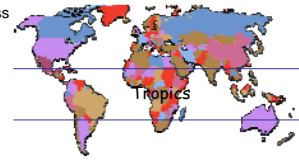


## CTI Knowledge Building Facility



## The World's Tropics

- Approaching one-half of world's landmass
- Approximately 2/3 of world's population
- 50-80% of plant and animal species
- 90% of coral reefs
- 20% of Gross World Product
- Population twice that of rest of world
- Infant mortality 11-times higher than Australia



## Statement of Strategic Intent



**Our Intent**  
A brighter future for life  
in the tropics world-wide

**Our Purpose**  
Graduates and discoveries  
that make a difference

## Strategic themes

- *Tropical ecosystems, conservation and climate change*
- *Industries and economies in the tropics*
- *Peoples and societies in the tropics*
- *Tropical health, medicine and biosecurity*

## Reputation

### ARC Centre of Excellence

- Ranks 1<sup>st</sup> in the world for publications in **coral reef ecology** (has 4 of the world's top 20 researchers)

### Environment and Ecology

- Ranks 2<sup>nd</sup> in Australia for publications in this field (2008)
- **Tops** the nation for articles in the top 15 journals in the field of **marine and freshwater biology**, accounting for 15.3% of articles involving Australian authors

### Tourism

- Ranks equal 1<sup>st</sup> in world for **Tourism** (has 4 of the world's top 20 researchers)

To create  
a brighter future...



The next 40 years, ahead of James Cook University has been focused on creating a brighter future for the people of northern Australia and the tropics world-wide. The world's 80% of the world's population live within the tropics, and the tropics have a one-half of the world's population and around 50% of the world's Gross World Product. The tropics is also a shining star of the world's climate system and the site of great challenges and opportunities in health, the environment and economic, social and political development.



WE INVITE YOU TO JOIN US AND MAKE A REAL DIFFERENCE.

## Partnerships

### Joint Ventures

- Collaborative research partnerships e.g. Tropical Landscapes Joint Venture, AIMS@JCU, Australian Tropical Herbarium

### Co-locating researchers across institutions

- Australian Tropical Forest Institute (ATFI)
- Australian Tropical Science and Innovation Precinct (ASTIP)
- Proposed Australian Institute of Tropical Health and Medicine

## Australian Tropical Forest Institute (ATFI)

Centre of excellence focusing on tropical forest conservation and sustainable use

### ATFI:

Builds on successful collaboration under Rainforest CRC  
Growing links with end-users  
Major involvement in post-Cyclone Larry research

### Participants:

CSIRO Sustainable Ecosystems  
Australian Tropical Herbarium  
Tropical Agriculture  
Marine and Tropical Sciences Research Facility  
NGOs



## Australian Tropical Science and Innovation Precinct (ATSIP)

A centre for research on sustainable development in tropical environments

- \$34 million facility ~ completion April 2010;
- Builds on long-standing collaboration between JCU & CSIRO
- JV between JCU & CSIRO with own research program



### JCU

Tropical Agriculture  
Freshwater Research  
Marine Sciences

### CSIRO

Sustainable Ecosystems  
Land & Water  
Plant Industry  
Water for a Healthy Country

## Australian Institute of Tropical Health and Medicine (AITHM)

Consolidating JCU's strengths in tropical health and medicine

- Builds on long-standing involvement in tropical health and medicine. AITM began in 1910 - Australia's first medical research centre.
- Queensland Tropical Health Alliance (QTHA) involves Stage 1 of AITHM, the goal of which is to increase Queensland's capacity in tropical health and medical research
- QTHA brings together key organisations across the State
- Multi-campus with initial funding of \$20m



## Cairns Institute

□ Support international research, teaching consulting, training, and policy development, drawing on applied multidisciplinary studies in the social sciences, business, arts, education and humanities

□ Target tropical northern Australia, the Pacific, south Asia, South and Central America across four broad themes:

- people, society and quality of life in the tropics
- education for social and environmental sustainability
- innovation and entrepreneurship
- and regional economic development



□ Will address: land title, human impact of climate and ecological shifts, cultural diversity, migration, conflict, local and regional government, development, quality of life and sustainability education, cultural and ethnic issues, urbanisation, employment, and poverty.

## Knowledge Building Facility

### Starting points

1. A 'transformational' approach to marine resource management is required to address the challenges in the Coral Triangle region.
2. To achieve this, long-term and tailored capacity building was identified at the Townsville meeting as a major need to be addressed by country participants and in-region experts.
3. We need to test the authenticity of these points and seek input to the development of a facility that would help meet the needs.
4. We are not starting from scratch [TNC CTI Centre, WFC, SEAFDEC, training courses and other types of capacity building by IUCN, NGOs, etc.]

## Knowledge Building Facility

Some operating principles:

- Needs oriented
- Collaborative
- Facilitative
- Coordinating
- Value-adding



## Knowledge Building Facility

Possible features

- A 'secretariat' based in Townsville or Cairns
- A distributed network of institutions throughout the region
- Draws together and packages technical expertise from:
  - Organisations operating within the Coral Triangle region
  - Australian-based organisations that are partners in the facility (e.g., JCU, CDU)
  - Other marine research organisations (e.g., AIMS)

## Knowledge Building Facility

Possible features

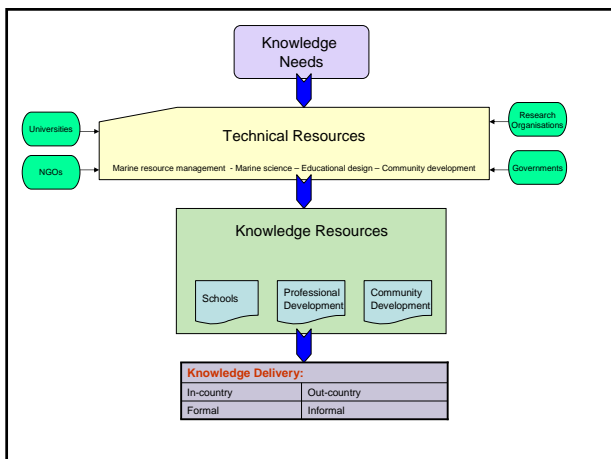
- Knowledge building ~
  - topics relevant to marine resource management (generic to specific);
  - a variety of modes of delivery (formal, informal);
  - training of different durations
  - in- and out-of country locations;
  - a variety of levels of education
- Responsive to the characteristics and needs of the 6 CTI nations



## Knowledge Building Facility

Possible features

- *Educational resources for schools* (primary through secondary)
- *Tertiary-level training*, designed to equip the Coral Triangle nations with an appropriately skilled group of professionals
- *Professional development*, targeted to practicing professionals
- *Community development resources*, designed to equip people with skills and employment opportunities.



## Role of the Facility

- Fill the capacity building gaps, by enlisting existing institutions in the region and in Australia and
- Provide a 'clearing house' (e.g., direct interested parties to existing training/education programs within the region that they may not know about)

## JCU's Value Proposition

- Well-established reputation
- Long history of training in region
- Imbedded in the region
- Much required training already exists
- Participant in the existing networks



## Capacity building in the CT and East Africa

- **Science**  
Capacity-building workshops on integrating social science and ecology
- **Policy**  
Training NGO staff, resource managers, and local university students to incorporate the human dimensions of marine conservation
- **Community**  
Sharing information about the condition of local resources and management options to community leaders and stakeholders



## Capacity building: Solomons, PNG

- In-country training to
- organise, conduct, record and transcribe interviews collecting demographic data
  - mitigate environmental impacts of infrastructure projects
  - prepare teaching materials
  - Invertebrate population assessment (e.g. *Tridacna*; trochus, mangrove bivalves)
  - Grouper visual census



## Next Steps

- Conduct extensive and detailed consultations throughout the region to determine:
  - the needs
  - what already exists,
  - what works and what doesn't
  - what are the gaps,
  - who should be the partners in this enterprise
- Consolidate information on existing training/education programs into a user-friendly database
- Develop a menu of training options that address the gaps