

# A Study on Determinant of Competitiveness Post-mining City as A Tourist Destination

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#### Background

Determining urban regeneration policies for former mining cities has become a crucial issue since most of these cities lack economic alternatives for new development. One of the most common preferences in the post-mining era is the repurposing of mining-related materials for touristic attractions. The success factor of mining heritage tourism could be assessed by formulating the destination competitiveness model.

### **Research Objectives**

- 1. To assess the attractiveness and competitiveness of post-mining cities in tourism
- 2. To define sustainable transformation for the small-sized post-mining cities
- 3. To develop competitiveness model of mining heritage tourism in post-mining cities

Loyalty, Place Attachment, and Participation (Adapted from Florek, 2011)



- Psychological attachment is defined as the place attachment, place identity, and sense of place of a post-mining community towards the city
- Behavioral consistency was measured by their willingness to participate in the development of mining heritage tourism







#### Study Area

Description	Indonesia			
Description	Sawahlunto	Belitung		
Mineral production	Coal	Tin		
Production period	1882 - 2000	1860 - Now		
After mining	Tourism	Tourism		
Land area (Km <sup>2</sup> )	273.45	2,293.69		
Population (2019)	62,524	173,717		
GRDP 2019 (million USD)	247.21	461.61		
UNESCO WHS	Yes	No		

Common Characteristic:

- Small-sized post-mining cities
  - Located in remote/ rural area
- Less populated
- Cities' infrastructures initially were built by mining companies to support mining activities

## **Research Activities**

- I. Defining Sustainable Transformation in Post-mining Cities
  - a. Background

Outmigration is one of the salient social problems when mining leaves a community. Miners and their descendants leave for a better living in new prosperous cities. This study recognizes the loyalty of the community members and identifies the effect of place attachment on the development of a post-mining city, specifically in the case of mining heritage tourism.

#### b. Methodology

Questionnaire surveys were conducted to 200 of post-mining community members in the old town Sawahlunto.



Parameter Estimates

				95% Wald Confidence Interval		Hypothesis Test				95% Wald Confidence Interval for Exp(B)	
Parameter		в	Std. Error	Lower	Upper	Wald Chi- Square	df	Sig.	Exp(B)	Lower	Upper
Threshold	[Y=1]	-4.445	1.1599	-6.719	-2.172	14.690	1	.000	.012	.001	.114
	[Y=2]	-2.267	.9496	-4.128	406	5.698	1	.017	.104	.016	.667
	[Y=3]	354	.9180	-2.153	1.445	.149	1	.700	.702	.116	4.243
X1		025	.0281	080	.030	.781	1	.377	.975	.923	1.031
X2		.472	.8648	-1.223	2.167	.298	1	.585	1.603	.294	8.732
ХЗ		.031	.0290	026	.087	1.123	1	.289	1.031	.974	1.091
X4		-1.382	.4607	-2.285	479	8.997	1	.003	.251	.102	.619
X5		070	.5093	-1.068	.928	.019	1	.891	.933	.344	2.531
(Scale)		1 <sup>a</sup>									

Dependent Variable: Loyalty Model: (Threshold), X1, X2, X3, X4, X5

a. Fixed at the displayed value.

Dependent Variable: Loyalty

Model: (Threshold), X1, X2, X3, X4, X5

- Age was not a significant predictor in the model (p value= 0.377)
- Place of birth was not a significant predictor of loyalty level (p value= 0.585)
- Length of residence was not a significant predictor (p value= 0.289)
- Residence status was the only significant predictor (p value= 0.003)
- Mining experience was not a significant predictor (p value= 0.891)

Variable	Description
Dependent	Four categorical variable
Loyalty (Y)	<ul> <li>1 = Low loyalty, if respondents select following statements: <ul> <li>I don't care about city's performance or future, so I will not participate in any mining heritage tourism activities or business;</li> <li>I am planning to move to another city for better living.</li> </ul> </li> <li>2 = Spurious loyalty, if respondents select following statements: <ul> <li>I continue to live in this city because it offers revenue from mining heritage tourism and other related business;</li> <li>I will move to another city if it offers more income and better living.</li> </ul> </li> <li>3 = Latent loyalty, if respondents select following statements: <ul> <li>I am proud of this city, it has been a part of my identity and I will recommend this city to others for tourism;</li> <li>If someday I move out from this city, I will still have strong bond with this city and miss it.</li> </ul> </li> <li>4 = High loyalty, if respondents select following statements: <ul> <li>I am rooted here and would not like to move out from here</li> <li>I want to be involved in the preservation of the mining identity and the development of mining heritage tourism</li> </ul> </li> </ul>
Independent	
Age (X <sub>1</sub> )	Continuous numerical variable
Place of birth (X <sub>2</sub> )	Dichotomous variable; 1 = Respondent was born in Sawahlunto old coal mining town 0 = Respondent was born somewhere else
Length of residence X <sub>3</sub> ) Residence status (X <sub>4</sub> )	Continuous numerical variable Dichotomous variable; 1 = Native community, if respondents or their descendants are native 0 = Migrant community, if respondents or their descendants are

II. Developing Competitiveness Model of Mining Heritage Tourism in Post-mining Cities

Variable	Description
Dependent	
Competitiveness (Y)	Scale
•	1 = Very not competitive
	2 = Not competitive
	3 = Average
	4 = Competitive
	5 = Very competitive
Independent	
a) Sustainability	
Community Resilience (X1)	Local community recovers from inherited social problem and economic shock
Resources management (X <sub>2</sub> )	Mining heritage properties are well preserved and post mining landscape are remediated
Innovation and job creation (X <sub>3</sub> )	Local authority established an innovative diversification activity for creating jobs
b) Destination Policy, Planning 8	
Development	
Vision (X <sub>4</sub> )	The city has a clear vision in tourism; know what to
	achieve in short/medium/long term future
Development (X5)	The governing body of tourism execute vision into strategic development program in tourism
Monitoring (X <sub>6</sub> )	The governing body of tourism regularly evaluate the performance and achievement
c) Destination Management	
Organization (X7)	The city established organization body for conducting daily internal and external managerial task
Marketing (X <sub>8</sub> )	Destination Management Organization (DMO) applies creative city branding and smart marketing strategy

Logit (y) =  $\alpha + \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + \beta_4 X_4 + \beta_5 X_5 + \beta_6 X_6 + \beta_7 X_7 + \beta_8 X_8$ 

