

The Land Use Impact Model

AJ. McNeill

^A Department of Primary Industries, Primary Industries Research Victoria, PO Box 3100, Bendigo Delivery Centre 3554

The Land Use Impact Model (LUIM) is a spatially explicit tool developed by the Department of Primary Industries Victoria, and the University of Queensland for environmental reporting and planning. The LUIM incorporates knowledge of relationships between landscape characteristics and land management practices and uses a GIS to map where these relationships exist or are likely to exist. 'Soft' data, sourced through workshops with experts and regional stakeholders are combined with 'hard' biophysical data using a Bayesian belief network (BBN). Likelihood and risk results are produced with associated probability scores to represent the uncertainty in the outcome for any map unit based on the known accuracy of the mapped or expert input data. The LUIM can be used at a range of scales, with 'best available' data, to identify priority assets for protection from any degradation issue and to highlight current knowledge gaps.

Workshop participants will be given a brief introduction to the LUIM, including a brief history of development and a summary of previous applications. Participants will then be taken step by step through the set up and application of the LUIM for a risk assessment using a sample data set. Each participant will be given a copy of the LUIM take with them.

<http://www.vic.gov.au/vro/LUIM>