



## **Assisting Partners in Micronesia to Adapt to Climate Change**

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The Nature  
Conservancy   
Protecting nature. Preserving life.™

## Overview

- **TNC's Micronesia Program**
- **Defining the problem**
- **Potential solutions**
- **Conclusions**

## The Nature Conservancy

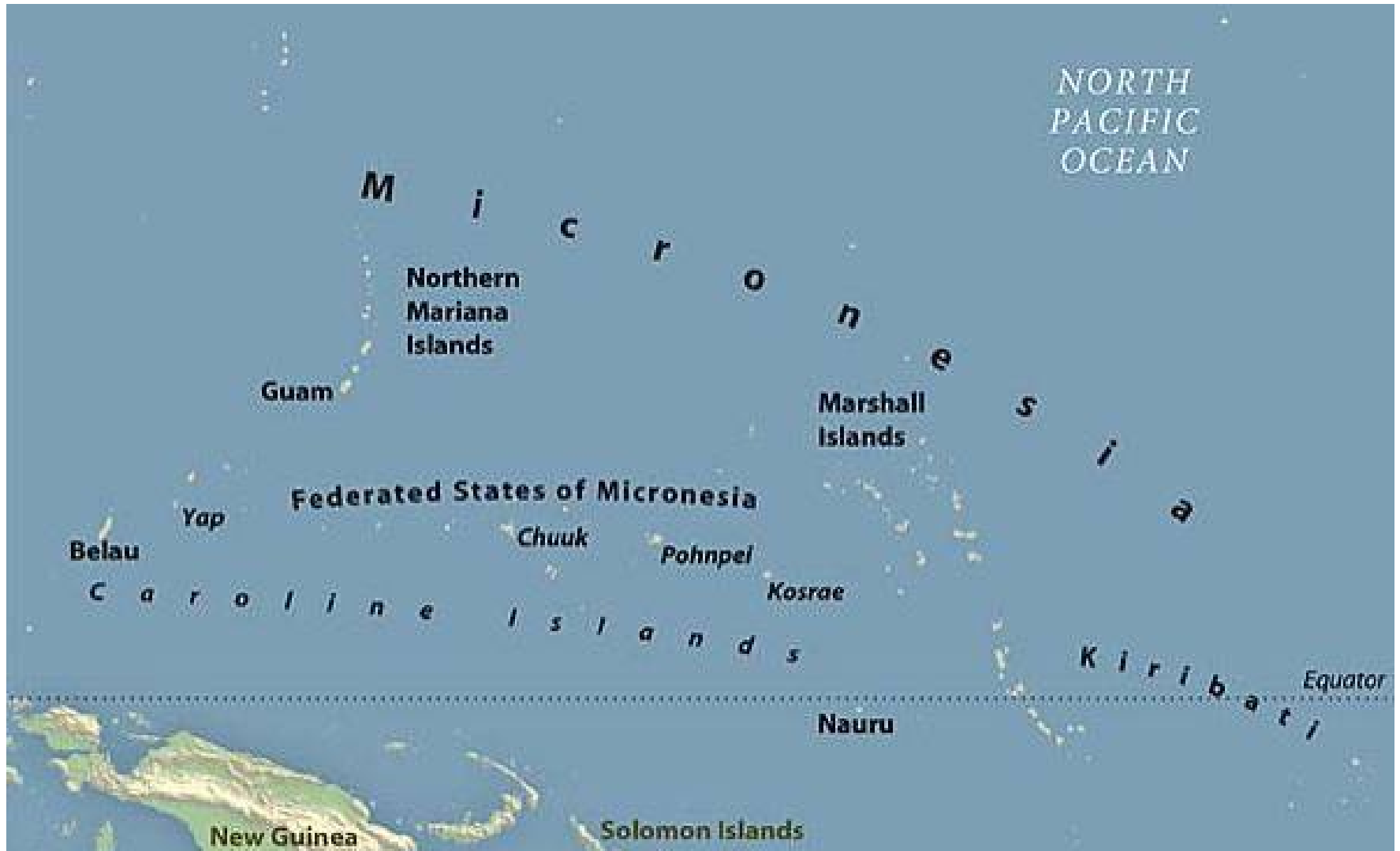
- **Science-based**
- **Work collaboratively**
- **Conservation by Design**



## Where We Work

- **32 Countries in 5 regions**
- **1990: Palau office opened**
- **1992: Pohnpei office opened**
- **2002: Expanded to create Micronesia Program**

# Micronesia Program





## Defining the problem

- **Climate change happening at unprecedented rate**
- **Primary drivers**
  - increased concentrations of greenhouse gases, (e.g. CO<sub>2</sub>) in the atmosphere
  - 90% due to fossil fuel use and forest loss and degradation [\[1\]](#)  
[\[1\]](#) IPCC
- **Big issues for Pacific Islands**
  - Increasing sea surface temperatures
  - Rising sea level
  - Ocean acidification



## Potential solutions

- **Reduce the pace and severity of climate change**
- **Manage for its impacts in ways that protect the biodiversity and benefit human welfare**
- **Generate resources for conservation**



## **Reduce the pace and severity of climate change**

- **Assist Pacific Island countries at UNCCC and UNCBD meetings**
- **Work with other BINGOs to influence stronger CC policies in big industrial nations**
  - **REDD**
  - **Stronger emission reductions**
  - **Cap and Trade**





## Manage for CC impacts

- **Protected Area Network Design**
  - Resilience model
- **Site-based planning**
  - CAP and management planning
  - Monitoring
- **Peer-learning networks**
  - PIMPAC, MIC

# RESILIENCE MODEL

## Representation and Replication

Habitat Types  
Multiples



Risk Spreading



## Refugia

Resistant Communities  
Spawning Aggregations



Secure Sources  
of Seed



## Connectivity

Transport



Replenishment



## Effective Management

Strong Recruitment



Enhanced Recovery



# RESILIENCE

## **Generate resources for conservation**

- **Inclusion of nature-based adaptation eligible for CC funding**
- **Micronesia Challenge**
  - **Sustainable finance plans**
  - **Business / fundraising plan**



## Conclusions

- **Climate change is one of the biggest threats facing Pacific Islands today**
- **To lessen the severity of impacts, emissions must be reduced**
- **Communities and nature must find ways to adapt**
- **TNC provides assistance with policy, science, planning, coordination, and sustainable finance at many levels**



**Kalahngan**  
**Kamagar**  
**Kilisou Chapur**  
**Kommol Tata**  
**Kulo Mulalap**  
**Mesulang**  
**Olomwaay**  
**Si Yu'us Ma'ase**  
**Thank You**

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