



Preliminary breeding objectives for honeybees



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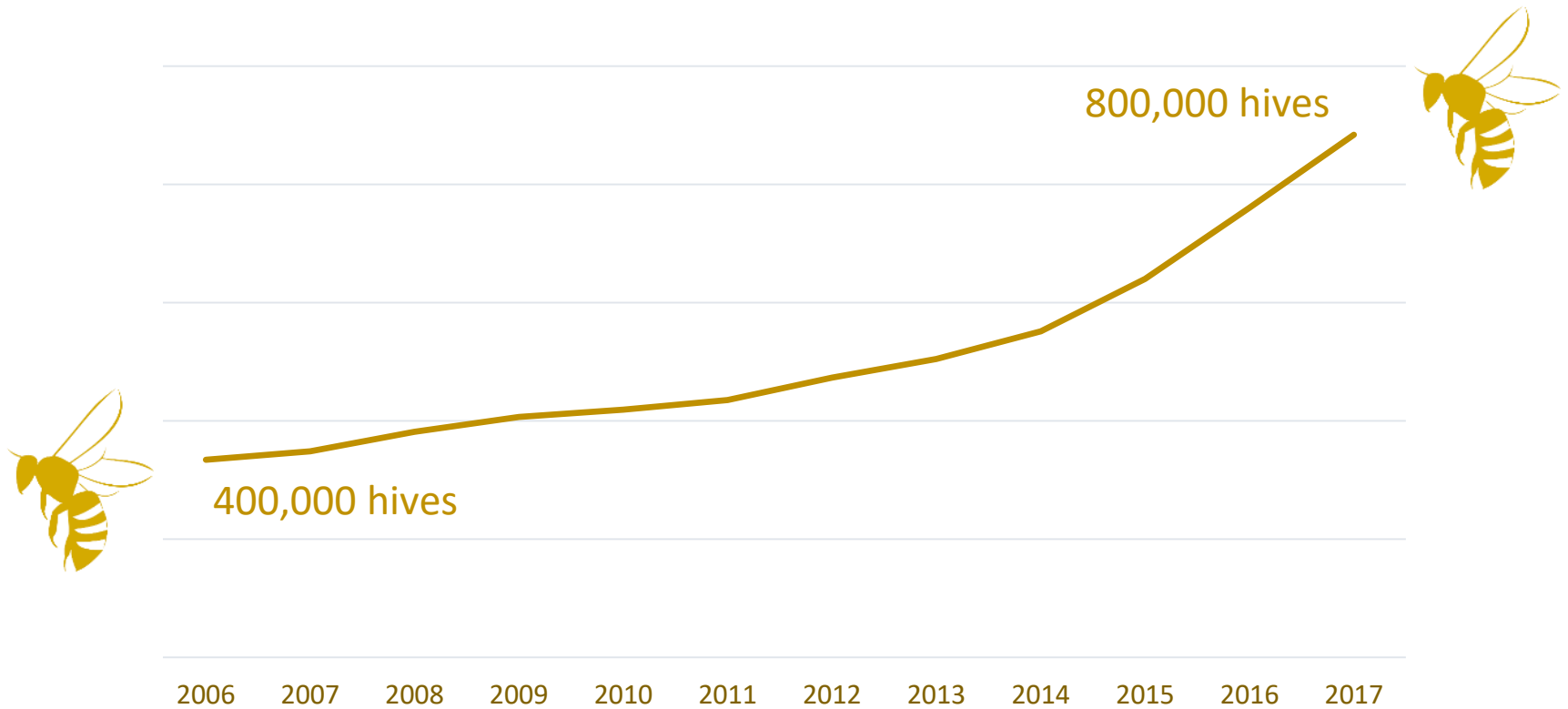




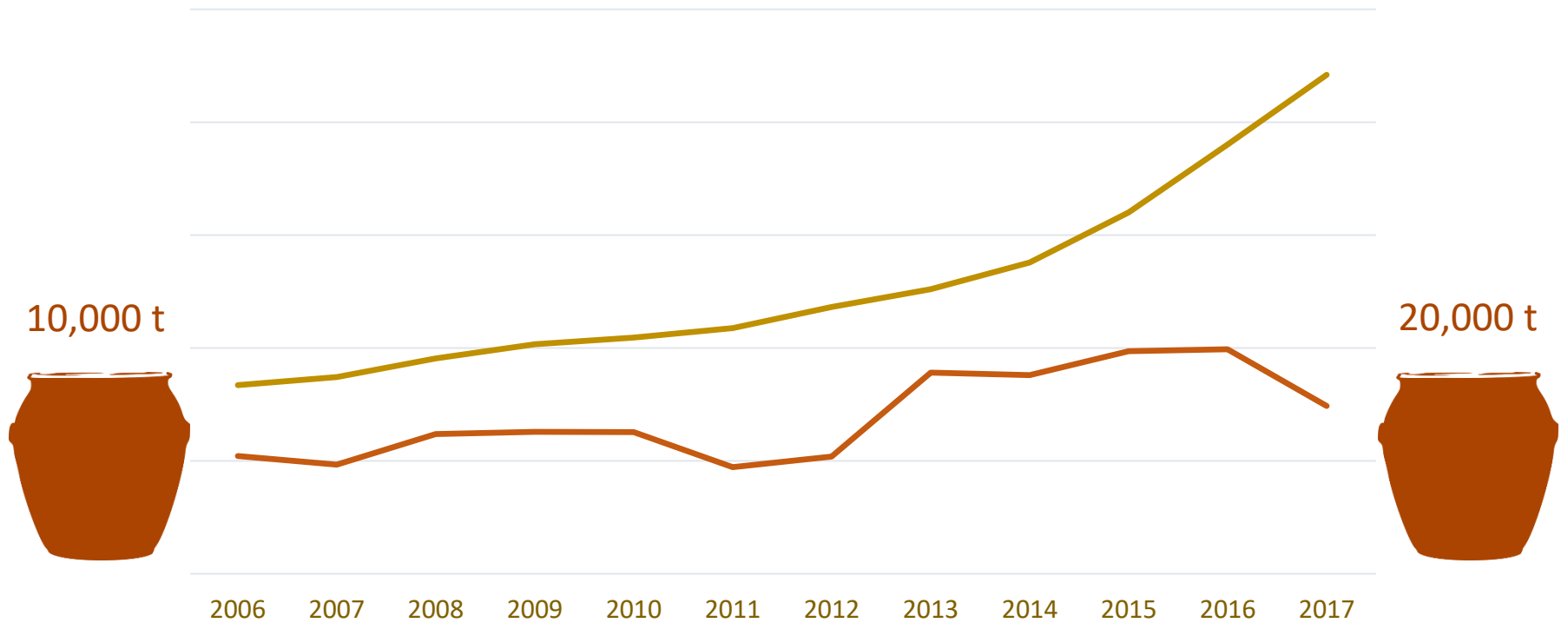
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Why NZ cares more than others



Why NZ cares more than others



Profit Function



$$\textit{profit} = \textit{honey} - (\textit{labour} + \textit{replacements})$$

The honey production Breeding Objective



honey yield



gentleness



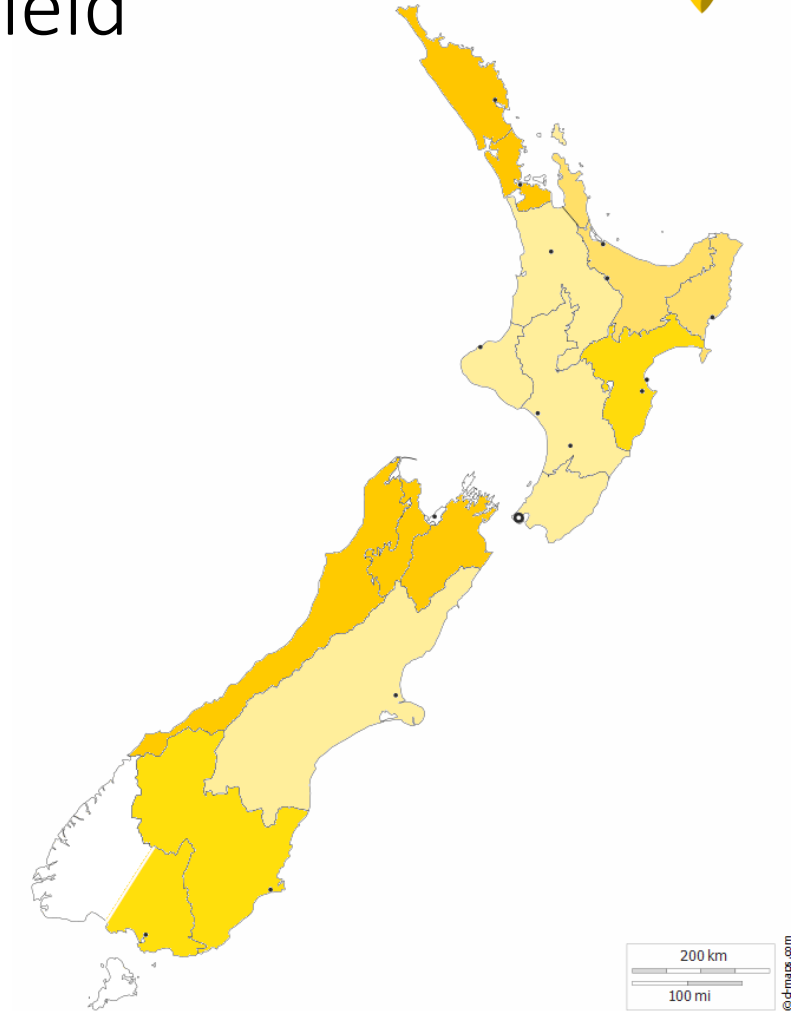
winter survival

Economic value: honey yield



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Economic value: honey yield





Economic value: honey yield

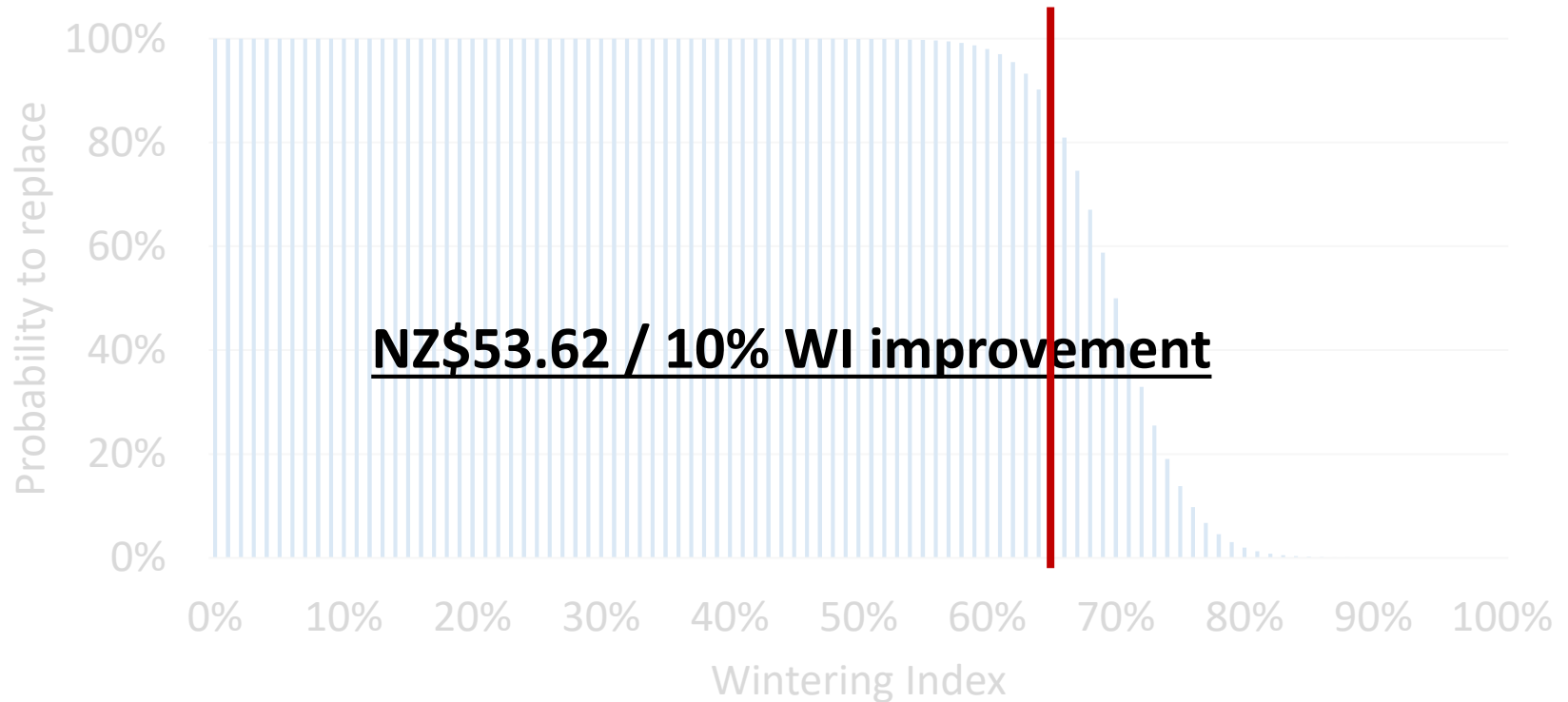
Northland
Waikato
Coromandel
Hawke's Bay
Marlborough
Canterbury
Otago/Southland
total

NZ\$11.65 / kg honey



Economic value: winter survival

Probability of having to replace a colony based on
Wintering Index



The **pollination** Breeding Objective



honey yield

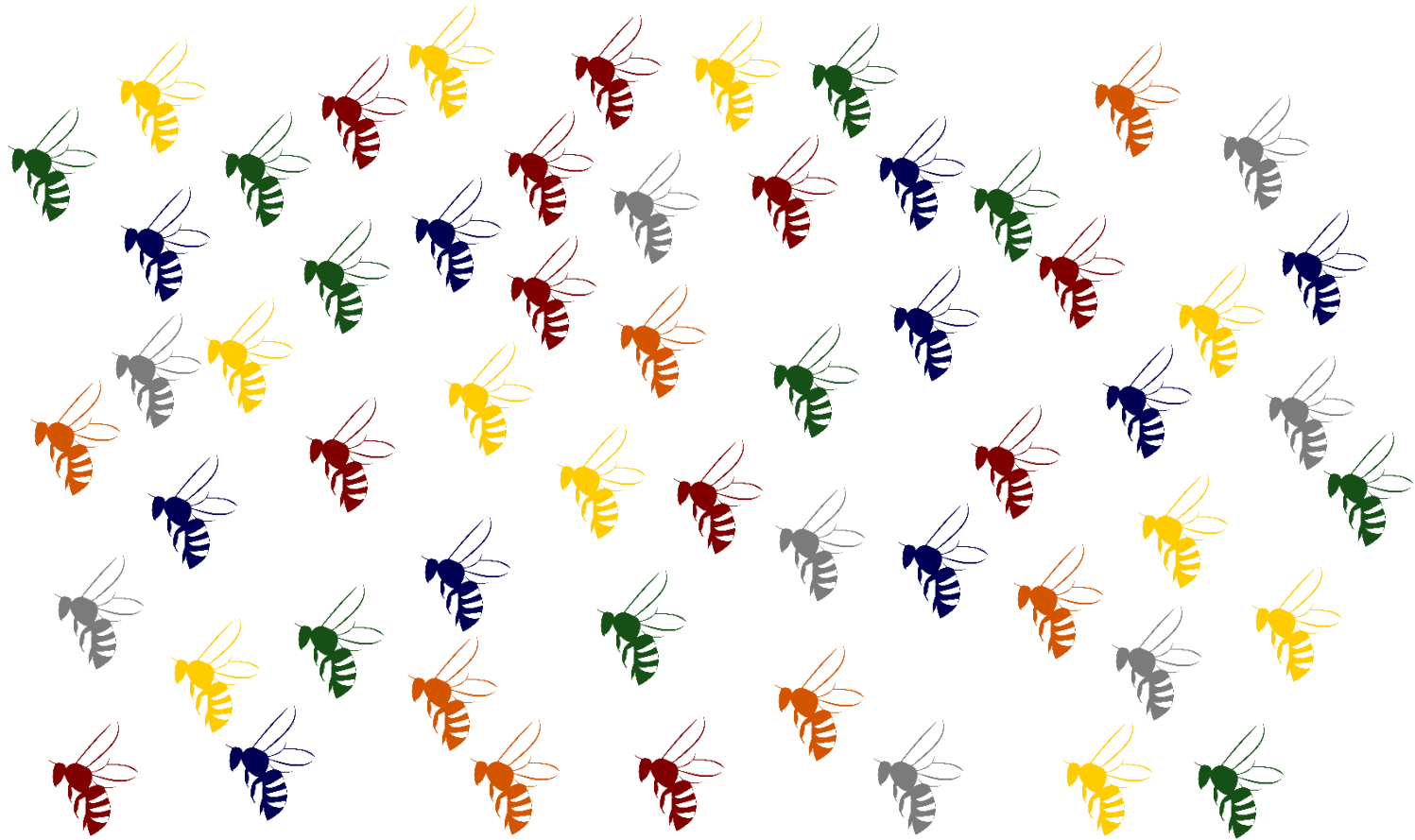


gentleness






pollination ability

Genetic diversity



FutureBees NZ



-  Cooperation between science and industry partners
-  Direct involvement of the end users
-  Development of tools for sustainable genetic improvement



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