



# Project 3 Innovative packaging, packing, transport solutions

The objective is to ensure that fruit can be moved from the tree to the consumer with:

- velocity by air freight and in such a way that fruit is of unrelenting and unquestioned quality
- maximum efficiency
- the consumers' needs in mind

3.1 transport and logistics systems

3.2 innovative packaging

3.3 innovative packing systems

3.4 in market logistics systems



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## 3.1 Transport and logistics systems

- will analyse current industry practices and develop an understanding of the future options for best use of air and sea freight;
  - to handle projected increases in crop volume
  - to the highest quality and
  - to a range of countries.
- industry trials will be carried out to optimise new systems.

Activities	Milestones	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
<b>3.1</b>	<b>Transport and logistics systems</b>							
	3.1.1	Current industry practices and gap analysis	✓	✓				
	3.1.2	Option analysis for logistics to range of countries		✓	✓			
	3.1.3	Trials for optimising new systems			✓	✓	✓	✓



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## 3.2 Innovative packaging

- will carry out design and trial studies on:
  - innovative packaging for direct to consumer marketing
  - reduction of wasted space to maximise available freight options
  - sustainable packaging
- will design new packaging, large scale industry trials will be carried out in cooperation with programme partners.

Closely aligns with: 1.5 Packaging requirements

3.3 Innovative packing systems

Activities	Milestones	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
<b>3.2 Innovative packaging</b>								
3.2.1	Study of consumer requirements	✓	✓					
3.2.2	New systems design		✓	✓				
3.2.3	Industry trials			✓	✓	✓	✓	✓



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## 3.3 Innovative packing systems

- will focus on analysing the requirements and the development of innovative handling and packaging technologies
- The following will need to be considered:
  - new high performance orchards have trees that are smaller and in configurations that are more amenable to robotics, thus speeding up orchard activities
  - robotic systems in packhouses
  - new systems will be designed, and industry trials carried out.
  - investigate the viability of one-touch packing systems designed specifically to minimise handling of the fruit in the market and promote quality.

Activities	Milestones	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
<b>3.3</b>	<b>Innovative packing systems</b>							
	3.3.1	Current industry practices and gap analysis	✓	✓				
	3.3.2	New systems design		✓	✓			
	3.3.3	Industry trials			✓	✓	✓	✓



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## 3.4 In market logistics systems

- will develop an understanding of internal systems and limitations within markets for prioritised markets and fruits
- will conduct in market analysis of priority markets
- will design new systems and industry trials carried out
- the investment in activity 3.3 will need a corresponding investment into the logistics in our key markets.
- exporters, packhouses and freight forwarders will be involved in the trials and analysis

Closely aligns with: 3.3 Innovative packing systems

Activities	Milestones	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
<b>3.4 In market logistics systems</b>								
3.4.1	Study of in market systems for prioritised markets and fruits	✓	✓	✓				
3.4.2	New systems design		✓	✓				
3.4.3	Industry trials			✓	✓	✓	✓	✓



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## Outputs

- Leading innovations in transport, packaging and packing.
- Investment into development of sustainable packaging that maximises freight space.
- Industry adoption trials and practices.
- Smart consumer ready packaging developed.
- Key information on changes in supply chain logistics shared.
- Direct delivery of high volumes of high quality fruit delivered to new markets and consumers with velocity.

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
Budget(000)	\$255	\$322	\$473	\$649	\$585	\$598	\$617
	Total overall budget (000)						\$3,500