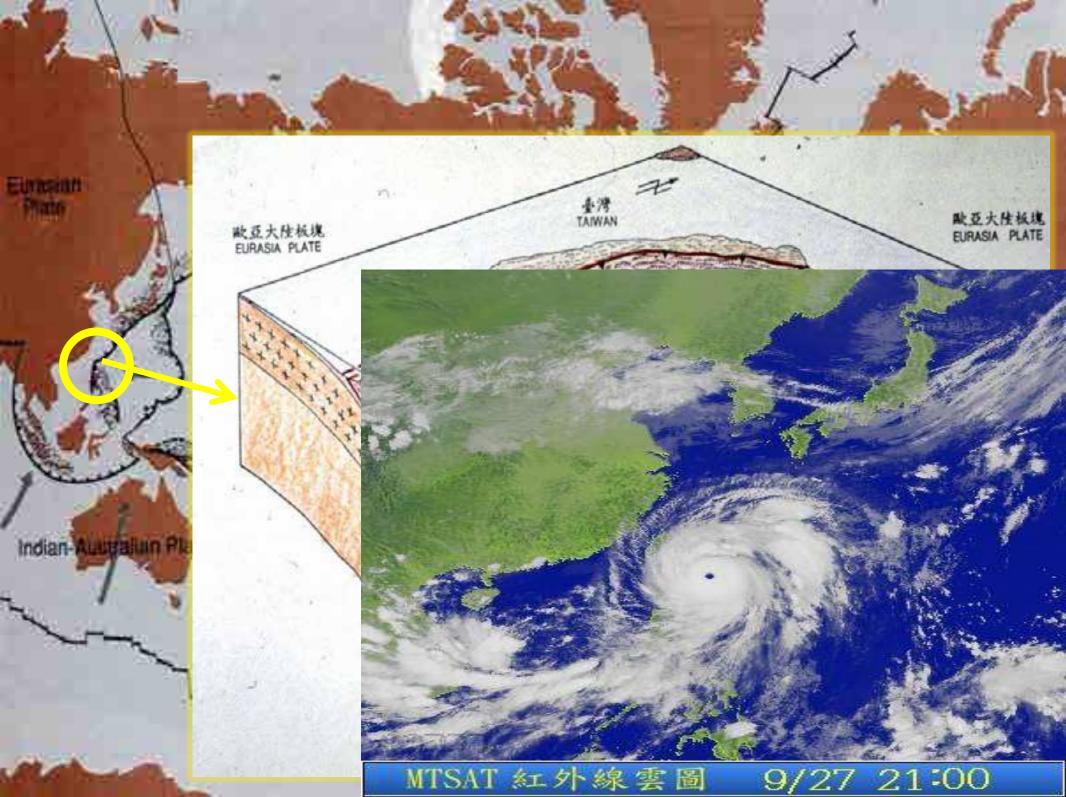
The First Asia Parks Congress
Working Group 4
Collaborative Management of Protected Areas

COLLABORATIVE PLANNING AND MANAGEMENT FOR IUCN CATEGORY VPROTECTED LANDSCAPES IN TAIWAN

Dr. Kuang-Chung Lee, Associate Professor

Outline

- Background
 - National system and governance types of protected areas of Taiwan
 - Need for a more collaborative governance and a landscape approach
- Think Globally
 - IUCN protected area category V
 - UNESCO World Heritage Cultural Landscape
 - CBD Satoyama Initiative
- Act Locally
 - A case study of participatory designation and management planning of a rice paddy Cultural Landscape (IUCN category V), Fun-nan village, Hualien, Taiwan



National system of PAs in Taiwan

 Taiwan has set aside nearly 90 protected areas that cover about 20% of its total land area.



Institutional arrangements of protected areas in Taiwan

Authority	Ministry of Interior	Council of Agriculture (Forestry Bureau)			
Name	National Parks + National Nature Parks	Nature Reserves	Wildlife Refuges	Major Wildlife Habitats	Natural Forest Reserves
Law	National Park Law	Cultral Heritage Preservation Law	Wildlife Conservation Law		Forestry Law
Number	8+1	21	18	35	6
IUCN	П	1/III ~		117	III/IV
Category	П	1/111	V I IV	IV	111/1 V
Governance types	Central _	Central/Local OVE FINAL Managed	Local	Central	Central Government Managed

Challenges of protected areas in Taiwan

- Area: 36,000 sq km; Population: 23 million; Population density: 640 p per sq km
- Conflicts between Nature conservation and economic development
- Designation of protected areas can be a 'natural solution' to protect sensitive areas
- The dominant governance of PAs in Taiwan is 'top-down'
- Therefore, the expansion of PAs in the future is limited because local people do not welcome!

Need for

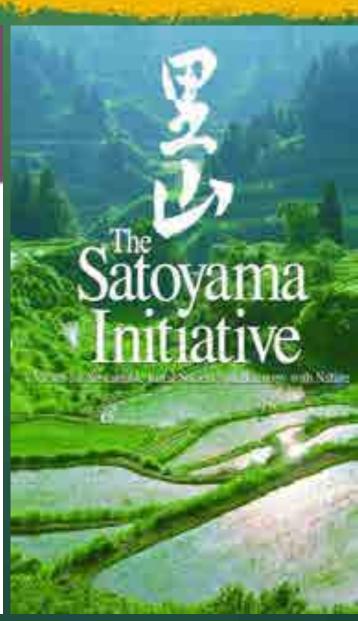
a Collaborative Governance and

a Landscape Approach

Key International Instruments of Landscape Approaches



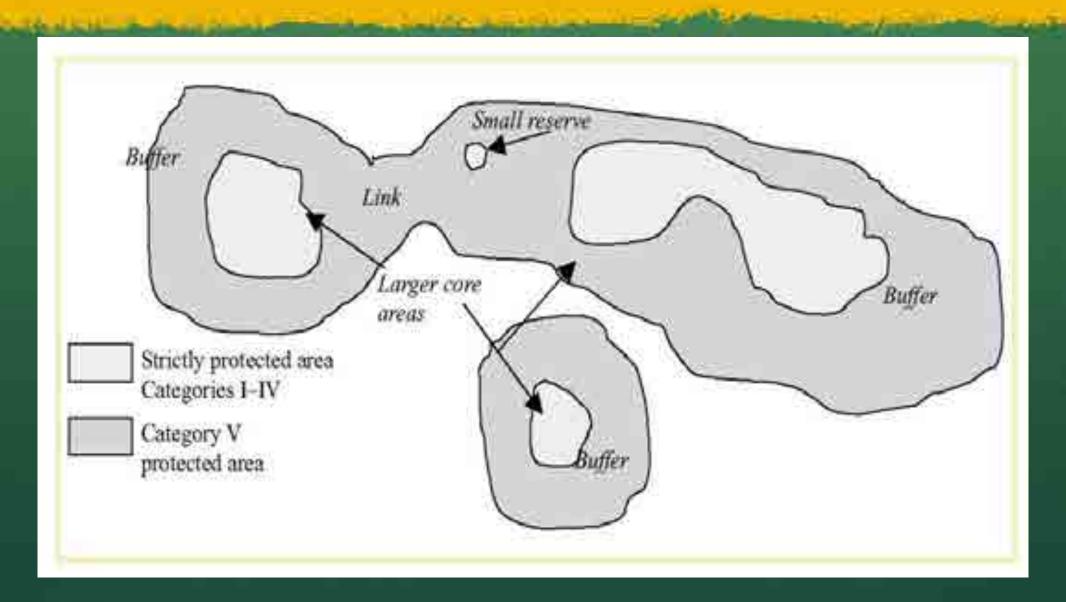




IUCN Category Vprotected landscapes/seascapes

 protect areas where the interaction of people and nature over time has produced an area of distinct character with significant ecological, biological, cultural and scenic value and where safeguarding the integrity of this interaction is vital to protecting and sustaining the area and its associated values

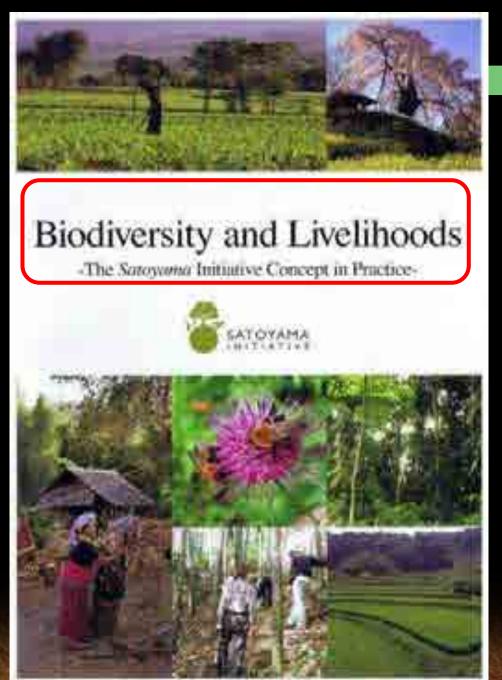
Buffer and linkage functions of a <u>Category V PA</u> (Phillips, 2002)

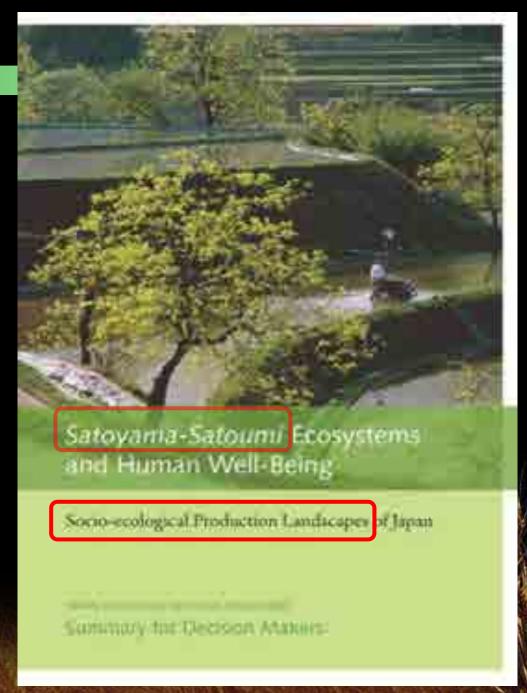


UNESCO World Heritage Cultural Landscapes

Definition: The term "cultural landscape" embraces a diversity of manifestations of the interaction between humankind and its natural environment...Protection of cultural landscapes can contribute to modern techniques of sustainable land-use and can maintain or enhance natural values in the landscape.

International partnership for the Satoyama Initiative (IPSI) A new message from CBD COP10, Nagoya, Oct 2010







Socio-ecological Production Landscapes

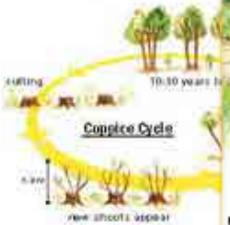
- has been applied to describe the <u>target areas</u> of the Satoyama Initiative
- environments, such as rice paddies, arable fields and orchards, irrigation ponds and ditches, and the villages of local farmers

(UNU-IAS, 2010)

Traditional Coppice Management

Management includes curring of undergrowth in number and collecting of fallen leaves for composit in winter. The trees are felled on a 10 to 30 year cycle, but new shoots soon grow from the stump. In recent years, the demand for wood fael has dropped, and many coppices have been abandoned. When this happens the woodland revers to dense thicket, leading to loss of forest-floor wildflowers and other species that depend on the traditional open.

habitat. To conserve biodiversity, the balance between laman activ world through proper manageme



Z000 years. Season: landscapes are high people. In addition, ric from spring through sur are filled again in wir huge wetlands which various wildlife





Many species of waterbird feed and forage in and around the rice paddies









The Satoyama Landscape creates habitats that various species of plant and animal have learned to take advantage of, allowing a rich biodiversity to coexist in harmony with agricultural production. Rice paddies play an internationally important role in biodiversity conservation, serving as stopover wetland habitat for migratory shorebirds such as Golden Plover.

Swan and ducks Golden Plover and Ruddy Turnstone Black-spotted Pond Frog Oriental Stork and Grey Heron

Irrigation Ponds and Ditches

Water is the necessary component in wet rice farming. Cold spring water is collected and warmed in small ponds before being sent on to the paddies through a complicated network of canals and ditches. These ponds and ditches also serve as habitats for aquatic plants and insects, such as dragonflies and damselflies. Frogs and salamanders, as well as small fish like medaka ricefish, breed in the water.



(UNU-IAS, 2010)

Pastures and Grasslands

Secondary grasslands include pastures for livestock, and fields of silver grass or dwarf bamboo that have been managed for making thatch, fencing and various utensils. Grassland management, which involves annual cutting and burn-off, creates habitats for various species of wildflower, insect, bird and small mammal. Autumn landscapes featuring fields of ripe silver grass shining in the sun form one of the classic motifs of the Satoyama Landscape.





図4 単山の概念と特徴 (UNU-IAS, 2010)

●朝炭林、⑥人工料、⑥アカマツ林、⑥星敷林、⑥竹林、⑥草地、⑥井田、⑥井田、⑥淮、⑥水路・川、⑥ため池、⑥集落、①幸善(ウシ、ニワトリ)、⑥ キノコなどの山菜、⑥早原の火入れ、⑥水路の保全、⑥雑木林・竹林の手入れ、⑥人工料の手入れ、⑥连ち葉かき・堆肥づくり、⑥武焼き、⑥シイタケ が販品、⑥神社 ②オオタカ、⑥サンショウウオ、②カワセミ、⑥農家・林家、⑤ハイカー

Three-fold approach to Satoyama Initiative

Vision Societies in harmony with nature

Three-Fold Approach

- Consolidate wisdom on securing diverse ecosystem services and values
- Integrate traditional ecological knowledge and modern science
- Explore new forms of co-management systems

Contributions to socio-economies

Cyclic use of natural resources

Resource use

within the carrying

capacity and

resilience of the

environment

Recognition of the value and importance of local traditions and cultures

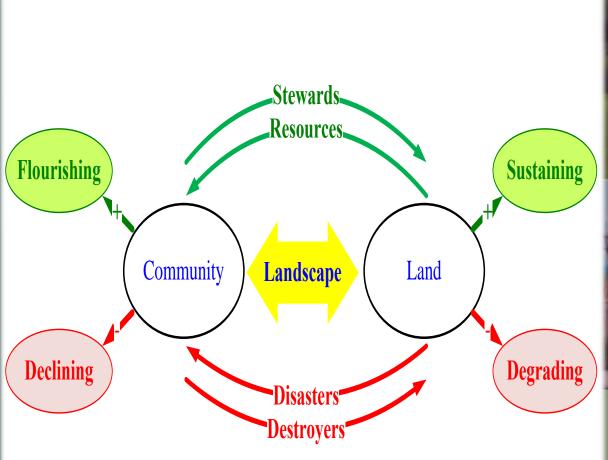
Multi-stakeholder participation and collaboration

Five Key Perspectives in the Approach

The Protected Landscape Approach

Linking Nature, Culture and Community

Edited by Jessica Brown, Nora Mitchell and Michael Beresford













Case Study



A case study of participatory designation and management planning of a rice paddy Cultural Landscape (IUCN category V), Fun-nan village, Hualien, Taiwan

Cultural Heritage Preservation Law, Taiwan (amended in 2005)

- Monuments, Historical Buildings and Settlements
- Historical Sites
- Cultural Landscapes → Local people←→land
- Traditional Arts
- Folk Customs and Related Cultural Artifacts
- Antiquities
- Natural Landscapes

Research Purpose and the Flowchart

Action Research Goal

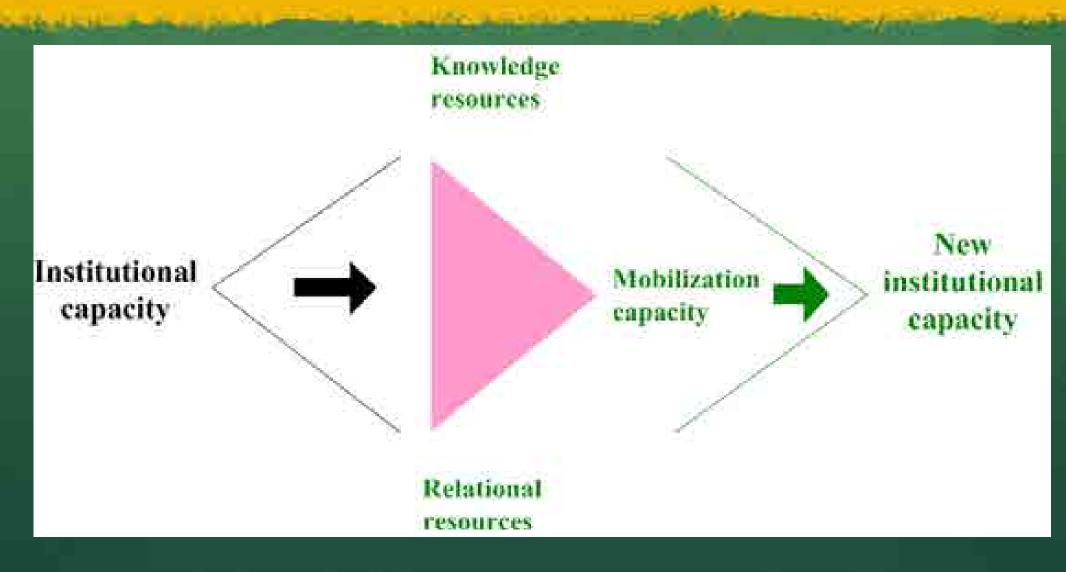
To facilitate a collaborative planning process to help stakeholders to designate a Rice Paddy Cultural Landscape and formulate its Management Plan

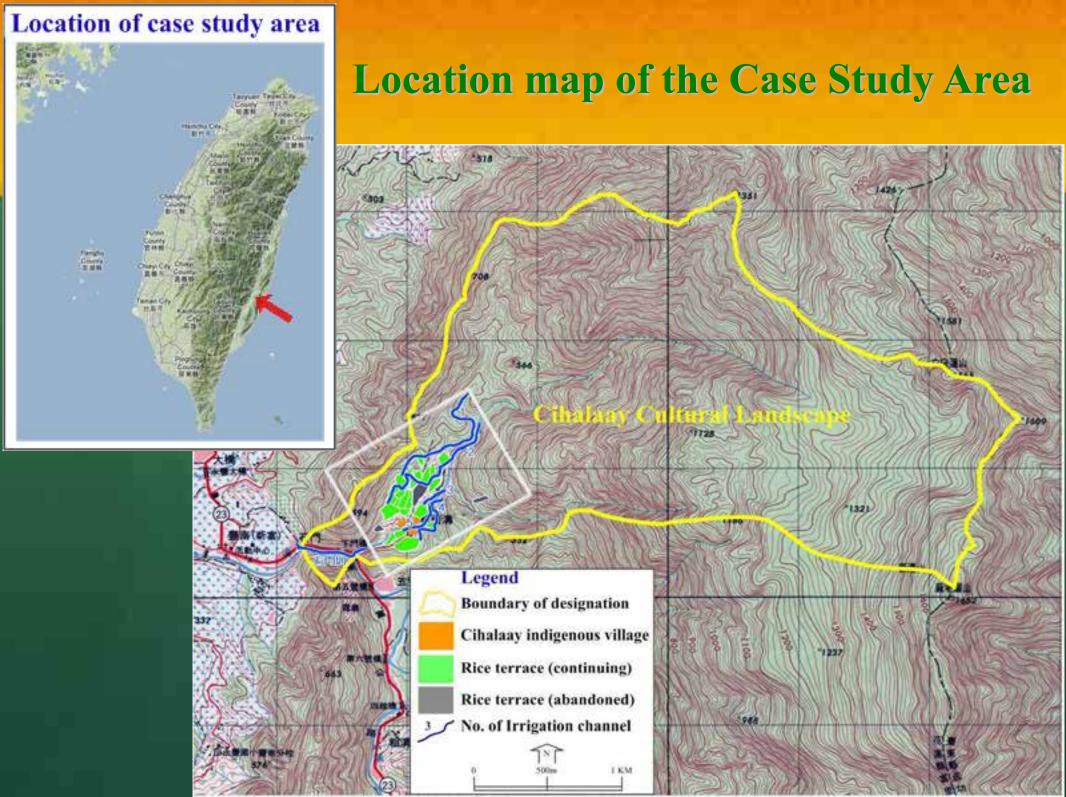


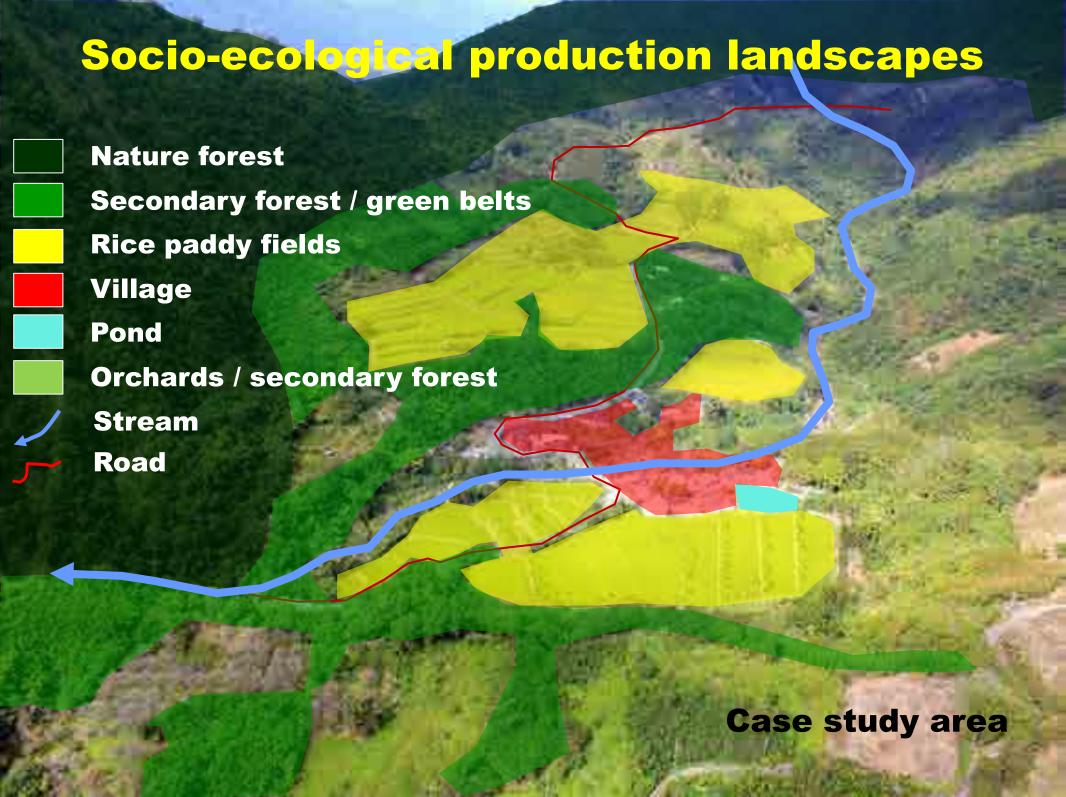
Outcome

Designation of the first satoyama-like Cultural Landscape in Taiwan, and formulation of a Mid-term Management Plan of the Cultural Landscape

Theory of Collaborative Planning (Healey, 1997)



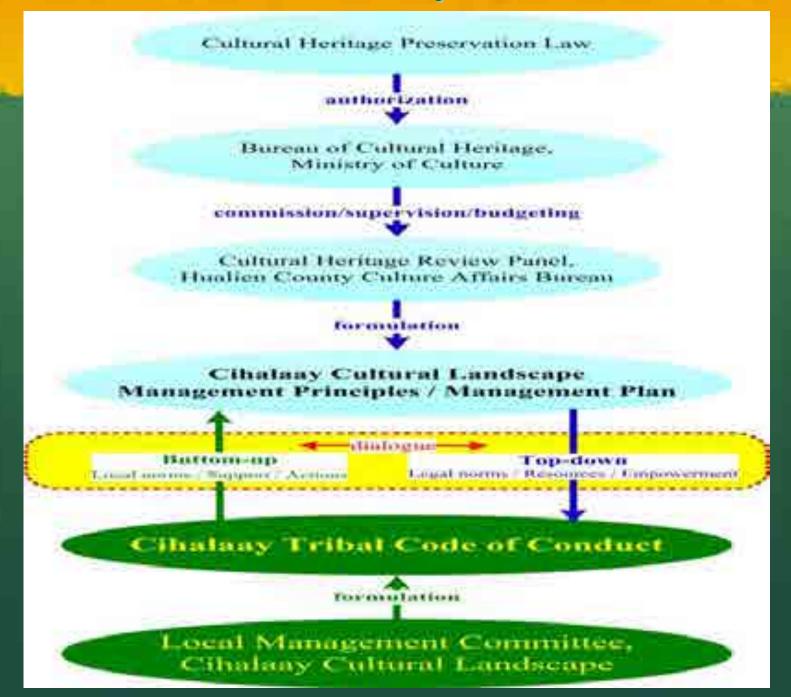




Challenge- 1: lake of a feasible framework and institutional arrangements for application

 Most designated cultural landscapes are about historical architecture preservation.
 None employs an integrated landscape and community-based approach to benefiting both local people and their living landscapes.

Outcome 1-1: building up a mutually beneficial linkage between local community and local authority



Outcome 1-2: incorporating the Satoyama Initiative three-fold approach into of the Cihalaay Cultural Landscape Management Plan agreed by stakeholders

Vision

Realising Cihalaay indigenous community in harmony with nature



Approach

- ☐ Securing diverse ecosystem services and values by a watershed/landscape based approach ☐ Integrating indigenous ecological knowledge and modern science to enrich agro-biodiversity
 - ☐ Enhancing collaborative management governance

Contributions to social cohesion and economic income

Protection of forest and stream ecological systems. Maintenance of water channels and rice paddy landscape

Promotion of

environmentally friendly

agriculture to enhance

resilience of

the environment

Empowerment of Cihalaay Management Committee and multistakeholder partnership platform Recognition of indigenous ecological knowledge and landuse wisdom

Five Strategies for Actions

Challenge 2: to design and exercise of a collaborative planning

- To sustain a satoyama-like landscape in an aging and declining rural area, a collaborative governance needs to be fostered to empower the local community while involving all stakeholders in the planning process.
- In Taiwan there is a lack of community-based case studies on the Satoyama Initiative to be learned from.

Outcome 2-1: Dialogue between expert knowledge and local knowledge to increase knowledge resources



Outcome 2-2:

Stakeholder Partnership Platform to increase relational resources among stakeholders

Local Administration

- · Hualien County Government
- Fuli Township

Agriculture

- Hualien District Agricultural Research and Extension Station
- Soil and Water Conservation Bureau Hualien Branch

Education

 Yong Feng Elementary School

Highway

 The 4th District Office, Highway Bureau

NGOs

Local Management Committee, Cihalaay Cultural Landscape

Committee leader +Tribal chief +Community Association leader +Village leader +neighborhood leaders +Township representative

Irrigation channel group Rice paddy group

Forest and Stream group

Water

- Water Resources Planning Institute, WRA
- The 9th River Management Office, WRA
- Fuli Branch, Hualien Irrigation Association

Forestry

 Hualien Forest District Office and its local Yuli Branch

Facilitator

 National Dong-Hwa University Multi-Stakeholder Partnership Platform

Culture

- Bureau of Cultural Heritage, Ministry of Culture
- Hualien County Culture Affairs Bureau

Outcome 2-3:

Steps of the Participatory Planning Process (based on IUCN CEC, 1999)

Step 5 Implementation & Monitoring Jul 2013-✓ To be continued. Step 4 Action Planning Jul 2012-Jun 2013 ✓ Participatory mapping of the Cihalaay Cultural Landscape resources ✓ Preparation of the Mid-term Management Plan (draft) for discussion ✓ Conduction of three new Stakeholder Meetings to discuss and confirm the Mid-term Management Plan Step 3 Consensus-building Oct 2011-May 2012 ✓ A Local Management Committee was set up by the local community ✓ Conduction of 3rd and 4th Stakeholder Meetings to discuss about the Management Principles of the proposed Cihalaay Cultural Landscape ✓ Completion of legal process of the Cihalaay Cultural Landscape designation

Step 2 Discussion Jul 2011

✓ Conduction of 1st and 2nd Stakeholder Meetings to discuss about 'What, Why and Where' to designate a Cultural Landscape in the local area

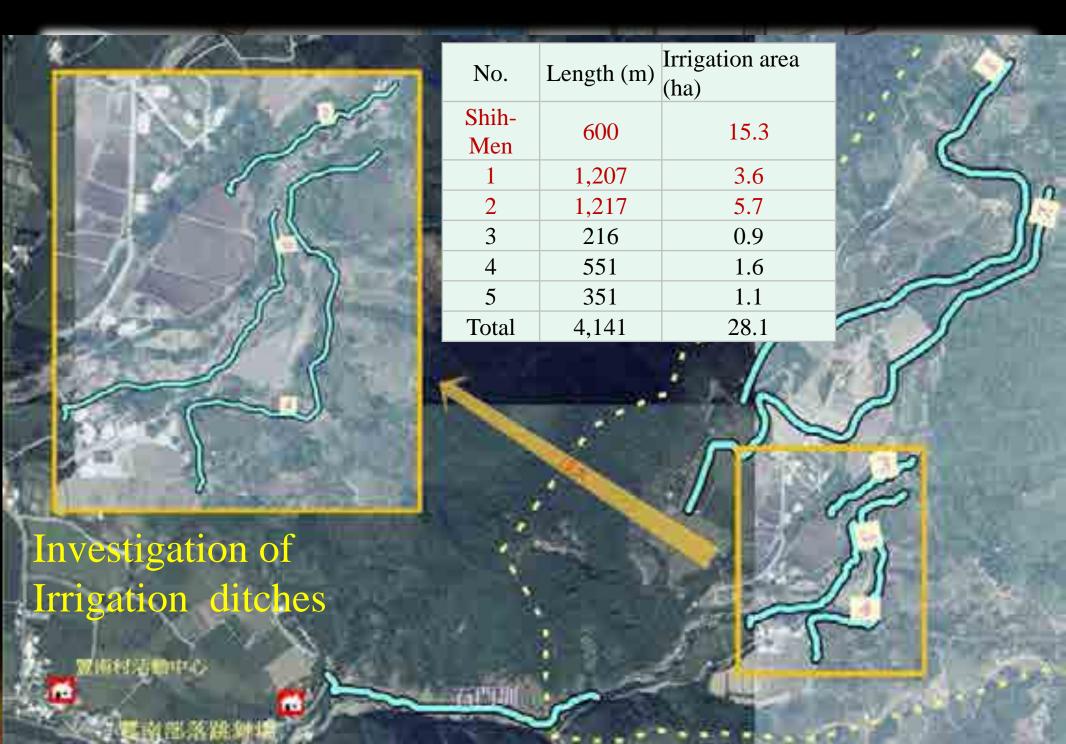
Step 1 Preparation May-Jun 2011

- ✓ Local issue identification through participant observation and personal interviews
- ✓ Recruitment of 1st and 2nd Stakeholder Meetings

Step 1: Preparation

- May Jul 2011
 - Investigation of cultural landscape resources
 - PPGIS + interviews + field survey

PPGIS methods



Investigation of rice paddy distribution 2號水皿嘎棒站



Steps 2&3: Discussion & Consensus-building

- Jul 2011- Jan 2012
 - To reach consensus on the designation of a cultural landscape
 - Recruiting Four Community Forums
 - What is a cultural landscape?
 - What for ?

- 1st & 2nd forums
- Where is the boundary?
- Any legal restrictions? Any benefits?
- Who are the stewards?
- How to manage it?

3th & 4th forums

1st Community Forum, 2011.7.5 - For local leaders

- 15 local people: village and tribal leaders, villagers
- 1 officer from Local Authority of cultural landscape preservation
- 4 research team members





③ 薪炭林、⑤ 人工林、⑥ アカマツ林、⑥ 星敷林、⑥ 竹林、⑥ 草地、⑥ 水田、⑥ 畑、⑥ 水路・川、⑥ ため池、⑥ 集落、⑥ 家畜(ウシ、ニワトリ)、何 キノコなどの山菜、⑥ 草原の火入れ、⑥ 水路の保全、⑥ 雑木林・竹林の手入れ、⑤ 人工林の手入れ、⑥ 落ち葉かき・堆肥づくり、⑤ 炭焼き、⑥ シイタ ケ栽培、⑥ 神社、⑥ オオタカ、⑥ サンショウウオ、⑥ カワセミ、⑥ 貴家・林家、⑤ ハイカー

Opinions of local people in 1st forum

- Not harmful and sounds good, but...
- "Who will be in charge?"
 - **✓** Local people?
 - **✓**The government?

Local tribal meeting 2011.7.11



2nd Community Forum, 2011.7.25 - For local villagers

- 30 local people: village and tribal leaders, villagers
- **2** officers from Local Authority of cultural landscape preservation
- 8 research team members



Local leaders chair the meeting



A Management Board for the cultural landscape was established 2011.10.17



Tribal Codes of conduct for cultural landscape by the Management Board, 2011.10.31

- Goals
- Organization
- Land management
- Life and culture
- Rice paddy management
- Irrigation ditches management
- Forest and stream management

3th Community Forum, 2011.11.14

- For local villagers←dialogue→local authorities

- 28 local people: village and tribal leaders, villagers
- 12 officers from various Local Authorities
- 7 research team members



4th Community Forum, 2012.1.10

- For local villagers←dialogue→local authorities
- 31 local people: village and tribal leaders, primary school principal, villagers
- 8 officers from various Local Authorities
- 7 research team members







A new type of IUCN protected landscape was born!

Step 4: Action planning 2012.4~2013.4

Key questions discussed in 5th-7th community forums

- local villagers dialogue varirous local authorities
 - Relation between Cihalaay Tribal Code of Conduct and the Cihalaay Cultural Landscape Management Principles
 - Content of New tasks to be completed in the Cihalaay Cultural Landscape Management Plan
 5th & 6th forums
 - Decision of the Core Areas of the Cihalaay Cultural Landscape
 - A 5-year mid-term Cihalaay Cultural Landscape Management Plan

7th forum

5th Community Forum, 2012.4.23

- For local villagers←dialogue→research team
- 14 local people: village and tribal leaders, villagers
- 6 research team members



6th Community Forum, 2012.9.17

- For local villagers ← dialogue → local authority
- 8 local people: village and tribal leaders, villagers
- **2** officers from Local Authority of cultural landscape preservation
- **7** research team members



7th Community Forum, 2013.3.26

- For local villagers←dialogue→local authority

- 30 local people: village and tribal leaders, villagers
- 10 officers from various local authorities
- 8 research team members









Outcome 4: Formulation of Management Plan to enhance mobilization capacity



The mid-term Cihalaay Cultural Landscape Action Plans

		Time table			· · · · · · · · · · · · · · · · · · ·								
strategies	Tasks	9090 (1-3 AF)	中級	able Ku 17-10-#	花頭雕 文化與	材務局 花識材 高管理 進	水土保 神湖花 鎌分局	花線區 農業改 長場	花葉鰈 原住民 行政處	章則 壓公所	農田水 利食 蓄地工 作品	東華 大學	水理 IB小
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	A4 新華教第三次及主流的水产新國際						*						
	4-3 主形列文比斯组组各多种量位制	(+;	3.0		*		+						
	人名邓廷拉土斯男女儿监查探市森林康的音句		-6			+			+				
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Next step: implementation and monitoring

Action

To be continued....

Step 5 Implementation & Monitoring Jul 2013-

✓ To be continued

Step 4 Action Planning Jul 2012-Jun 2013

- ✓ Participatory mapping of the Cihalaay Cultural Landscape resources
- ✓ Preparation of the Mid-term Management Plan (draft) for discussion
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- ✓ A Local Management Committee was set up by the local community
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Step 2 Discussion Jul 2011

✓ Conduction of 1st and 2nd Stakeholder Meetings to discuss about 'What, Why and Where' to designate a Cultural Landscape in the local area

Step 1 Preparation May-Jun 2011

Evaluation

- ✓ Local issue identification through participant observation and personal interviews
- ✓ Recruitment of 1st and 2nd Stakeholder Meetings



Within definition, there are six management categories for protected areas (IUCN, 1994)

