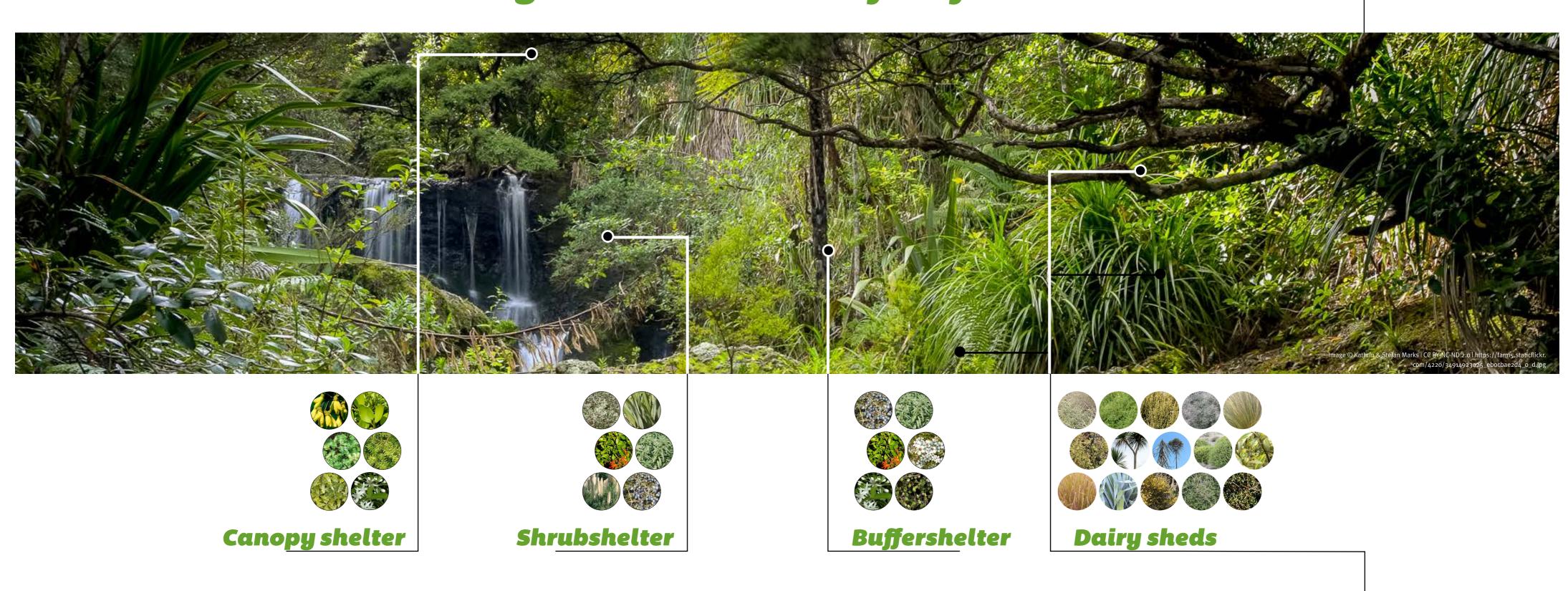
Te Whenua Hou: Distributed Forest



A distributed forest of 1.2 million native plants, trees and shrubs running across a series of 20 farms...



That supports different dairy farming functions and irrigation regimes and creates a 350 hectare ecological stepping stone for native birds to cross the Canterbury Plains...







Context



Outcome



Includes opportunities to extend a distributed native planting system across the Canterbury Plains...

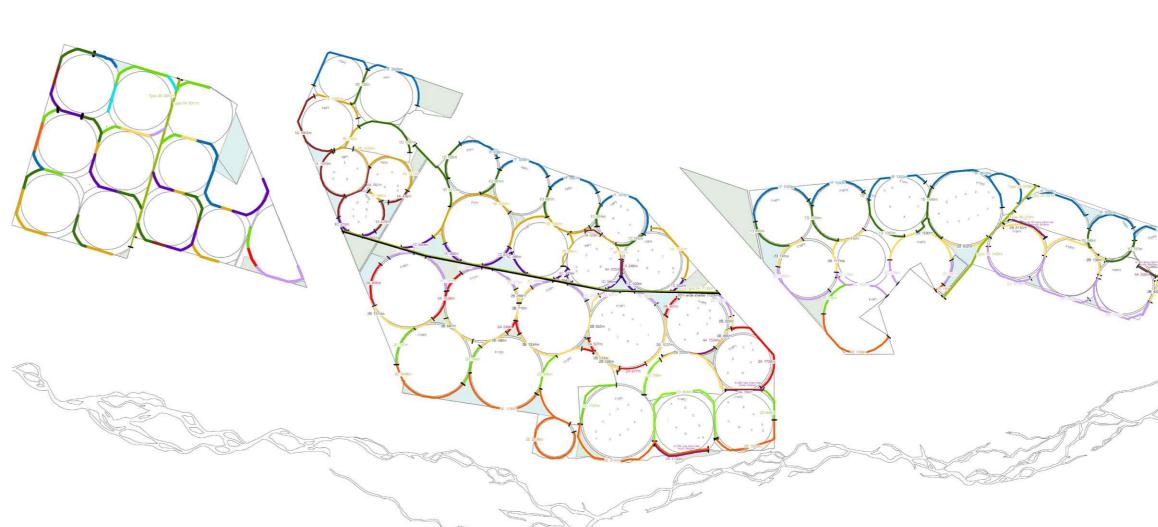
Shelterbelt and reserve network

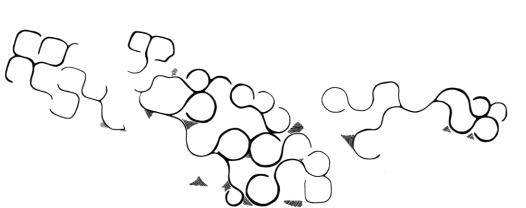
Constructed to form a distributed and deconstructed native forest, plants - valued for their capacity to support native biodiversity - are organised according to their capacity to support distinctive components of dairying. The story of Canterbury's braided rivers travelling across the plains is reinforced through development-scale patterning, which in time might operate as the project's visual gateway for people flying into Christchurch. Twin colonnades of totara dominate the primary shelterbelt network, supported by kowhai, tarata, houhere, kohuhu and kapuka. The proposed network provides a corridor for native birds to travel from the South Island's back country over the sparsely vegetated plains to Banks Peninsula, shelter for stock, and a native timber resource for future generations.

Patterning strategy

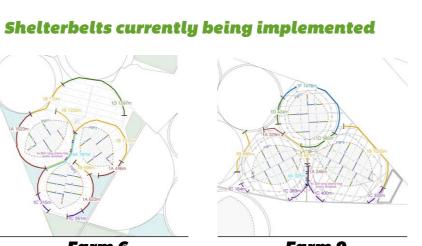
Systematic and modular planting patterns are proposed at a number of scales. At the plant scale, species are arranged in a rhythimcal sequence. In this way meaning is created allowing monitoring of successful or struggling species by farmers in their everyday stewardship. At the farm pivot scale patterning responds to the dominant north easterly and southerly winds and sun direction, while at the development scale patterning focuses on aerial impression.

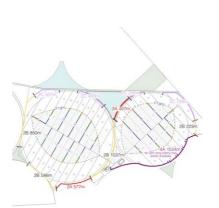


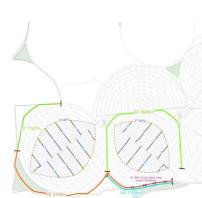










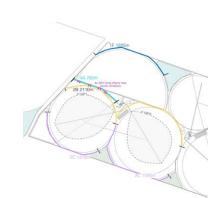


Farm 14



Farm 15

Farm 17

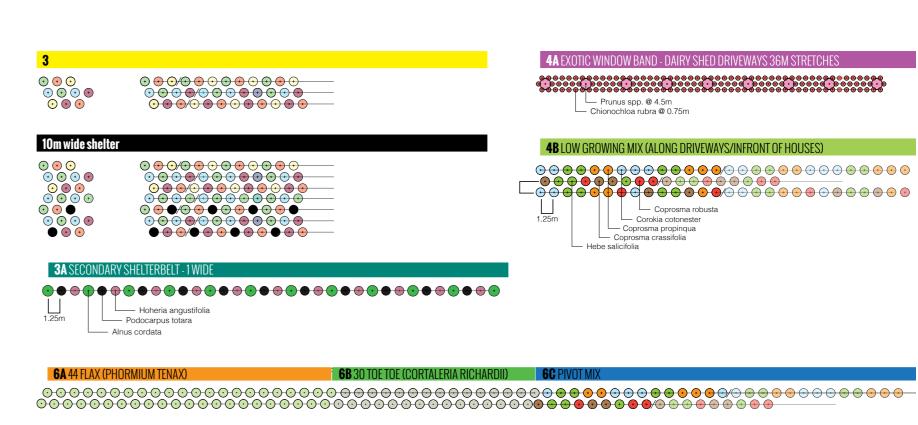


Farm 19

Fractal	shelter	patterns
		-

1A	
• • • • • • • • • • • • • • • • • • •	
1B	
•• •• •• •• ••	
1C	
⊕ ⊕⊕ ⊕⊕ ⊕	
1D	
• • • • • • • • • • • • • • • • • • •	
1F	
• • • • • • •	



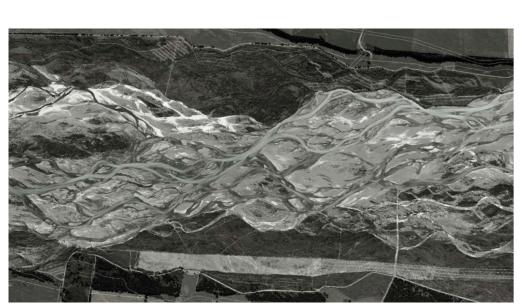


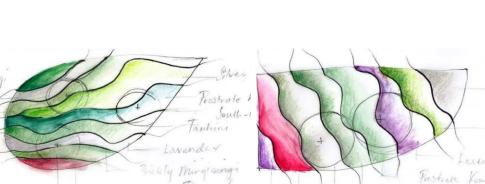
Milking Shed Plantings

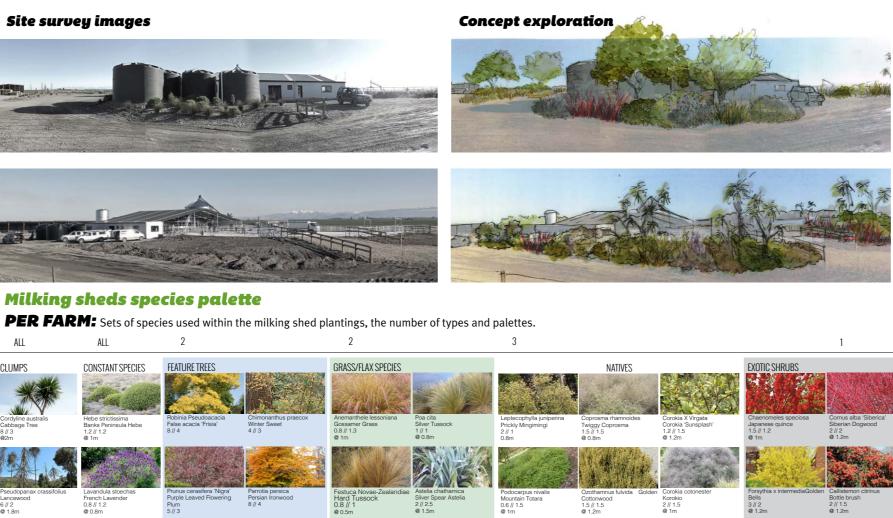
Planting at the milking sheds is an opportunity to provide these places with character, shelter and amenity. Native and exotic shrub species are selected from a palette for each shed and planted according to a braided river

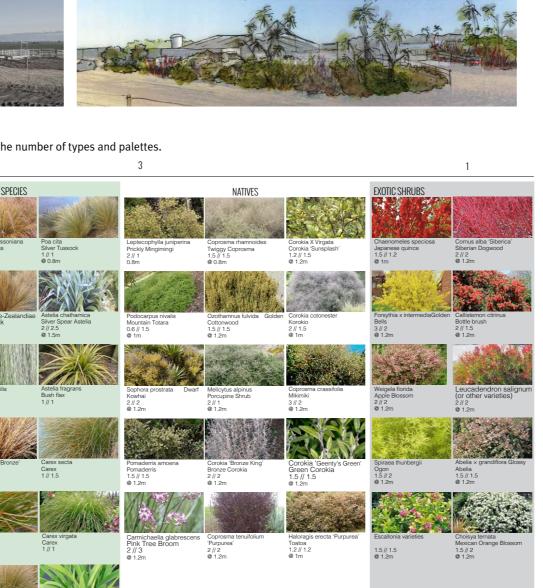
Patterning strategy

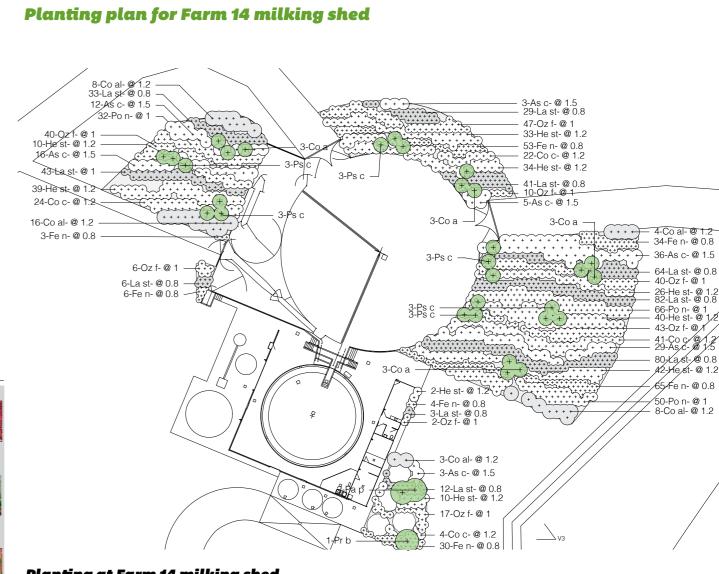
Planting patterns at the milking sheds draw inspiration from the braids of the nearby Waimakariri River. Swathes of native and exotic shrubs traverse the slope of each round yard in undulating forms. Clumps of Lancewood and Ti trees create vertical interest without detracting from the outlook from each shed. Exotic feature trees at the entrance to each shed give character and create distinction between otherwise identical set-ups.













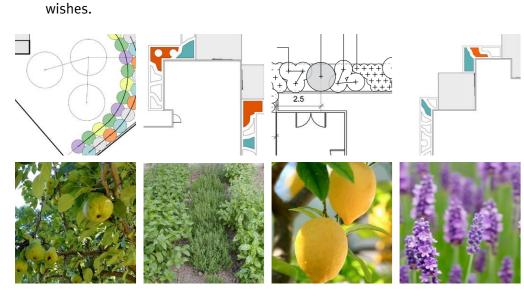


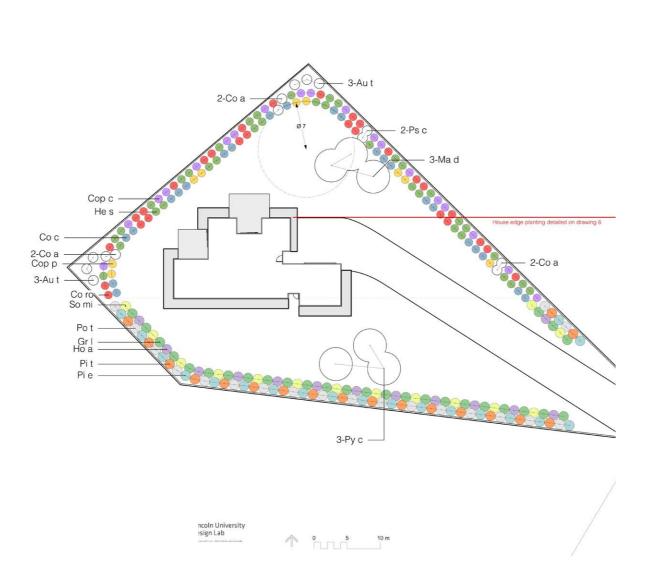
Around the houses

The approach with the farm houses was to create distinctive, liveable sections, with sufficient shelter and privacy. Decisions were made based on providing a high amenity, low-maintenance planting system with the capacity to provide a resource for farmers and their families (through productive, edible and useful species).

Patterning strategy

The system has been designed to create difference and intrigue across the development, so that no two sections are the same. It works in support of the overall development concept at a larger scale, while fostering meaningful engagements with landscape at the experiential level. The system is considerate of both the low-maintenance farmer and the keen gardener, leaving opportunties for further development as the occupant





Progress

