

**Carpenters Project Update** 

CARPENTERS

**BEEDELUP** 

22 JUNE 2020

### Carpenters Project Metrics



The Carpenters Project is a **300-hectare avocado development** located in the premium horticultural region of Pemberton, Western Australia. The property is a **former blue gum plantation**, with trees being harvested as the land is **repositioned into horticulture**.

The development has **significant water** capture and storage capacity. Department of Primary Industries and Regional Development estimates 7.5 megalitres of water per hectare is required to produce avocados in Pemberton<sup>1</sup>.

Property Location	Carpenters Beedelup, WA	
Property Size	500 hectares	
Plantable Area	300 hectares	
Annual Rainfall	1,000 mm	
Water Licences - Surface	3,000 megalitres	
Scheme Water Access	Southern Forest Irrigation Scheme once developed	
Spring Water	Various springs on property for capturing water	
Casuarina Water	Access to 500 megalitres p.a. secured from adjoining Casuarina property	
Potential Water Storage Capacity	Up to 7.2 gigalitres (7,200 megalitres)  Dam 1 – up to 5.4 gigalitres  Dam 2 – up to 1.8 gigalitres	
Peak water requirements for avocados - Year 10	7.5 megalitres per hectare per annum <sup>1</sup> Est. 2.25 gigalitres per annum for 300 hectares of mature avocados	
Power	3-phase connected to property and both dam sites	
Soil Types	Deep karri loams	
Existing Infrastructure	Excellent internal roads. Adjoining neighbouring "Casuarina" property has extensive infrastructure and mature apple orchards	
Access	3 entry / exit points on property	

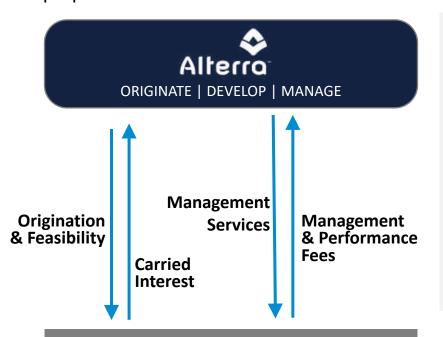


Source: 1) "Growing Avocados – Annual Water Requirements | Agriculture And Food". *Agric.Wa.Gov.Au*, 2020, https://www.agric.wa.gov.au/water-management/growing-avocados-%E2%80%93-annual-water-requirements. Accessed 20 June 2020.

#### **Investment Structure**



Alterra has originated the Carpenters Project, with SPV Carpenters Beedelup Pty Ltd (**CBPL**) entering into a 50 year lease for the land and water. In the 10 weeks since gaining access to the property, Alterra has advanced the an asset and cost optimisation study, completed site investigations, mobilised contractors and started preparation for first 100 hectares.



#### Alterra:

- Is undertaking an asset and cost optimisation study prior to investment by development capital partners
- Provides management services to CBPL at all stages of asset lifecycle
- Earns management fees from CBPL to develop the asset upon securing development capital
- Co-invests in CBPL alongside development capital partners
- Earns management and performance fees from CBPL to manage and operate the asset

Carpenters Beedelup Pty Ltd

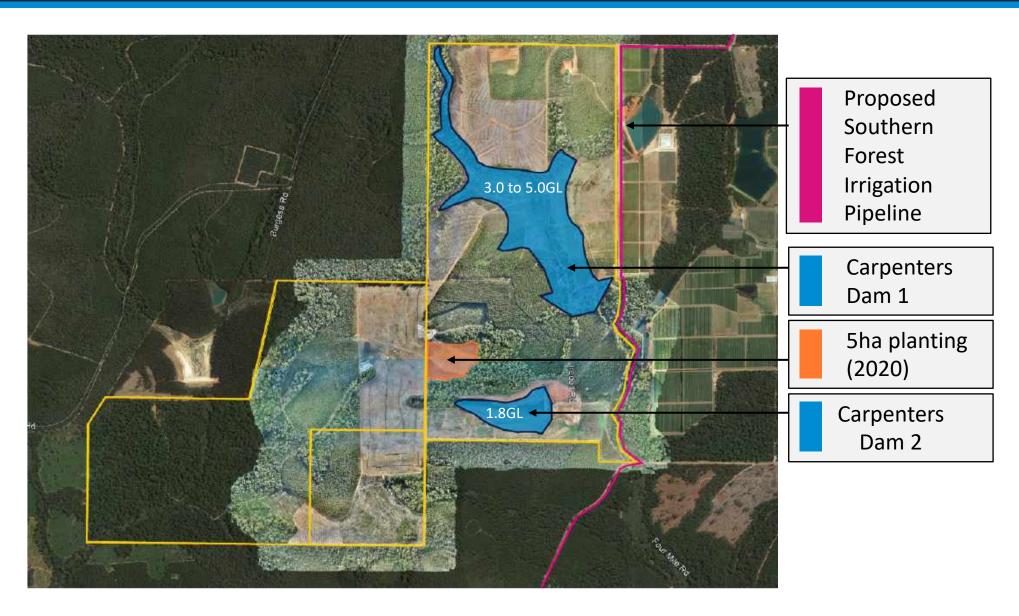
Land Lease | Tree Crop | Irrigation Infrastructure | Farm Revenues

**Development Capital Partners** 

**Alterra Co-Investment** 

# Significant On-Farm Water Capture and Storage Potential





# Water Infrastructure Development





#### **Carpenters Water Assets Overview**

- Approvals for construction of Dam 1 3.0GL
- Potential additional Dam 2 1.8GL
- Site investigation showing an additional 2.4GL potential at Dam 1
- Multiple locations for water storage sites on property
- Three-phase power installed at Dam 1 and Dam 2 locations

Progress		Timeframe
Phase 1	Site investigation for water potential Approval and licensing in place for both dam sites	Complete
Phase 2	Engaged contractors, desktop design and hydrology commenced	Commenced
Phase 3	Geotechnical and ground investigation	3 months
Phase 4	Detailed design	5 months
Phase 5	Tender process	TBC
Phase 6	Construction	TBC



- 80+ years experience in Western Australian
- Accredited by Engineers Australia
- Integrated services with civil designers, geotechnical engineers, hydrogeologists and hydrologists to address all aspects of dam design
- galt.com.au

### Irrigation and Fertigation Development





#### **Irrigation and Fertigation Overview**

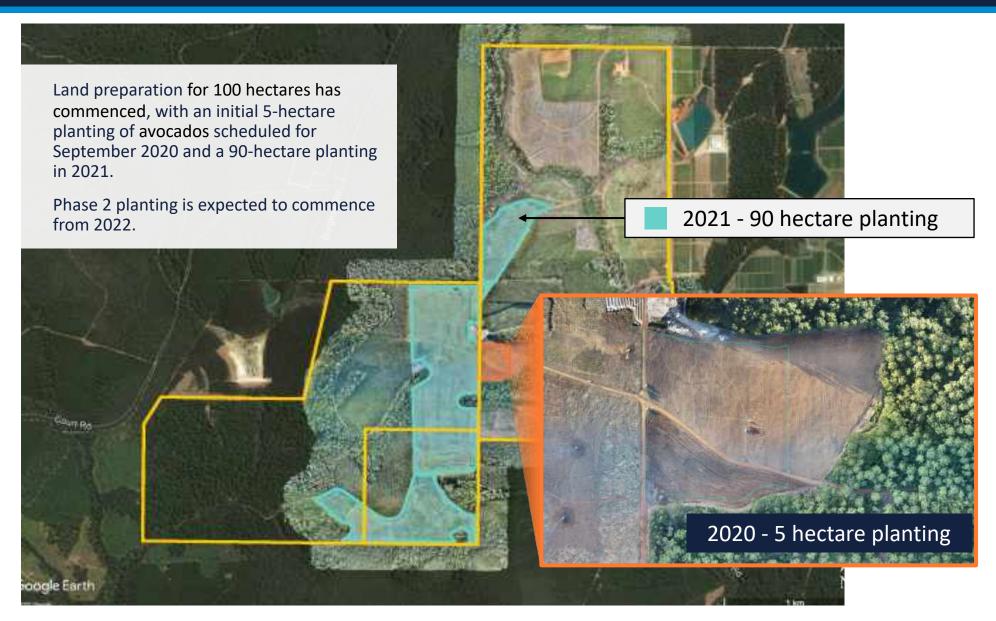
- Irrigation and fertigation are key to project performance
- Global irrigation leader Netafim engaged
- Implementing an intelligent precision irrigation and fertigation system capable of increasing yields and shortening the period for return on investment
- Alterra and Netafim have run a series of irrigation trials on the soils at Carpenters to optimise the design of a system to optimise water, nutrient and energy efficiency
- Alterra targeting to reduce water and power requirements by up to 20%, in line with Netafim's previous results achieved with Israeli and Australian avocado producer on East Coast



- World's largest provider of drip irrigation
- 30% share of the global market for drip irrigation
- 70+ years irrigation experience
- Avocado irrigation specialists
- netafim.com.au

# Land Preparation and Planting





# Land Preparation 2020 Planting



#### 5 hectare planting site





# Land Preparation 2021 Planting



#### 90 hectare planting site





#### **Nursery Production Capacity Secured**



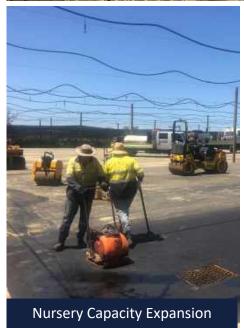
Alterra has secured production capacity at a South West avocado nursery and has successfully grafted its own budwood genetics on to rootstock for the 2020 plantings.

Alterra has management oversight of rootstock selection, budwood selection, grafting and tree specifications. **The nursery has expanded its production capacity** to ensure it can supply the Carpenters Project.

- Current production capacity stands at ~30,000 young avocado trees per annum (c.100 hectares planting capacity p.a.)
- Alterra's budwood genetics exclusively sourced from French's Group trees, known genetics well adapted to region's climate and management system
- Young tree health, graft quality and root formation are key to yield potential of avocado trees
- Alterra committed to supporting South West businesses wherever possible



Chairman Trevor Stoney with Nursery Owner Duncan Wood – August 2019





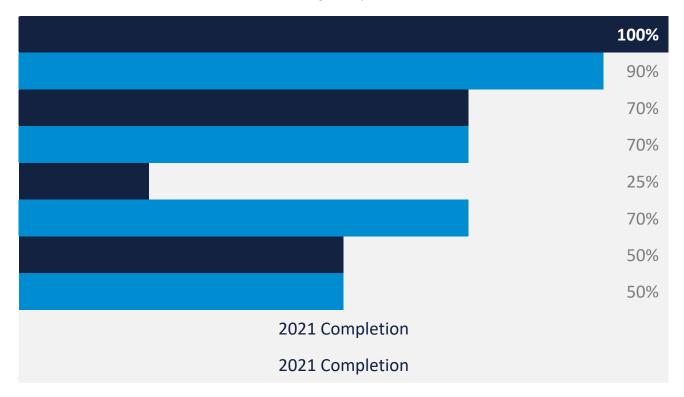
#### **Project Milestones**



Alterra has finalised its proposed planting schedule and is seeking to confirm the project's key consultants in the near term.

#### Percentage completed (%)





#### **Industry Links**







Avocados Australia Facts at a Glance

2007 - 2020 Weekly Retail Pricing



Avocado Gross Margins Warren-Donnelly
Catchments



<u>Israel research shows avocado yields</u> <u>could increase 50%</u>



Netafim Avocado Irrigation YouTube



<u>Avocado Industry Strategic Investment</u>
<u>Plan</u>



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