ISSUES AND SOLUTIONS OF FRESH FRUITS EXPORTS IN INDONESIA



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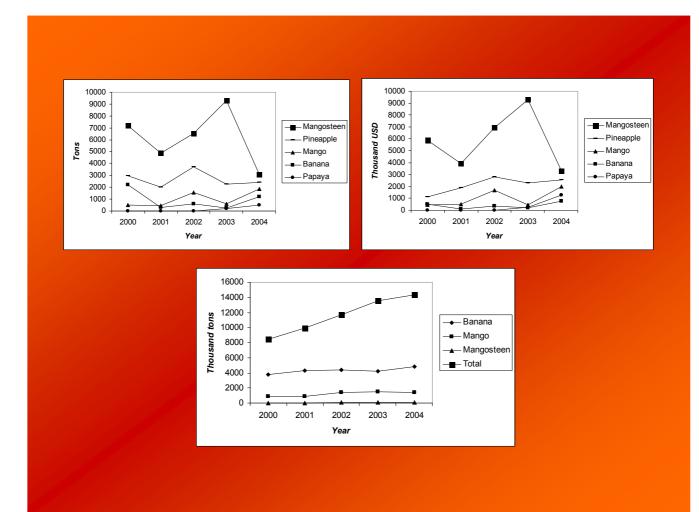


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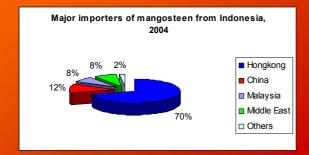
International Seminar on Enhancing Competitiveness of Asian Fruits Bangkok, Thailand, 18-19 May 2006

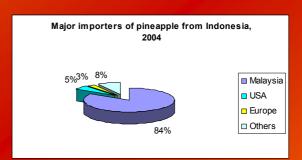
INTRODUCTION

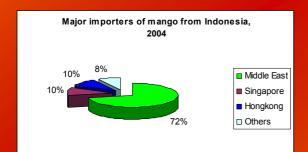
- □ Indonesian exports of fresh fruits have been fluctuating, whilst the fruit production remained relatively stable.
- ☐ Major fresh fruit exports are mangoesteen, pineapple, mango, banana, and papaya.
- ☐ Total export value is less than 1 % world share market and about 10 % out of the total volume of production.
- ☐ Major importing countries are Hongkong for mangoesteen, Malaysia for pineapple, and Middle East for mango and banana.

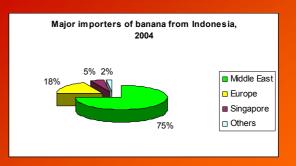


MAJOR IMPORTING COUNTRIES FOR INDONESIAN FRESH FRUITS EXPORTS









ISSUES

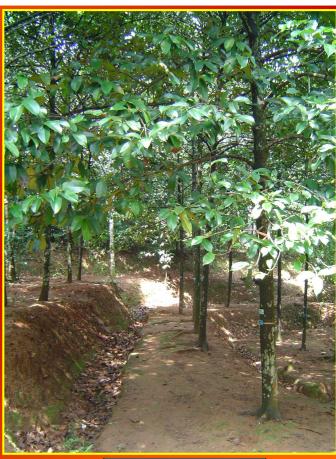
□ Competition with domestic fruit market for the price of prime quality and total demand.
 □ Requirement of intensive effort for introducing and adoption of good practices due to more small-scale growers.
 □ Lack of integrated system to meet increasing hi quality and food safety standard of importing countries.
 □ Driven to choose either supplying the export market or the domestic one.

STRENGTHENING INST. INVOLVED IN FRUIT DEVELOPMENT

- ☐ Foundation of CETROFS (Center for Tropical Fruits Studies) since 1997, stationed at IPB, sponsored by Min. Res. & Technol.
- ☐ Improved agricultural practices of mangoesteen small scale growers increasing the export quality from 5 % to 40 % of production.
- ☐ International cooperations to implement GAP such as the project of Integrated Horticultural Development in Upland Area sponsored by JICA



Before improvement

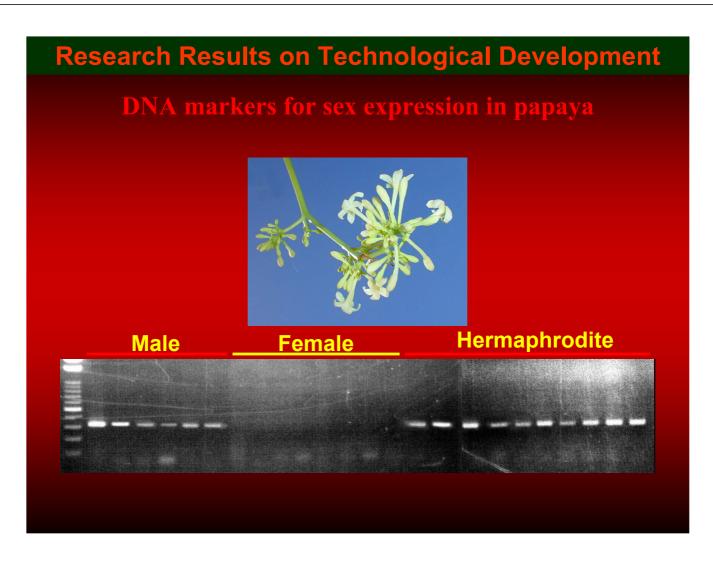


After improvement

DEVELOPMENT OF NEW HYBRID VARIETIES

- □ New hybrid varieties has been released for mangoesteen, pineapple, papaya, banana and melon.
- ☐ Germ plasms have been collected : 61 pineapple genotypes, 75 papaya, and 230 banana.
- ☐ Genetic markers for some fruit varieties have been determined.





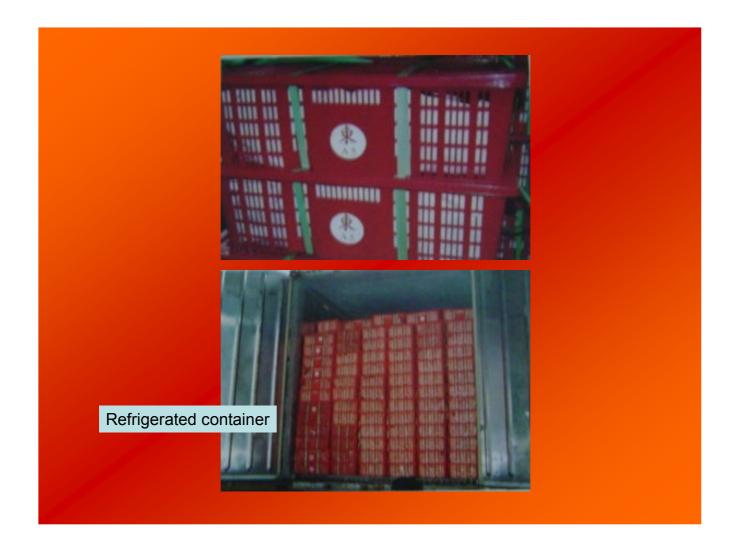
SUPPLY CHAIN & COLD CHAIN DISTRIBUTION SYSTEM

- ☐ Construction of packing houses at the prod. center and sub-terminal agribusiness at district cities.
- ☐ Implementing cold chain distribution system from the growers to exporters.
- ☐ Improving sea-freight handling at the inter island connection.
- ☐ Introducing CA and MAS for sea-freight to importing countries.





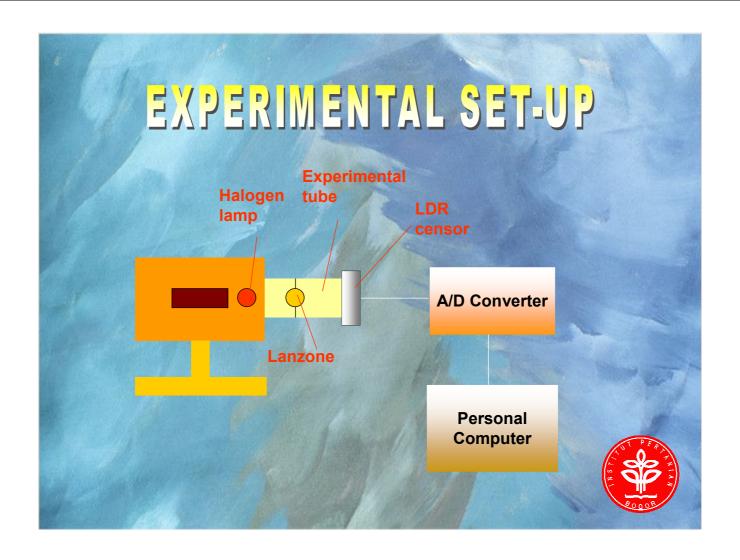


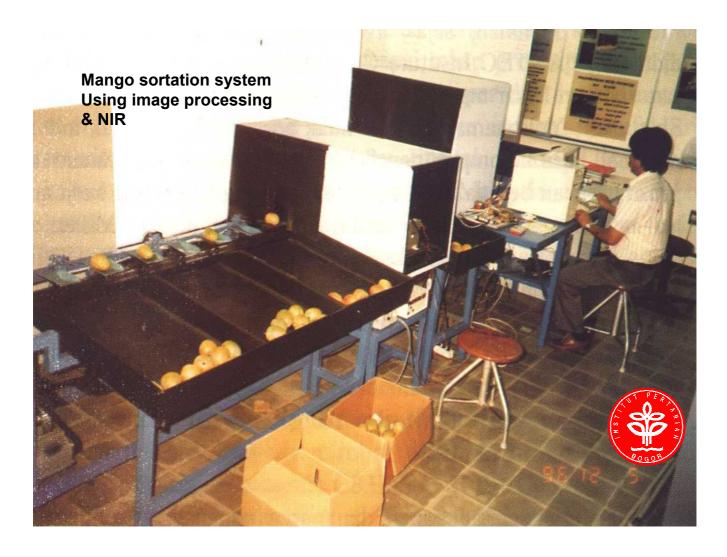


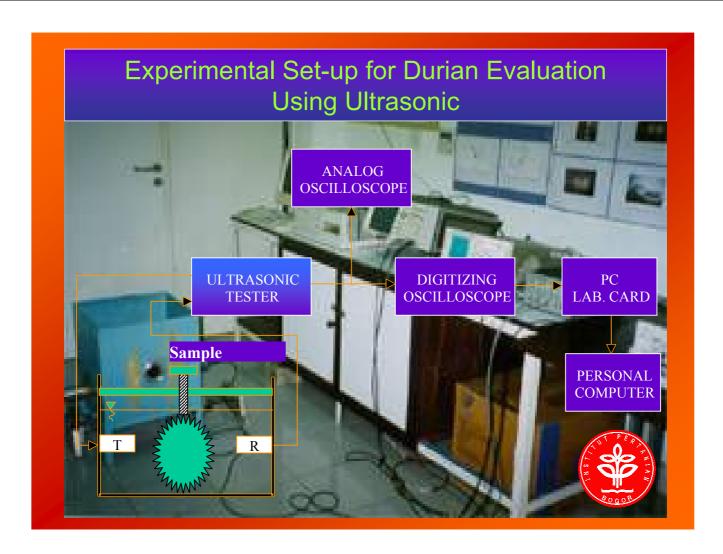
RESEARCH AND DEVELOPMENT: NON-DESTRUCTIVE QUALITY EVALUATION

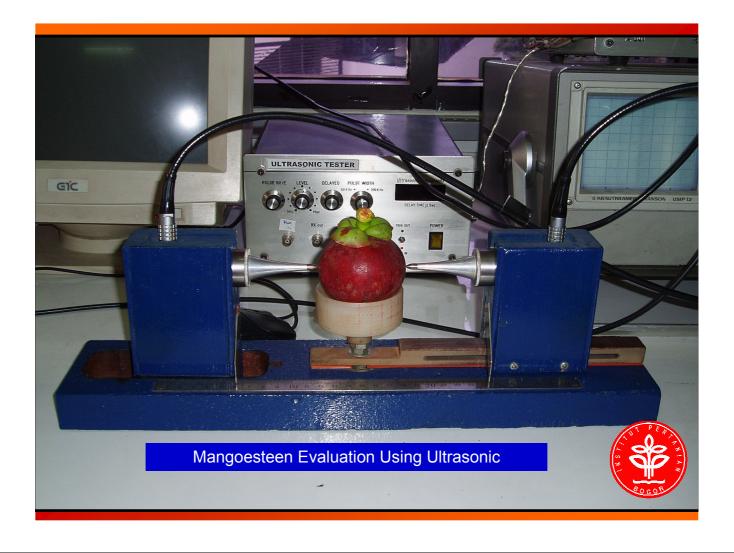
- ☐ Grading of lanzone to separate seedless fruits using visible light.
- ☐ Grading of mango by color using image processing and by taste using NIR reflectance.
- □ Evaluating the maturity and ripeness of durian using ultrasonic method.
- ☐ Detecting maturity, ripeness, and defects of mangoesteen using ultrasonic.











RECOMMENDATIONS

- □ R & D cooperations should be established thru APCAEM network.
- ☐ Development of certification system for standard export quality & food safety supported by own lab. in each APCAEM member which is recognized by all.
- ☐ Available website concerning updated market info & consumer preferences of each APCAEM member.
- ☐ Networking of assoc. of fruit growers & exporters.



