Conservation and Sustainable Use of Cultivated and Wild Tropical Fruit Diversity: Promoting Sustainable Livelihood, Food Security and Ecosystem Services

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Bioversity International, Hyderabad, India
15 October 2012

Prepared for the Side event on Strategic plan 2011-2020: Sustainable use of agricultural biodiversity at the CBD COP11 meeting
Outline

• Purpose
• Conservation context and threats/barriers
• Challenges
• Overview of the project
• Concept and principles of CBM method
• Practices and lessons from a case study-GEF UNEP TFT Project
• Take home message
**Context:** Diverse production systems conserving tree genetic resources!

1. Natural forest systems-wild species
2. Buffer zones in protected forests
3. Community forest
4. Home gardens
5. Semi-commercial orchards
6. Commercial orchards
7. Field gene banks

*Tropical Fruit Tree Diversity*
Is there any way out?

Community

- Diversity conserved
- Livelihood
- On-farm Conservation

Pre-conditions

Empowerment Incentive

CBM

A method to realize on-farm conservation

CBM is a good practice for empowering community
How to intervene in community? Community-based biodiversity management (CBM) method

1. Site & community selection
2. Understanding the local context
3. Raising awareness
4. Institutional modalities
5. Capacities & skills
6. Develop & implement action plan
7. Mobilize CBM fund
8. “Let local lead to drive the CBM process”

Principles
1: Build upon local innovations, practices & resources
2: Diversifying biodiversity-based livelihood options
3: A platform social learning and collective action
4: Let local lead
5: Sustainability

Knowledge
Practice
Institution
Case study: GEF UNEP Tropical fruit tree diversity project in Asia

Study sites (4 countries; 22 sites; 36 communities; 15,000 HHs)
On farm diversity assessment
Species richness of Garcinia in India

*Garcinia indica* (Thouars) Choisy.

*G. gummi-gutta* L. Robson

*G. morella* (Gaertn.) Desr.

*G. xanthochymus* Hook. F

*G. talboti* Raizada ex Sant.

(Source: Vasudeva et al., 2010)
1. Orchard diversity
Participatory extent and distribution analysis

Social learning platform: Empowering community for setting development and conservation agenda

Many trees

common

Few trees

Endangered

Few HH

Many HH

Many trees

(Source: Vasudeva, 2010)
1. Documentation of local appe varieties of aromatic pickle-mango in India

(Source: Vasudeva, 2011)