

# Lessons Learned from the Seed Park in Stone Village, Yunnan, China

By

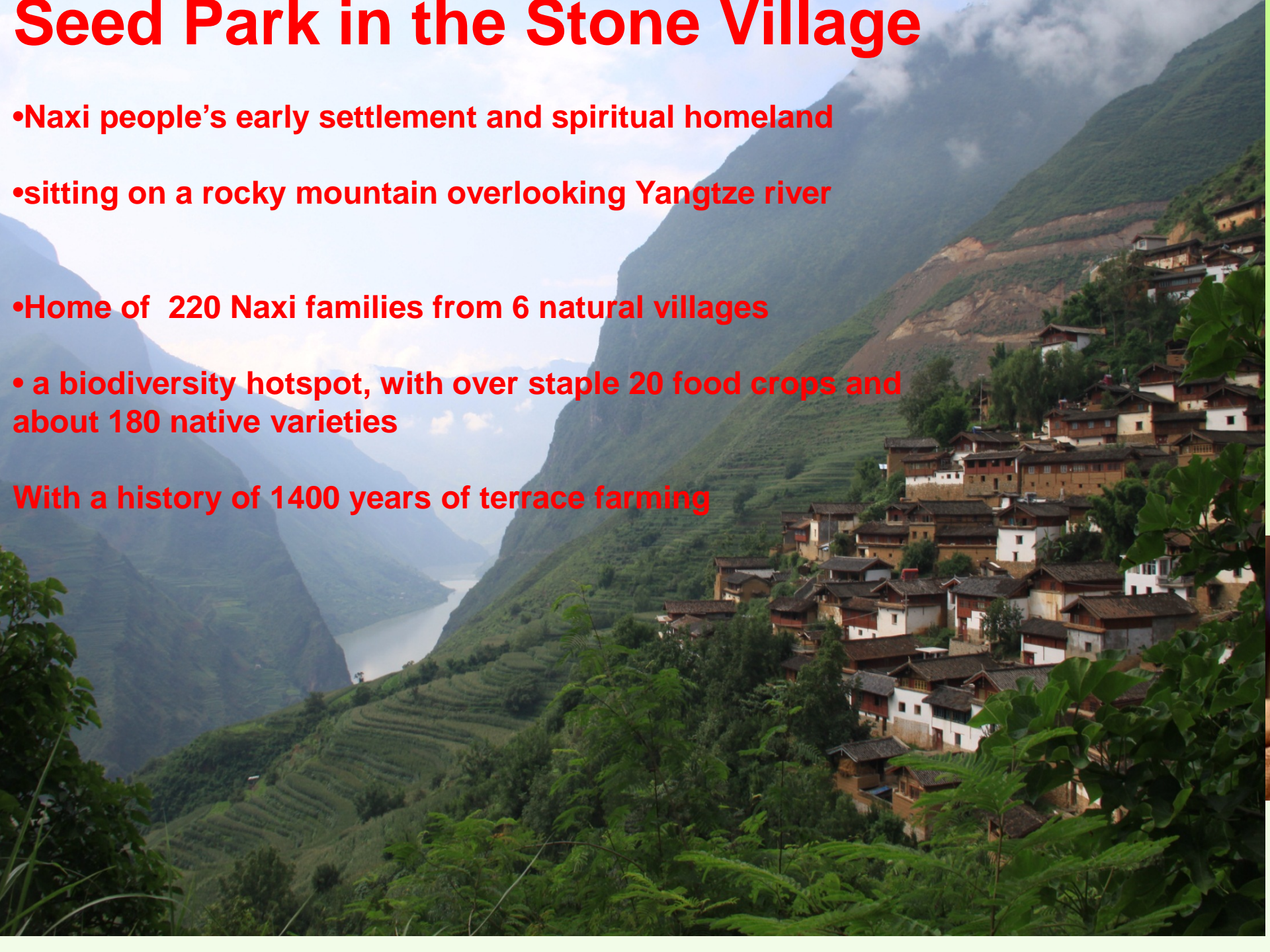
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# Seed Park in the Stone Village

- Naxi people's early settlement and spiritual homeland
  - sitting on a rocky mountain overlooking Yangtze river
  - Home of 220 Naxi families from 6 natural villages
  - a biodiversity hotspot, with over staple 20 food crops and about 180 native varieties
- With a history of 1400 years of terrace farming





•3 Parallel Rivers of Yunnan Protected Areas, World Heritage,  
 •Tea & Horse Road.....

- located within Tibetan plateau, bordering with Tibet, Sichuan..
- Up stream of Asia's major Rivers supporting 1.4 billion people down stream
- biodiversity hotspot...
- rich cultures, over 32 ethnic people....



# Tibetan Plateau is Facing massive “ecosystem shift” and changes .....Researched by By Xu Jianchu, Ed Grumbine, etc, reported by Beth Walker ....

- Warming 3 time faster than World Average ...
- Cold crops and forest moving up
- biodiversity is disappearing
- Ethnic cultures are vanishing
- Climate Change and over economic grazing are continue ...
- **Uncertainty modeling the future, most scientific work based on global models of CC and downscaled to regional and sub-regional...**





# As IPCCCA Country case since 2011.....



# IPCCA Finding: climate change affected all the 6 communities i.e. big drought, extreme whether, increasing pest ..

Farmers observation of Climate Change during 2002–2012

	GX (%)	YN (%)
<b>Unusual Rain fall</b>	<b>70.1</b>	<b>61.8</b>
<b>temperature (summer/winter)</b>	<b>78.7</b>	<b>28.5</b>
wind strength	12.2	13.0
Sun shine	23.1	2.4
River water flow	34.4	17.9
<b>Drought</b>	<b>37.1</b>	<b>80.5</b>
flood	22.6	13.8
<b>Insects/Pests</b>	<b>69.2</b>	<b>39.0</b>
Diseases (animal & crop)	40.3	12.2
Extreme whether	5.9	6.5
Mud-rock flow	0.9	*



# IPCCA Finding: Biodiversity is decreasing rapidly, losing related TK and Traditional culture, values



50 native varieties disappeared in the last 10 years, including 13 rice, 10 maize, 6 beans etc, e.g. traditional crops is disappearing e.g. high land barley, sorghum, oak etc

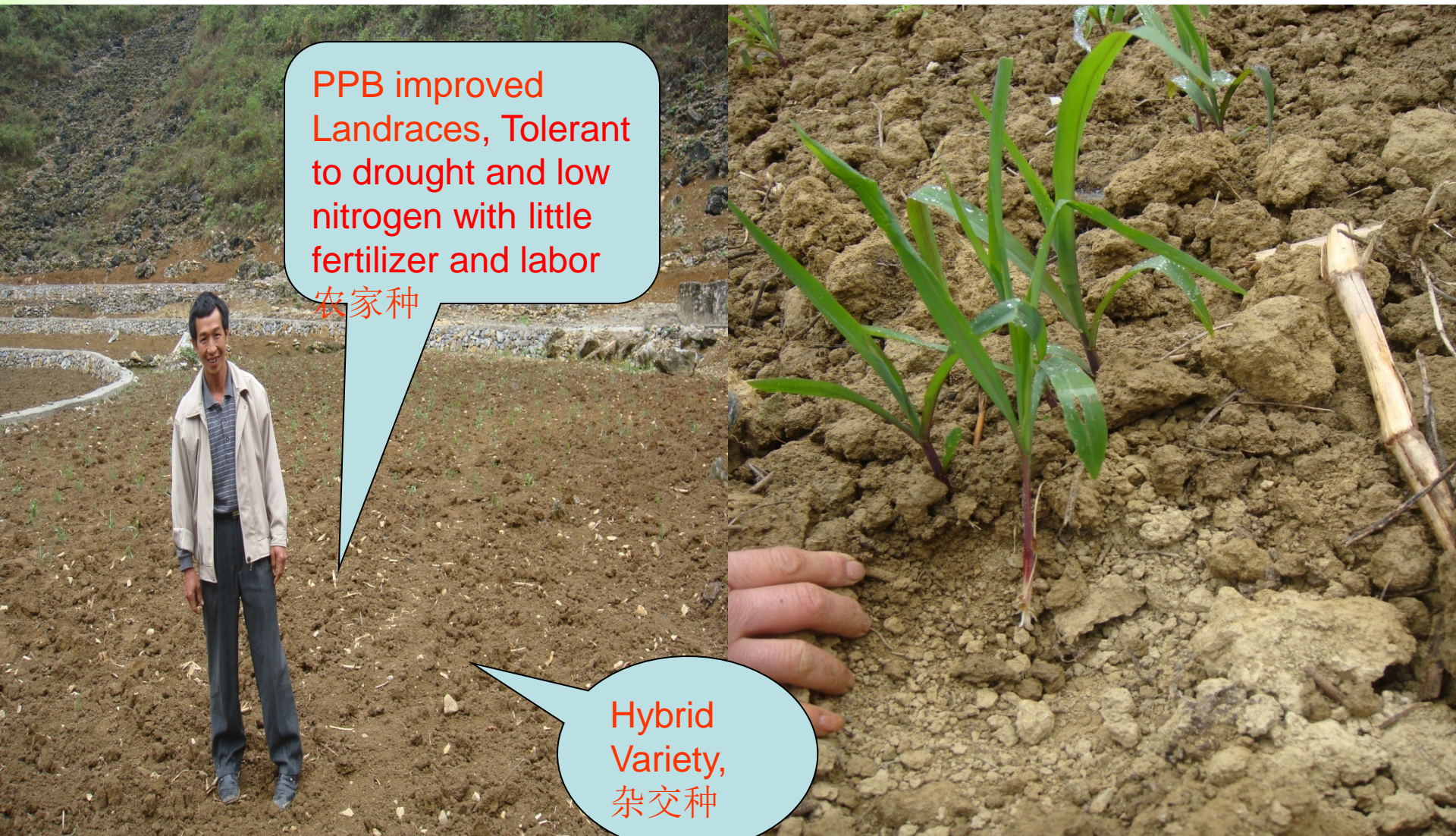
**Reasons for losing:** hybrids, low productivity, labor etc

**For keeping:** drought resistance, quality, culture needs, emotional & spiritual needs .....





# PPB as local adaptive innovation process for climate changes



PPB improved Landraces, Tolerant to drought and low nitrogen with little fertilizer and labor  
农家种

Hybrid Variety, 杂交种



# Seed Sovereignty for Food Sovereignty and Adaptation



我留的种子，我做主  
家传品种传千里



# Encouraging and reconstruction of Traditional values and culture



--Enhancing collective spirit, capacity through supporting



local economic and culture activities..... association and cooperatives





# National Farmer Seed Network

Dec 2013, involving 22 rural communities  
 4 public Agriculture R Org (CAAS, CAS)  
 2 Universities, NGOs, TWN,  
 MOA, MOE,



-Farmer seed exchange, seed  
 Production, PVS, PPB..

-3 Suggestions for  
 “seed law” Revision to protec  
 Farmers’ rights, 1 accepted by PC,

- Presented in CBD cop 12

-first news letter, Nov, 15, 2014

2014年11月15日



农民就地  
种子选育和共享网络



2014北京工作坊  
WORKSHOP



山地社区倡议  
MCI



《种子法》修订倡议  
SEED LAW PROPOSAL

## 种子网络简报 VOL.1



### 关于我们

中国具有悠久的农耕文明，而农民的种子系统则是维系农耕文明的根基。丰富的农家种滋养了农业生物的多样性，为人类生存提供了根本保障。然而，现代以“资本主义全球化”和工业化对小农的种子系统造成了巨大的冲击。在此背景下，为了发挥农民及其合作组织的力量来恢复就地种子选育和知识共享的有效机制，同时保护农民的种子权益并维护国家的种子主权，全国农民就地种子选育和共享网络（以下简称“种子网络”）于2013年12月正式成立。种子网络的主要发起机构有：中国科学院农业政策研究中心、北京农业远郊乡村建设中心以及第一世界网络。

### 我们的愿景

- 种子分享
- 知识共享
- 多方参与
- 接力改良



# IPCCA linking to Ecosystem-based adaptation (EbA) projects for joint actions and informing policies

**Community level:** IPCCA and MCI networks, Seed park in stone village, farmer seed network in China,

**Provincial/regional level:** National and regional CCA strategy and Plan via CAS partners in Yunnan, CSA Tibetan Institute, Botanic Research Institute

**National/international Level:** Working with UNEP office in CAS on Climate Change using EbA in China through Dr. Linxiu Zhang (CCAP), Dr. Jian Liu (UNEP), and TWN  
In other neighboring Asian countries .