Post-harvest Cold Chain
R&D

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Introduction

• Importance of post-harvest cooling for preservation of post-harvest fruit quality

(Hardenburg et al., 1986)
Condensation on fruit
What could go wrong if gaps are not managed in the Cold Chain?
Chilling Injury on PE and NE

Lurie & Crisosto, 2005
Stem dehydration and browning
SO2 damage/bleaching
Supply Chain - PPECB Involvement
2...TYPICAL LOGISTICS OPERATION

your passport to international trade
R&D projects

- Delivery
- Air Temperature
- Vertical airflow
- T-bar Floor
- Delivery Air Temperature
- Vertical airflow

your passport to international trade
Pulp temperature distribution in 40’ reefer container

(Ngcobo et al., 2007)
HAF technology
Current projects

• Possibility of shipping Fynbos via sea freight
• Development of pomegranate post-harvest handling protocols and shipping recipe’s
• Alternative methodology within the cold chain – audit based approach
Communication Plan

- Publications in scientific journals
- Publications in fruit journals
- Presentations in national and international symposia
- Presentation in industry workshops
- Participation in TES
THANK YOU