



# WMO

## Regional Seminar on Climate Services in RA V (South West Pacific)

1-4 November, 2011

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Climate Change Division  
SPREP  
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## Regional Collaborations: Its Roles in Climate Services?

- SPREP
- Regional Collaboration Mechanisms
- How climate science information and other kinds of products could be used to support regional collaborations or partners programmes.





**Climate Change**

**4 Delivery Divisions**

**Waste Management and Pollution Control**



**Environmental Monitoring and Governance**

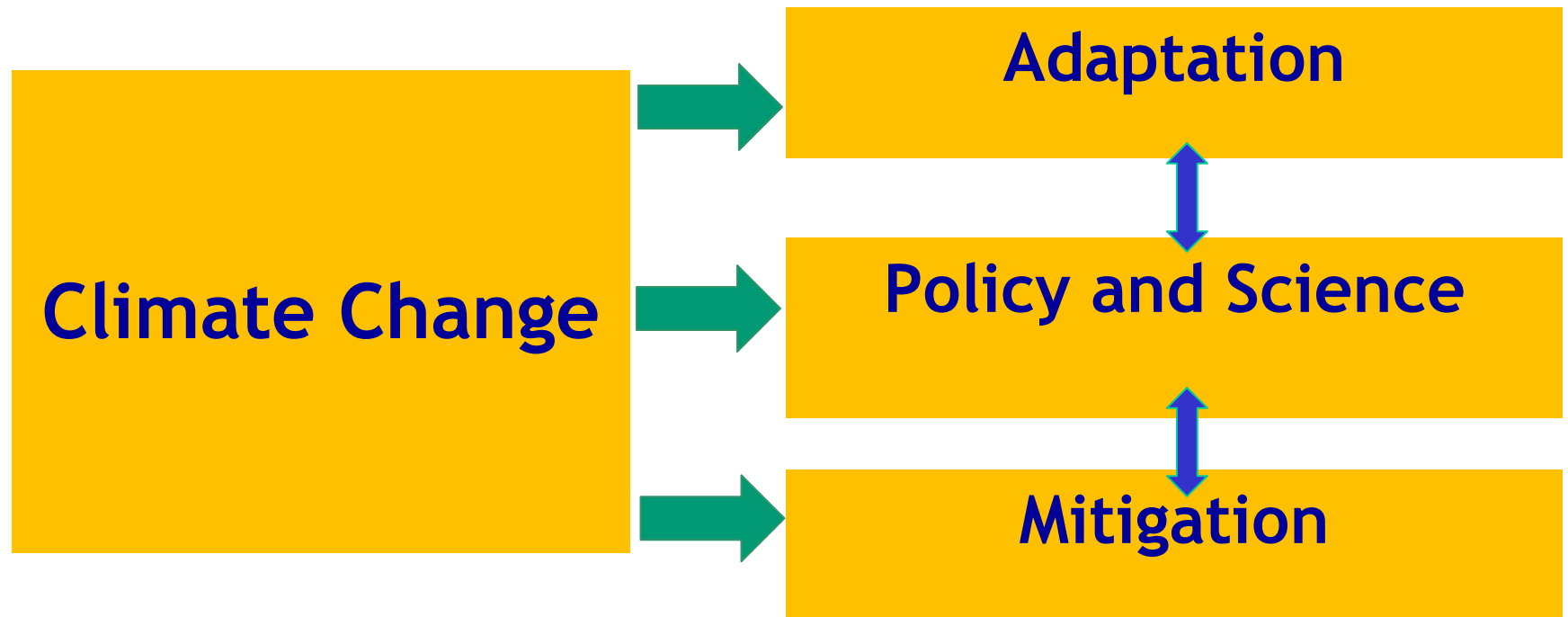
**SPREP Strategic Plan 2011-2015**

**Biodiversity and Ecosystem Management**



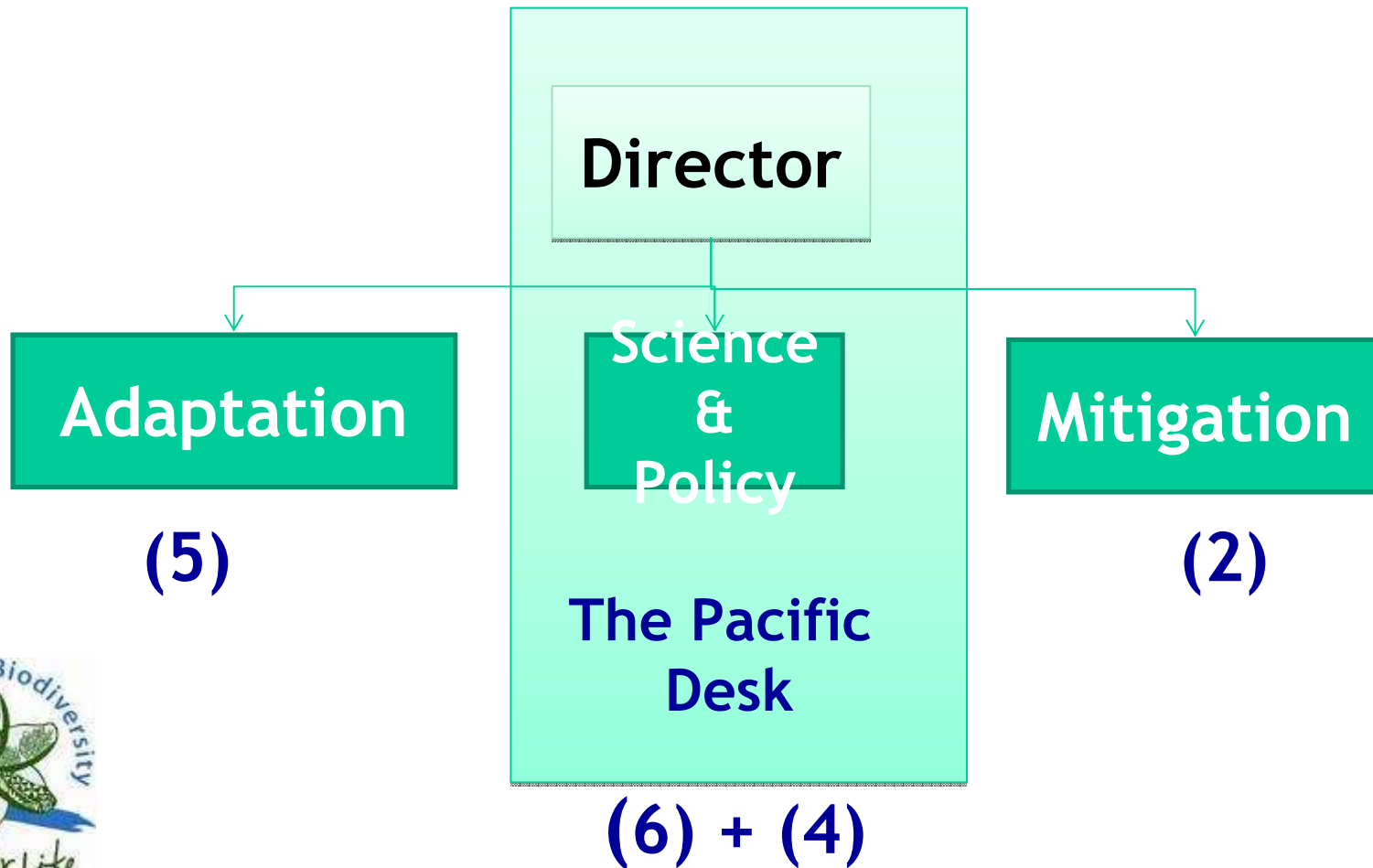


## 2011-2015 SPREP Strategic Plan



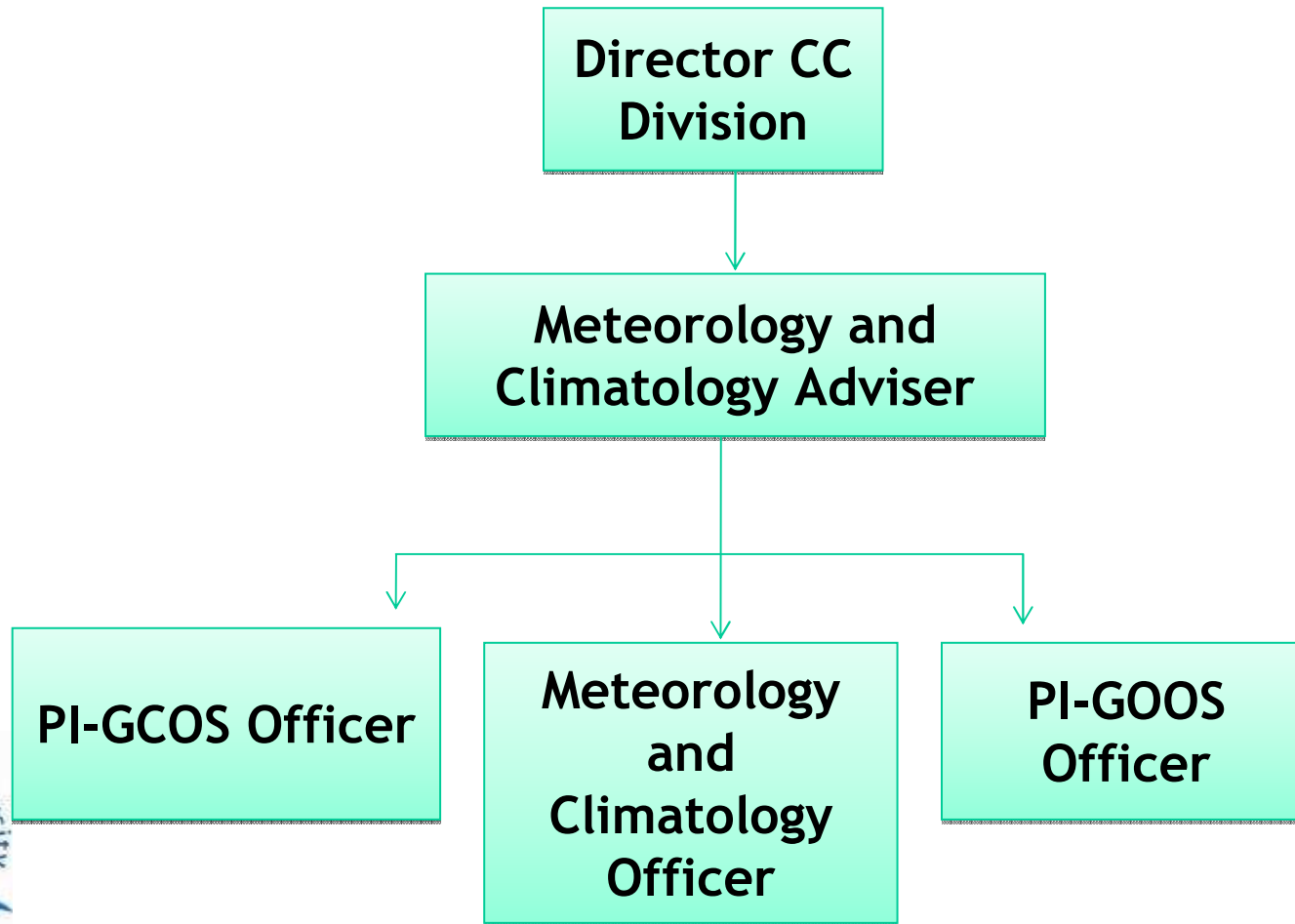


# Climate Change Division





# Pacific Desk Partnership Arrangements



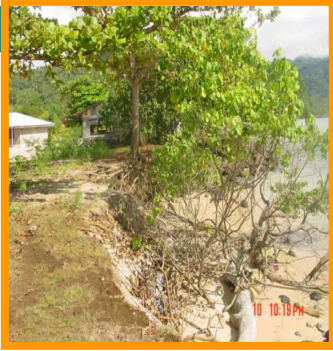




SPRI



# Vulnerability assessments



# Capacity Building



# Consultation



# Energy Efficiency



# Meteorology and Climatology

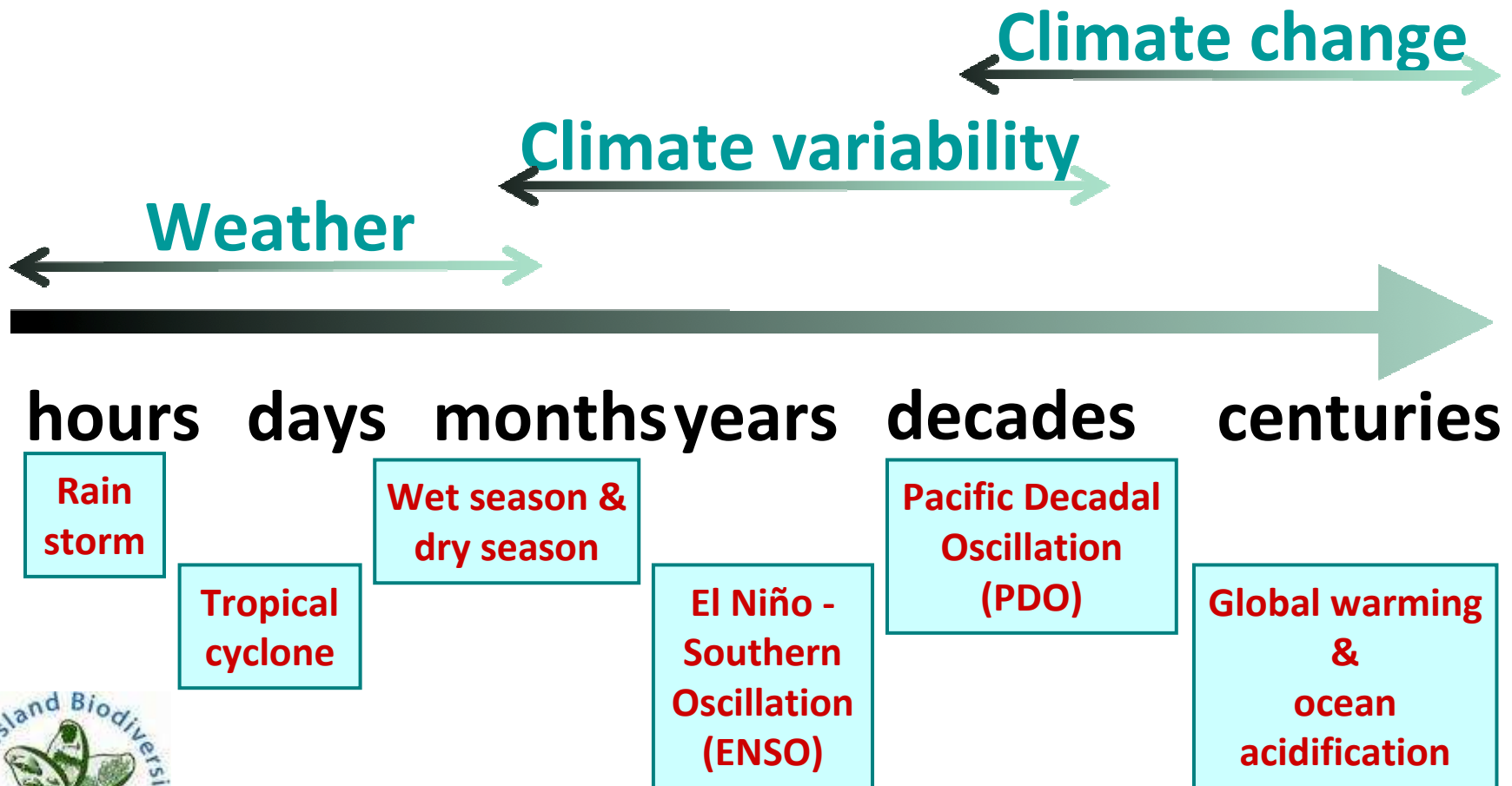




**SPREP**



# Weather and climate time scales

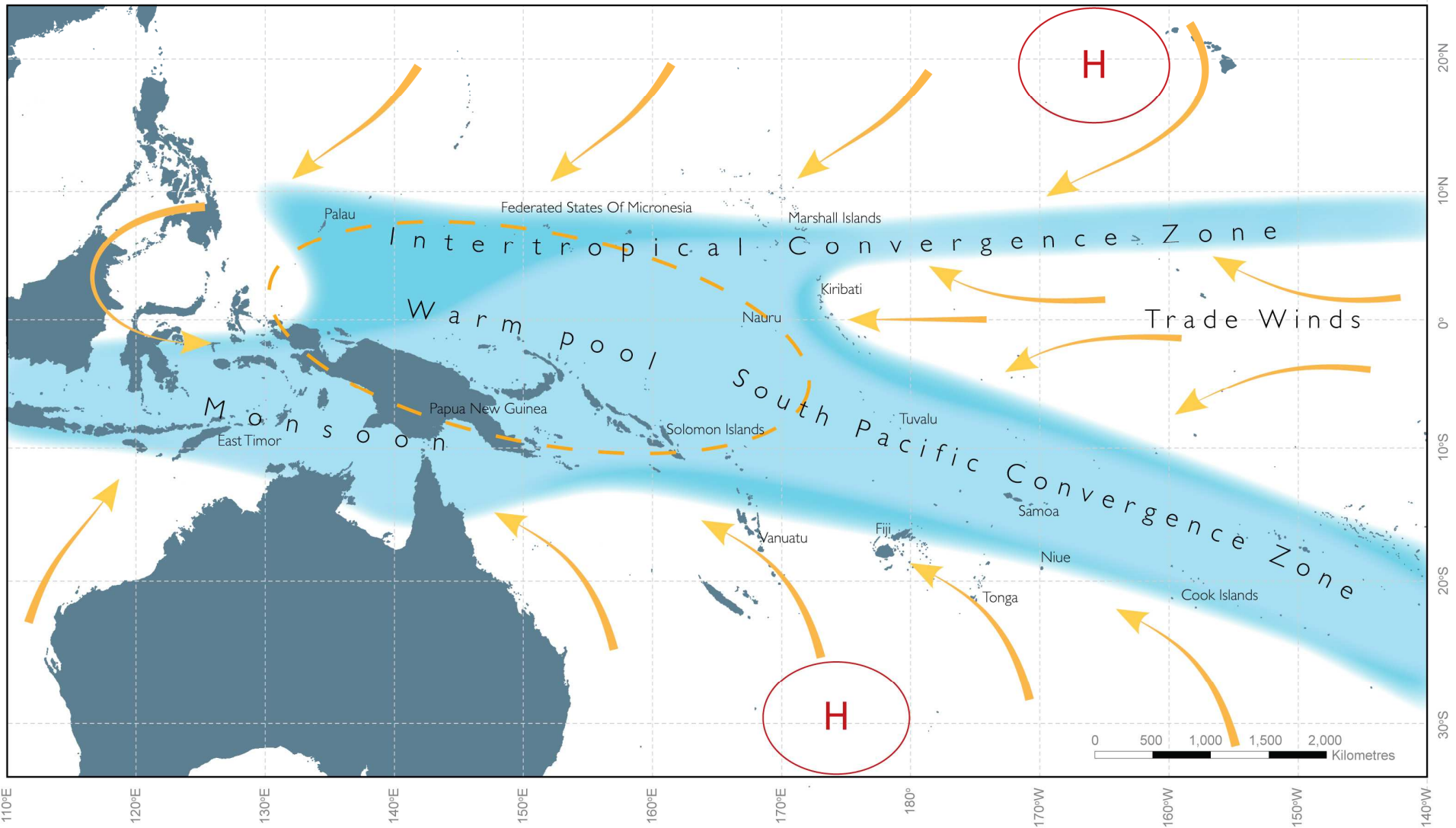


Source: CSIRO, PCCSP (2011)





Typical circulation features in the South-West Pacific



It's Our Life

Source: CSIRO, PCCSP (2011)



## SPREA A new approach: climate futures

- *Group the projections into a set of climate futures, e.g.*
  - **Warmer, wetter** (9 models = 50%)
  - **Warmer, drier** (4 models = 22%)
  - **Hotter, drier** (2 models)
  - **Hotter, much drier** (1 model)
  - **Warmer, much drier** (1 models)
  - **Hotter, wetter** (1 models)
- *Projected changes in other climate variables can also be obtained from within this classification*



**Source: CSIRO, 2011**

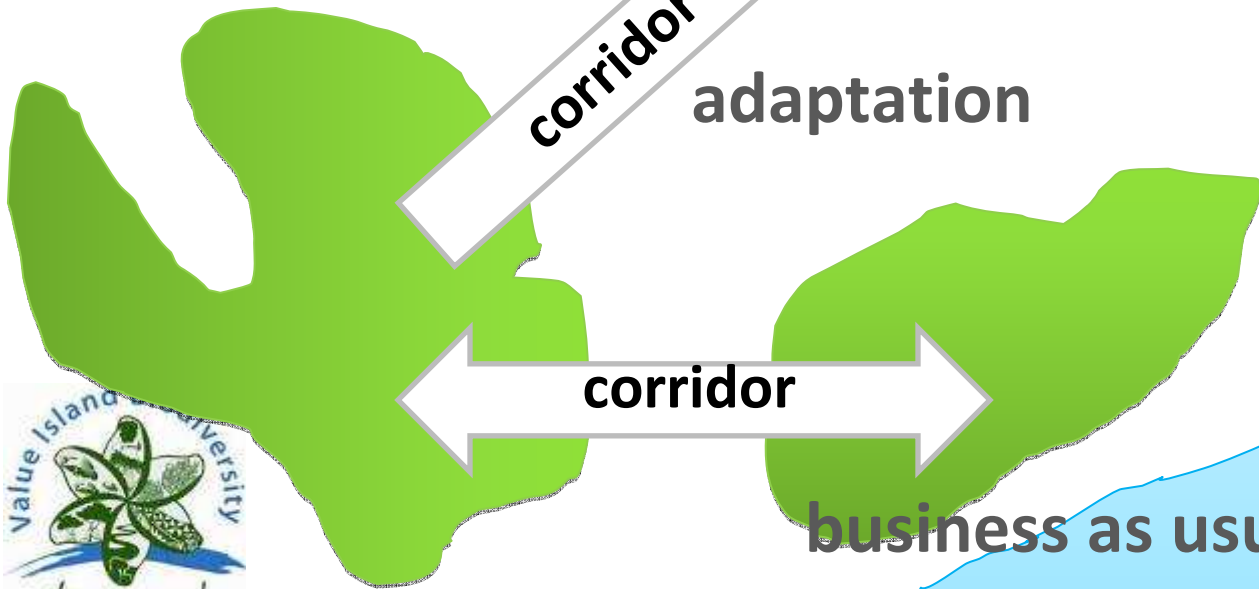
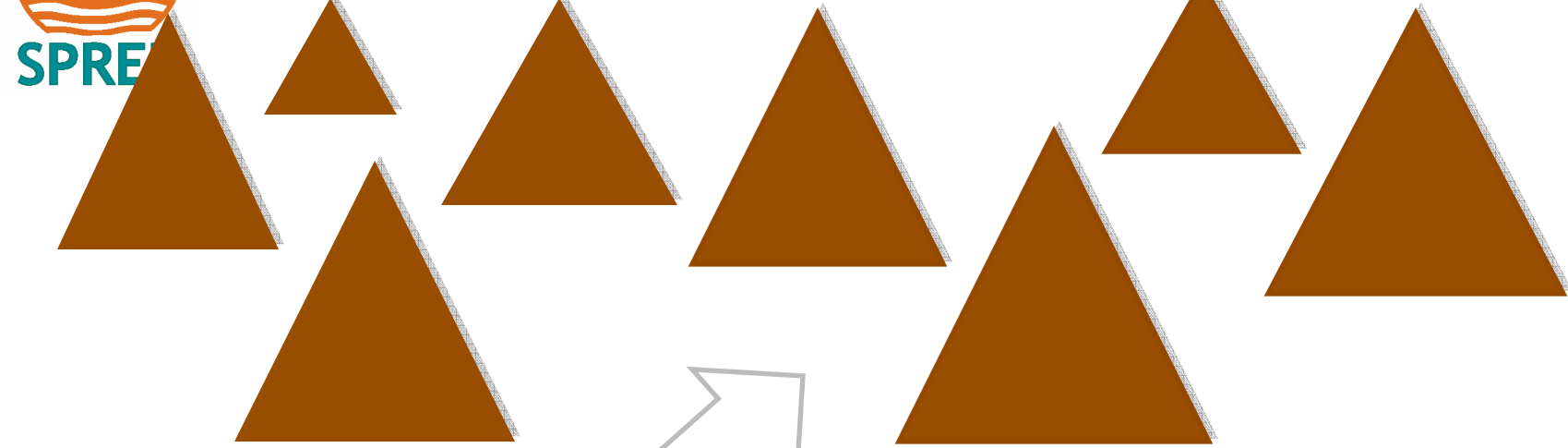


SI



## Climate Trend...

- Main Climate Drivers - ENSO, SPCZ and Trades
- Seasonal Temperature - relative uniform throughout the year
- Seasonal Rainfall - distinct rainfall cycle influenced by the SPCZ and trade winds
- Inter-annual variability of temperature is small
- Annual mean temperature show clear warming trend of  $0.12^{\circ}\text{C}/\text{decade}$  since 1930



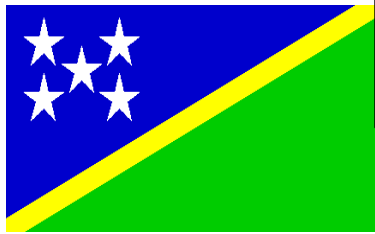
**business as usual risk  
reduction or conservation**



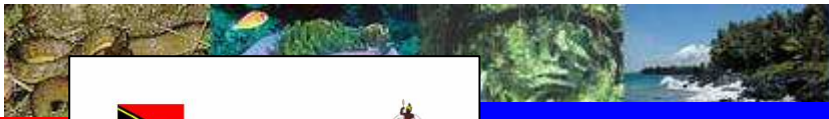
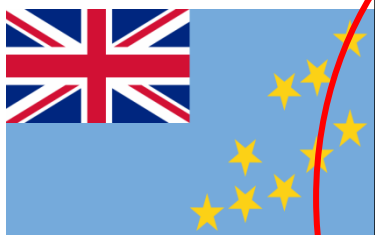




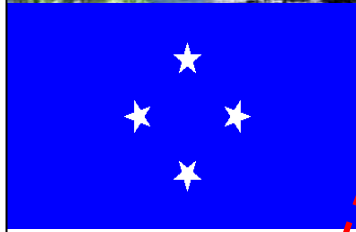
Samoa



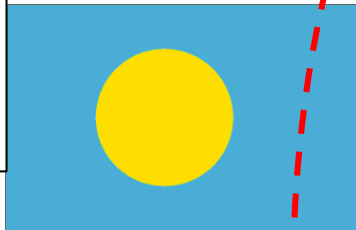
Sol Islands



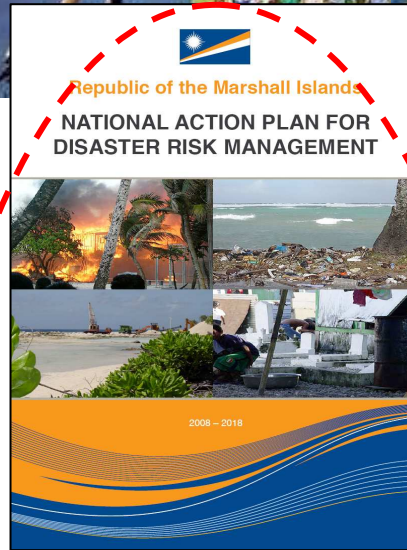
Vanuatu



FSM



Palau



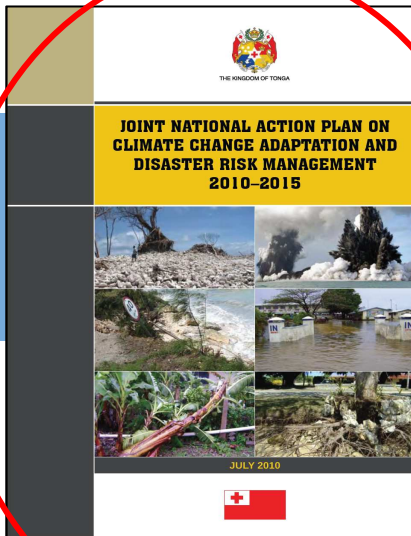
Marshall Islands



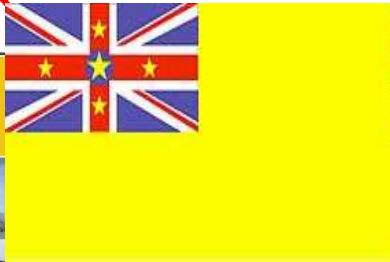
PNG



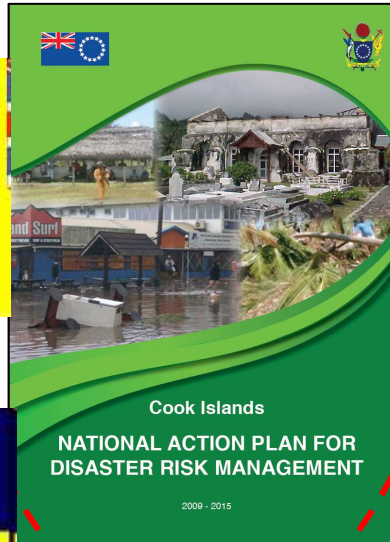
Kiribati



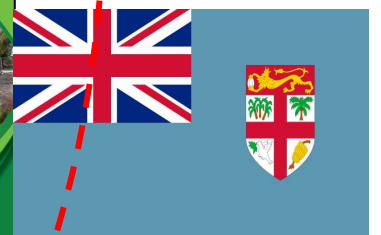
Tonga



Niue



Cook Islands



Fiji

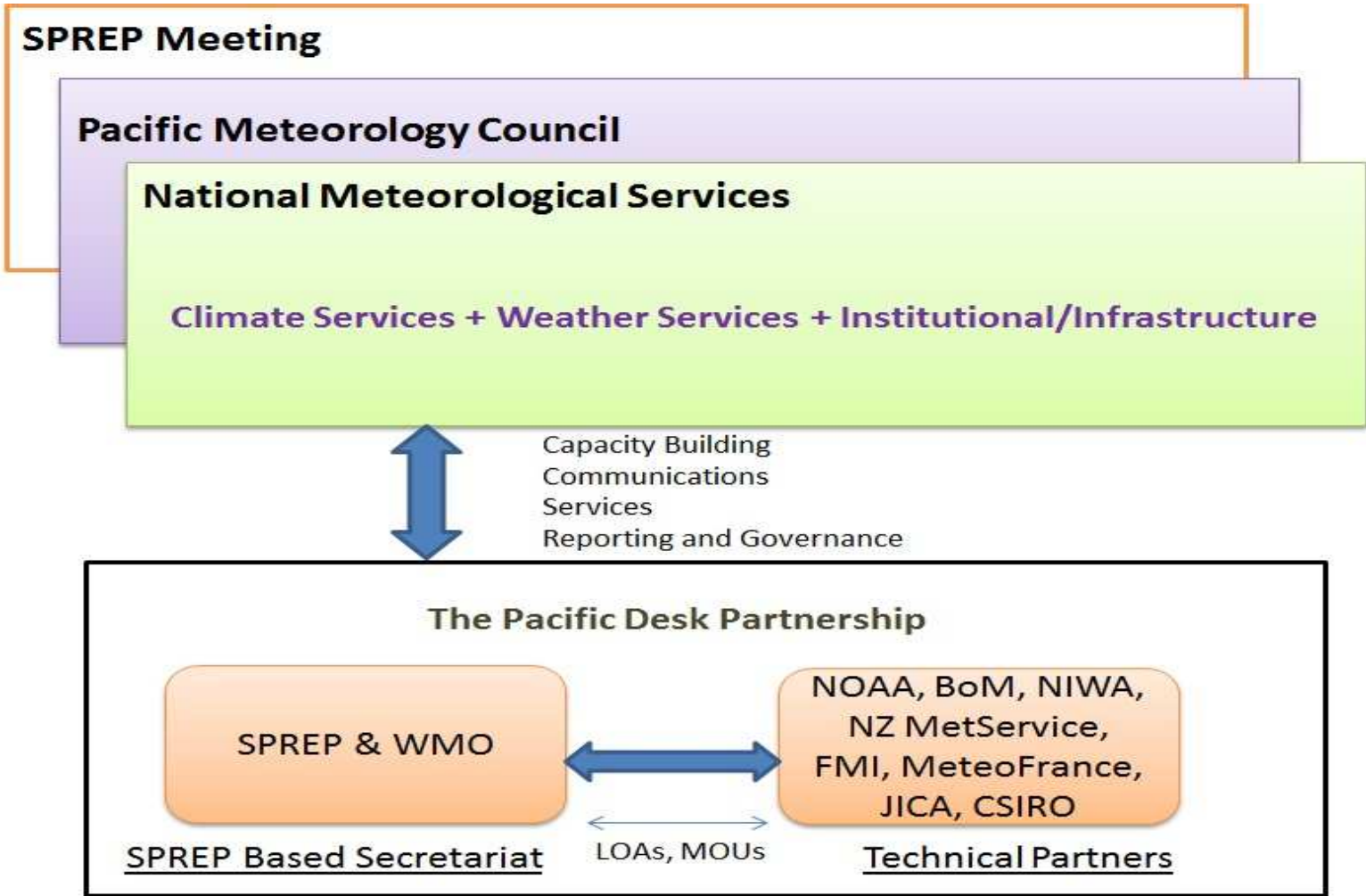


Nauru



# Partnership and Collaboration Mechanisms and Programmes









# First Meeting of the Pacific Meteorological Council



August 2011

RMI





## PACIFIC CLIMATE CHANGE ROUNDTABLE

- Mitigation WG – coordinated by SPC and PIFS
- Adaptation and Mainstreaming WG – (SPREP and IUCN)
- Climate Change Resources WG coordinated (PIFS and SPREP)
- Climate Change Information and Knowledge Management WG, (SPC and SPREP)





## Finnish-Pacific Project to Reduce Vulnerability of the Pacific Island Countries' Livelihoods to the Effects of Climate Change

**Result 1** Improved Regional and National Meteorological Services

**Result 2** Enhanced Dissemination of Early Warning Information

**Result 3** Improved Use of Weather and Climate Information in Pacific Island Countries





**SPREP**



# **Pacific Australia Climate Change Science and Adaptation Planning Programme (PACCSAP)**

**1. Continue to develop the capacity of Pacific National Meteorological Services to understand and apply climate change science, as commenced under the PCCSP.**





## PACCSAP

**2. Synthesise, communicate and raise awareness among Pacific island stakeholders (planners, decision-makers, schools, media, and communities) and development partners of the key PCCSP and PASAP outputs on climate change science, including projections, and adaptation good practice and planning frameworks;**







## PACCSAP

**3. Produce new climate change science to better understand likely implications for food and water security, coasts and infrastructure, of the effects of climate change, climate variability and extremes.**

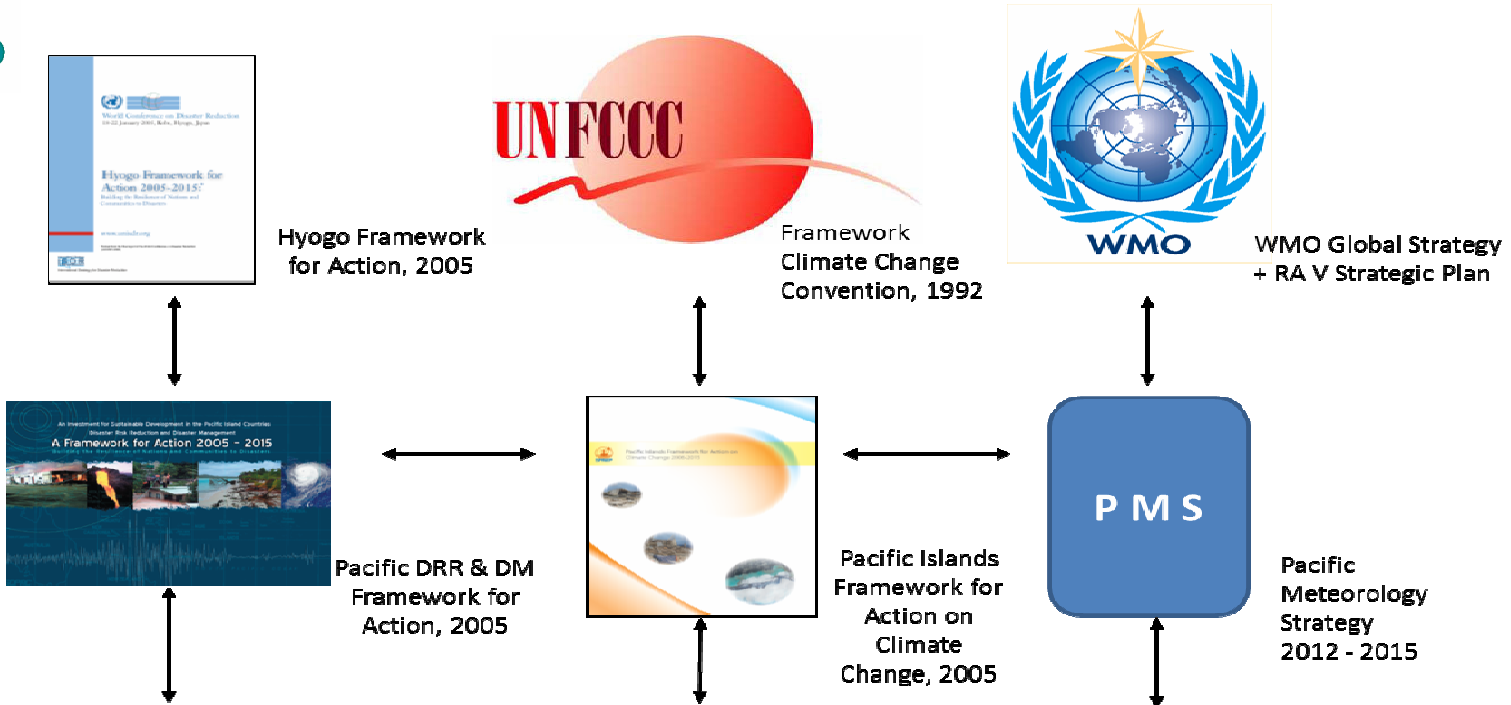




## PACCSAP

**4. Produce new analyses, adaptation tools and assessments to underpin the capacity of Pacific decision-makers and planners to develop and implement adaptation responses.**

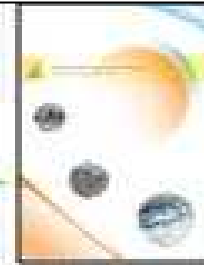




- **Implementing adaptation measures**
- **Improve understanding of climate change**
- **Knowledge, information, public awareness and education**
- **Understanding root causes of vulnerabilities and elements at risk**
- **Preparedness, response and recovery**
- **Early warning systems**
- **Reduction of underlying risk factors**
- **Sustained weather, climate, and early warning services**



**Linkages of relevant global and regional frameworks**

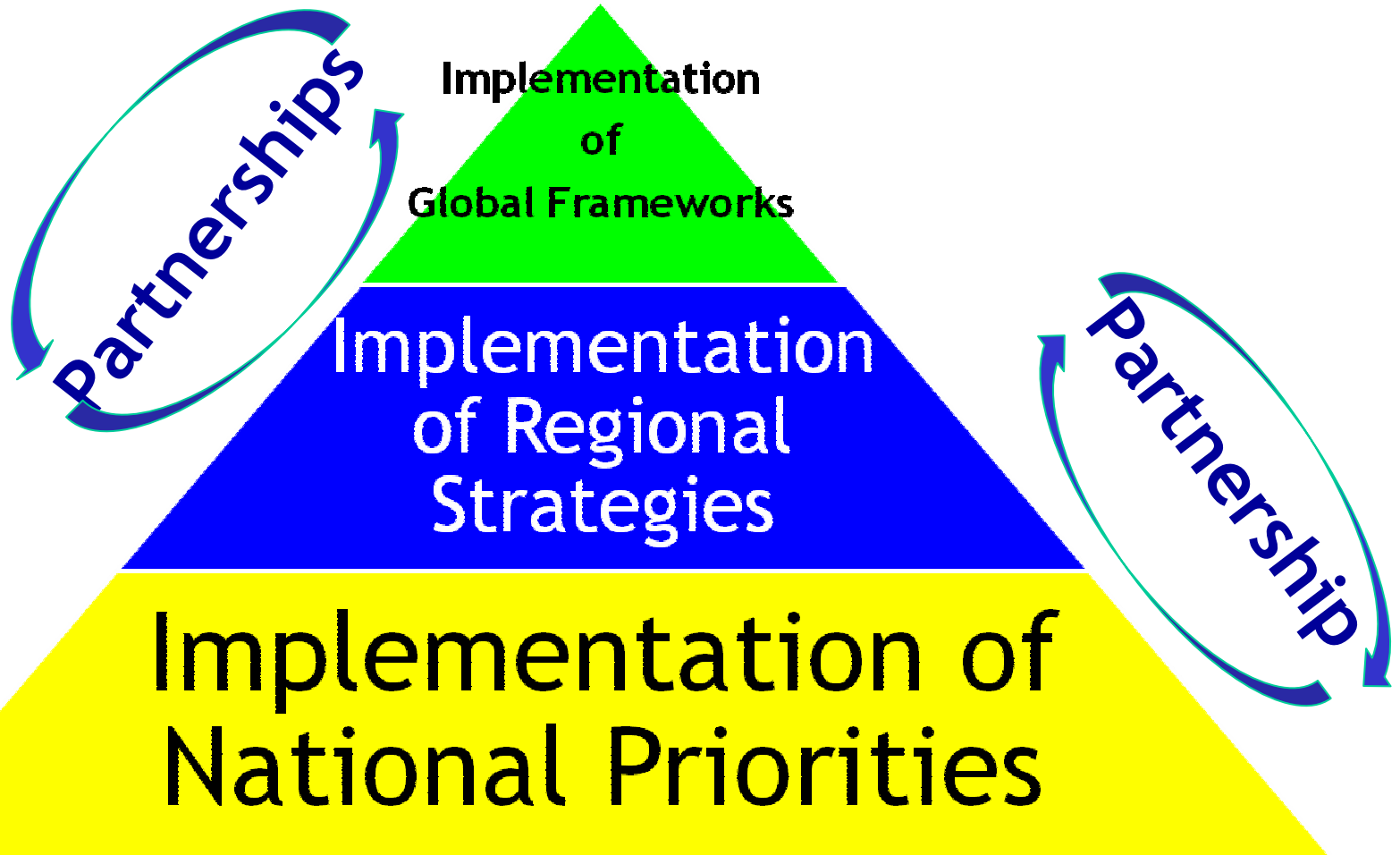


- Theme 1: Governance – organisational, institutional, policy and decision-making frameworks
- Theme 2: Knowledge, information, public awareness and education
- Theme 3: Analysis and evaluation of hazards, vulnerabilities and elements at risk
- Theme 4: Planning for effective preparedness, response and recovery
- Theme 5: Effective, integrated and people-focused early warning systems
- Theme 6: Reduction of underlying risk factors

- Principle 1: Implementing adaptation measures
- Principle 2: Governance and decisionmaking
- Principle 3: Improve understanding of climate change
- Principle 4: Education Training and Awareness
- Principle 5: Contributing to global greenhouse gas reduction
- Principle 6: Partnership and cooperation

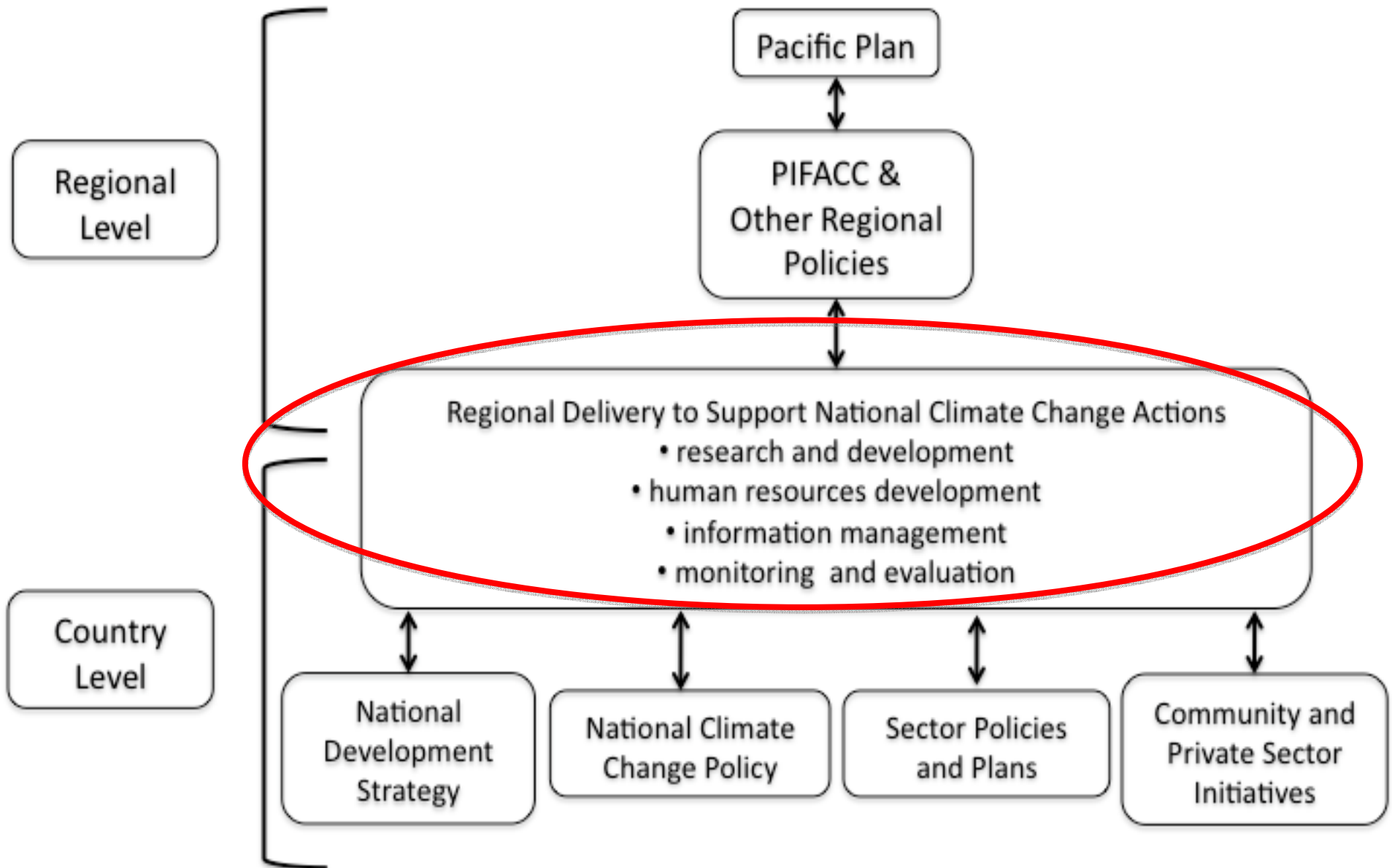








# Pacific Islands Framework for Action on Climate Change 2006-2015





Climate Services ?

Energy

Climate change

Population

Development

Pollution

Resources  
Degradation

Sustainable  
Development



Time →  
Current Trends



# Contact Us!



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- Email: [NetatuaP@sprep.org](mailto:NetatuaP@sprep.org)

