# **Transaction Costs in Agriculture Markets**

A case-study analysis of the production and sale of produce at the Dambulla Dedicated Economic Centre (DDEC)



### **Transaction Costs**

Cost of information and/or cost of facilitating a transaction

- "The costs that arise when individuals exchange ownership rights for economic assets and enforce their exclusive rights" , Eggertson (1990:15)
- □ Transaction costs can be classified into observable and unobservable or inhibitive transaction costs (Staal, Delgado and Nicholson, 1997 and Delgado, 1995).
  - Observable transaction costs observable when a transaction takes place
    - Include marketing costs such as transport, handling, packaging, storage, spoilage etc.
  - Unobservable transaction costs not observable when a transaction takes place
    - include cost of information search, bargaining, screening, monitoring, co-ordination, enforcement

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### Our focus

# Opportunity cost of information asymmetry (OCIA)

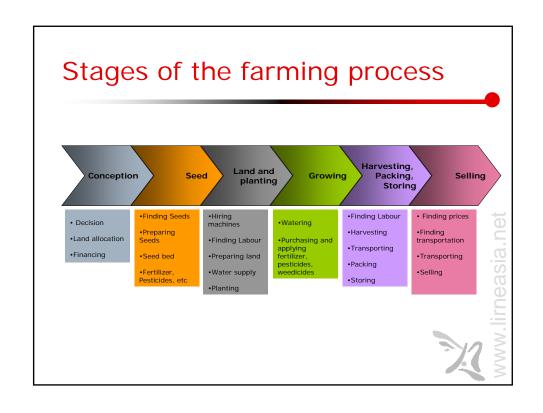
□ i.e. costs that could have been avoided/reduced if accurate and timely information was available

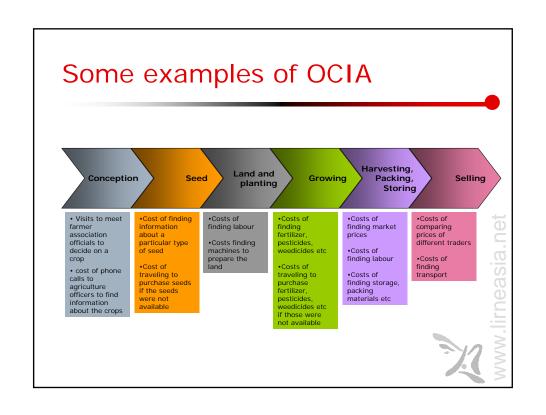
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### What we did - quantify OCIA

□ Estimate the opportunity cost of information asymmetry (OCIA) in agriculture markets via a case-study analysis of the production and sale of produce at the Dambulla Dedicated Economic Centre (DDEC)- largest whole-sale market for vegetables in Sri Lanka





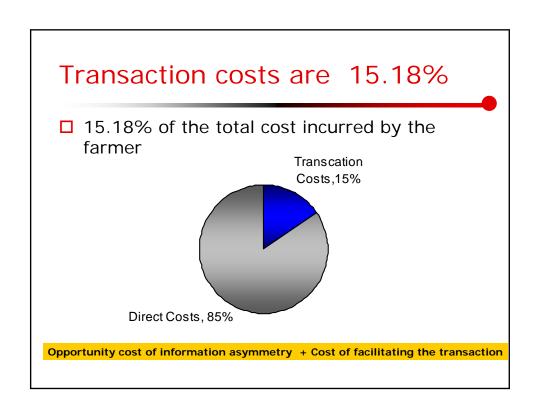


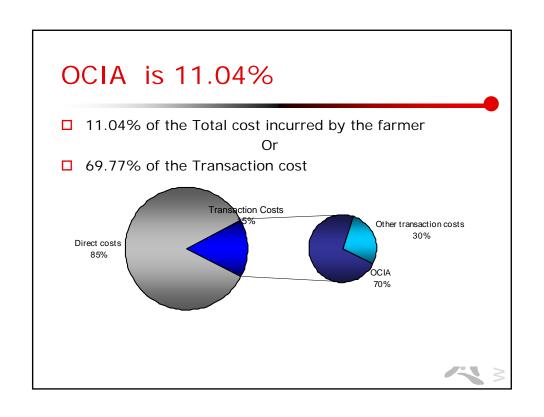
### How we did it – a sample survey

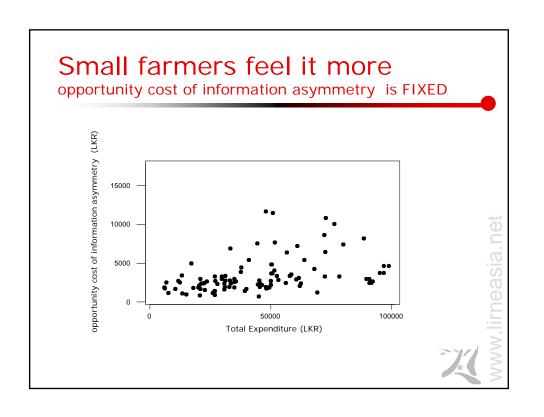
- □ Random Selection of 10 farmer associations out of 122 farmer associations in Matale District who sell their produce at Dambulla DDFC.
- □ 30 farmers from each farmer association
- ☐ Sampling Error 5.41% (for 315 farmers out of approximately 8000 farmers)
- ☐ Use of a structured questionnaire
  - questions relating to the entire farming process starting from the point of decision to grow the crop to the point of selling and receiving money

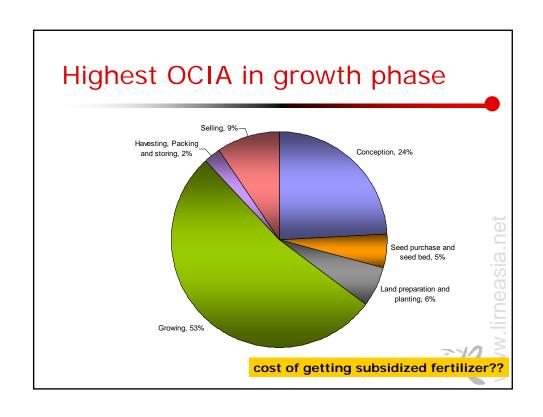


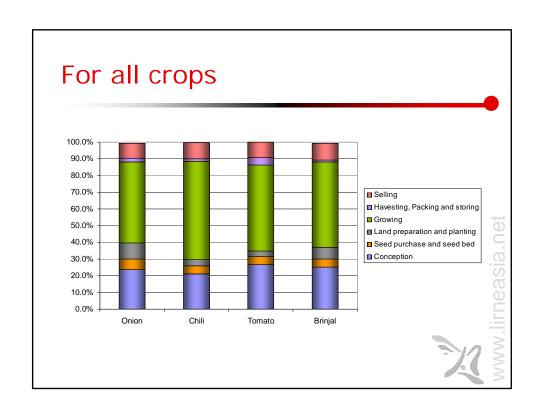
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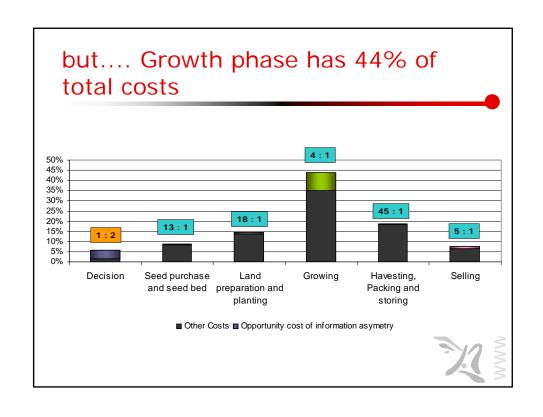


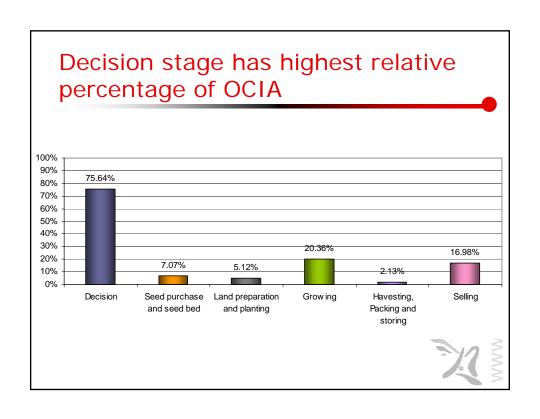












### Use of phones



## Farmers hardly use phones to find information

- ☐ Cost of phone calls is only 0.21% of OCIA
- ☐ or they travel to find information
  - The average cost of traveling = LKR 195 per visit
  - Average number of visits = 24
  - Average cost of traveling = LKR 4,680



### What if they used the phone more?

- ☐ Current almost 0% use of ICTs
  - Average Cost of traveling to the town – LKR 195
  - Total average transaction cost – LKR 4,680
  - Number of visits = 24
  - Total average opportunity cost of information asymmetry – LKR 5,571

- ☐ If ICT use is increased to 50%
  - Assumption : Average cost of a phone call LKR 40
  - 12 Phone calls & 12 visits
  - Total average opportunity cost of information asymmetry – LKR 3,714

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