GIAHS/NIAHS Conservation and Rural Revitalization

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• Rural Revitalization: A Global Issue

• GIAHS/NIAHS: “Gene Banks” for Rural Revitalization

• GIAHS/NIAHS Sites: Best Demonstration Regions for Rural Revitalization Strategy
China’s urbanization

- It is well known that the widening gap between urban and rural areas and the decline of rural areas are the realities together with China's rapid development.
A sharp contrast

• With the development of industrialization and urbanization, the urban expansion and rural decline perform at the same time.
Current status of countryside

- Inner Decaying Village.
- left-behind children, the elderly and staying women.
A global challenge

- In fact, not only in China, the world also faces the challenges.
Experiences from Japan

- Rural revitalization campaign in 1960s
- New village movement in the late 1970s
China’s “Rural Revitalization Strategy”

• On October 18th, 2017, Xi Jinping put forward the “Rural Revitalization Strategy”.
• On December 29th, 2017, the Central Conference on Rural Work clarified the objectives, tasks and timetables.
• On March 8th, 2018, Xi further summarized “Five Revitalization Approaches” including industrial, talent, cultural, ecological, and organizational revitalizations.
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GIAHS/NIAHS: A new kind of “Heritage”

- In 2002, FAO launched the GIAHS initiative.
- In 2012, China’s MOA launched China-NIAHS program.
China’s GIAHS sites

- 2005
- 2010
- 2012
- 2014
- 2018

- 2005
- 2011
- 2013
- 2017
- 2018
GIAHS: Heritage for the future

Definition:

Remarkable Land Use Systems and landscapes which are rich in biological diversity evolving from the ingenious and dynamic adaptation of a community/population to its environment and the needs and aspirations for sustainable development (FAO, 2002)

- Integrated Agricultural, Forestry, Livestock and Fishery systems;
- Result of co-adaptation and co-evolution of plants, animals, humans and landscape under specific environmental circumstances;
- Managed through highly adapted social and cultural practices and institutions;
- Provide food and livelihood security and social, cultural and ecosystem services;
- Important at local, national and global levels; and
- They are under threat.
Features of GIAHS/NIAHS

- Living
- Adaptive
- Complex
- Strategic
- Multi-functional
- Endangered

biologic, technological, and cultural "genes"
Biologic "genes" for modern agricultural development

<table>
<thead>
<tr>
<th>Crop</th>
<th>Varieties</th>
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<tbody>
<tr>
<td>Rice</td>
<td>Wuyuanhan Rice</td>
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<td></td>
<td>Yehele Rice</td>
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<td>Traditional Glutinous Rice</td>
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Technological "genes" for eco-agricultural development

RM: $y = 0.7202x + 9.2019$

$R^2 = 0.5388$, $P<0.05$

RF: $y = 0.3011x + 20.179$

$R^2 = 0.0134$, $P>0.05$
Fishing for solutions

A mountain village that practices aquaculture in rice paddies might hold the key to improving agroecology nationwide. Xie Junqian reports.

SYMBOITIC PERFECTION

The 10 Elements of Agroecology
Cultural "genes" for sustainable rural development
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GIAHS/NIAHS sites are the most needed for revitalization

- Weak infrastructure and backward economic development;
- Fragile ecosystems and abundant biological resources;
- Abundant traditional knowledge and comprehensive technical system;
- Abundant cultural resources and beautiful rural landscapes; and
- Large population whereas a shortage of talent resource.
How to achieve rural revitalization?
Industrial revitalization
Agriculture

Bio-resource industry

Food industry

Processing industry

Leisure agriculture & rural tourism

Cultural industry
Talent revitalization

- Cooperative leader: Guo Wuliu
- Returned college student: Liu Haiqing
- Returned overseas Chinese: Jin Yuepin
Cultural revitalization
Ecological revitalization
Organizational revitalization
• A Chinese proverb: Consider the past and your shall know the future. （温故而知新）
• Learn from the past for the future.
• We could contribute our wisdom to the sustainable agriculture and rural revitalization of the world through GIAHS/NIAHS approaches.
Thank You for Your Attention