Managing Future Demands

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Road rehabilitation of low volume roads - The Kaipara District Council experience
Treatment sites 2014 - 2015
Purpose of the paper

- Pavement and surfacing failures
- Failure types and causes
- Longitudinal and Block cracking
- Treatment options
Paparoa-Oakleigh Road, 150mm slump
Pouto Road, multiple longitudinal cracks
Slump/Cracking adjacent to stands of trees, Paparoa-Oakleigh Road
Causes of cracking

- Successive droughts
- Subgrade shrinkage
- Adjacent trees
Fatigue cracking, clear vegetation, Pouto Road
Block cracking of a heavily stabilised basecourse, Pouto Road
Cracking adjacent to stands of trees, Pouto Road, Pre-rehabilitation
Shrinkage crack in subgrade, Paparoa-Oakleigh Road
Treatment options

- Full overlay and stabilisation
- Rip and remake
- Partial overlay and stabilise into existing pavement
- Overlay with geosynthetic reinforcement
Pouto Road rehabilitation using geosynthetic reinforcement,
Pouto Road, Post-rehabilitation
Risk mitigation!
THANK YOU