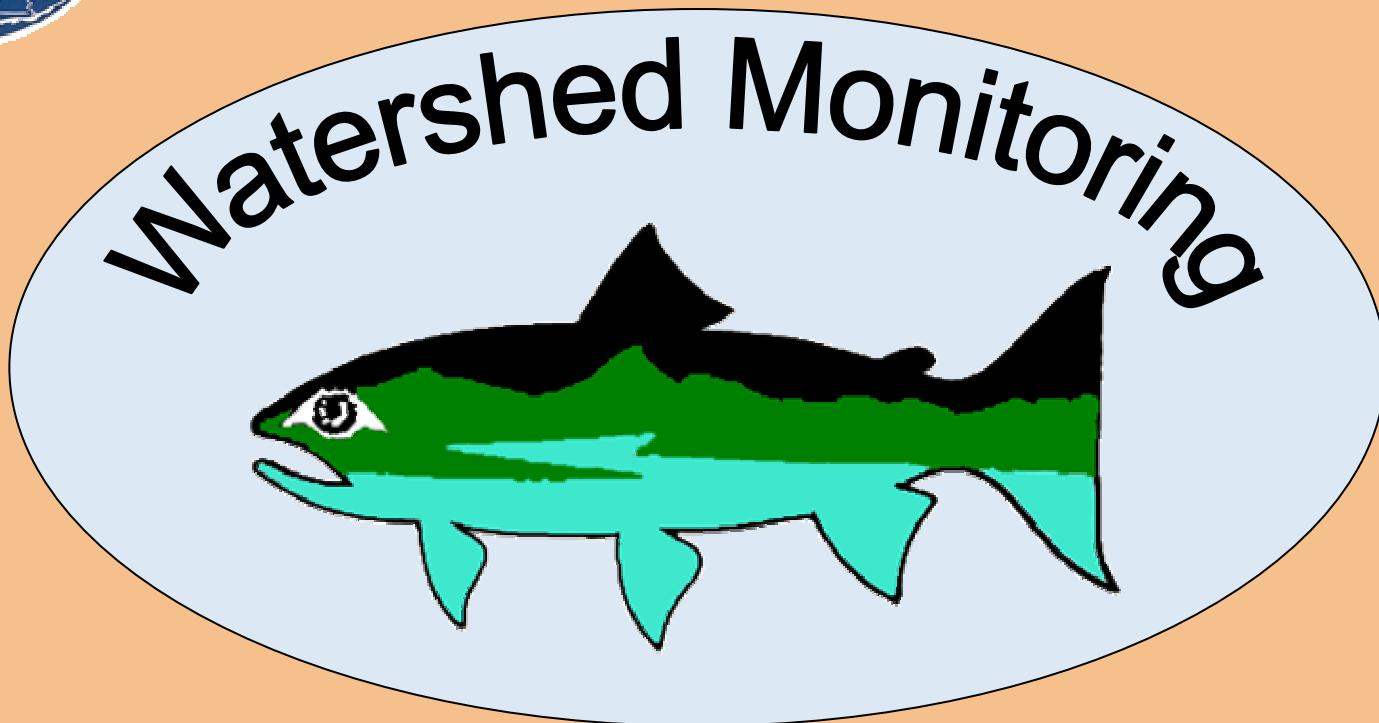




Interagency Regional Monitoring Program



Decision support models part II: *Lessons we learned while assessing watershed condition*



Chris Moyer, Sean N. Gordon, and Kirsten Gallo

Bureau of Land Management - Oregon State Office

Oregon State University

What are DSMs?

Where to have dinner?

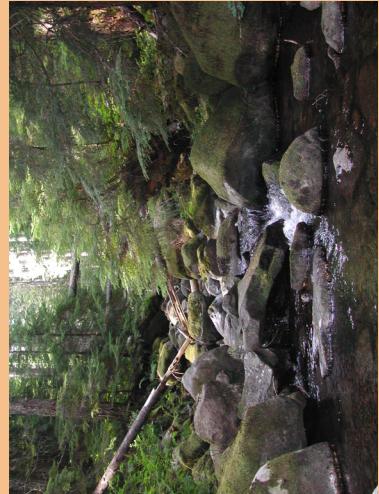
Cost 50%
Type 25%
Time 25%

Thai Chinese Mexican

Watershed condition

In-channel

Physical
Chemical



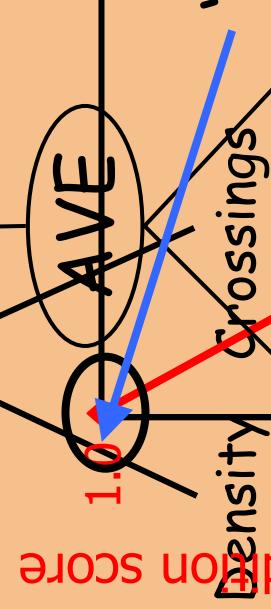
Vegetation

Upslope

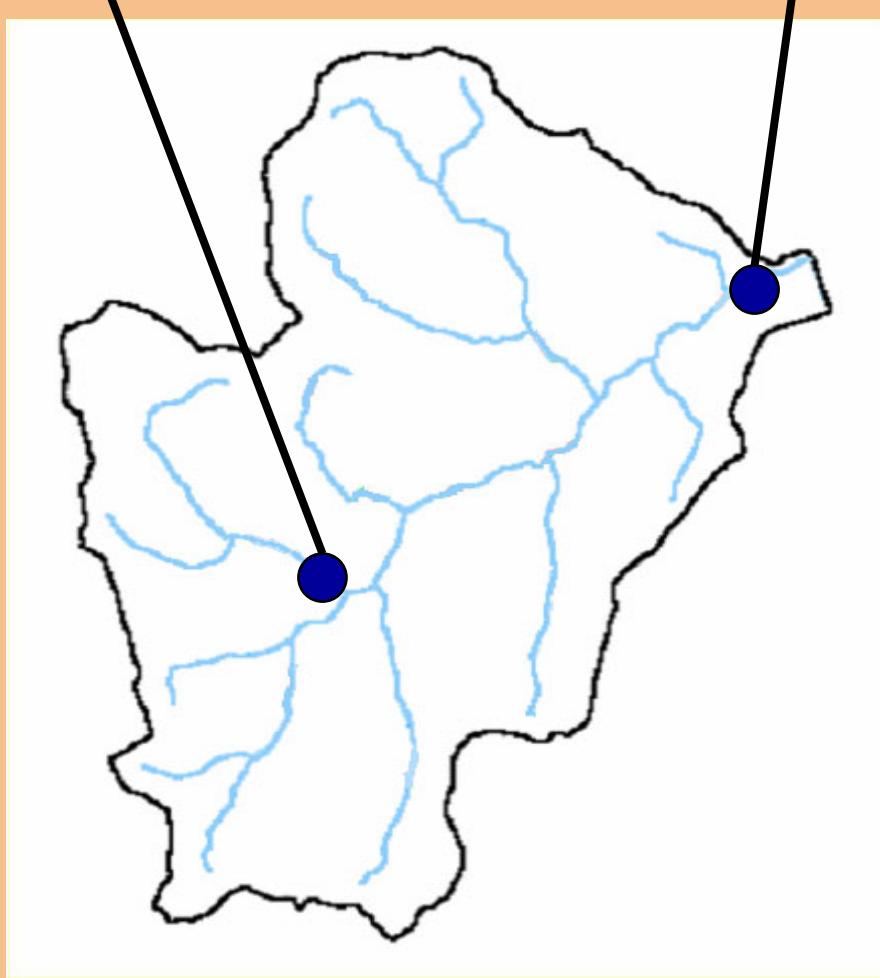
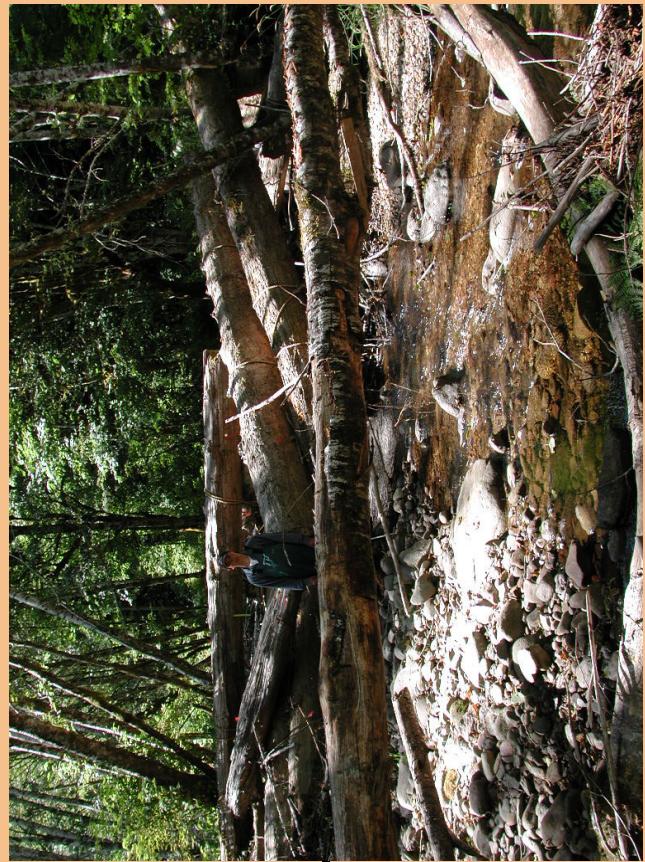
0.125

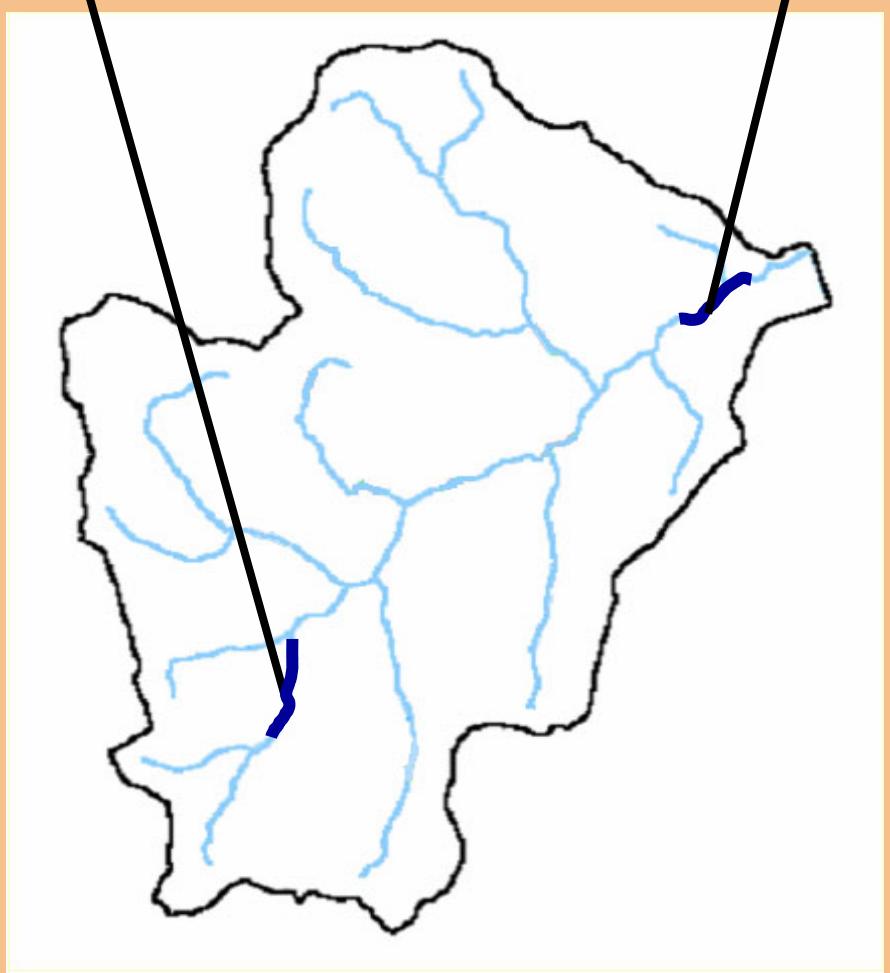
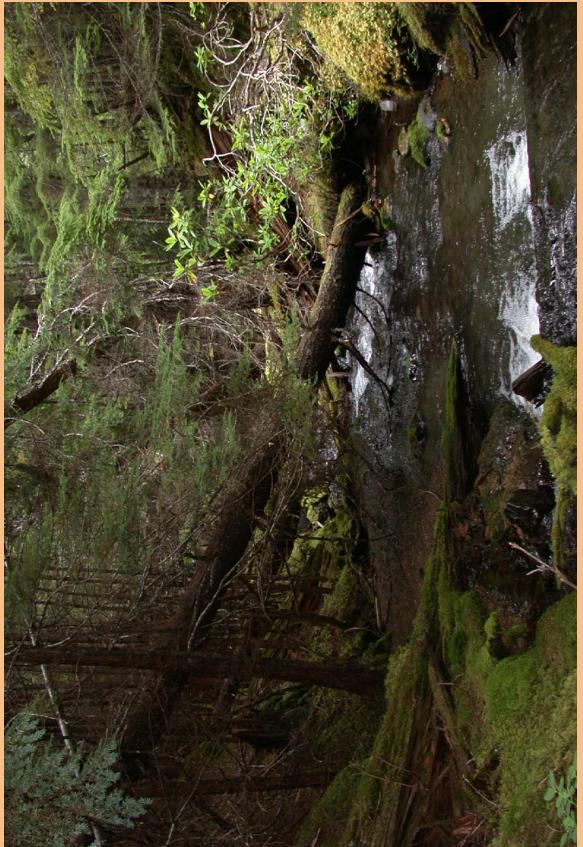
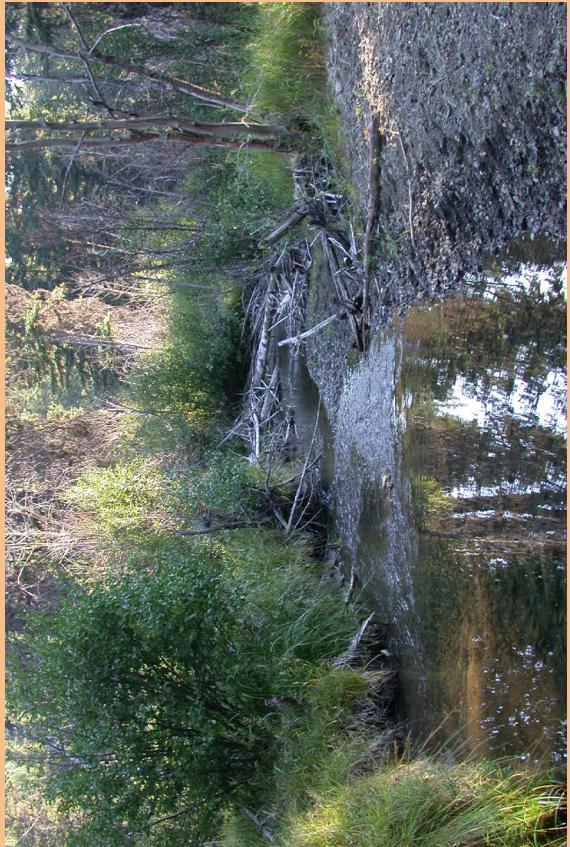
Roads

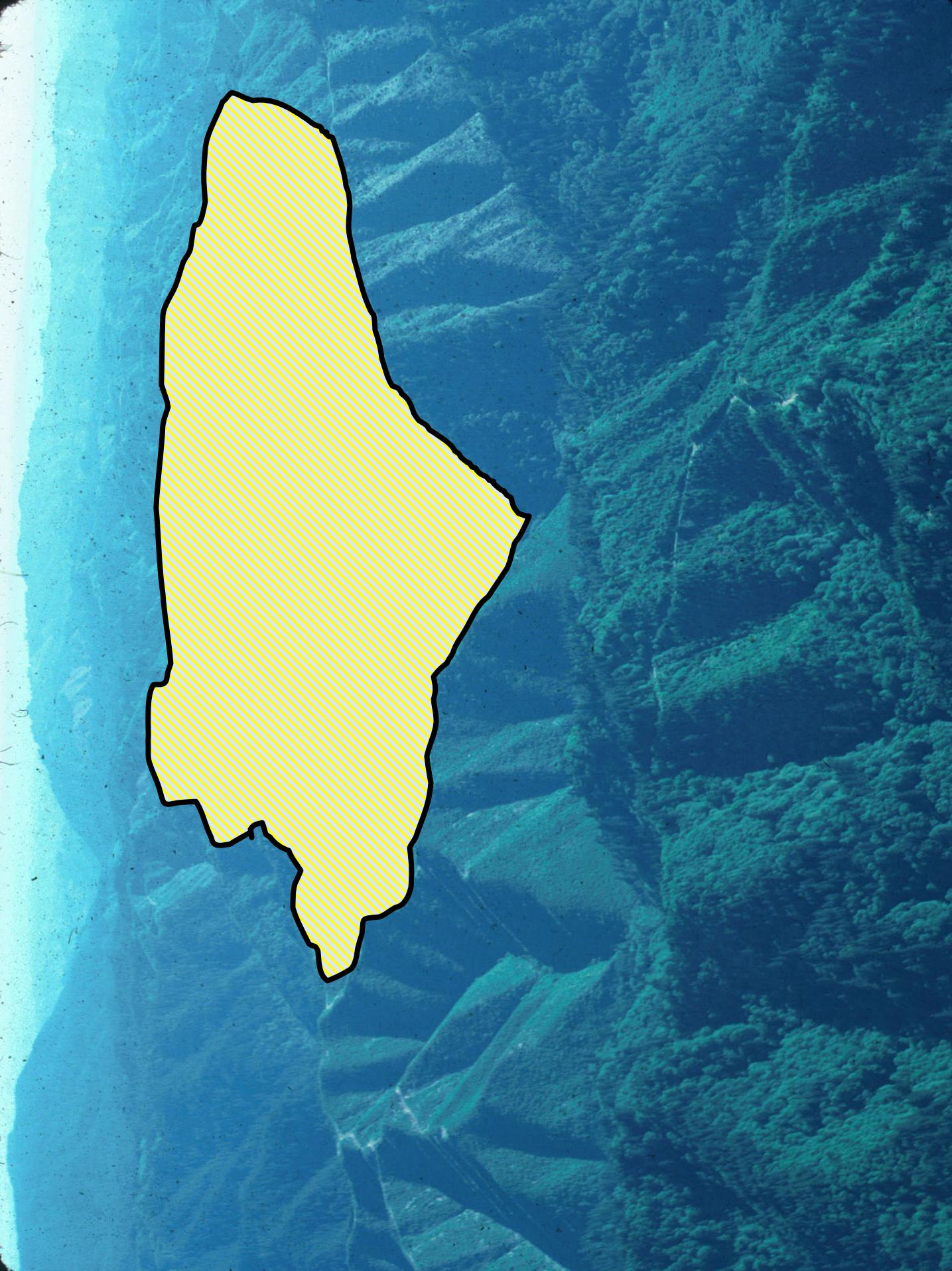
"Riproad"

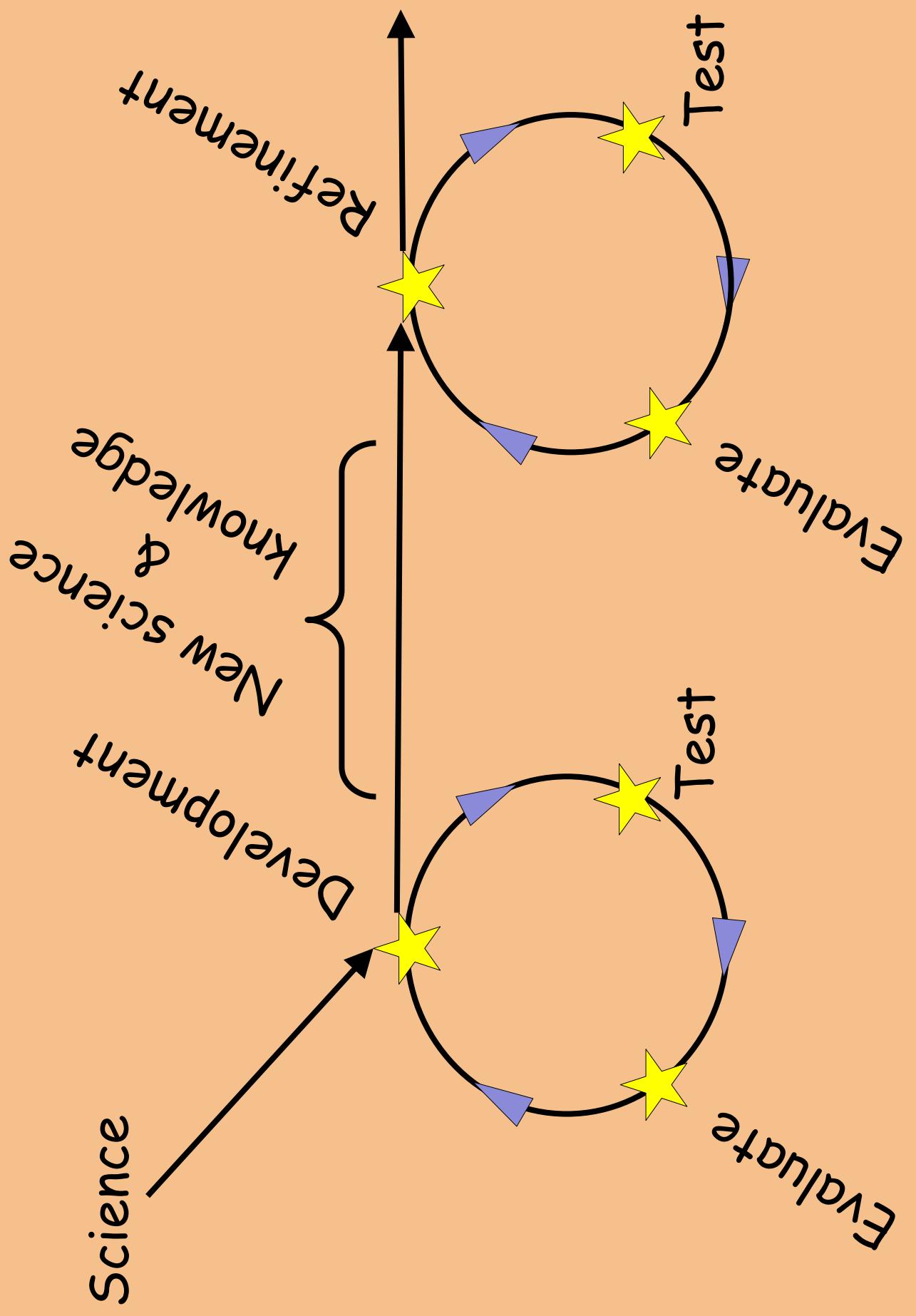


Riparian road density (miles of road per mile of stream)









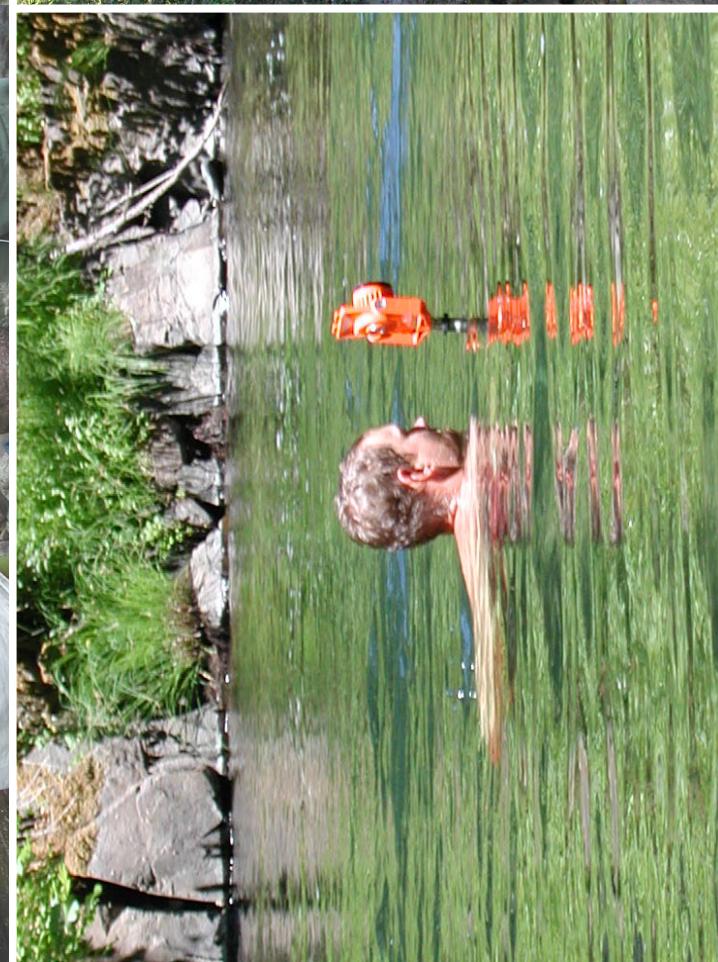
Future models & historic data

- Models change, datasets do not
- Datasets are used with future models

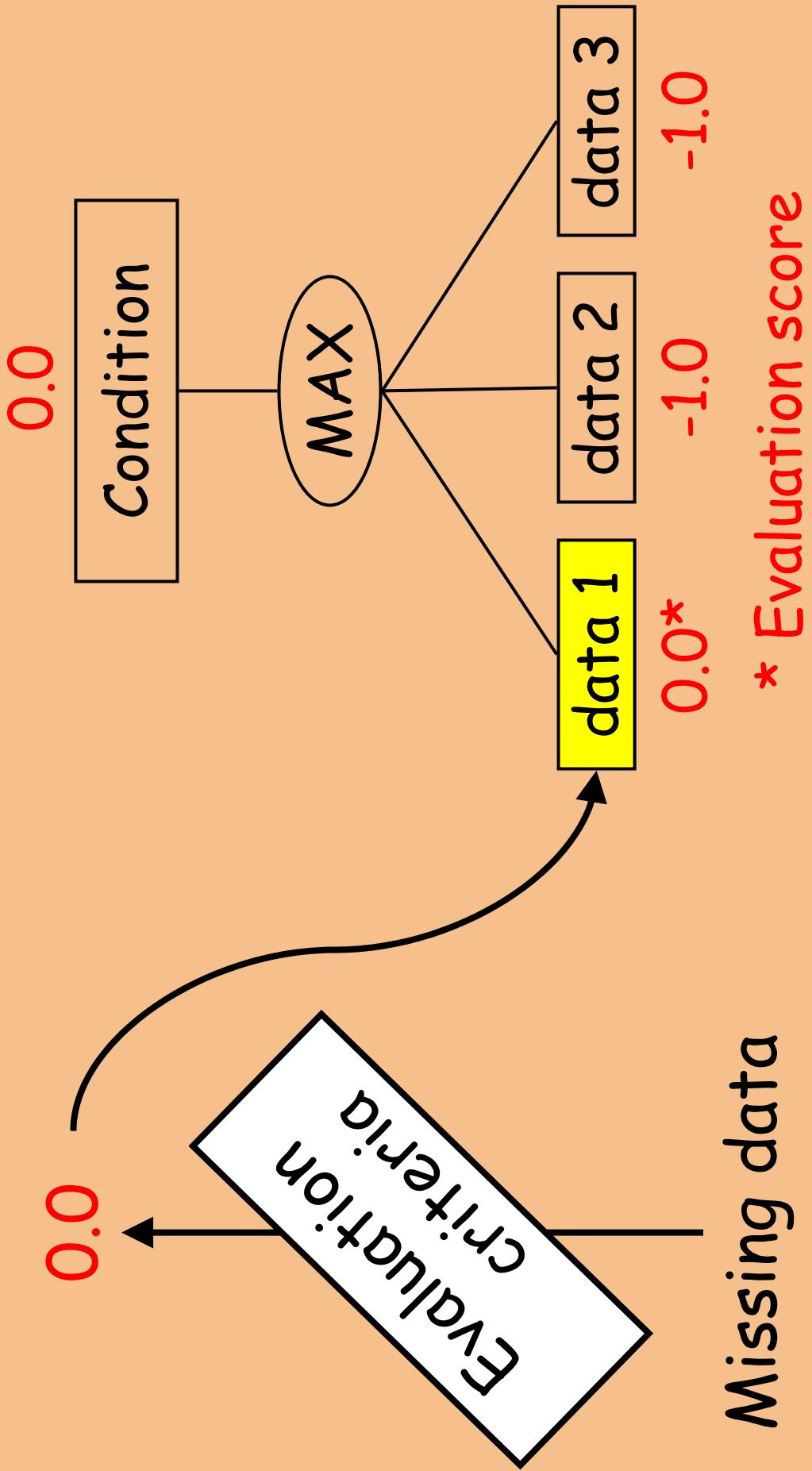
GAO asks: "Will we ever have a complete dataset?"

- The Government Daily, October 2004

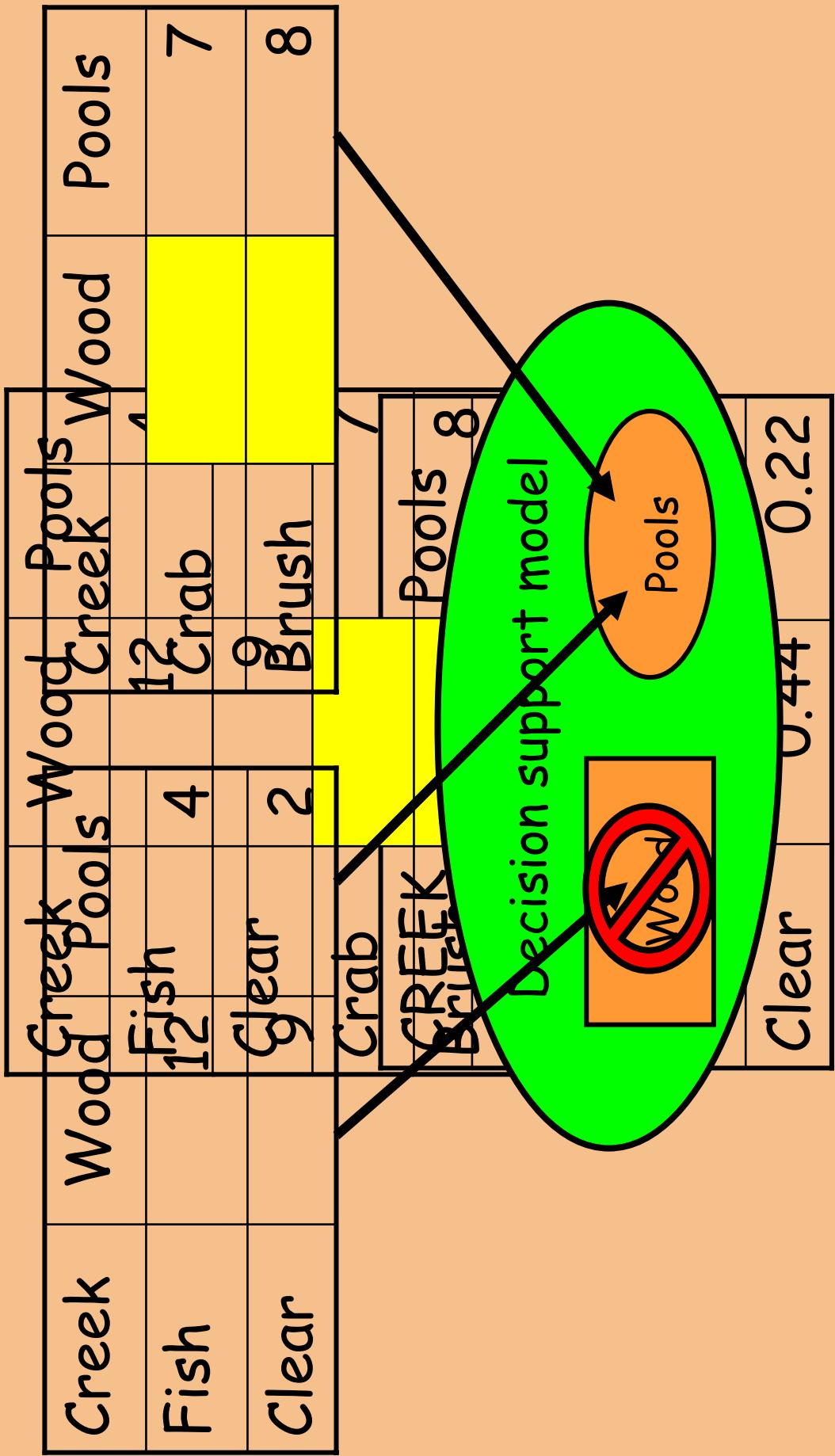
**Analysis efforts come up short -
GAO claims it's the dataset for analysis!
Complete numbers complete dataset raw & got it
The resource manager seeks May 2001
The monthly Analyst, June 2003**



Missing data

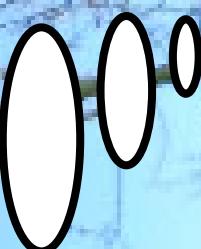


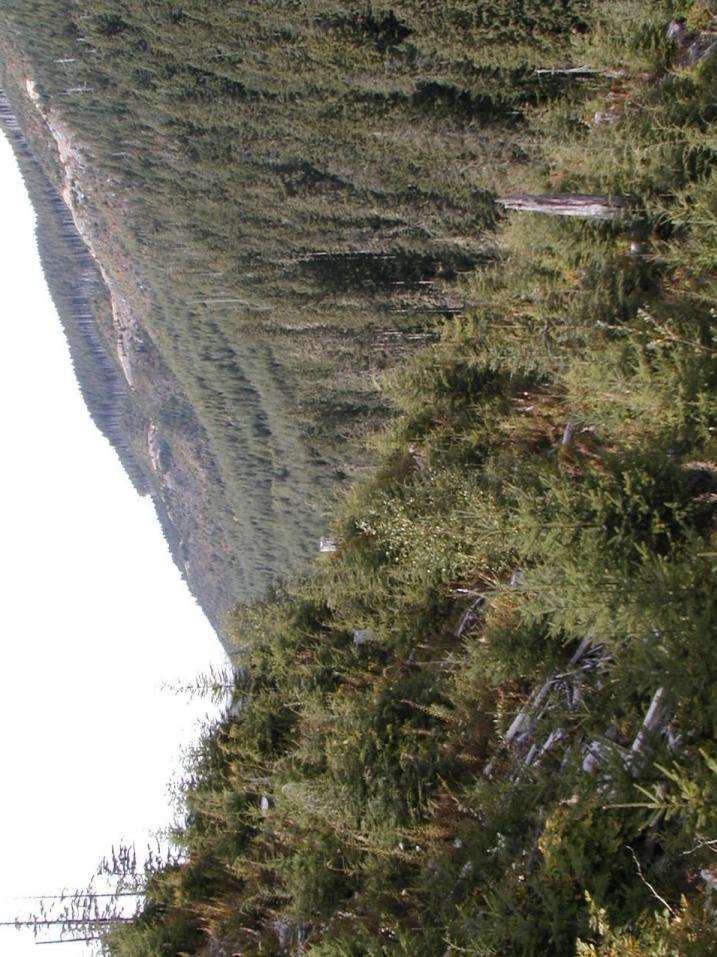
Structured model runs



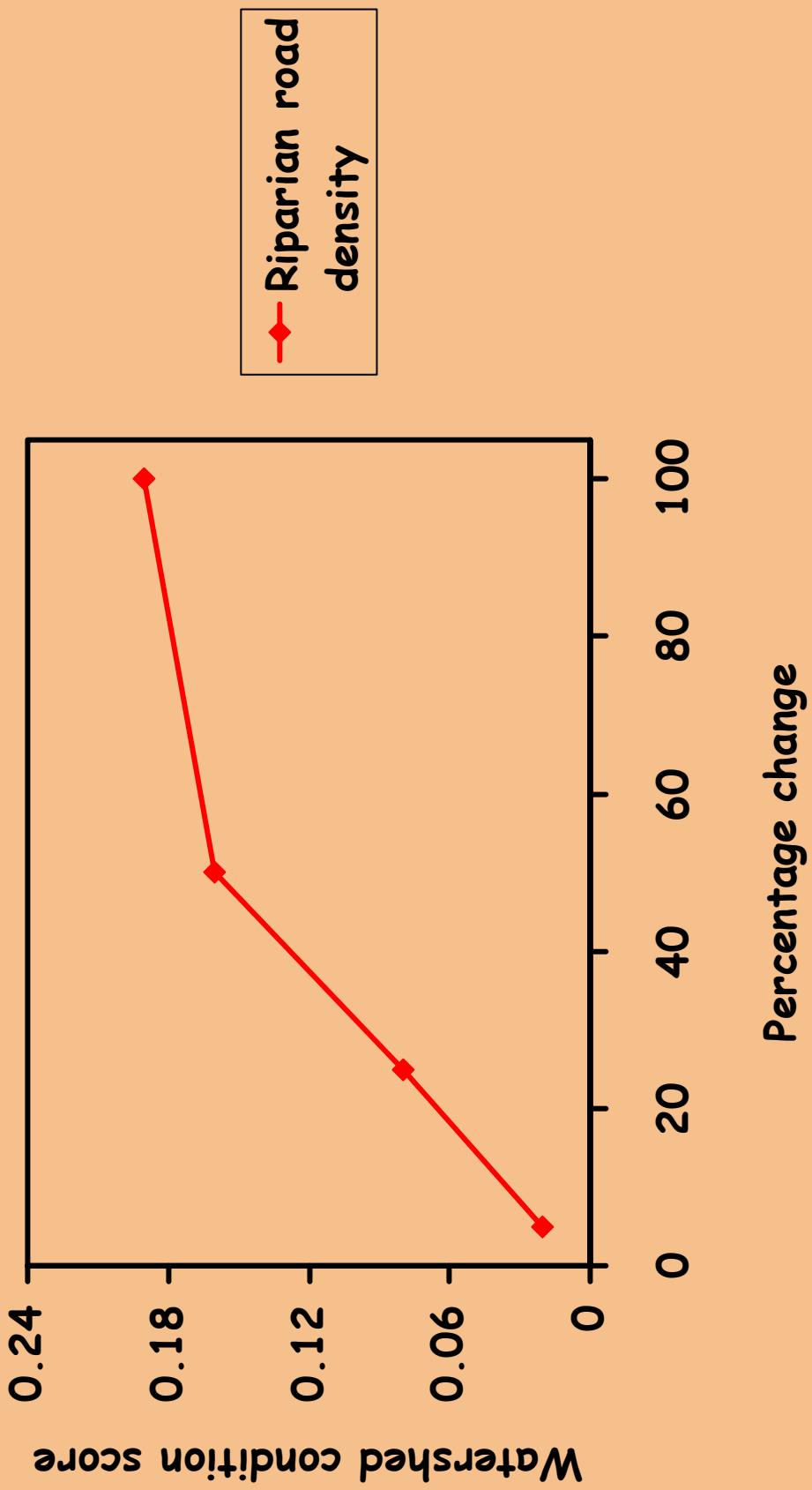


What causes change
in the environment?

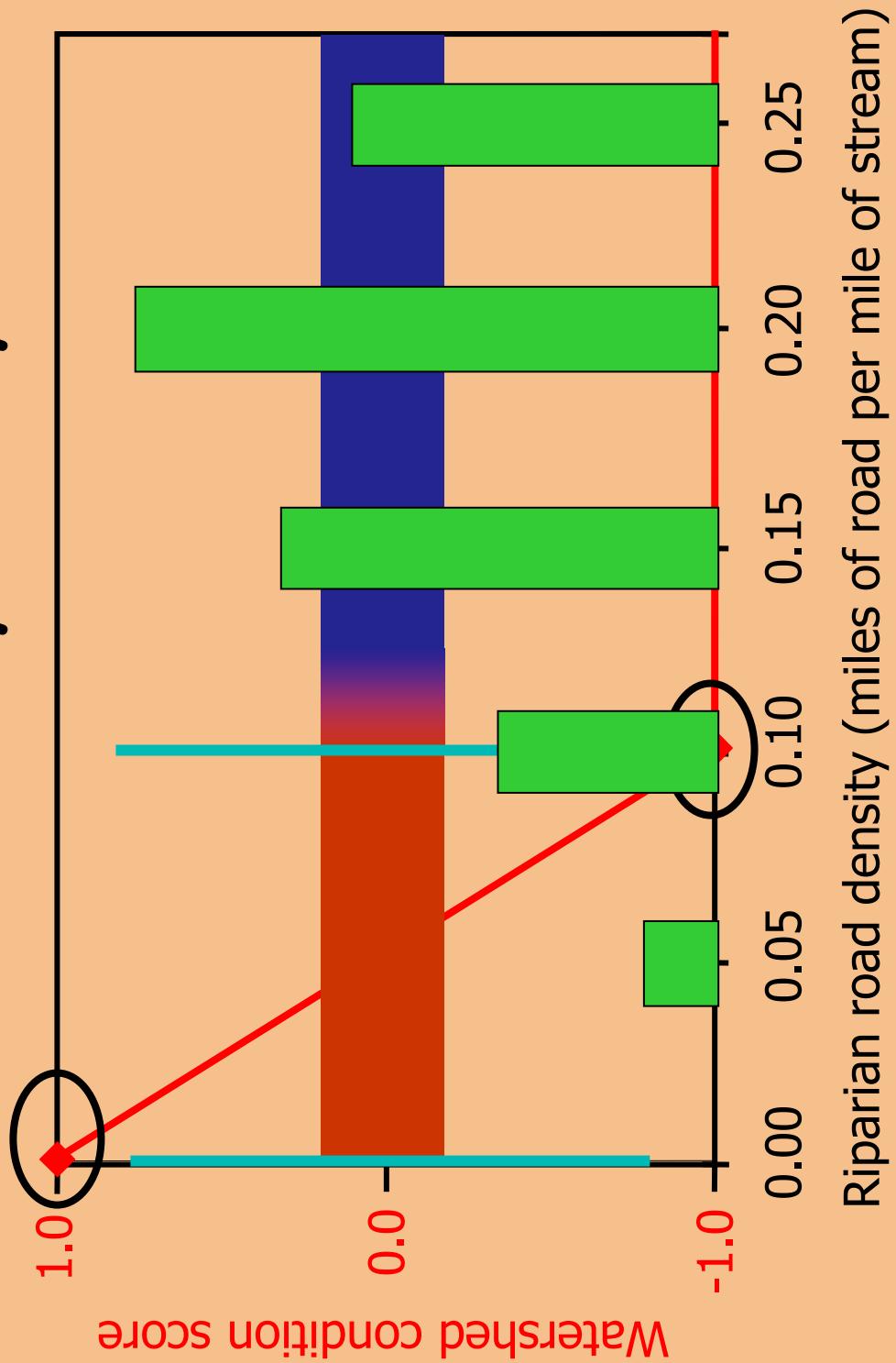




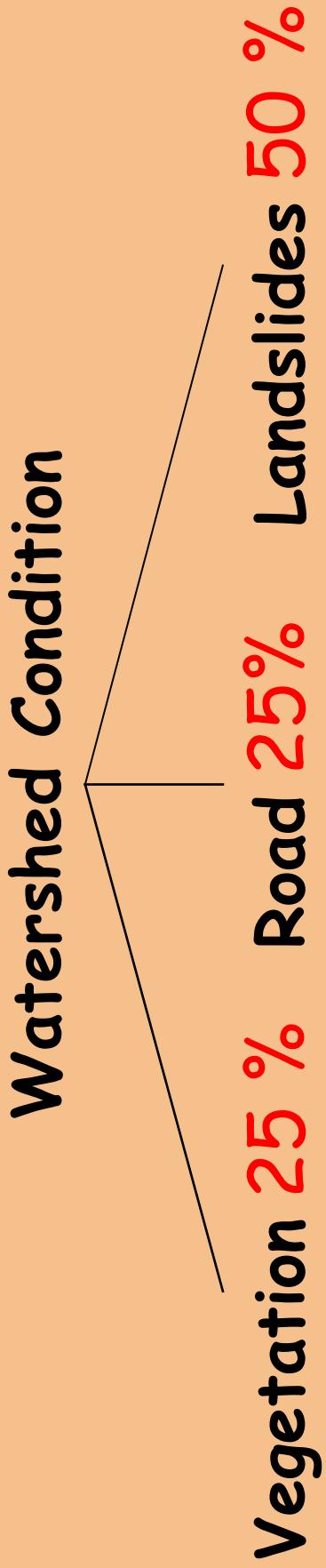
Sensitivity analysis



Sensitivity analysis



Attribute Weights



Conclusions

- ★ Decision support models can be applied to any spatial or temporal scale.
- ★ Decision support models can be updated to reflect current thinking.
- ★ Incomplete datasets are the norm and can be evaluated with decision support models.
- ★ The structure of the model influences the sensitivity of the model to change.