

**SPARKLING ISLAND**

# Summary

- Why this program: energy scarcity and expensiveness mark low life quality of inhabitants of island
- How to solve it?: equip them with continuous supply of lighting
- What is in it ? : \_design of lighting

# Background

- Energy scarcity & expensiveness due to transport
- Energy affects quality of life

# Objectives & Expected Benefit

## Objectives

- To provide continuous availability of lightings for households and public spaces.

## Benefit

- Improved quality of life for inhabitants of island

# Activities (1)

## **Substance of activities**

- Building of a solar power station on shore
- Power charging management
- Design of LED lightings
- Installation of energy-saving LED lightings

## **Areas of activities**

- Location : Maratua Island
- Year : 2014

# Activities (2)

## **Execution of activities**

- Students conduct research & development activities, supervised by ITS & Hochschule Wismar
- PT SES provides energy-saving LED lightings
- Team members (ITS, Wismar Univ., Kakanoo, SEES, KKP, Berau Regency) establish power charging management → cooperatives

# Funding

- The program is a community-empowerment program:
  - Parties involved:
    - Inhabitants
    - Local gov't
    - Students
  - Supervision: SIDI Network
  - Funding:
    - Ministry of Ocean Affairs & Fishery/KKP
  - Time:
    - 2014 -

# Funding (2)

- The program is also a students' research:
  - Parties involved:
    - “Energy supply-demand study” (Electrical/Industrial Eng.)
    - “Design of LED lights” (Industrial Design Dept.)
  - Supervision: SIDI Network
  - Funding:
    - SR&DT-SI Program (HSW-ITS)
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