

High-Value Agriculture in Southern and Eastern Africa

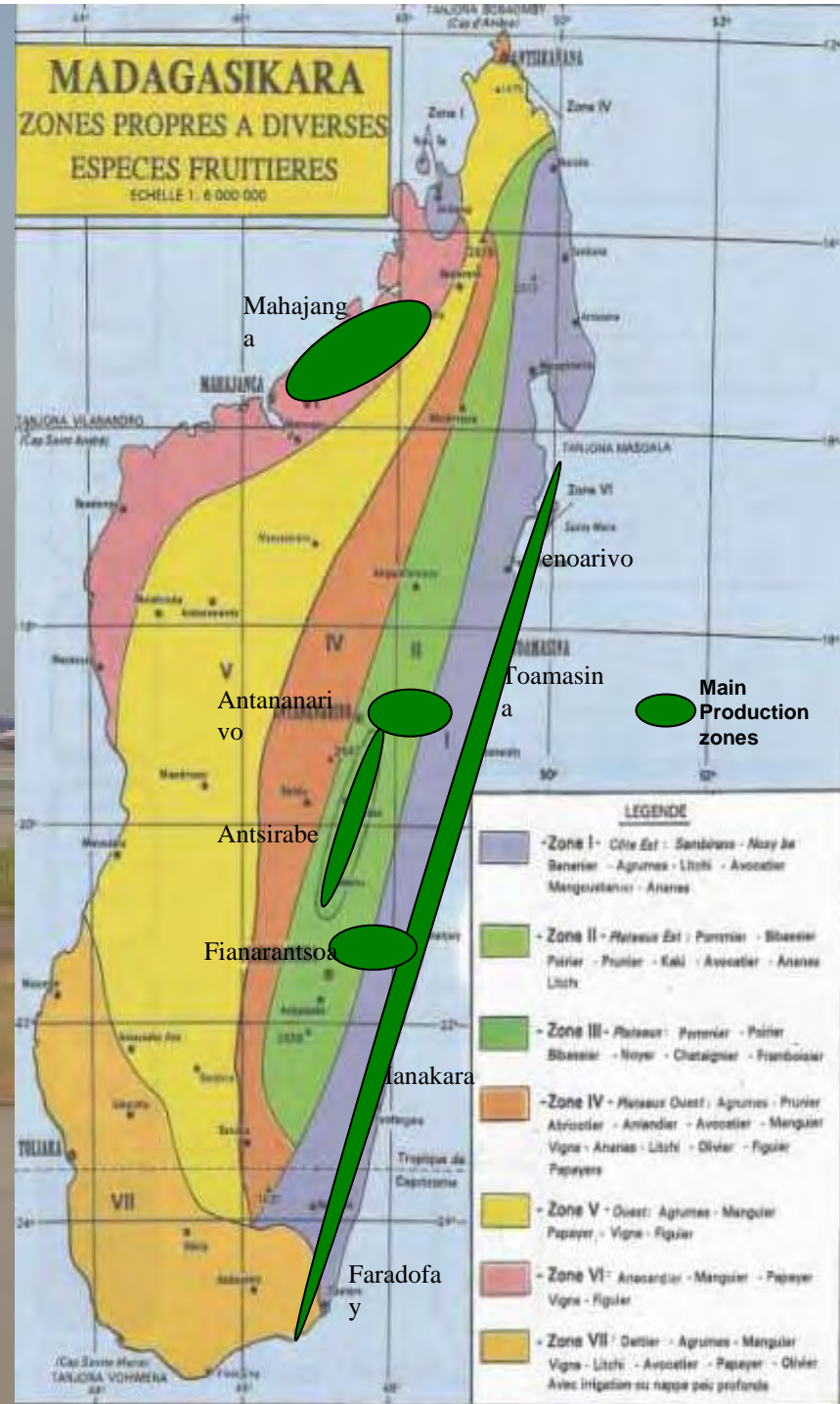


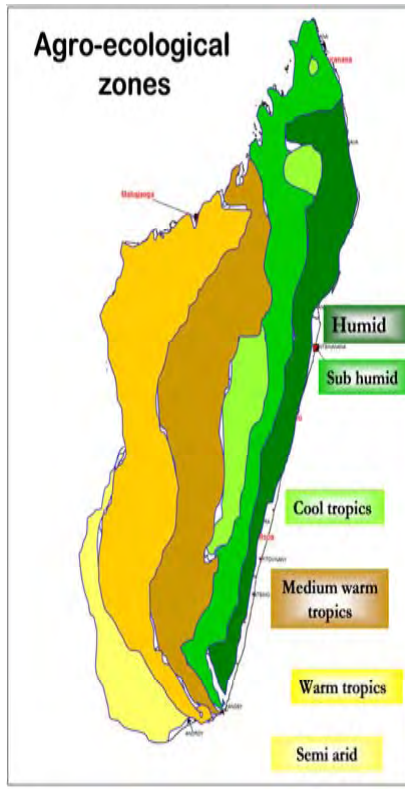
**Post Harvest and Transport Technologies:
Reducing Losses and Improving Quality in
Fruits & Vegetables in Madagascar**

22 June 2010

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Horticulture in Madagascar

- Diverse ecological zones and biodiversity
- Several species of fruit plants
- and vegetables
- Few private investors for large commercial farms
- Small scale producers over the country



- Supply issues on quality, quantity, regularity, price

Post harvest issues

- Affected by crop quality (seed quality – diseases & pests)



- by maturity at harvest, harvest management and transport



- Limited cooling chain => night transport for early open market & long distance transport



- Development of sun drying, processing in jams, juice, vinegar by informal small enterprises



- Professional Enterprises process and/or export
- CTHT supports on post harvest processing



Transport organization

Transportation

- Personal head in rural area
- Rickshaw in rural and town
- ATT for local transport
 - Public transport for sub urban
 - Trucks for long distance
 - Train in South part
- ACM for air transport
 - Flight freight competitiveness
- APMF for sea transport
 - Boats in Pangalane channel
 - Ships owners and frequency



Horticultural Market issues

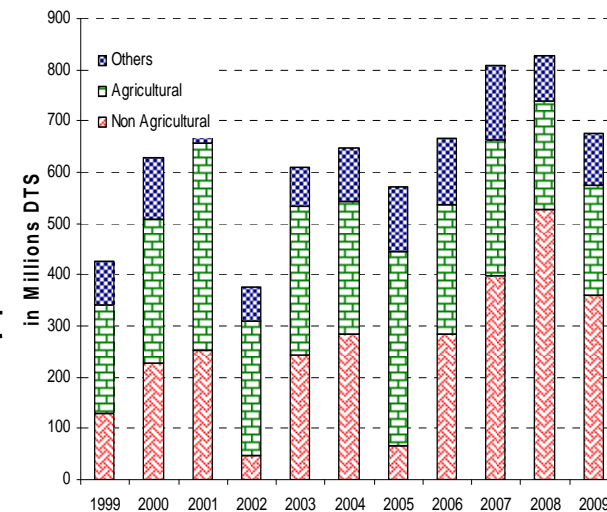
- **National level**
 - Quality and Sanitation not committed => rejected by supermarket
 - Losses due to Transport increased
 - Informal market developed
 - Farmer organization to be enhanced
 - Market price fluctuated
 - Informal processing and packaging no controlled



Horticultural Market issues

- **Regional & International level**
 - Part of litchi export (20,000t/year) 50% of total exports
 - 25 societies exporters
 - Lack of Cooling chain
 - Quantity, quality and regularity not committed
 - Price competitiveness
 - Freight cost non competitive

Figure 3: Export trends



Management of the issues raised by the Post Harvest and Transport

- UPFL : Fruits and Vegetables National Network from diverse platform (litchi, apple, onion) linking with PROFEL (Promotion of Fruits & Vegetables)
- Litchi platform initiated by CTHT supported by EU
- Vegetable program supported by AVRDC
- Community Based Organization capacity building supported by many NGOs and Agriculture Service Center
- Small processing enterprises supported by FAO, ONUDI, PROSPERER...
- Cooling chain and transport program

On-going strategy of the Post Harvest and Transport



Based on the opportunities,

- Enhance Quantity, Quality and Regularity of market supply
- Develop more diversified crops to meet the market
- Encourage the emergence of medium processing enterprises
- Develop cooling chain system, packaging and appropriate transport for perishable products
- Sharing market information from coordinated and managed database (SIEL)
- Enhance existing platform organization (UPFL, litchi, onion, apple...) to join regional network