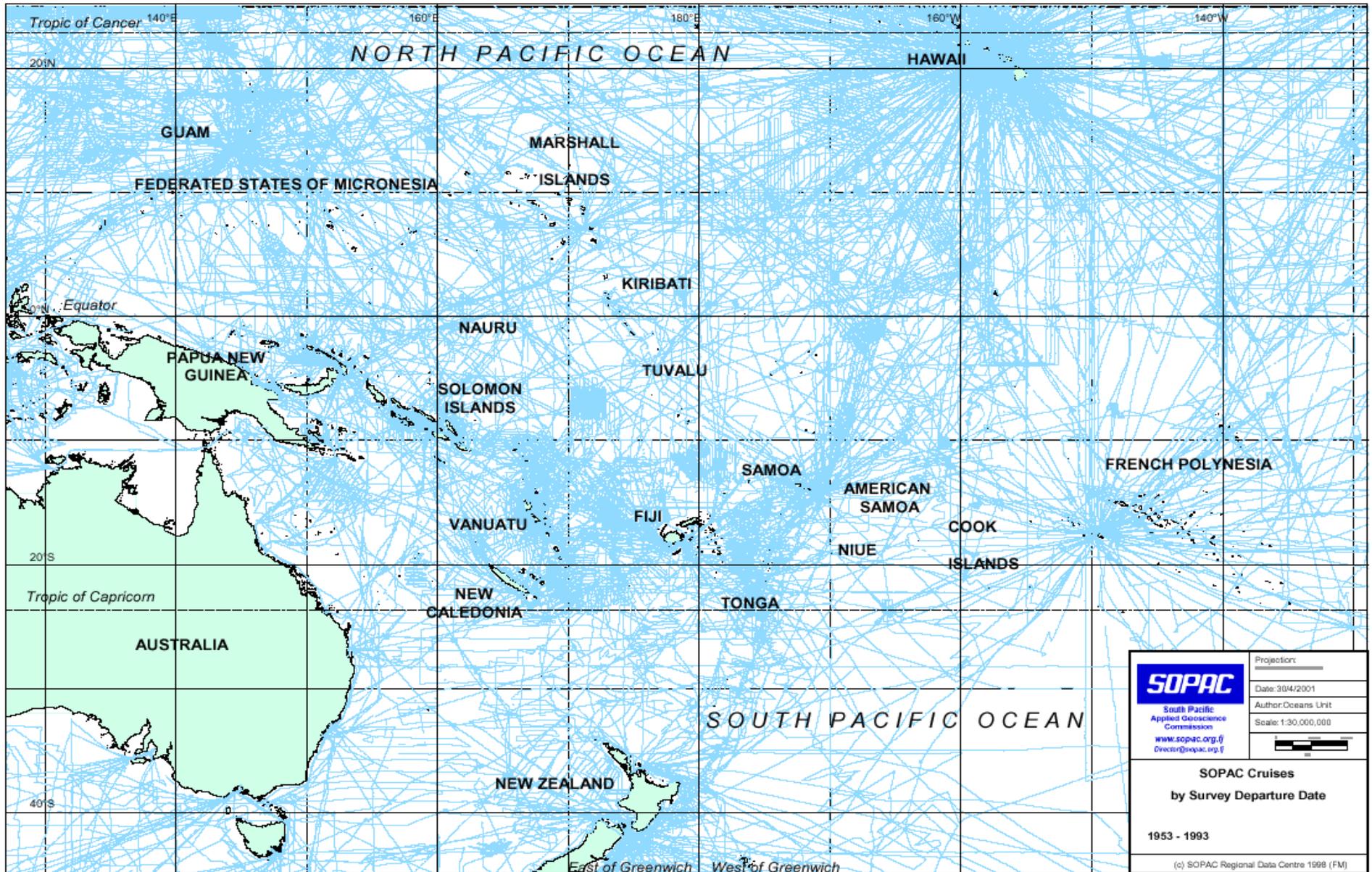


manganese nodule deposits
(Mn, Ni, Cu, Co)

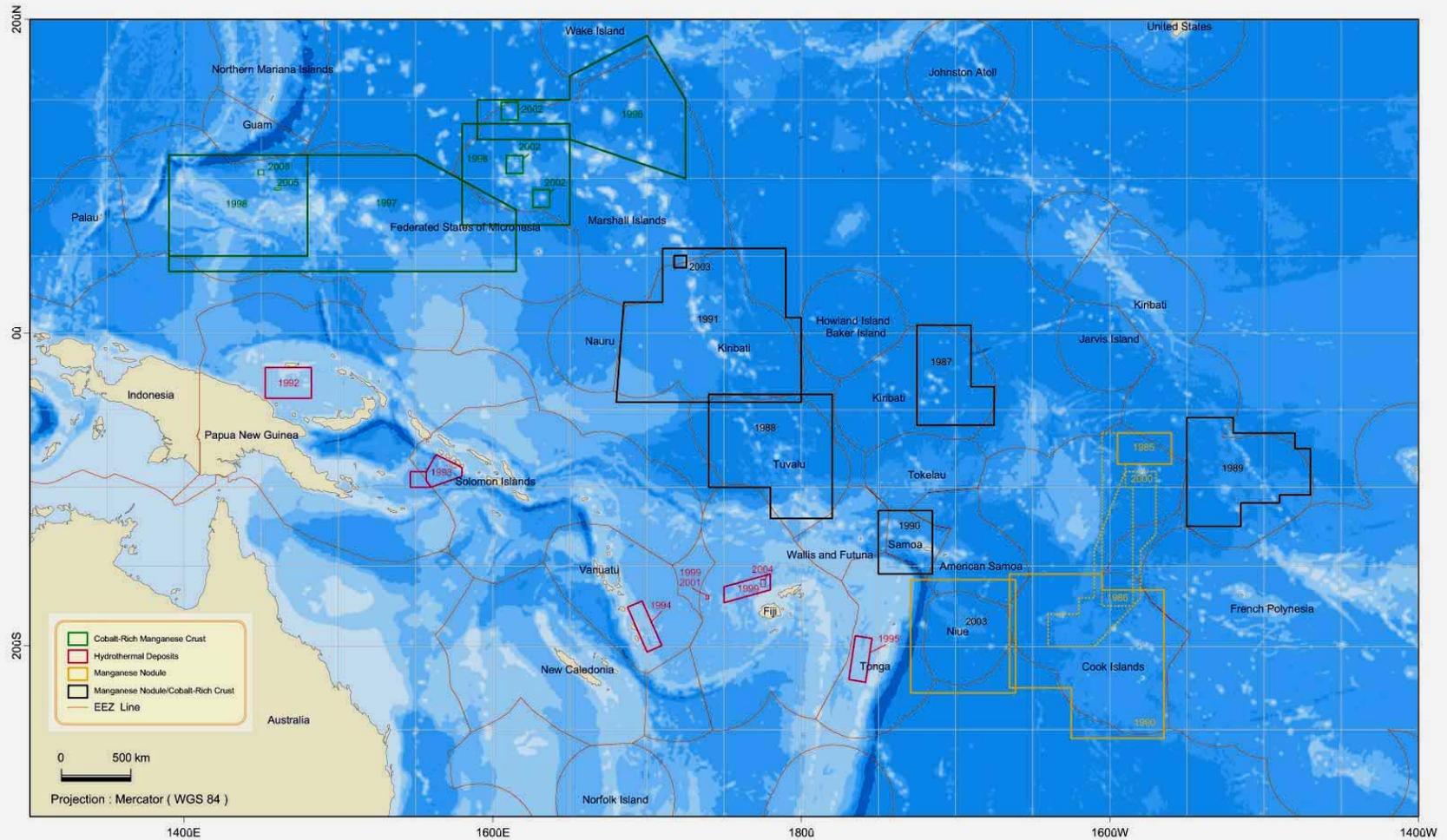


cobalt-rich crusts
(Co, Mn, Ni, Pt)

marine scientific research

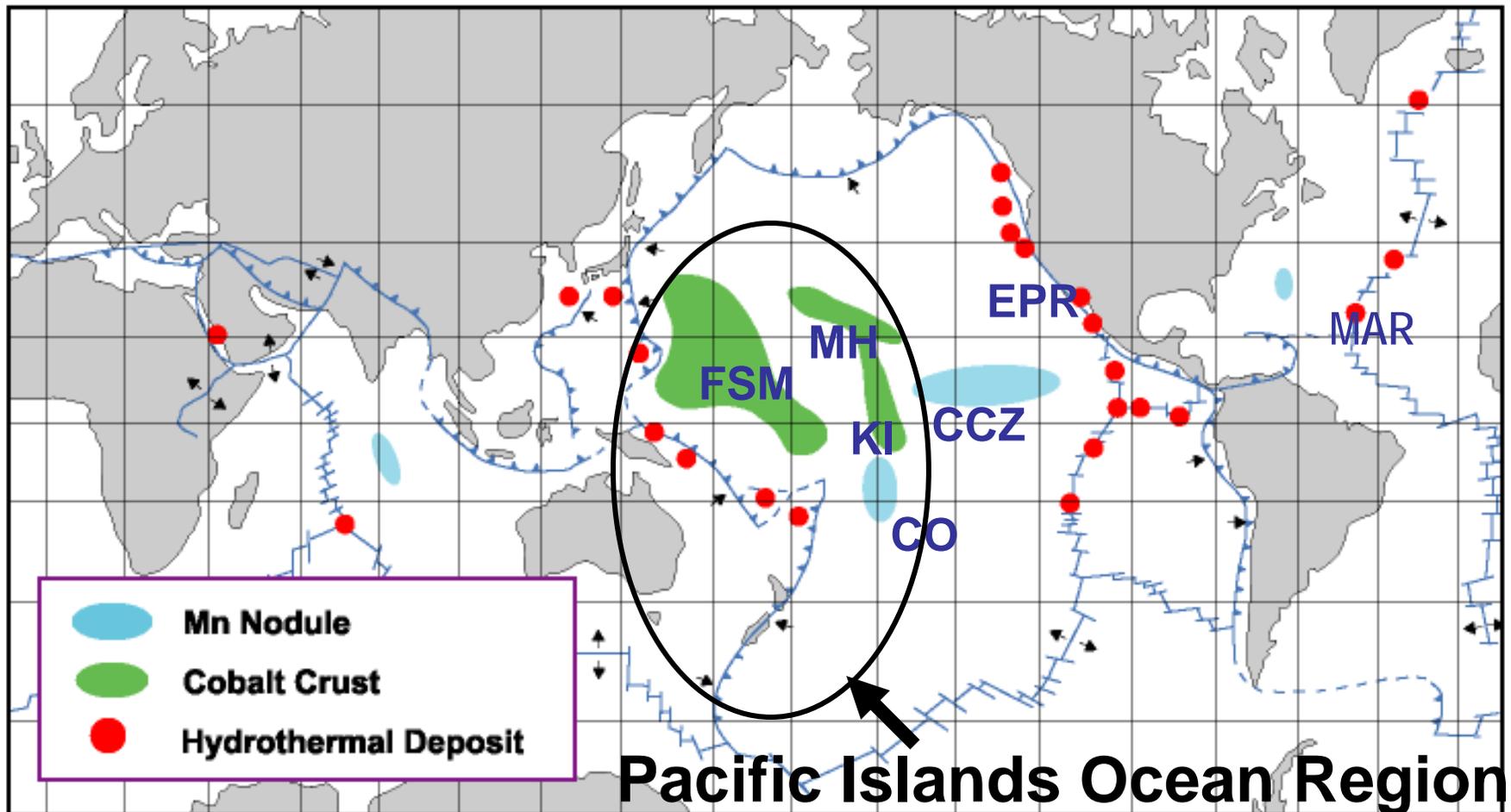


Pacific – Japan Cooperation marine scientific research surveys 1985 - 2004

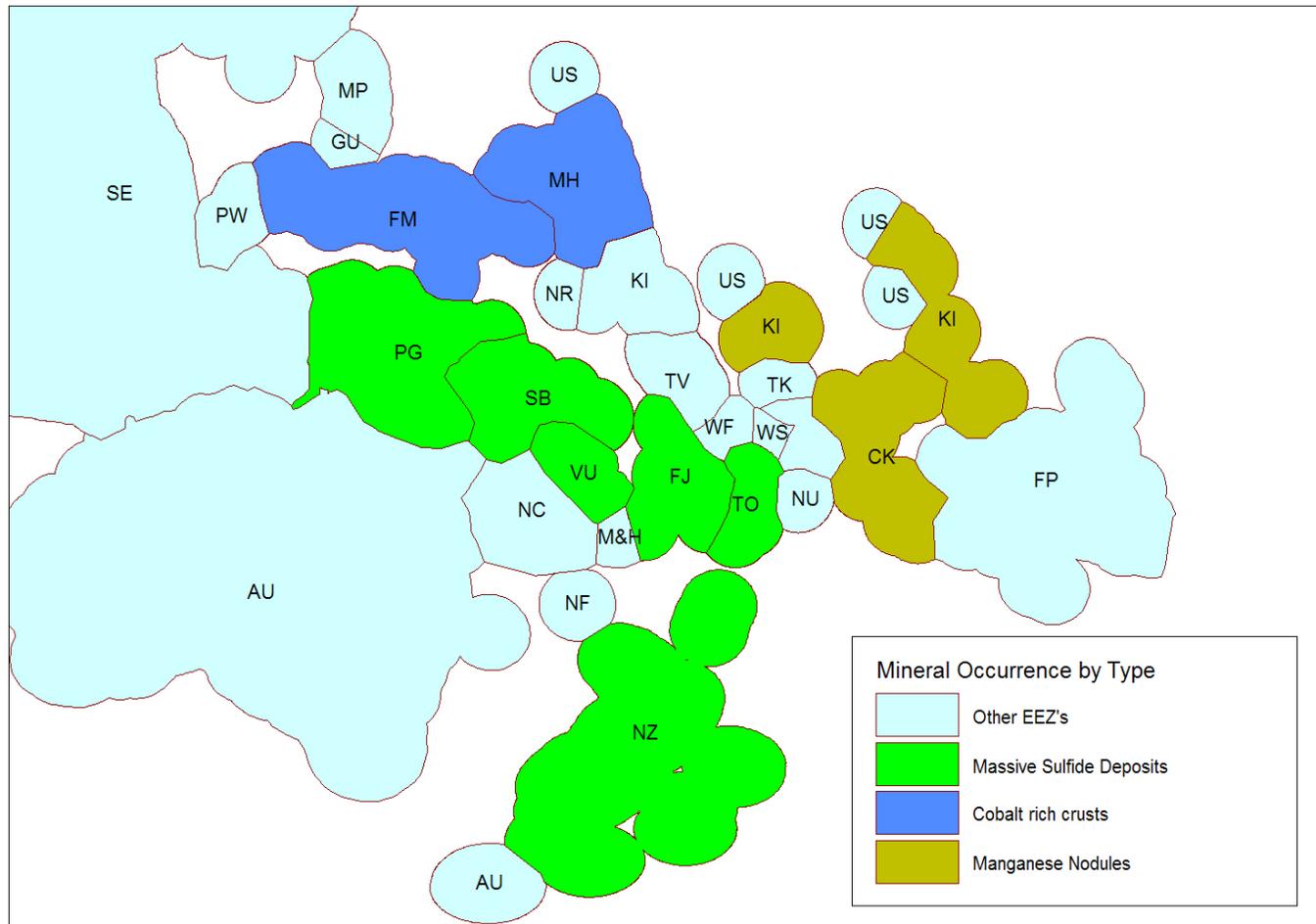


(MMAJ Mineral Atlas, 2005)

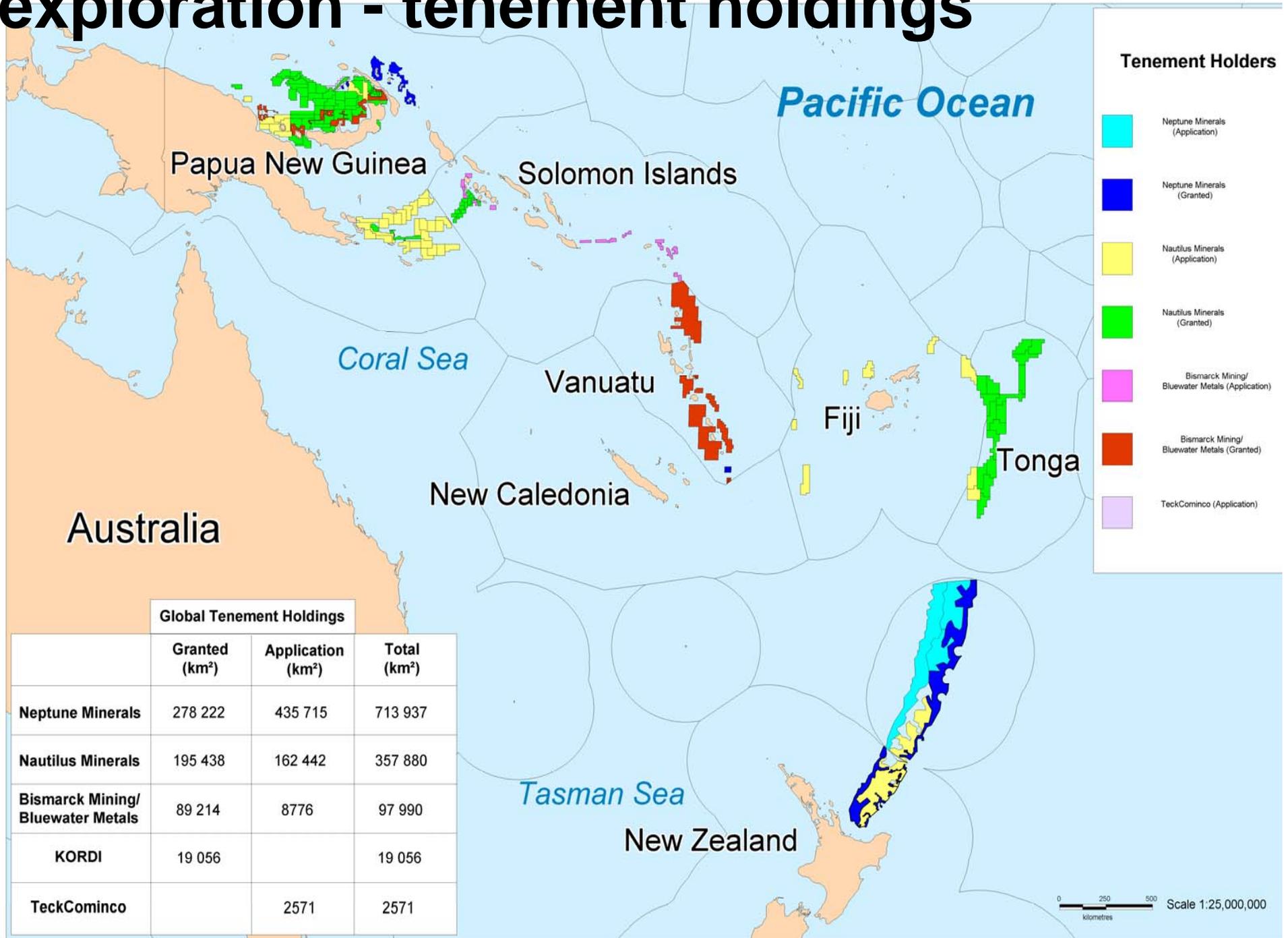
Some known deposit areas



marine mineral occurrences in the Pacific



exploration - tenement holdings



potential benefits of marine mining

BENEFITS to Host Country and Region

- ✦ **Wealth** worth millions of dollars will be generated
- ✦ A fair share shall be returned to government and the people through **tax revenues, royalty and employment**
- ✦ Mining revenue will enable government to **stimulate other economic sectors**
- ✦ Indirectly **supporting local economic activities**
- ✦ Contribute to a **well educated labour force**
- ✦ Increase **labour mobility**

specific issues and challenges

Exploration and Marine Mining

- ✘ Absence of specific policy, legislation & regulations
- ✘ Lack of resources and technical skills

- ✘ Potentially large revenue streams
- ✘ Requirement for robust financial systems

- ✘ EIA uncertainty – **limited understanding of deep sea ecosystems**
- ✘ Local communities concerns of marine mining (e.g. PNG)

- ✘ Use of mobile platforms and other technologies

capacity challenges

LIMITED Economic and Human Resources

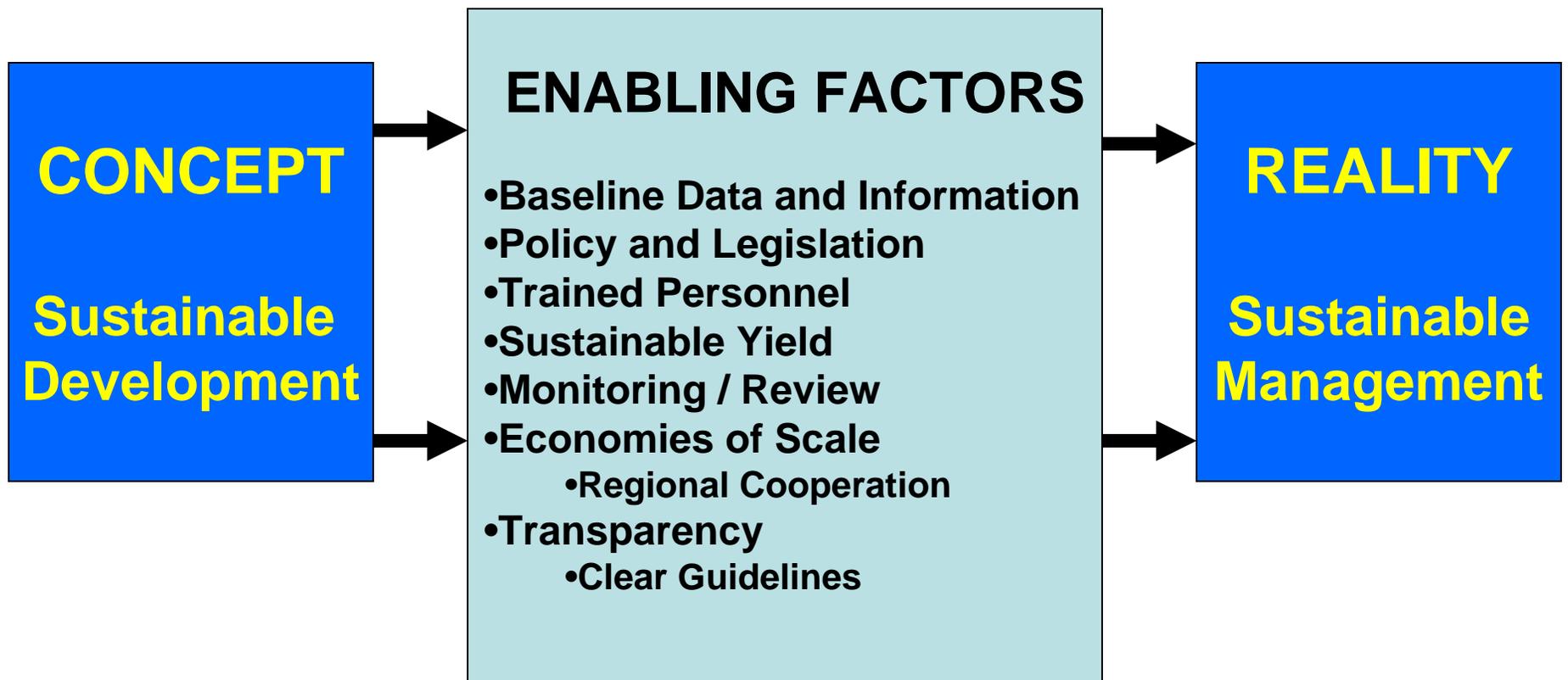
- ↙ WEAK institutions
 - ↙ legal and policy arrangements
- ↙ FEW legal and ocean governance specialists
- ↙ NO research vessels
- ↙ FEW research institutions
- ↙ FEW regional “marine” scientists

opportunities to address challenges

Research, Development & Management

- ✘ Clarify role and responsibilities, for improved ocean governance & policy coordination and, facilitate implementation (cooperation & collaboration)
- ✘ Strengthen MSR coordination
- ✘ Develop a transparent legal, regulatory and fiscal framework to control/regulate and adjust revenue streams
- ✘ Develop environmental policies, regulations and guidelines to control/regulate exploration and mining
- ✘ Develop “targeted” capacity building initiatives, for purpose
- ✘ Adopt regional approaches where relevant – to achieve economies of scale example, develop “model” agreements for adaptation at national level; design and develop regional and national databases
- ✘ Urge international organisations (e.g. ISBA, UN-DOALOS, ComSec) to take an active role in supporting Pacific States

goal - sustainable development



recommendations

- Consider the implications of the growing interest in offshore minerals as demonstrated by the increasing numbers of applications lodged with Pacific governments to acquire ground within their Exclusive Economic Zones, and the lack of adequate offshore mineral policies and, or regulatory frameworks to protect their national interests.
- Strongly urge international and regional organisations to support developing coastal States to coordinate the development and implementation of appropriate and effective legal and technical policy and regulatory frameworks.
- Ensure targeted capacity building at policy, institutional, legal and technical levels of developing coastal States that results in effective exploration and mining which leads to sustainable management of NLR marine resources and the equitable sharing of benefits.