

Post-harvest Loss and Sustainable Development

Steve Sonka, Director June 13, 2012



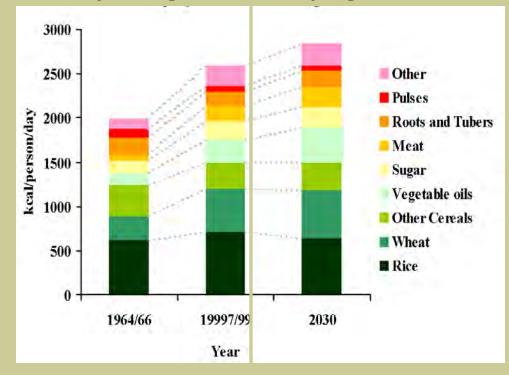
ADM Institute for the Prevention of Postharvest Loss

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN



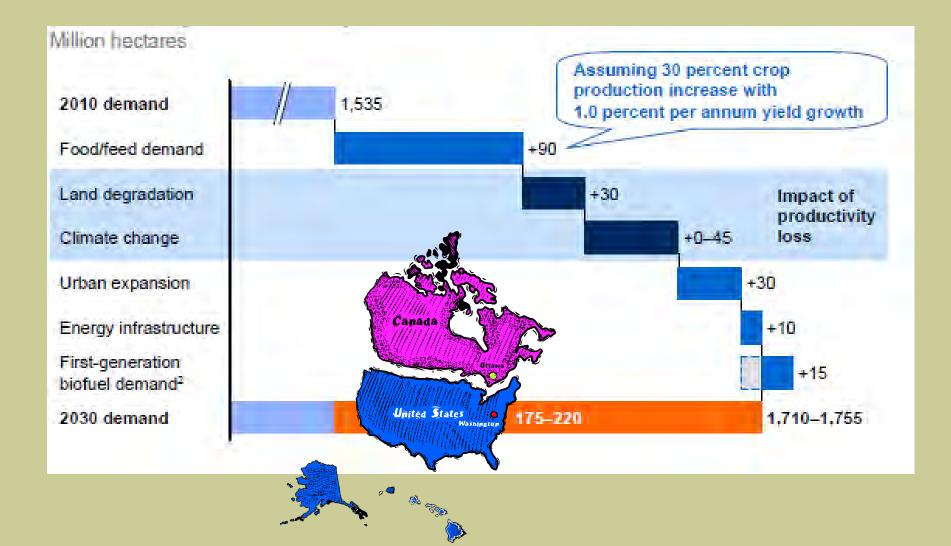
- Food security/sustainable development challenges
- The "complexities" of post-harvest loss (PHL)
- PHL, agribusiness and development

Global Food Demand Is Predicted to Increase 70% by 2050 (FAO; 2009)

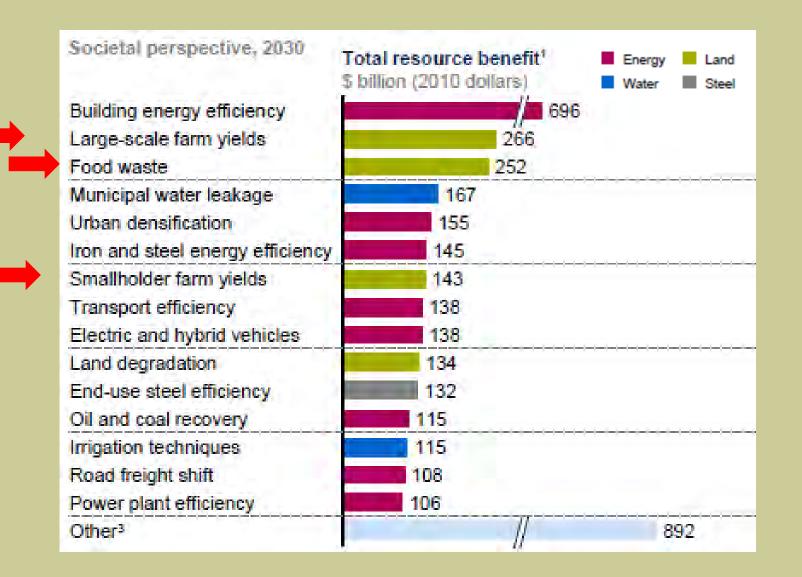


Dietary changes in developing countries

2030 Food Demands Require About 200 Million More Hectares (McKinsey; 2011)



Reducing PHL and Increasing Yields Have High Potential (McKinsey; 2011)





- Estimates suggest 1/3 of agricultural production is "wasted" and doesn't reach food consumer
- Investment required to reduce PHL could be modest
- Technology advances should make reduction more feasible and less expensive
- Arable land, water, energy is in limited supply reducing PHL can lessen pressure on scarce resources

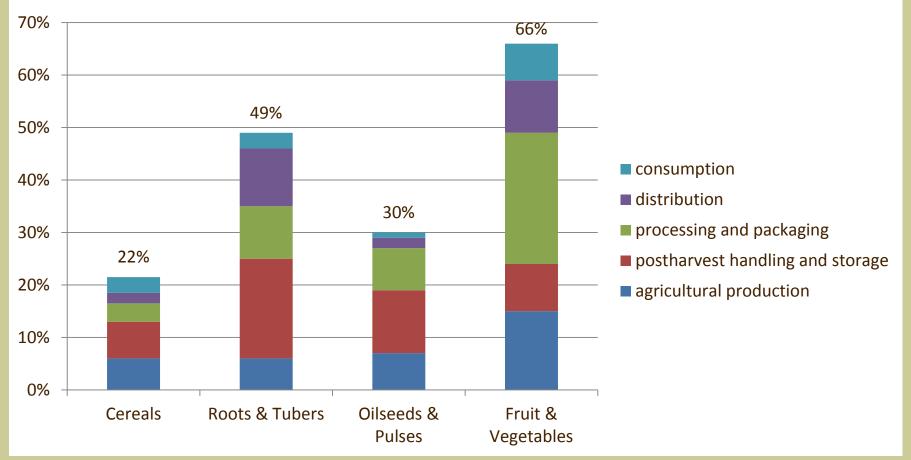


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- X

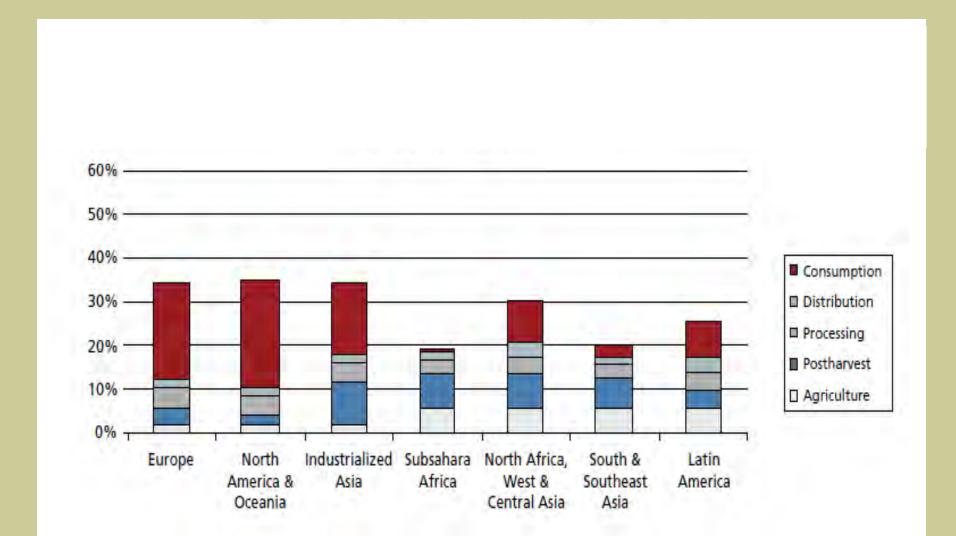
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Post-harvest loss estimates in South & Southeast Asia









In SE Asia, physical losses range from 15-25%.

Consumptic



Quality losses range from 10-30% (loss in value)





- PHL in grains is 18% (2% 5% in storage) (1992)
- PHL in storage in villages is 8% to 10% (farmer storage is primarily through traditional methods) (2006)
- PHL higher in fruits & vegetables (2003)
 - Fruits; 20% to 25%
 - Vegetables: 30%
- PHL of rice in total exceeds 14%



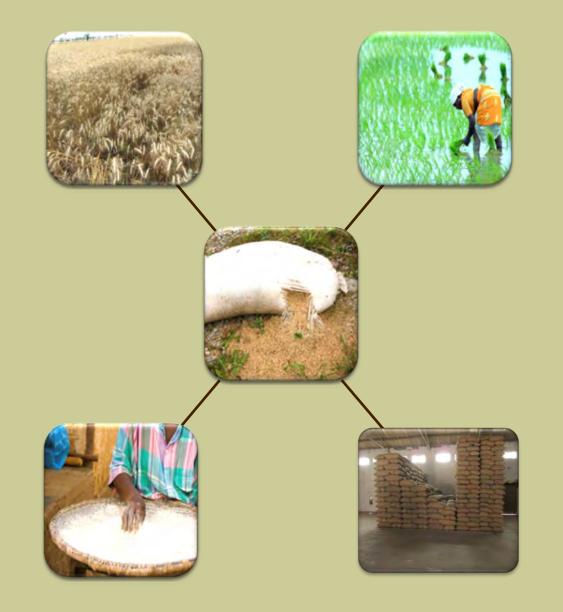
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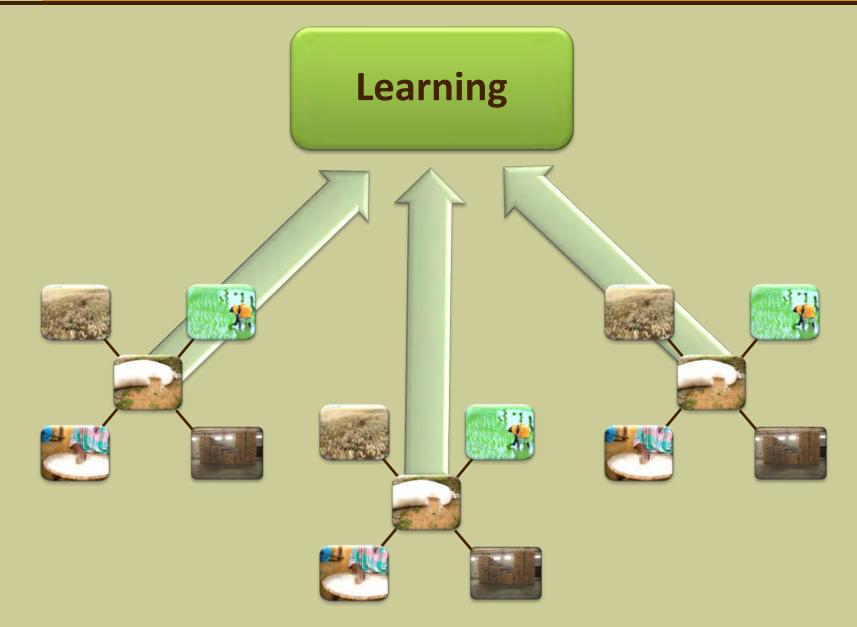


Reducing PHL is a LOCAL Activity

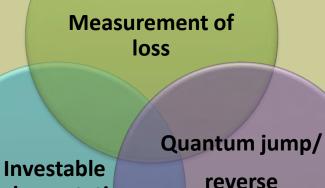




"Organizational" Learning is Required for Broader Progress to Occur







implementation framework reverse innovation technologies



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