

*How to improve the local communities and  
sustainable tourism development:  
A case study for Nha Trang Bay Marine Protected Area*

*Kim Hang Pham Do\**, *Thanh Thuy Pham Thi*<sup>+</sup>

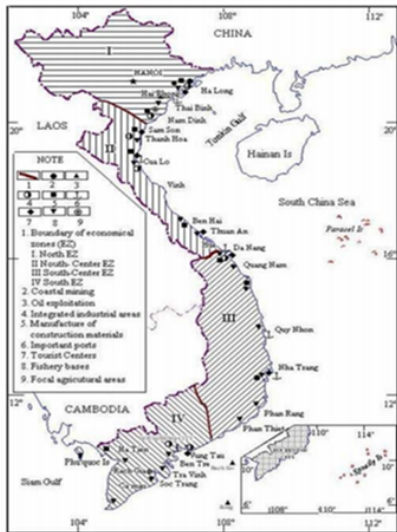
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**Outline**

An overview  
The paper  
A framework  
Main results  
Discussions &  
remarks

# OUTLINE



- An overview
- Methods
- Results
- Concluding remarks

How to improve the local communities and sustainable tourism development:

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Tourism in MPA

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# TOURISM AS A NATIONAL DEVELOPMENT STRATEGY

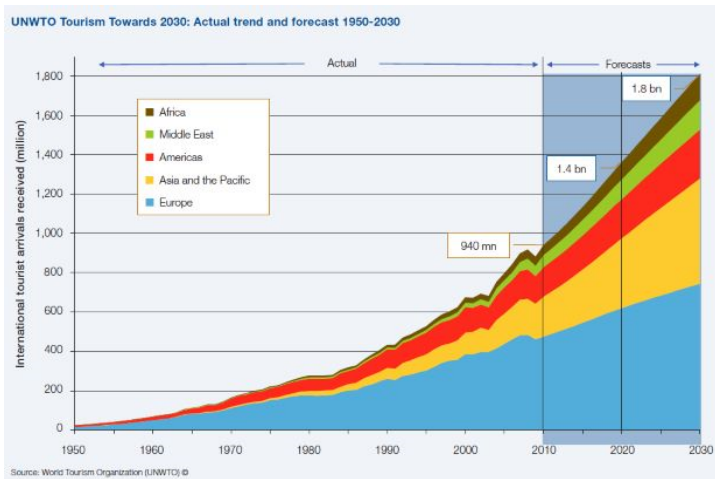


WHY TOURISM MATTERS

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# UNWTO TOURISM FORECAST

*Tourism as an "alternative development" for SGs*



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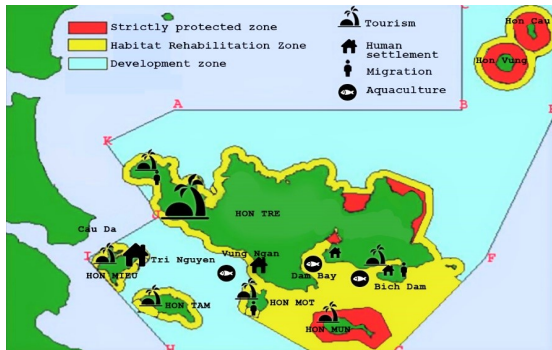
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# NHA TRANG BAY & MPA

MPA established in 2002, 14 islands, 3 zones  
250 km<sup>2</sup> : 38 km<sup>2</sup> land, 212 km<sup>2</sup> waters



- Population declines (5647 to 4793). Tourists increase (200%). Residents depend on fisheries (30%)

## NTB-MPA

Community	Household	Population	Area (ha)	Fishing vessels	Aquaculture farm
Tri Nguyen	772	3307	38	334	42
Vung Ngan	160	600	10	89	87
Bich Dam	209	836	12	92	25
Dam Bay	18	50	5	12	16
Total	1,159	4,793	65	527	170

*Table 1. Characteristics of four communities in NTB MPA*

- Negative impacts one environment & communities:
  - ⇒ Land grabbing, increased pollution, incentive to preserve natural features,
  - ⇒ Existing issues/equity: sustainable population level/use of fishery resources?

# THE PAPER

- *Objective*
- to identify factors affect on local residents' wellbeing

## FACT

*Does tourism be an alternative livelihood for the local communities in NTB-MAPs?*

- *Approach*

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- *Approach*
  - strategic analysis: residents vs authorities; employees vs employers
  - estimates by linear probability models

# THE MODEL

- 2 players: residents (employee, employer) vs authorities (government, investor)
- 2 strategies: involving (support) or not involving (support)
- $T_i (Y_i, L_i, S_i, u_i)$  : individual decision

$$T_i = \alpha Y_i + \beta L_i + \gamma S_i + u_i = \begin{cases} 1 & \text{if } i \text{ supports} \\ 0 & \text{if } i \text{ not support} \end{cases}$$

- payoff: total individual income
- factors: location, education, job...

## DATA COLLECTION (2014)

140 households (12%), 4 communities in NTB-MPA

Place	Involve in tourism		Not involve in tourism	
	Respondents	Rate (%)	Respondents	Rate (%)
Vung Ngan	5	13.88	21	20.19
Tri Nguyen	11	30.56	36	34.62
Bich Dam	0	0.00	22	21.15
Main land*	20	55.56	25	24.04
Total	36	100.00	104	100.00

## FACTORS AFFECT ON DECISION

	MODEL 1	MODEL 2	MODEL 3
Variable	Coefficient	Coefficient	Coefficient
C	-0.978 (-.064)	-0.854 (0.013)	-0.076 (0.974)
Age	0.023 (0.017)	-0.0314 (0.017)	-0.036 (0.016)
Edu	1.295 (0.446)	1.526 (0.429)	1.404 (0.417)
Gender	0.713 (0.506)		
Negative effect	-0.075 (0.045)	-0.060 (0.041)	-0.084 (0.0388)
Positive effect	0.303 (0.126)	0.268 (0.121)	0.228 (0.116)
Location	-0.315 (0.194)	-0.512 (0.180)	-0.429 (0.162)
Total income	0.005 (0.002)	0.003 (0.001)	
Employer	-0.992 (0.397)		
Log likelihood	-45.22	-50.14	-54.63
Correct (Dep=0)	97.12	94.23	96.15
% Correct (Dep =1)	66.67	61.11	52.78
% Correct (total)	89.29	85.71	85.00

## EDUCATION /JOB MATTERS

		High education	Low education
Participate	Employer	119.00 (125.87)	213.92 (183.48)
	Employee	108.20 (48.79)	85.13 (49.87)
Not participate	Employer	-	107.08 (72.42)
	Employee	92.50 (38.89)	63.27 (19.57)

		Mean
Employer	Without tourism participation	116.36 (82.45)
	With tourism participation	200.56 (197.23)
	Tourism only	90.57 (101.87)
Employee	Without tourism participation	69.03 (27.80)
	With tourism participation	138.60 (30.33)
	Tourism only	87.50 (54.69)

# PARTICIPATE OR NOT PARTICIPATE

<b>Employee</b>	<b>Employer</b>	
	Involve in tourism	Not involve in tourism
Participate	124.8, 162.00	122.67, 447.28 <sup>*N</sup>
Not participate	25.23, 35.83	67.97, 110.46

- Support: government or investor, not both.
- NE (122.67, 447.28) is optimal  $\Rightarrow$  unstable tourism development
- Employer: better is not to involve
- Employee: better is to involve

# STABLE OR UNSTABLE DEVELOPMENT

- **support issues:**
  - job opportunities: handcrafts or touring bamboo basket boats, low income of US\$67
  
- **lack of commitment and transparent policy**



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- **lack of commitment and transparent policy**
- support does not secure a better income
- **tourism has yet improved the local people wellbeing in MPA**

## CONCLUDING REMARKS

- investigate the impacts of tourism development in NTB-MPA
- provide an evidence that **tourism** participation **could not guarantee an alternative livelihood** for the local communities
- but rather **bring a supplementary benefit**
- tourism plays a vital role in drawing attention to NTB but **need to consider the consequences of tourism development**
- education play an important role for improving local communities
- transparent policy:planning, monitoring & enforcing with diversification

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# THANK YOU FOR YOUR ATTENTION