

THE ECONOMICS OF ECOSYSTEMS AND BIODIVERSITY FOR PROTECTED AREAS IN PENINSULAR MALAYSIA (TEEB PA)

TEEB AGRIFOOD MALAYSIA INCEPTION WORKSHOP 2 December 2020

OUTLINE 41



Making Protected Area's Values Visible

The Team, Approach, Methods and Data

Scoping and Consultation

Surveys

Early Analysis and Results

KALING BELIKAN KALING SANDIN KALING KALING

Making Protected Area's Values Visible



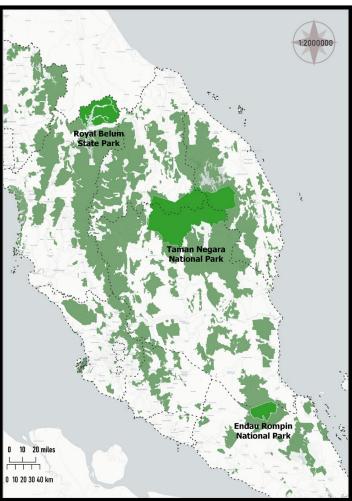
PA Financing Project

A performance-based financing structure to support effective protected area management system in Malaysia

 Increased public finance for protected areas – Economic Case?

Site-level valuation assessment: Taman Negara National Park Royal Belum State Park Endau-Rompin National Park Cost-Benefit Analysis of investments in PA management to build strong economic case for sustainable financing Measure total economic value of terrestrial protected areas in Peninsular Malaysia

TEEB PA for Peninsular Malaysia

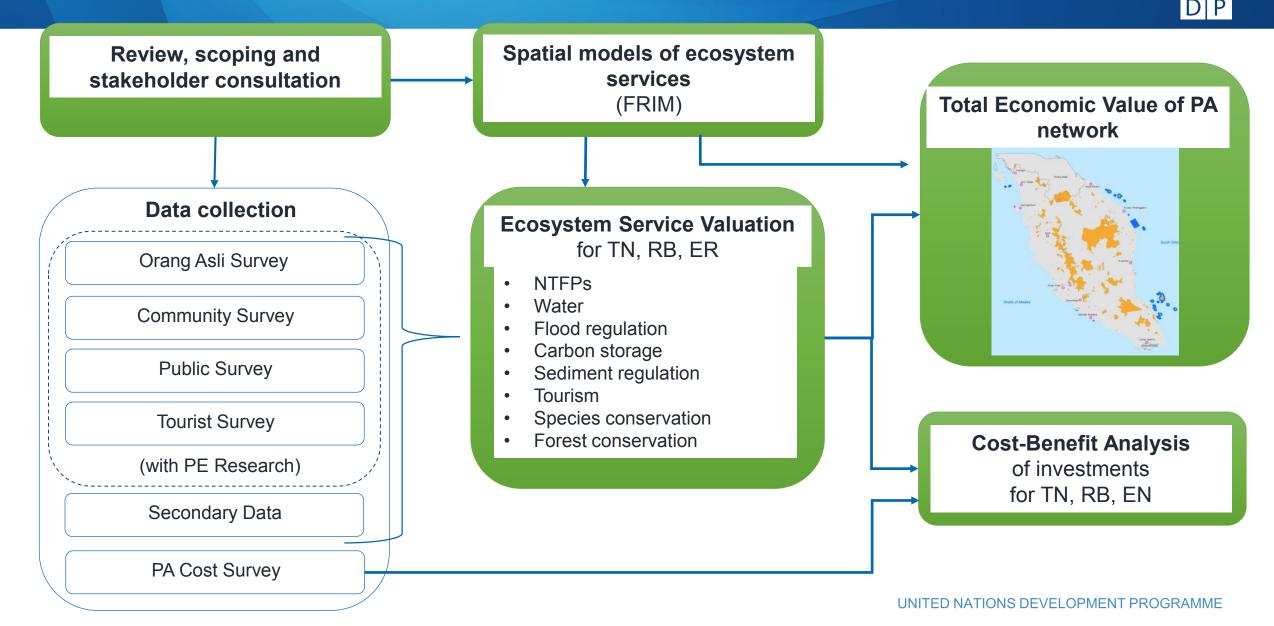






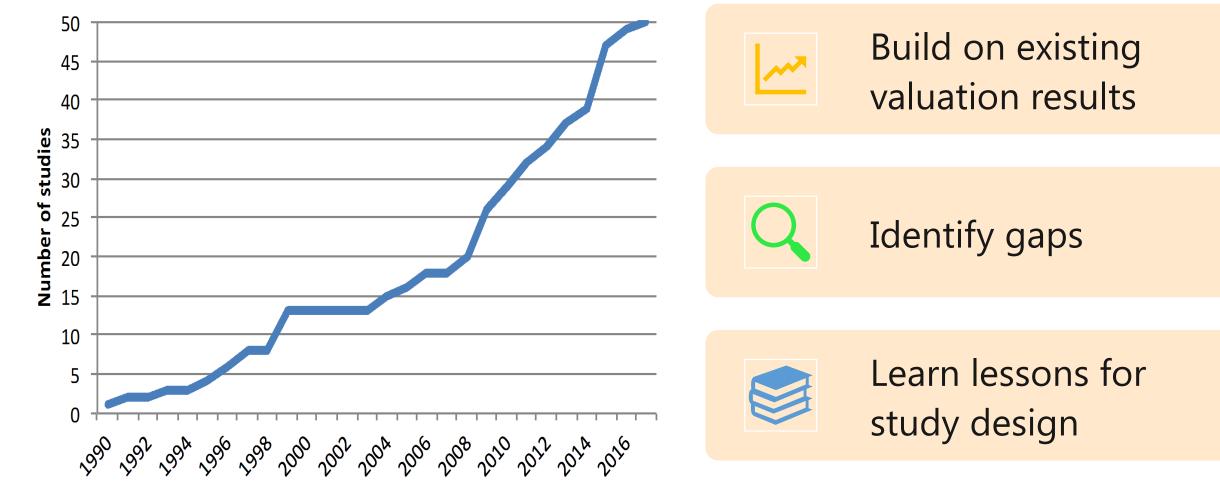
- Mr. Mohd Taufik, National Project Director and Director of Wildlife Conservation Division, Department of Wildlife and National Parks Peninsular Malaysia
- Gan Pek Chuan, Programme Manager, Biodiversity and Sustainable Development, UNDP
- Dr. Luke Brander, Lead Environmental Economist, University of Hong Kong
- Ms. Bee Hong Yeo, Environmental Economist, Expanse Consulting
- PE Research Sdn Bhd survey

Approach, Methods and Data



U N

Review of Existing Valuation Studies



Scoping and Consultation

- Identify key ecosystem services from each PA and their beneficiaries
- Identify existing data and reports
- Inputs for developing future
 scenarios for PA management
 - Key informant consultations as inputs to the study design (tour operators, park managers, communities, village leaders, tourism players, NGOs)



UNITE

ROYAL BELUM . THE FTF

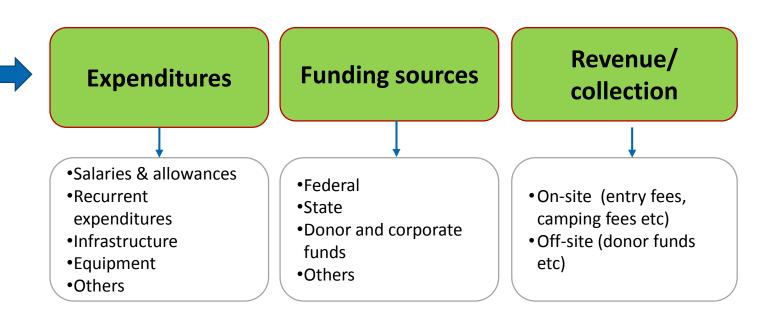
DO Y BELU THE

Surveys: PA Cost Survey



Terrestrial parks

(DWNP:32, JNPC:4, JPSM:177, PSPC:4, other: 1)





Efforts to improve Sustainable Finance initiatives

- Survey of PA managers
- To estimate the cost/ha of protected areas management
- Sustainable finance profiling for future planning

Field Surveys

- Face to face surveys launched in February 2020
- MCO in March 2020, moved Public and Tourist surveys to online (May to August)
- Resumed face to face surveys in July and August
- Surveys were completed in September 2020

Public Survey on Protected Areas

Please help the Government to understand how Malaysians value protected areas!

Take the survey at: bit.ly/SurveyProtectedAreas



ENQUIRIES

PHONE: +603-78042664 (9AM-5PM) MR KHAIRUL/MS AISYAH/MR LEE WHATSAPP: +6018-2667145 FACEBOOK: FACEBOOK.COM/TEEBSURVEY



NATIONAL PARKS

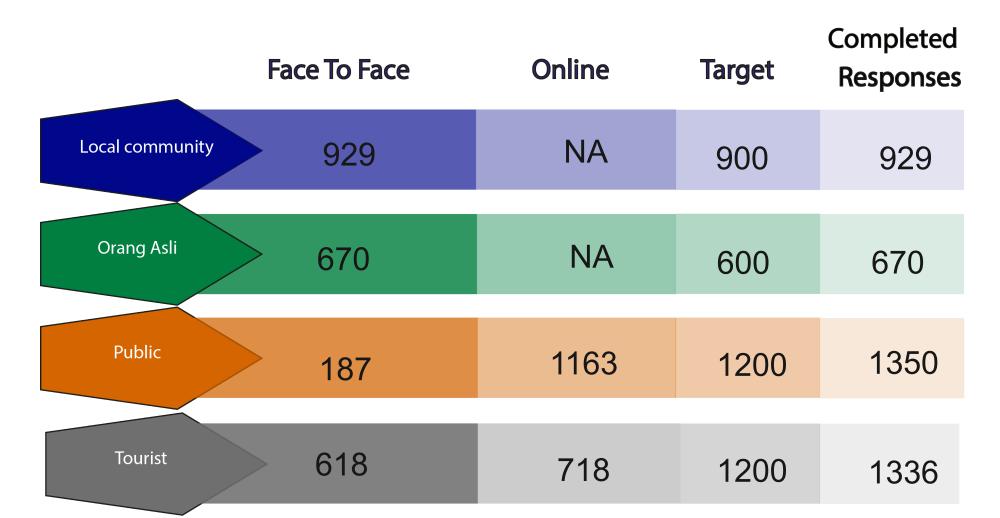
How much are protected areas worth? Let the government know by taking the survey here:



https://bit.ly/TouristSurveyMPA

Beneficiary surveys





UNITED NATIONS DEVELOPMENT PROGRAMME

Stated Preference Valuation

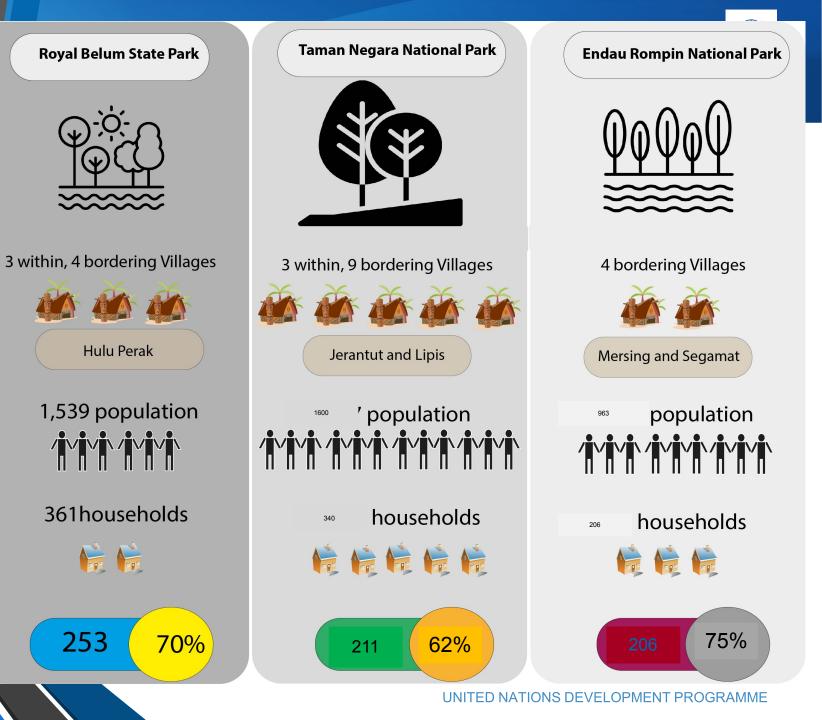
- Choice experiment method
- Estimate willingness to pay to avoid:
 - Deforestation
 - Species extinctions
 - Flooding
- Local community and general public pay through electricity bill
- Tourists pay through entrance fee

	Ontion A		Ontion P		No additional	
·	Option A	Option B		protection		
Natural forest cut during next 10 years (hectares)						
	20,000 ha cut		No natural forest cut		20,000 ha cut	
Animals locally extinct during next 10 years	10% locally extinct		No extinctions		40% locally extinct	
Flooding frequency (floods per year)	1 flood per year		No floods		4 floods per year	
Increase in monthly electricity bill (RM/month)	RM5 increase		RM10 increase		No increase	
	•				•	

	Deforestation prevention (RM/1,000 ha)	Extinction prevention (RM/percentage point)	Flood prevention (RM/flood)	
Local residents (household/month)	1.77	1.21	6.63	
General public (household/month)	1.77	1.21	6.64	
Tourists (person/visit)	10.17	7.1	20.63)GRA

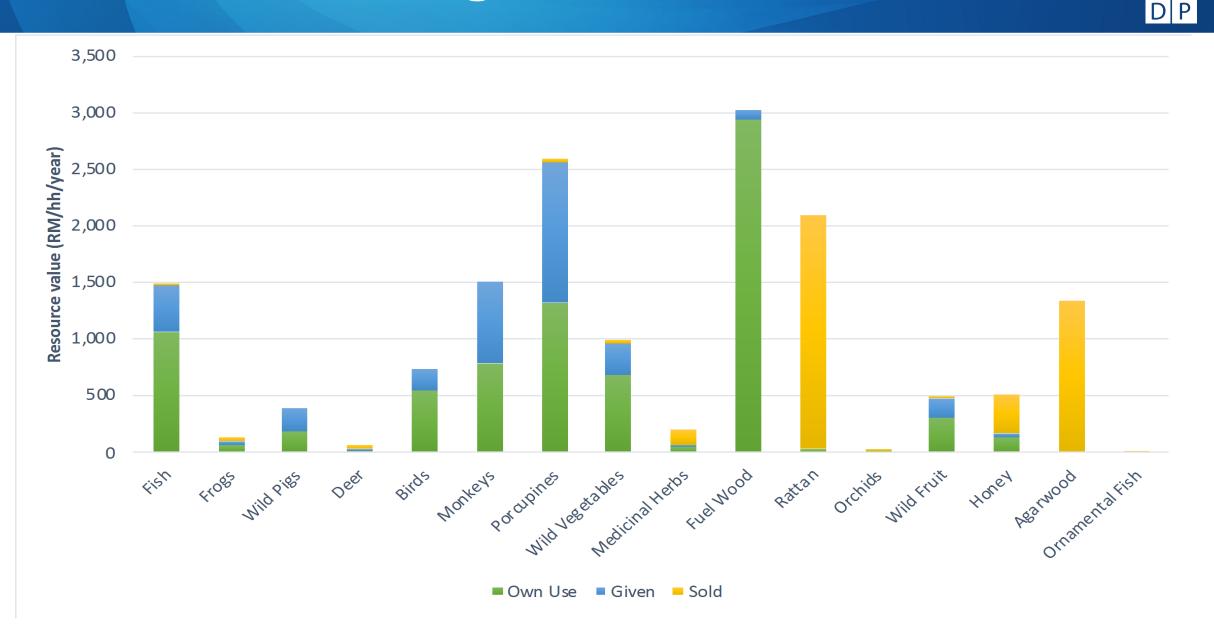


Surveys – Orang Asli



Taman Negara NTFP Values

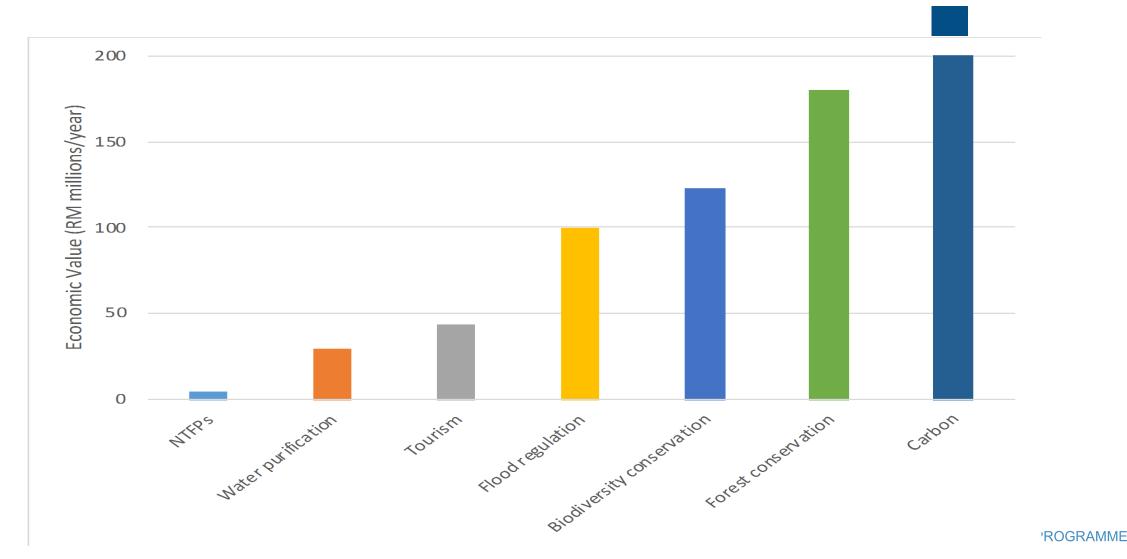
Ν



Early Analysis: Taman Negara Total Economic Value



623 million



Conclusion

- Cost survey: local community employment
- Orang Asli communities:
 - High value of subsistence use
 - High interest in tourism
- Financing opportunities for protected areas:
 - Tourist entrance fees
 - Electricity bill conservation fee
 - Carbon + Biodiversity credits?
- Economic case for Ecological Fiscal Transfer



GAN Pek Chuan UNDP for Malaysia, Singapore and Brunei Darussalam pek.chuan.gan@undp.org