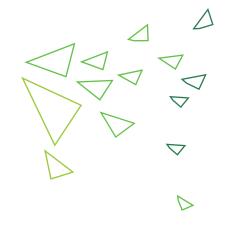




## Mission

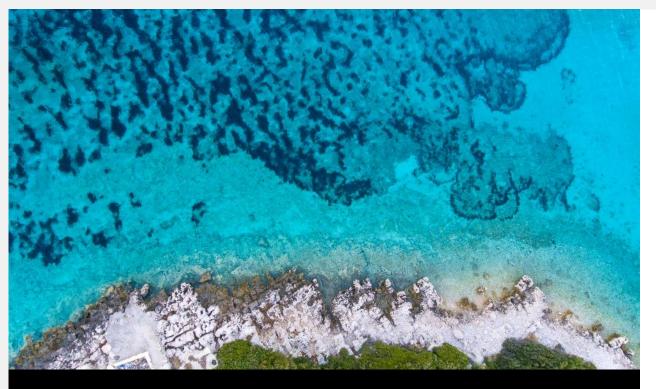
To make data and objective information accessible and useful to all people in the Lower Mekong



# Open Development Mekong

The regional platform launched in 2016 is one of it's kind aggregating data and information from the Lower Mekong Countries.





# Open Development Mekong

Key contributions

- Webpage of ODI as a data / information clearing house
- Preparation of reference material for CSOs in policy-making dialogues
- Knowledge sharing of lessons learned through technical support to CSOs in the process of data collection, collation, & interpretation



### Community innovation

### The problem

- Almost all problems are complicated, context-dependent & cross-boundary. No one individual or organization alone can solve most problems effectively.
- Solving problems without changes to underlying causes, often necessitating changes in human behavior is just a reaction to symptoms to the problem.

### The Solution

- When people change, social innovation emerges.
- Social innovation is not necessarily high cost or high technology, but often affordable involving locally responsive technology often based on local wisdom and participation.

### Community innovation

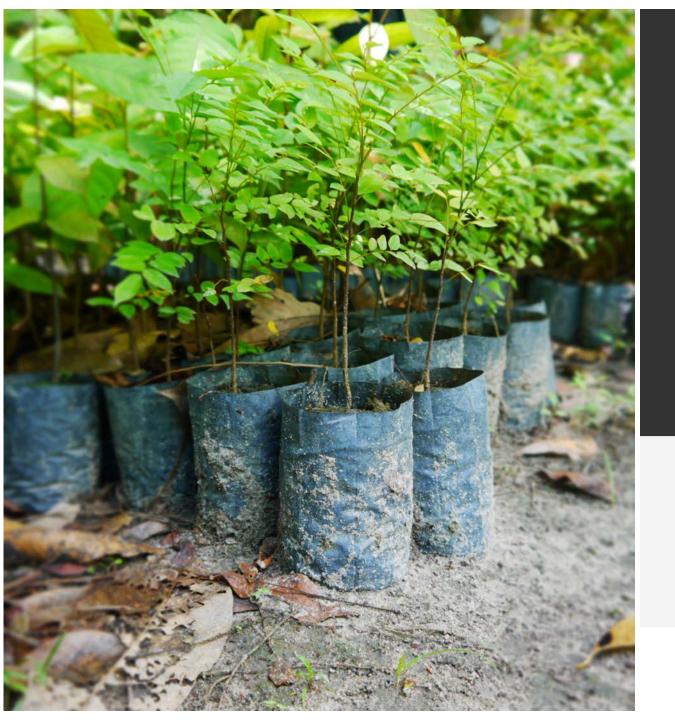
Can improve liveability and the environment in the GMS

### **Environmental quality**

is critical to attracting investment, as firms become more selective, particularly in the case of the hospitality economy (including MICE, tourists, amenity migrants).

### Properly located, planned & managed investment

such as Economic Zones deliver benefits in terms of employment (particularly for lesser educated), environmental benefits, and attract higher-value manufacturing delivering higher economic output at less environmental & energy cost.





Reforestation in Northern Thailand



# Increasing Haze

due to forest fires decreased tourism by 40%

- Most farmers in Mae Chaem grow corn once yearly - clearing corn stalks from fields after farming was common practice of farmers;
- They also earn additional income through illegal logging & collecting herbs & mushrooms for sale;
- They believe forest fires increase yields;
- Between Feb. 15 Mar. 19, 2015, in Mae Chaem district there were 319 forest fire hotspots, the highest number in Chiang Mai Province;
- Haze originating from Mae Chaem & other nearby districts, including neighboring countries, led to a 40% decrease in tourists visiting Chiang Mai Province, significantly negatively impacting the local economy;
- Haze also caused health impacts resulting from the higher average dust content in ambient air;





# Impact of Social Innovation

#### **Land Tenure**

Illegal land tenure lead to communities agreeing to sign a social contract designed to curb forest fires.

#### **Economic Development**

Communities have been enhanced by upstream CSR partnership activities based on an afforestation plan.

#### **Air Quality**

Mae Chaem District changed from being a critical haze hotspot to one of the least haze generating areas in Chiang Mai during the 60 day danger period in 2016.





# Impact of Social Innovation

#### Reforestation

Co-management system of natural resources based on economic crops such as bamboo in forest plantations.

#### **Water Management**

Water management improved based on "water ponds" and "waterbeds", based on the Late King's knowledge.

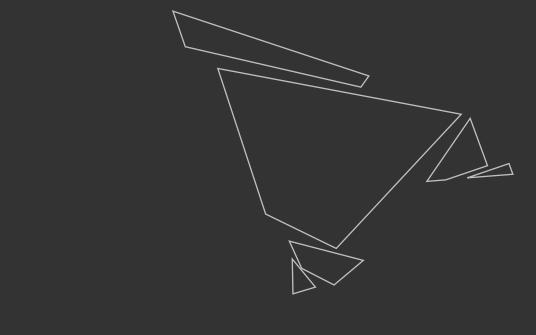
#### **Partnership**

Demonstrated the effectiveness of an integrated development system based on adoption of an areabased development approach and multi-stakeholder collaboration among local communities, government sector, NGOs such as Sustainable Development Foundation, private sector with technical support of international donors such as EU



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The KRABI Go Green Movement (opposition to coal-fired thermal plants)



The KRABI Go Green Movement

#### **Energy Growth**

Due to average Thai growth of energy consumption of 3 per cent per annum:

Revised Power
 Development Plan (PDP)
 for Thailand for 2012 2030 indicates the need
 for 4,400 megawatts to
 be produced from high grade coal power plants
 by 2030

## EGAT increases coal plants claiming

- Future supplies of natural gas from Myanmar are uncertain;
- Bottlenecks exist
   pertaining to renewable
   energy such as
   hydroelectric power
   plants & solar cells,
   including unstable
   production capacities,
   lack of commercial viable
   on an industrial scale, &
   high investment costs.

### Construction plans move forward

- EGAT plans to build the Krabi's Nua Khlong 870megawatt coal-fired power plant.
- Ban Klong Rua coal port would be established to transport imported coal from Indonesia, Australia & Africa to fuel this coalfired power plant.

Krabi at the Crossroads: Dirty Coal VS. Clean Renewable Energy



#### **RAMSAR Site**

In 2001, Krabi is recognized as a global marine biodiversity hotspot, a RAMSAR site, & wetland of international importance with over 200 species of fish and 80 species of coral catalogued.



#### **Tourist Destination**

The proposed Krabi coal plant would be built inside Thailand's largest seagrass ecosystem and near pristine beaches on the Andaman Sea, a world-famous tourist destination.

Unloading of coal from larger ships to smaller ones would take place at sea near Koh Lanta, a main tourist destination of the South.

About 2.3 million tourists annually visit Krabi province. The estimated revenue from recreation & tourism from the Ramsar Site in the Krabi River Estuary alone is \$9.7 million per annum.

The economic value of fishing benefits from the mangrove forest was \$758/ha.









# Renewable Energy

- Mr. Suphakit Nuntavorakarn,
- Healthy Public Policy Foundation

EU 11th Civil Society Organizations (CSOs) Forum on Implementation of Sustainable Development Goals (SDGs) – Communication Strategies on Sustainable Energy, June 26, 2018



### Circular Economy

Of renewable energy in Krabi Province



Pay for national grid electricity





Pay for palm oil produce

Value added of palm oil produce 1.44 Baht per kg.

Pay for

national grid electricity

### Palm oil processing factories



Biogas capacity of 90 Megawatt



**Biomass** capacity of 223 Megawatt

Value added of waste water of 1,440 Mill. Baht/year

Value added of palm oil residue of 3,575 Mill. Baht/year





### From user to producers

#### Koh Nok Pao School, Surat Thani Province

- Solar cell: 900 watt and batteries
- Donation of \$1,818 US & labor cost of volunteer solar group
- Operated & Maintained by school teachers & students



#### Thai-Indo Palm Oil, Krabi Province

- Biomass 1 mega watt and bio gas 3.2 mega watt
- Internal use in the factory + sell 1 mega watt to national
- Production capacity of 15 mega watt
- Do not produce to capacity because of regulations



### Cost recovery of renewable energy in enterprises

#### Chana Hospital, Songkha Province

- Solar cell: 20,000 watt
- Electricity cost reduction: \$364-455 USD per month
- Cost recovery period: 6 months



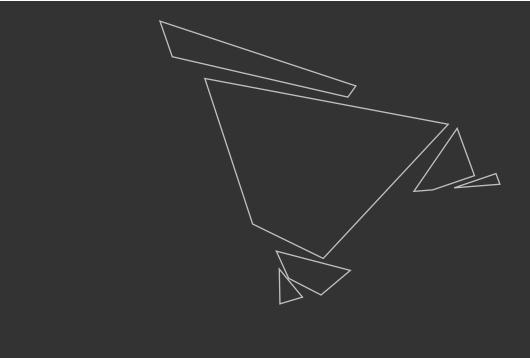
#### Supermart on Lanta Island, Krabi Province

- Solar cell: 48,000 watt
- Electricity cost reduction: From \$3,636 USD to \$2,121
- Cost recovery period : 5 6 years









Trans- Border Industrial Zones



Trans-boarder Industrial Zones

Planning and Development

Need to more thoroughly plan involving of all stakeholders based on evidence based information (e.g. Strategic Environment Impact Assessment, Regulatory Impact Assessment)

#### **Economic Business and** Management

SF7s should switch from focusing on cost advantages based on lower standards to become champions of sustainable business based on social & environmental ethics/practices following international environmental, social, trade & investment bodies such as ISO, SA 8000

#### Linkages with Local Economies Delivering Local **Benefits**

- Support SMEs through supply chains
- Utilizing local vocational education to enable locals to gain benefits from the emerging economic base

### Framework for Sustainable Economic Zones

Key elements for promoting sustainable EPZs

General approach

Labour

**Environment** 

Health and Safety

Corruption

Create multistakeholder
partnerships to
identify opportunities
and develop an action
plan

Policies and Standards

Infrastructure Assistance

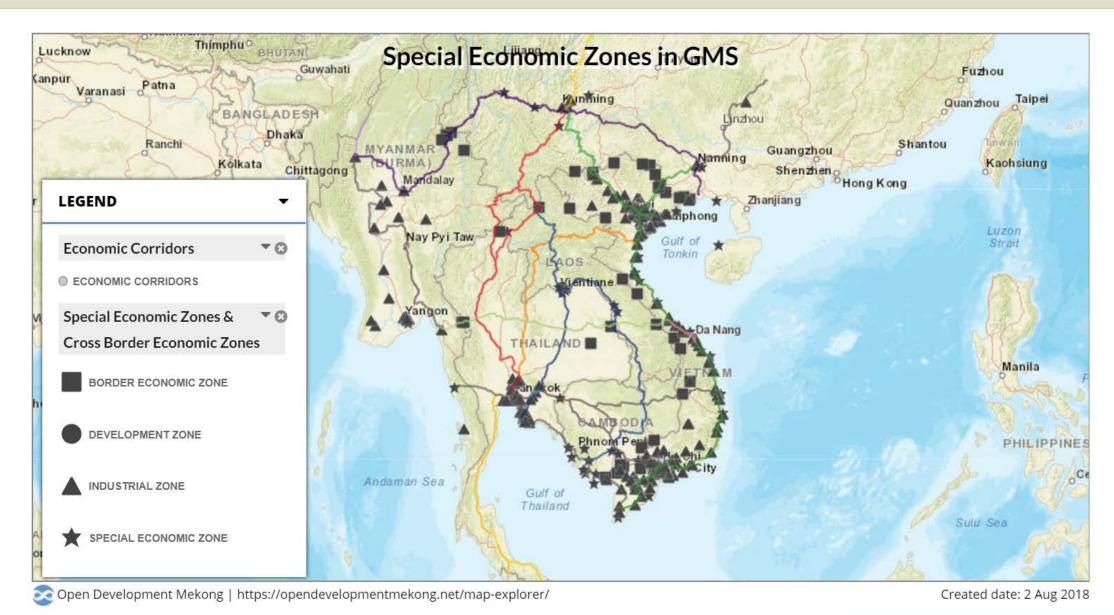
Administrative Assistance

**Economic Linkages** 

Source: Adapted from UNCTAD



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Utilizing resource endowments to benefit the local economy

### Innovation drastically increases local benefits



