



Sustainable
Island
Development
Initiatives

STUDENTS' RESEARCH & DEVELOPMENT TEAM FOR SMALL ISLANDS

SIDI WEEK 2/2014

Maratua Vision

- ▶ **Future marine tourism:**
 - ▶ How should marine tourism in Maratua look like?
- ▶ **Likely desirable shape of tourism:**
 - ▶ Not-mass tourism
 - ▶ Nature-based, not culture
- ▶ **People:**
 - ▶ What role could they play?

Challenges

- ▶ Today's challenges:

Energy, water, education, transport, healthcare

- ▶ Future challenges:

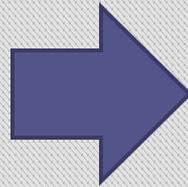
derived from projected future marine tourism

Addressing today's challenges must be in line with the vision for the island

Challenges

TODAY

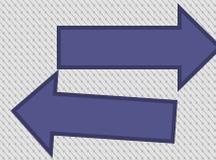
- ▶ Water
- ▶ Energy
- ▶ Housing
- ▶ Hotel
- ▶ Transport service
 - ▶ Vehicles
 - ▶ Seaports
- ▶ People
 - ▶ Education
 - ▶ Health
 - ▶ Economy



FUTURE

- ▶ Water
- ▶ Energy
- ▶ Housing
- ▶ Hotel
- ▶ Transport service
 - ▶ Vehicles
 - ▶ Seaports
 - ▶ Airports
- ▶ People
 - ▶ Education
 - ▶ Health
 - ▶ Economy

Vision for Maratua

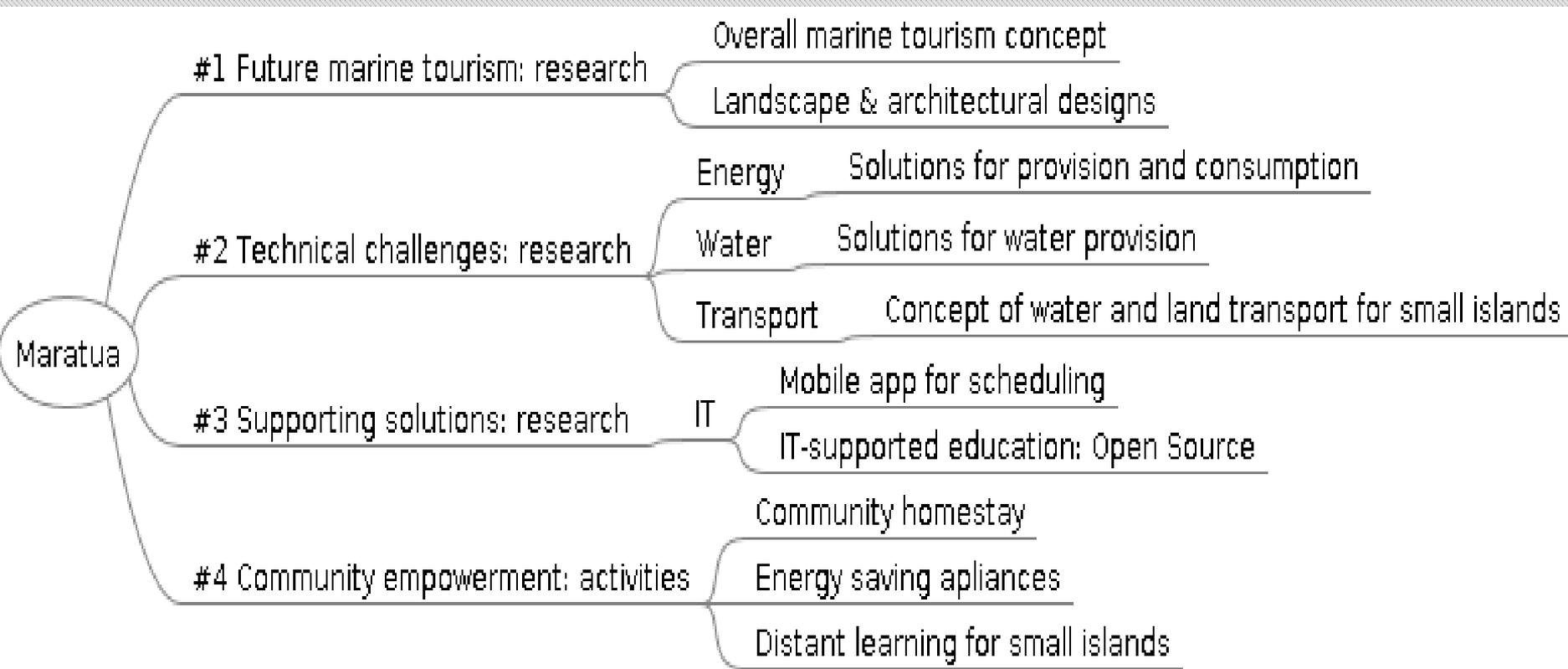


Masterplan



Actions to address challenges

Overall Scheme



Branch #1 (1)

- ▶ **Research:** “How marine tourism should look like in the future?”
- ▶ Available doc: Masterplan of Maratua
- ▶ Objectives:
 - ▶ To develop (system dynamics) scenarios for tourism development of Maratua, considering population, nature, economy : Dept. Industrial Engineering, Biology
 - ▶ To develop commercial ideas of future tourism: School of Business Management, Marine Transport
 - ▶ To develop architectural/ landscape concepts of future marine tourism: Dept. of Architecture, Industrial Design, Urban Planning

Branch #1 (2)

▶ **Output:**

1. Overall concept of marine tourism. Keywords: role of community, high-end marine tourism, urbanization, networks
2. Architectural & landscape design of future marine tourism. Keywords: designs of infrastructure, designs of resorts and homestays

▶ **Partners:**

- ▶ Berau Regency
- ▶ KKP
- ▶ Kakanoo Enterprise
- ▶ Existing resorts: Nabucco, Paradise (to be approached)
- ▶ Local industry: Berau Coal

Branch #2 (1)

- ▶ **Research:** “How to address specific today’s technical core challenges?”
- ▶ Objectives:
 - ▶ Energy: Energy
 - ▶ Water: Solutions for water provision
 - ▶ Transport: Concepts of water and land transport for small islands

Branch #2 (2)

▶ **Output:**

- ▶ Energy: Solutions for energy provision and consumption
- ▶ Water: Solutions for water provision
- ▶ Transport: Concepts of water and land transport for small islands

Branch #3 (1)

- ▶ **Research:** “Supporting solutions?”
- ▶ Objectives: to explore usage of (including non-conventional) tools to support addressing main problems of Maratua
- ▶ Information Technology
 - IT can be viewed as soft infrastructure to improve ‘hard’ sectors
 - ▶ How can IT help improve quality of education?
 - ▶ How can IT improve quality transport, health, shopping, gov’t services

Branch #3 (2)

- ▶ **Output:**

- ▶ Distant learning for small islands' schools
- ▶ Mobile app for scheduling to support transport, hotels, healthcare and gov't services

- ▶ **Partners:**

- ▶ Berau Regency
- ▶ Berau Coal

Branch #4(1)

- ▶ **Activity**, NOT research: "How to empower community?"

Of utmost importance to embrace and empower people

- ▶ Tourism: "How do we develop a community-based homestay?"
- ▶ Education: "How do we develop a distant learning course?"
- ▶ Energy: "How to better use electricity by usage of energy-saving appliances?"
- ▶ Partners: KKP, Regency of Berau

Branch #4 (2)

▶ **Output**

- ▶ Activities to establish a prototype of a community-based homestay
- ▶ Activities to implement a distant learning course for small islands
- ▶ Activities to better use electricity by usage of energy-saving appliances

▶ **Partners**

- ▶ KP
- ▶ Berau Regency
- ▶ PT SEES
- ▶ Berau Coal

Next step

- ▶ Visit KKP (done 6/1/2014)
- ▶ Visit Berau Regency (planned 12/2/2014)

- ▶ Inform students and departments on the upcoming research projects on Maratua
- ▶ Invite to submit proposal and cv
- ▶ Inform to and obtain commitments from partners to be involved in the project

Plan (1)

- ▶ **Meeting in Surabaya : 4/3/2014**

09:00 – 17:00

- ▶ Internal meeting Hochschule Wismar-ITS & partners
- ▶ Meeting with students
- ▶ Selection of students' research proposal or team selection

19:00-21:00

- ▶ Meeting with Ekonid & business communities

Plan (2)

- ▶ Meeting in Berau: 5/3/2014
 - ▶ With Regent of Berau, KKP & partners
 - ▶ Objectives:
 - ▶ to raise awareness and
 - ▶ to establish serious commitments
 - ▶ To be funded by KKP (commitment from meeting 6/1/2014 with P. Andi Rusandi, KKP in Jakarta)

Plan (3)

- ▶ **Meeting in Maratua: 6-7/3/2014**
 - ▶ Site visit
 - ▶ Meeting with local authorities, people & biz

Plan (4)

- ▶ Meeting in Surabaya : 8/3/2014
- ▶ Meeting with students
- ▶ Closing

Students' R&D Team

- ▶ Funded by DAAD toWismar University- ITS cooperation



Partners

- ▶ DAAD
- ▶ Berau Regency
- ▶ Ministry of Fishery and Ocean Affairs
- ▶ Kakanoo Enterprise
- ▶ SEES, Jakarta
- ▶ Berau Coal
- ▶ Paradise Resorts
- ▶ Nabucco Resorts

Students R&D Team

- ▶ Proposals to be submitted by 30 March 2014
- ▶ Docs:
 - ▶ Motivation letter 1 page
 - ▶ Brief proposal 5 pages
 - ▶ CV 1 page
- ▶ Schedule:
 - ▶ End of April 2014 : Formation of teams
 - ▶ June/ July 2014 : training, departure to island
 - ▶ October 2014 : presentation of results

SIDI Contact

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Encouraging suggestions and ideas
are most welcome!

Thank you