





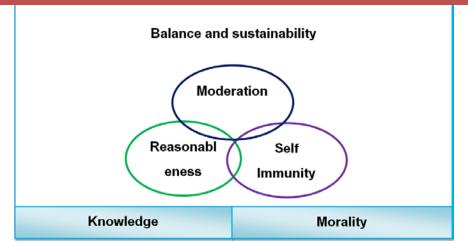


### **Low Carbon Society and Sufficiency Economy**

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### Principle of sufficiency economy



#### **Three levels of Sufficiency Economy Indicators**

#### Partial Practice (Doing)

- Community activities to conserve and restore natural resources
- Application of rules in using and managing natural resources and the environment

•Human Resource Development and Networks

•Awareness among community members of environmental conservation

#### Comprehensive (Thinking)

#### Inspiration (Living)

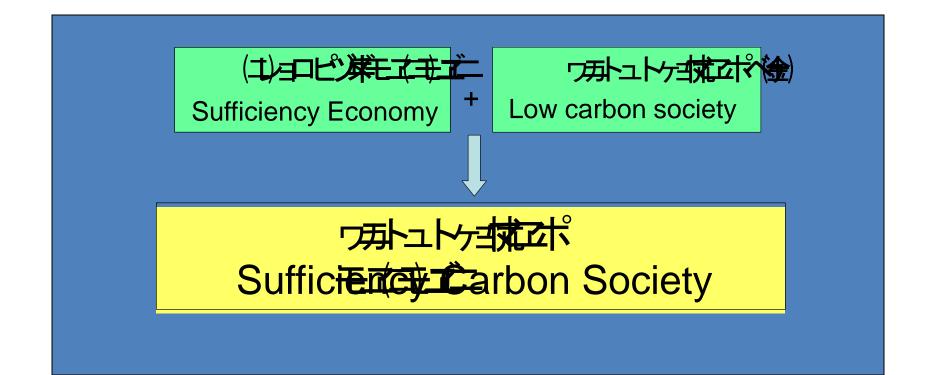
- Application of Local Wisdom and Innovation
- •Integrated practice in natural resource and environmental management
- Recognition of Carrying
  Capacity and Ecological
  Balance

 An adjustment of lifestyles in consistency with nature

# Principle of Low Carbon society

- Carbon Minimization
  - Minimization of carbon dioxide emissions from all sectors
- Simpler and Richer quality of life
  - Society shifting from consumption towards QOL oriented society. Revolution led by society consumer's choice.
- Coexistence with nature
  - Maintaining and restoring natural environment that is that is essential for LCS

# Sufficiency Carbon Society



# A case study of sufficiency carbon society

- Sufficiency Economy Implementation :
  - Community sector- Ban Pred Nai
  - Service sector- Chumporn Cabana Resort and Spa



Implementation of actions Sufficiency economy that support action of low carbon activity

Ban Pred Nai Village, Trad Province



• Problem : coastal erosion and mangrove deforestation

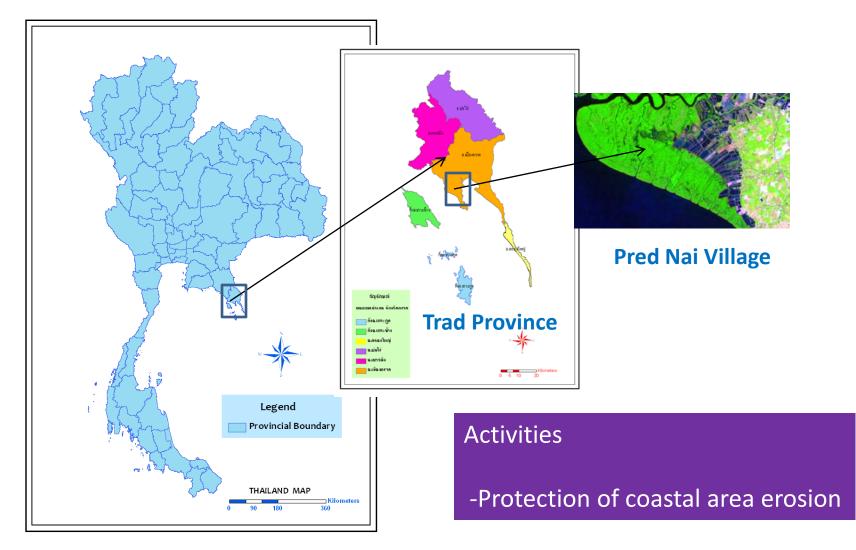
 Impact : loss of shoreline, Loss of mangrove , Loss of biodiversity, Loss income from fishery and crab catching

Action :

Doing- apply community law, networking mangrove conservation club young eco tour guide

Thinking- using rubber wave blockade to prevent erosion

### A Case of Sufficiency Economy in Pred Nai Village, Trad Province



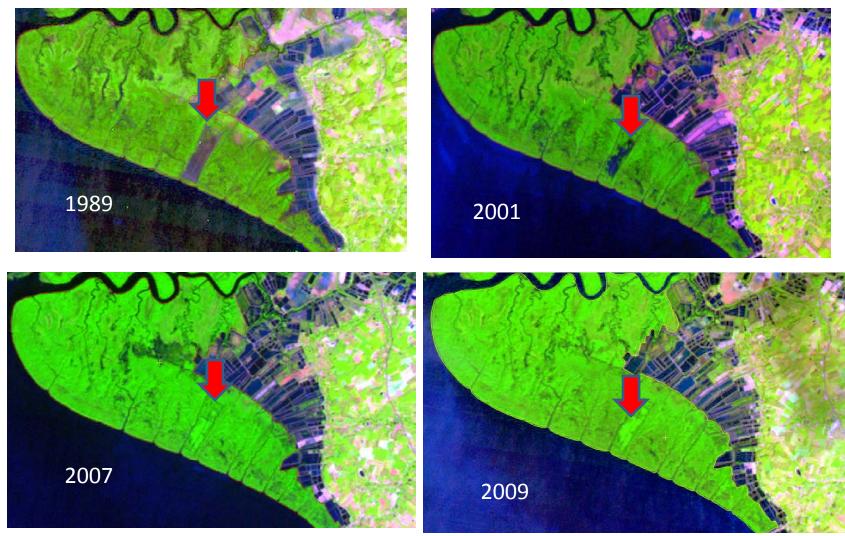
# Protection of coastal area erosion





- erosion occurred
- Mangrove forest was degraded
  - **Biodiversity loss**
  - Less income

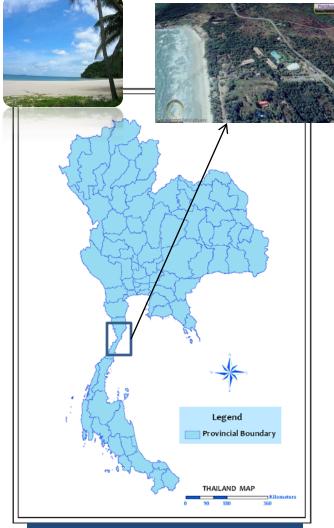




LANDSAT-5

Increasing 102 rai of mangrove area and managing 301 rai Removal of CO2 approx. 1205.1 t/yr= 2.03 tonnes CO2/ head/year

### Sufficiency Economy and Low Carbon Society : Sufficiency Carbon Society



Chumporn Cabana Resort



**Energy Recovery** 



Waste water treatment



**Employee production** 

Implementation of actions Sufficiency economy that support action of low carbon activity



Chumporn Cabana resort Chumporn province

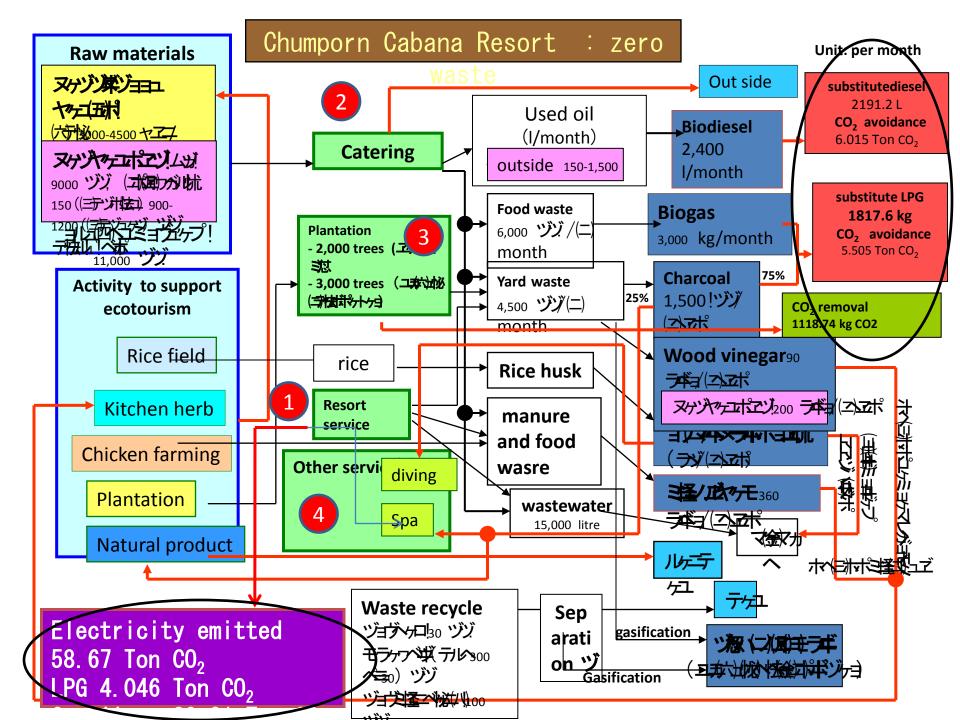


• Problem : Investment during economics collapse

• Impact : 300 Million Baht dept, employee lay out

Action :

Doing- Zero waste implementation, Eco driving activity, Energy recovery Thinking- Employee business, helping each other Living: Demonstration site, knowledge center



### CO2 avoidance

Ton CO2/month	kg CO2/guest night
5.505	0.98
6.015	1.07
539.24	0.10
579.5	0.10
	2.26
	6.015 539.24

### CO2 emission

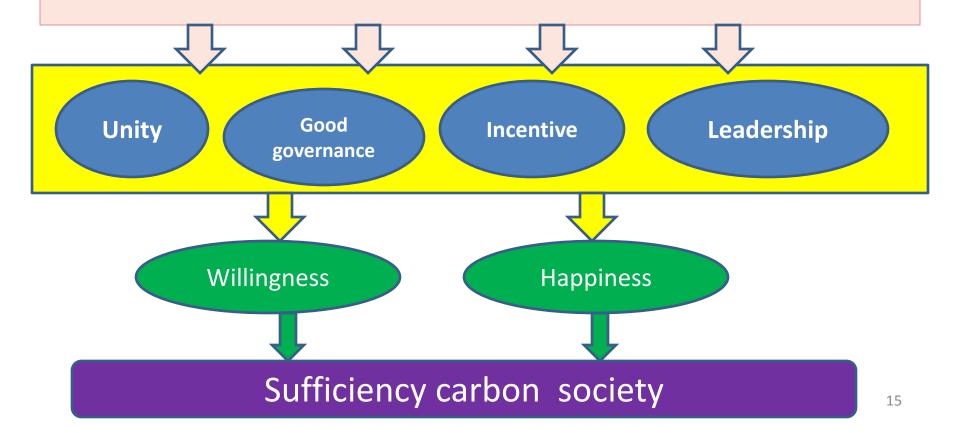
Activity	Ton CO2/month	kg CO2/guest night
Electricity		10.48
Diesel	15.08	2.69
Benzene	2.71	0.48
LPG (car)	3.02	0.54
LPG (cooking)	4.05	0.72
Total CO2 emission		(14.92)

Average Hotel emission per guest night of Word Tourist Organization = 20.6 kg Co2 /guest night

### LCS driven by sufficiency approach

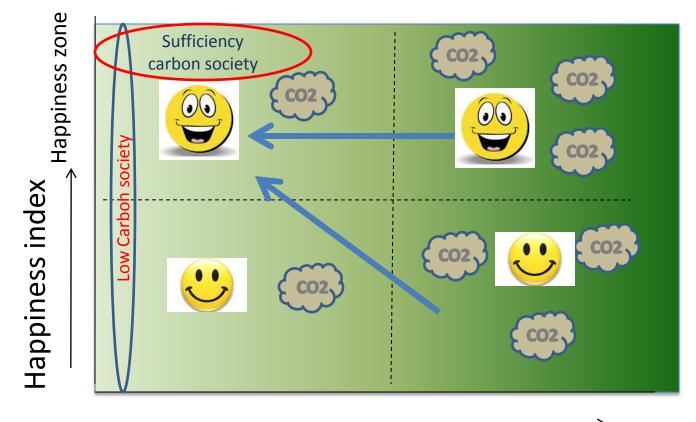
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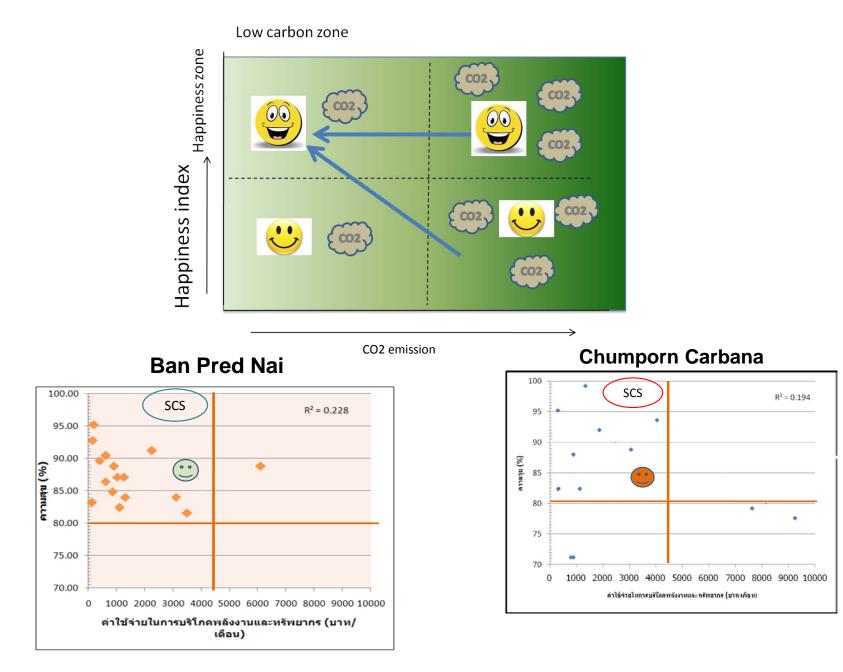
## **Emission and Happiness**

Low carbon zone

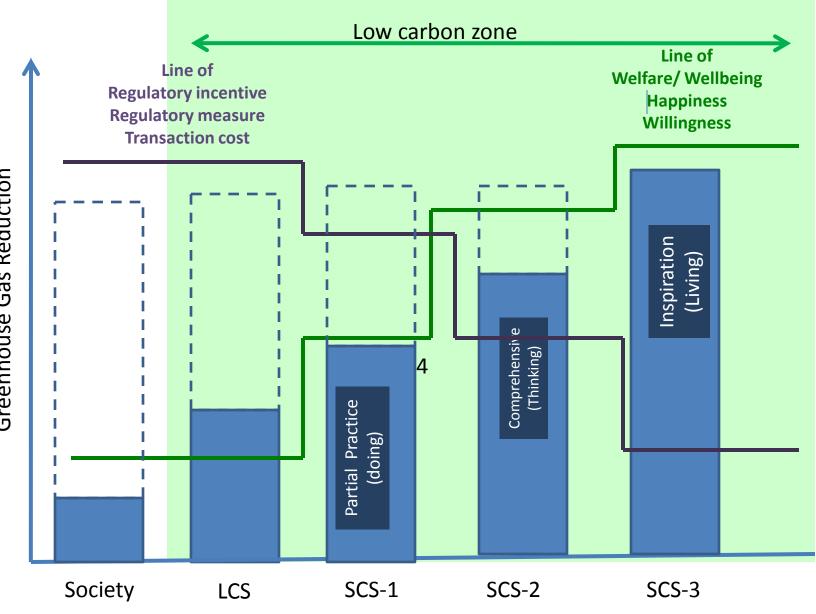


CO2 emission

Towprayoon and Kadkarnkrai 2010



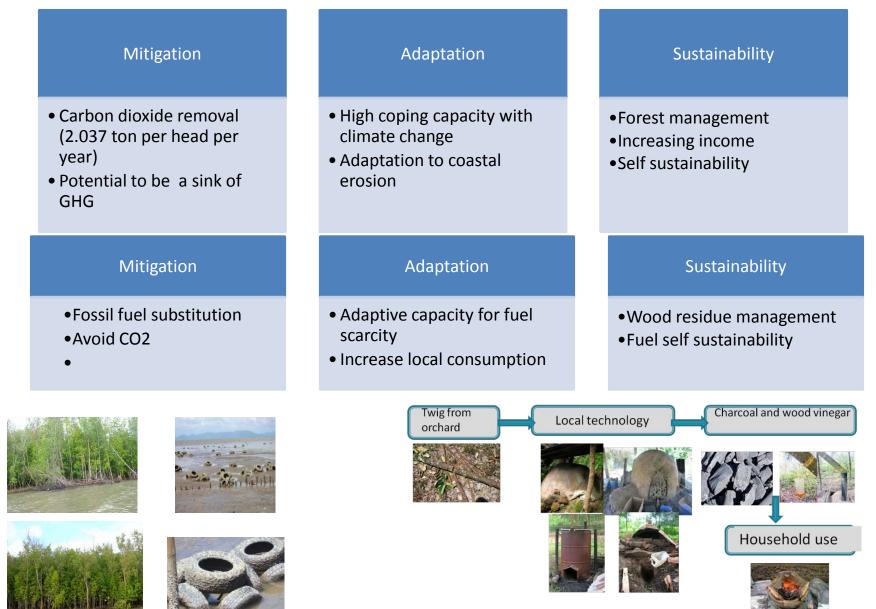
Sufficiency Carbon Society : SCS



Reduction with transaction cost

Gas Reduction Greenhouse

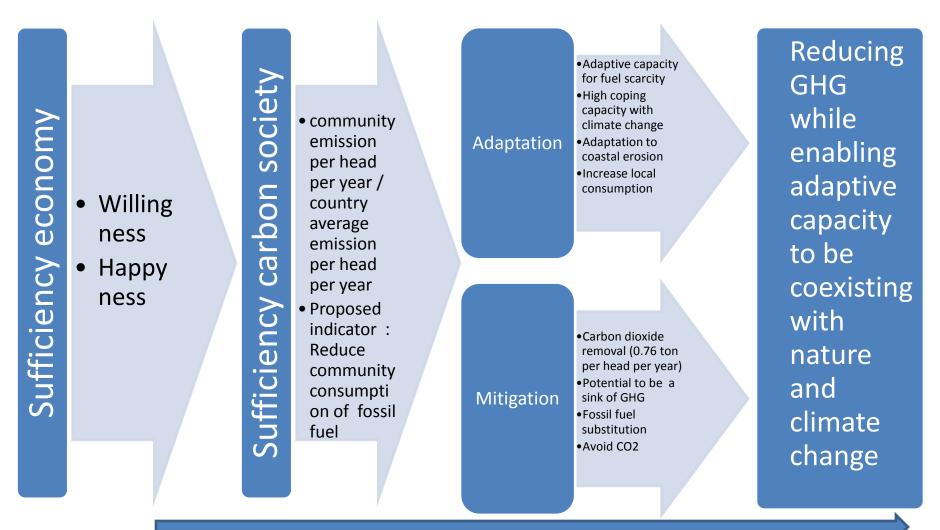
### Sufficiency carbon society, adaptation and sustainability



### **SCS** Indicators

Type of indicator	Common indicators	SCS indicator (doing, thinking, living)
ID 1 GHG emission	Emission per unit	Emission from community management per unit
ID 2 Fossil fuel dependent	Amount of fossil fuel/electricity consumption per unit	Amount of fossil fuel/electricity consumption per unit reduced by community management/life style change
ID3 Renewable energy	Amount of renewable energy used	Increasing of renewable used that come from community management/life style change
ID4 Technology	Number of GHG reduction technologies selected by community	Number of GHG reduction technologies selected, promote and developed by communities
ID5 Awareness	Number of population that understand Global warming /number of projects on GHG	Number of projects on GHG that is networking to outside /project for the future positive impact
ID6 Expense on energy consumption	Expense used per unit time	Per cent increasing of expense used for local product and for GHG related issues
ID7 Happiness	Happiness index increase from participating in the GHG mitigation activities	Happiness index increase due to technology dependence and due to life style change and willing to help reduce CO2

## Sufficiency carbon society and beyond....



2050 and beyond

## Conclusion

- Driving force for behavioral change can be different among communities and parties
- Change of behavior in these cases caused by external problem encountered and sufficiency economy implementation lead them to Sufficiency Carbon Society.
- Community with sufficiency economy implementation, their mindset of consumption through eco-thinking and routine activities are different from other communities.
- Low carbon society is not only driven by technologies but the consciousness of human for their living.
- Community with sufficiency economic concern is likely to drive towards low carbon society through their perception attitude and consciousness rather than those in other area where technology still play the role in mitigation.
- Merging this concept of mitigation with sufficiency concern with ecotechnologies is the challenge for Thailand to drive forward low carbon society in the near future.

### Thank you for your attention and Sawasdee Ka



Acknowledgement

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