

LOCATION and DEMOGRAPHICS

(2009 Household Income Survey)

Food Preparation (Makit)

Other Informal Activities

Weaving

Jewelry Making

Not Reported

FARM TYPE
Dry Land

Wet Land

KAYANGEL DEMOGRAP	HIC INFORMAT	ION	
Number of Household	32		
Average Household Size	3.0		
Average Household Income	USD6,198.97		
EMPLOYMENT			
Public Sector	28		
Private Sector	5		
INCOME SOURCE			
Social Security Benefits	12		
Civil Service Pension Funds	5		
Private Business	2		
Other Source	3		
Household Without Income	0	Where is P	ALAU?
INFORMAL ACTIVITIES AS INCO	ME SOURCE		, .
Fishing	1	China	
Farming	10	1 7/6	Àn
Wood Carving	0		Philippines

0

2

0

1

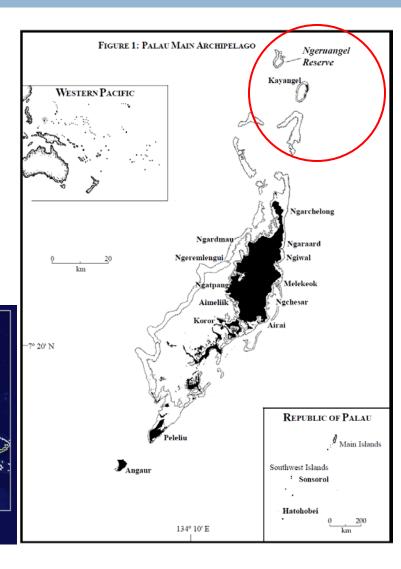
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Indonesia

The Republic of Palau



Island Ecosystem Restoration

Eradication of Invasive Rodents and Feral Cats

Project Goals

- Protect habitats for the Micronesian megapode
- Remove threats for the Micronesian megapode
- Return Kayangel's ecosystems to original state (using birds as indicators)
- Remove risks to people's health
- Improve food and economic security





Some clear and immediate reasons

Save Bekai megapode (IUCN=EN)

- Only endangered bird in Palau
- Biggest population on a single island, Ngeriungs
- Used to be in CNMI, Guam, and Palau
- Now just on few islands north of Saipan and in Palau

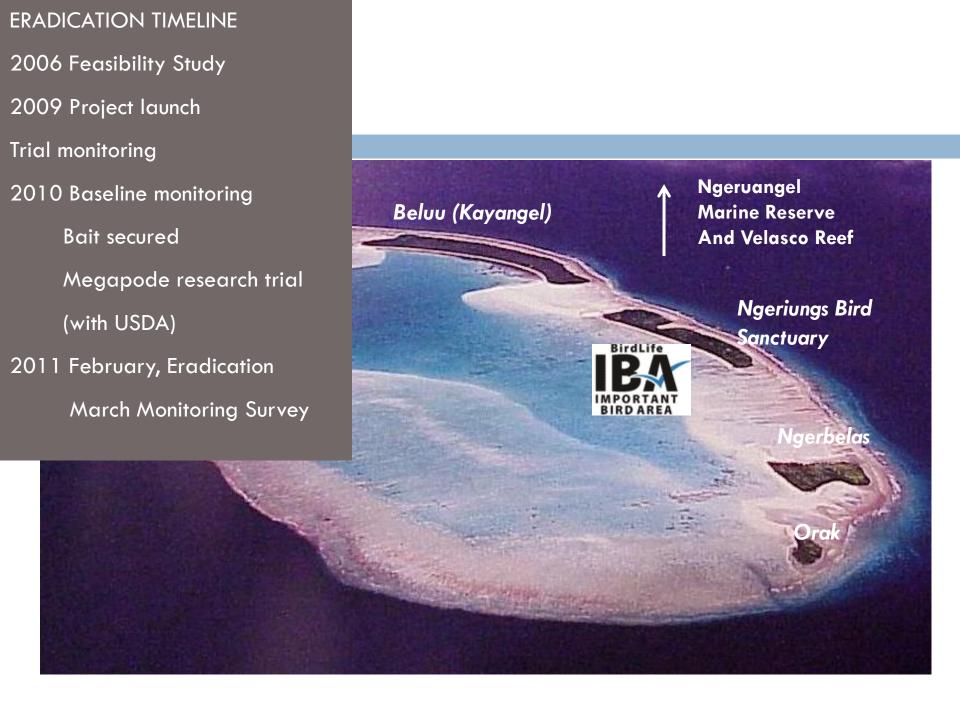
Restore quality of life

- Reliance on catchment water
 - Leptospirosis
 - Scrub typhus
- Reliance on agriculture
 - Damage to crops from rats
 - Damage to fruit trees

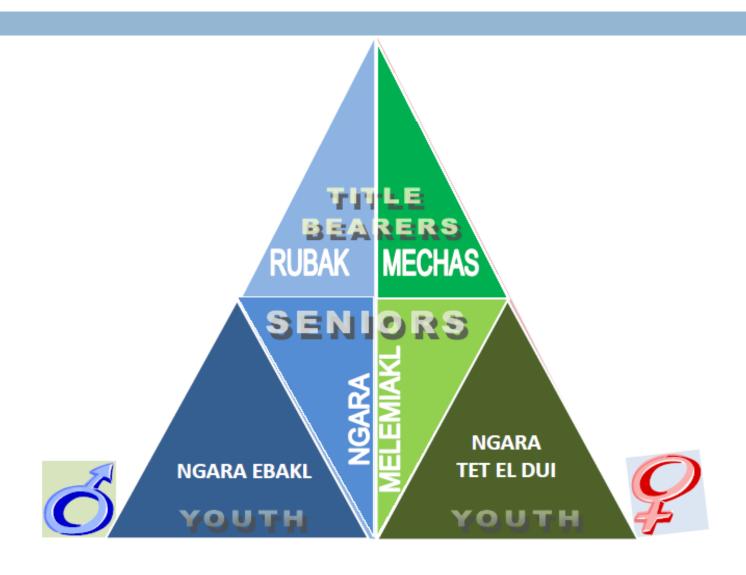
National importance

- Kayangel's Atoll habitat is very rare in Palau –
 only 1% of Palau
- Home to big population of Micronesian Megapode
- Ngeriungs a globally IBA
- Cultural and spiritual significance of Chermall and Ngerusebek Sacred Sites
- Cultural and biological significance of Ngeruangel
 Marine Reserve
- Critical marine ecosystem(Northern Reef Fisheries Region)





A SOLID COMMUNITY FOUNDATION IS NECESSARY FOR SUCCESS



Community Survey

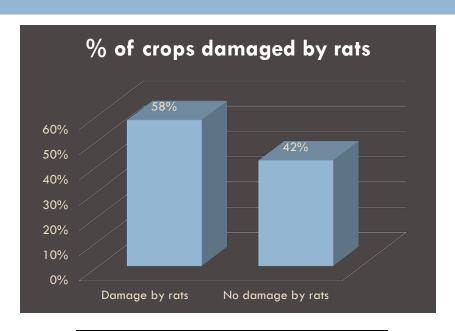
- 33 People
- Questions about effects of rats on disease, crops, awareness of invasive species, status of forest, birds, crabs, protected areas

April -implementation of community safety education and awareness

July – community trained on hand broadcast

August -trapping feral cats and voluntary biosecurity measures

September- eradication concluded





the nature of the eradication work with high engagement from residents led to even stronger outcomes and valuable lessons

Opportunity served as awareness increased

- Livelihood: Virgin Coconut Oil Enterprise
- Protected Area Management Plan







Big Meaningful Lasting Outcomes













Biodiversity, Livelihood, Economic, Social and Cultural, Capacity, and Sustainable Funding for Conservation

biodiversity

Outcomes thus far,

- 3 out of 4 islands are rat free, most importantly Ngeriungs
 Bird Sanctuary
- Megapodes and other birds are safer
- post-project biological surveys suggested a 68% increase in megapodes on the main island
- Formal designation, Kayangel Conservation Act of 2012

Membership in the Palau Protected Areas Network

Results from Pre-Post Eradication SE Survey					
Increased	% responding				
% support	yes to the				
for	question: Should				
protected	other areas in				
area status	Kayangel be			Post	
	protected	Pre	76%	87%	
	N		34	23	



LIVELIHOOD

Outcomes thus far,

- Secured local agricultural crop stock
- Increased crop yield
- Reduced risk of water-borne diseases
- Protection of sacred natural sites
- New income opportunities:virgin oil coconut mill
- New employment:Kayangel Protected Areas NetworkAuthority



ECONOMIC

- Increased tourism
- Increased local product supply (handicraft)
- Population increase



SOCIAL and CULTURAL

- Community member donates land for coconut mill project
- Chermall and Ngerusebek, both natural sacred sites
 are nominated to the PAN as Atoll Forest Preserves
- Land owners in Ngeriungs Bird Sanctuary consent to giving up their land to formal designation of PA status to the PAN

CAPACITY

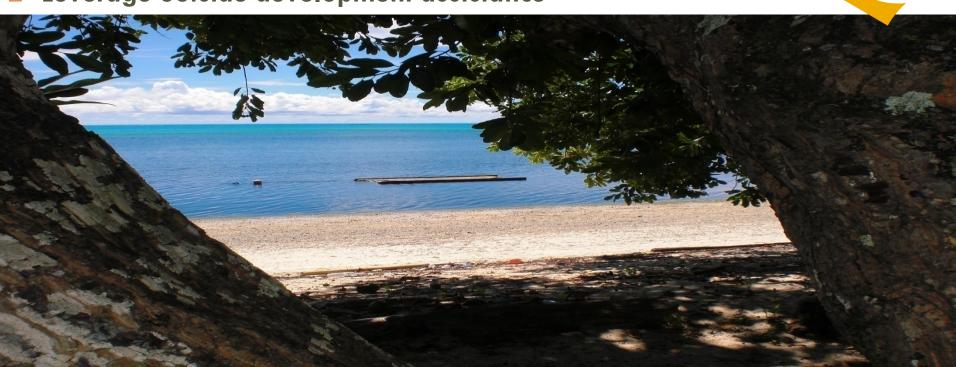
homegrown skills and talent developed

Outcomes thus far,

- Kayangel community members were trained in and actually implemented monitoring, the eradication operation, and biosecurity. Many more people than were targeted (60 versus 12) built capacity in island restoration as part of this project.
- 32 CBO members, complete Business Planning and Financial
 Projections Workshop and draft business plan for the KC Coconutmill
- DNRCS staff, acquire skills and ability to meet PAN reporting requirements

Sustainable funding for conservation

- Sustainable financing from the PAN Fund
- Builds upon existing revenues from fees and licenses
- Builds upon existing national budget allocations
- Creates new revenue stream
- Leverage outside development assistance



2013- major setback



Community remain and rebuild



Commitment to full recovery









Moving forward

- Strengthening biosecurity
- Continue biological and social monitoring
- Livelihood opportunities:
 - Restore coconut mill operations
 - Alternatives in fisheries



Financial and technical support



Regional:

PII CI PILN NZDOC USFWS Local:

Kayangel Leaders and Community EQPB

Division of Environmental Health (DEH)

Bureau of Agriculture

National Invasive Species Committee

Quarantine Office

Sonsorol State Government

Ngardmau State Government Koror State Government











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