



NTFP's Contribution to Pro-Poor, Green Growth

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From Bamboo to Collective Action

- Bamboo – Lin'an case study
- INBAR – NTFPs
- Why diversity?
- Why collective action?
- How collective action ?
- Towards pro-poor, green growth





BAMBOO

- > 1200 Species
- Tropics & sub-tropics
- Smallholder & plantation 'crop'
- Alternative for timber
- High innovation potential

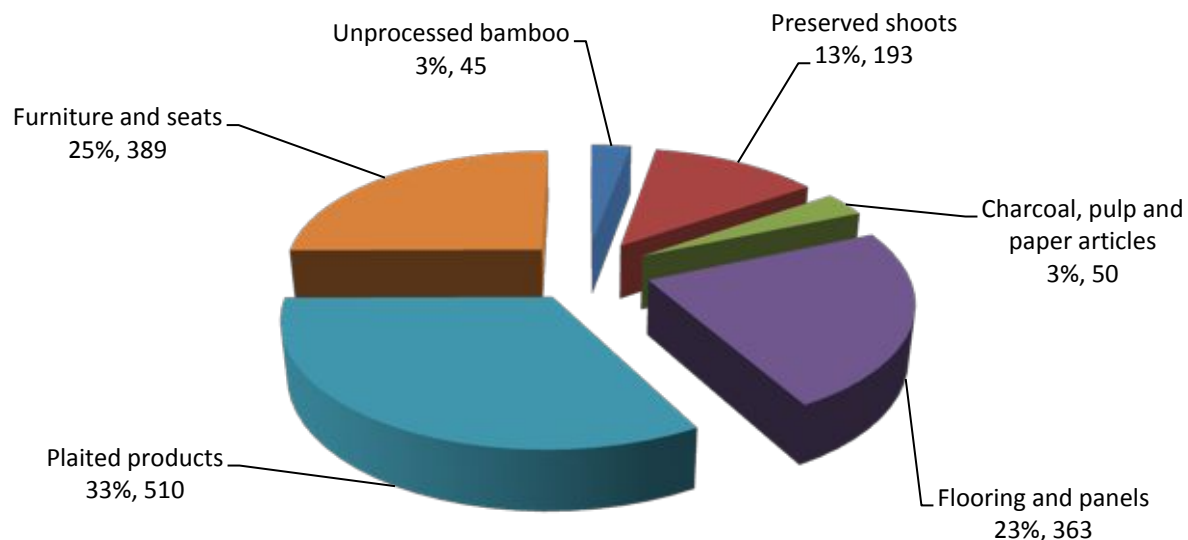


Some important bamboo species

Species	Area	Use
<i>Bambusa vulgaris</i>	Tropics	Construction, medicine, shoots
<i>Chusquea culeou</i>	S America	Furniture, handicrafts, construction
<i>Dendrocalamus asper</i>	(Sub-)Tropics	Construction, pulp, shoots
<i>Dendrocalamus giganteus</i>	(Sub-)Tropics	Construction, pulp, shoots
<i>Guadua angustifolia</i>	S & C America	Construction, furniture, handicrafts
<i>Melocanna bacifera</i>	SE Asia	Construction, shoots
<i>Oxytenanthera abyssinica</i>	Africa	Construction, handicrafts, shoots
<i>Phyllostachys edulis</i>	China	Industrial products, shoots
<i>Yushania alpina</i>	E Africa	Construction, weaving, furniture



Global Trade



- Most trade within Asia, within Europe, and between Asia and Europe and N America
- China and Vietnam main exporters
- EU, USA and Japan main importers



Trade in China

- Bamboo industry output increased from 2.5 in 2000 to 14 bln USD in 2008
- Export increased from 0.3 in 1992 to 1.4 bln USD in 2008
- Annual growth 18%



Zhejiang-Lin'an, China



Mid-elevation: Bamboo and mixed forests

Rice and other agricultural crops

Approach of the research consortium & county government:



1. Scientific planning
2. Protection, rehabilitation and reconstruction of the local ecosystems
3. Developing environment friendly products/enterprises
4. Participatory decision making
5. Disclosure of rural areas
6. Development and implementation of supportive policies



Impact

Indicator	1980	1990	2000	2009
Total population	450,200	494,000	512,000	526,000
Rural population	414,500	444,000	429,000	416,000
Per capita GDP (USD)	300	400	1,600	6,500
Poverty index	60	40	5	benefits
Forest area (1000 ha)	n/a	117	121	140
Bamboo forests (1000 ha)	n/a	36	56	65
Bamboo value (mln USD)	n/a	15	90	404
Bamboo value (mln RMB)	n/a	72.2	750	2,760
Nature reserves (ha)	n/a	1,899	4,626	7,994
Paved roads rural areas (%)	n/a	70	99.5	100
Washing machines (/100 rhh)	0*	12	52	88
Cell phones (/100 rhh)	n/a	n/a	18	204

Notes: n/a – not available; benefits – local government provides benefits to poor people; * - 1982; rhh – rural households

- INBAR established in 1997 in China as a global intergovernmental organization
- Mission: Mobilize Bamboo & Rattan for sustainable development
- Regional offices in
 - India
 - Ghana
 - Ethiopia
 - Ecuador



- Bamboo and Rattan leading Non Timber Forest Products (NTFPs)
- In 2004-5 start of a NTFP network
- Official start in Dec 2005, Marrakech
- GFAR Global Partnership Programme in 2006
- Supported by GFAR, IFAD, CIM
- Coordinator in New Delhi, India



Why diversity ?

- Bamboo and rattan, NTFPs are rarely the only crop/source of income for INBAR stakeholders
- Bamboo and rattan, NTFPs, represent
 - Food
 - Fuel, farm & kitchen implements
 - Cash crops
- Bamboo and rattan, NTFPs, are part of a managed ecosystem
 - Climate Change mitigation
 - Climate Change adaptation

Collective action ?

Yes!

- Bamboo and rattan are big NTFPs, but not big enough to attract research investments like the big staples
- It is more efficient to adapt lessons learned, than to re-invent wheels
- Collective action creates powerful alliances

No...

- Managing collective action is a headache.....

How Collective Action?

The principle of 3 Equal Thirds



- 1. Creating engagement & Planning:** an imperative for collective action
- 2. Actual Research:** collective research, eg system research, sentinel sites, sentinel crops
- 3. Implementation, M&E:** proof of application, impact pathways, capacity building



Development Opportunity in Diversity Initiative

The 3 Pillars



Food security,
nutrition and
health



Source of income



Resilience of
farming systems
and environmental
services

The International Network for Bamboo and Rattan



DOCNet: Combining 3 Pillars with 3 Equal Thirds



Food security,
nutrition and
health



Source of income



Resilience of
farming systems
and
environmental
service

ENGAGEMENT, ACTUAL RESEARCH, IMPLEMENTATION

The International Network for Bamboo and Rattan





Making Diversity Work for Pro-Poor, Green Growth

Thank you for your attention

