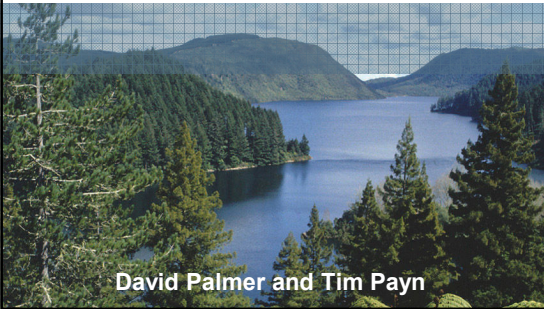


## The role of Spatial Information in support of a National Environmental Standard for Forestry: Soil Erosion



David Palmer and Tim Payn

## NES Background

- Inconsistency across regional and district plans and rules under the RMA
- One forest - several councils - different rules
- Opportunity to use spatial data and models



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## Traffic light

(Erosion Susceptibility Classification for the proposed NES on Plantation Forestry)

Higher conditions



Standard conditions



NZFOA

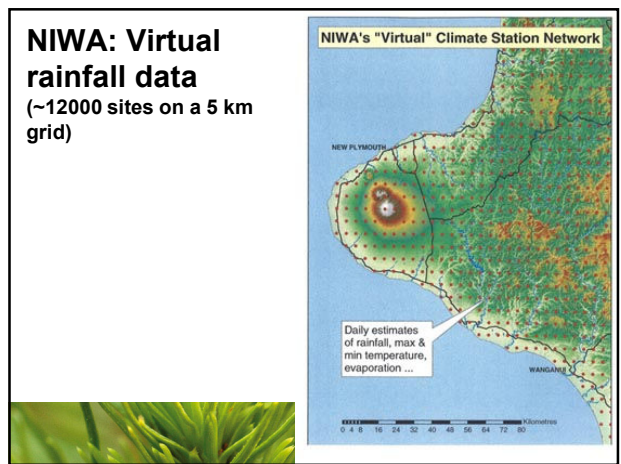
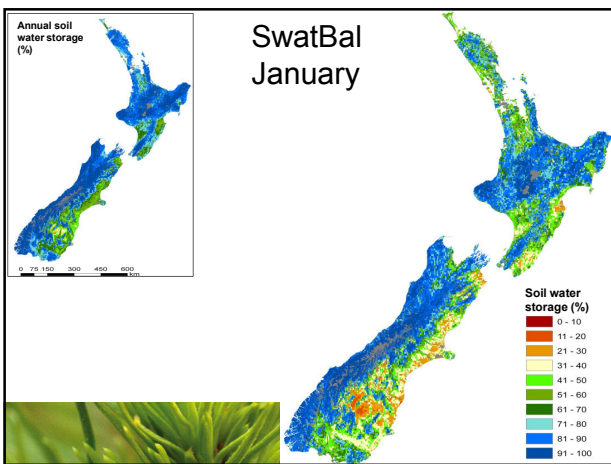
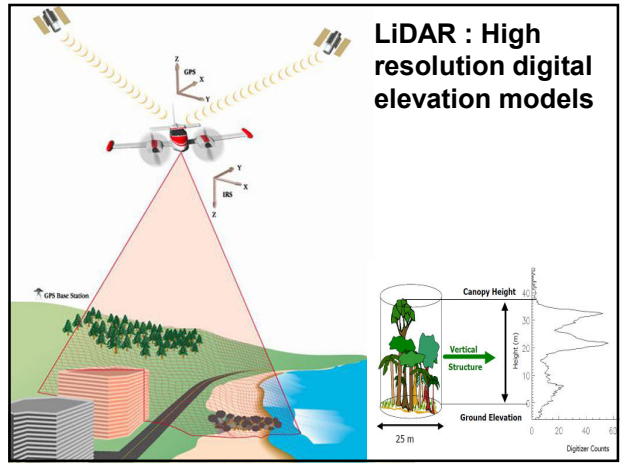
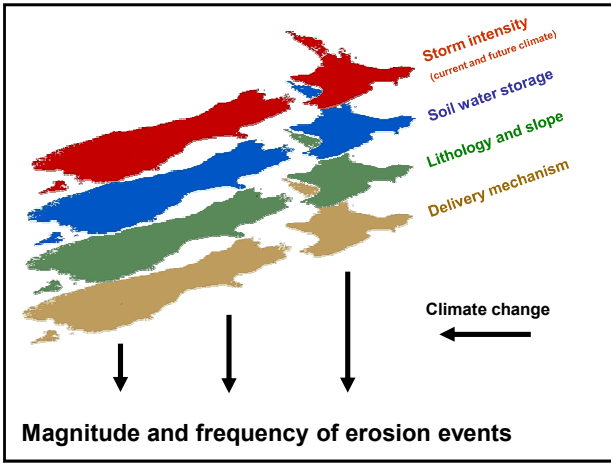


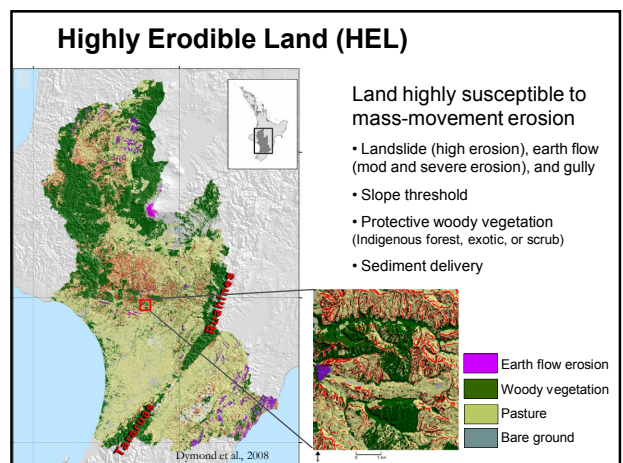
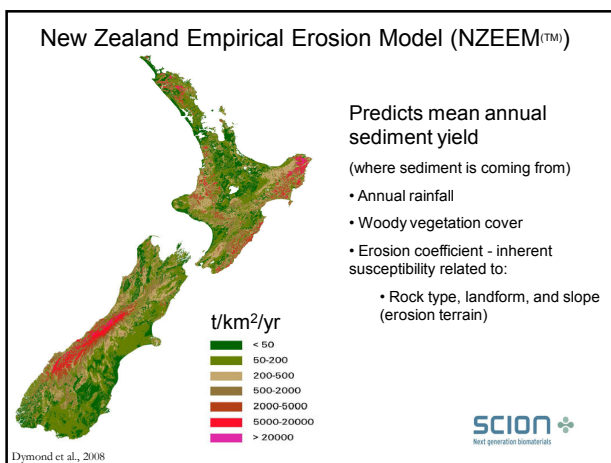
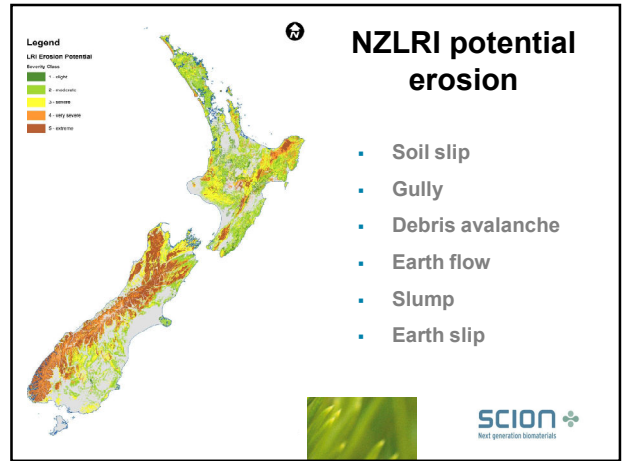
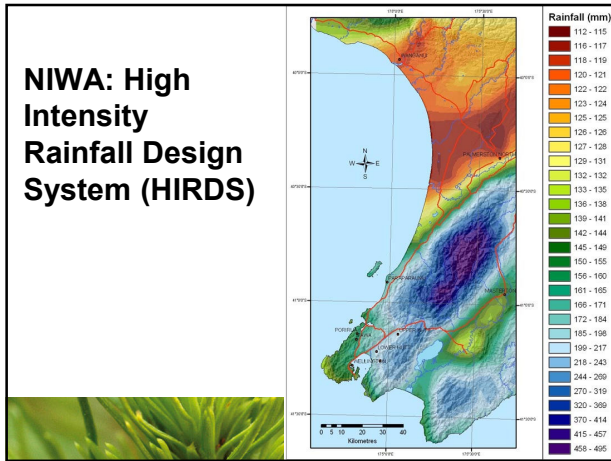
## Erosion models and datasets with potential for use in the NES

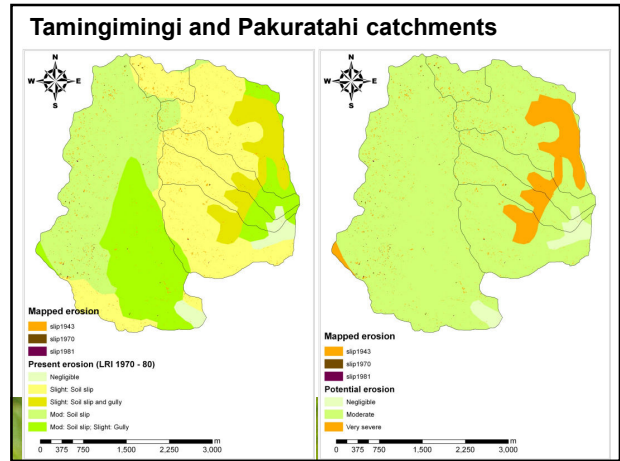
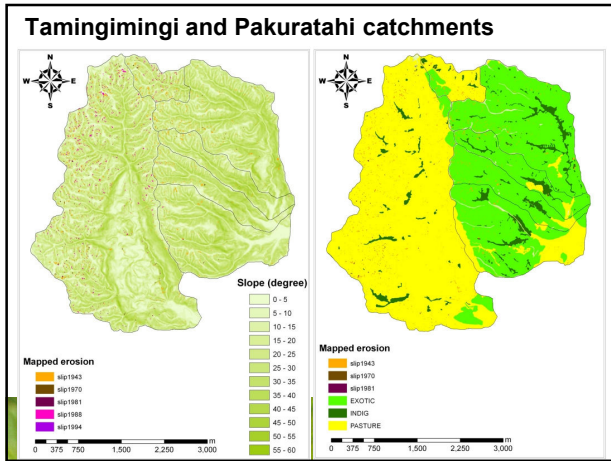
- Terrain attributes and climate data
- Land Resource Inventory (LRI)
  - Present and potential erosion type and severity
- HEL "highly erodible land"
- NZeem "New Zealand Empirical Erosion Model"



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Next generation biomaterials







## Conclusion

- Spatial data for identifying erosion
  - Filter out areas of low risk – standard consent conditions...
  - Identify higher risk areas – higher consent conditions...
- <http://www.mfe.govt.nz/publications/rma/proposed-nes-plantation-forestry/index.html>
- Submissions close: 5.00 pm on the 18 October 2010

