Creating Connections

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Metalcourses Are Gold
New Zealand Roads
- Provide connections for many purposes
- Important for Community well being
- Driven to do more for less
- Unsealed roads are challenging
- Metalcourses are worth more than gold
Unsealed roads characterised by
- Regular grading and application of maintenance metal
- Vulnerability to environmental factors
- Use of less than desirable materials
- Different specification than for sealed roads
- Many trials
Metalcourse supply
- Own or lease quarries
- Using variable quality materials
- Low cost solutions
- Material locations
- Management of quarries
- End use
Chathams Case Study
- Quarries are leased
- Quality is variable
- Locations not ideal
- Alternatives limited
- Vehicle composition
- Materials imported
- Funding constraints
- Isolation
Problems

- Variable quality, mineralogy suspect
- Performance differences (wet/dry)
- Action under wheel loading
- Low cost solutions not always successful
- Delayed intervention
Strategy

- Intervention ensures reliability
- Poorer materials for unsealed road maintenance metaling
- Better material for sealed road maintenance & renewals
- Limited to suit end use
- Potential for other projects
Outcome
- Understand material properties
- Compromise between location vs quality
- Metalcourses are very important in maintaining connections

Forget oil and water – metalcourses are the new gold.