



Strategic Programme



Land Managers, The Agri-Environment and Climate Change **Lee-Ann Sutherland**

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Royal Botanic Garden
Edinburgh



Land Managers

- It takes all kinds...

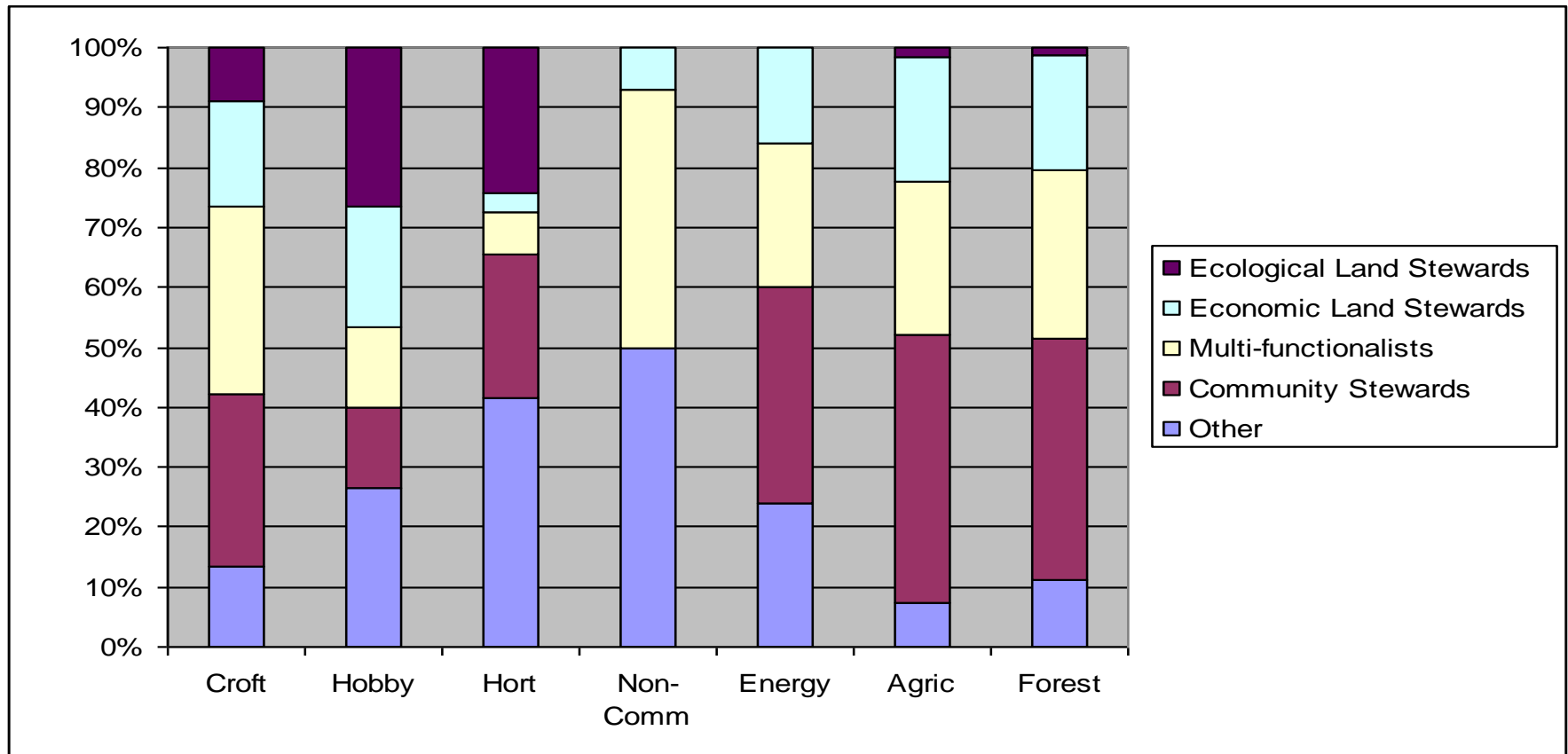


Land Managers

- It takes all kinds...



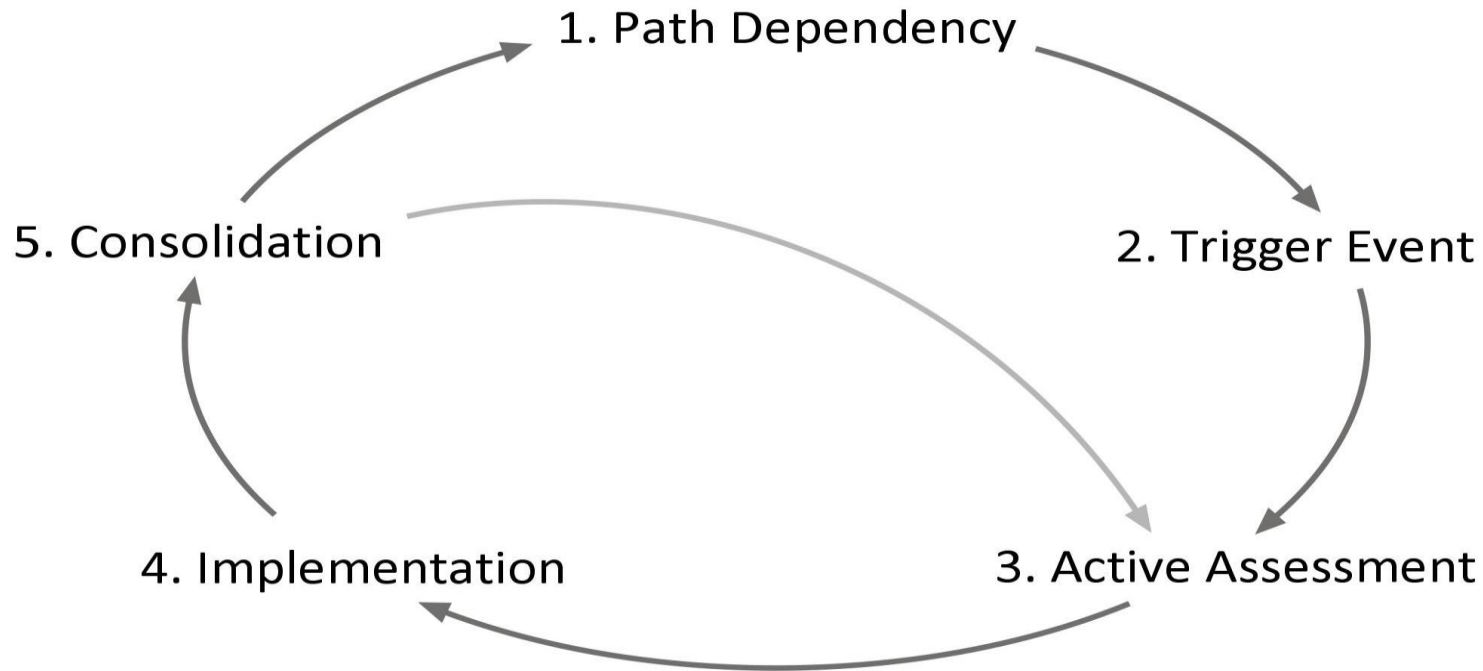
Scottish Government's Rural Land Use Study



Sutherland, L., Barnes, A., McCrum, G., Blackstock, K., Toma, L. (2011). Towards a Cross-Sectoral Analysis of Land Use Decision-Making in Scotland. *Landscape and Urban Planning*

Land Managers and Lock-In

THE 'TRIGGERING CHANGE' CYCLE



Sutherland, L.A.; Burton, R.J.F.; Ingram, J.; Blackstock, K.L.; Slee, B.; Gotts, N., (2012) Triggering change: towards a conceptualisation of major change processes in farm decision-making, *Journal of Environmental Management*.

Land managers and the Agri-Environment

Changing definitions of 'good farming'

- Environmental subsidies and regulations are here to stay
- In line with economic necessity
- Lower and precision-input farming
- Influences collaboration



Sutherland, L.A. (In Press) Can Organic Farmers Be 'Good Farmers'? Adding the 'taste of necessity' to the conventionalisation debate. *Agriculture and Human Values*.

Land managers and the Agri-Environment

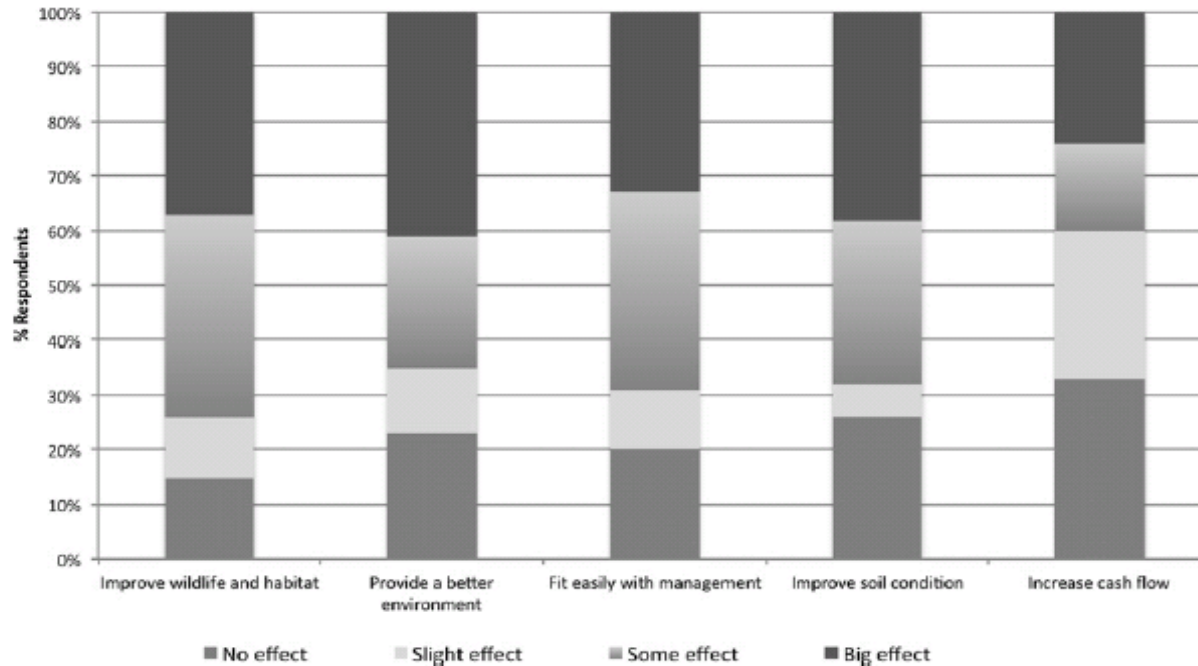


Fig. 2. Responses given to "motivation for AES participation" statements.

Guillem, E.E., Barnes, A.P. (2012). Farmers' perceptions of bird conservation and farm management at a catchment level. *Land Use Policy*

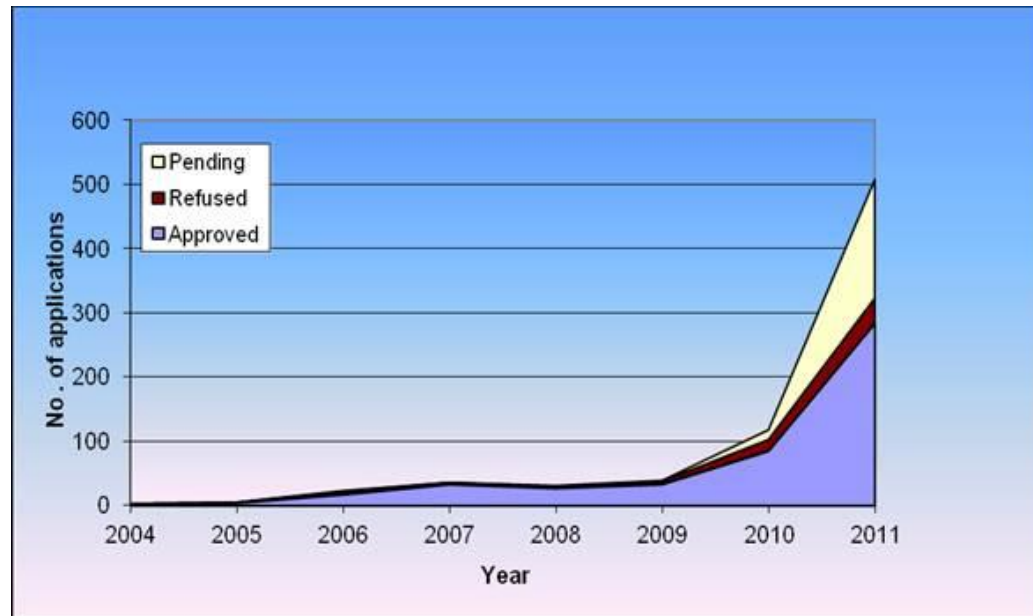
Land Managers and Climate Change



- ‘Farming for a better climate’
- Scepticism and risk perception
 - Islam, M., Barnes, A.P. and Toma, L. (2013). Climate Change scepticism among farmers. *Journal of Environmental Psychology (forthcoming)*.
 - Barnes, A.P., Islam, M. and Toma, L. (2013). Heterogeneity in Climate Change Risk Perception amongst Dairy Farmers: A Latent Class Clustering Analysis. *Applied Geography (forthcoming)*
 - Barnes, A.P., McCalman, H. and Buckingham, S. (2013). The role of environmental risk perceptions in the adoption of outwintering cattle strategies. *Journal of Environmental Management (forthcoming)*.
 - Shortall, O. and Barnes, A.P. (2013). Greenhouse gas emissions and the technical efficiency of dairy farmers. *Ecological Indicators 29, 478-488*.
 - Barnes, A.P., Willock, J., Toma, L. (2013). Comparing a ‘budge’ to a ‘nudge’: farmer responses to voluntary and compulsory compliance in water quality management regimes. *Journal of Rural Studies (forthcoming)*
- But awareness of resource depletion

Land Managers and Renewable Energy

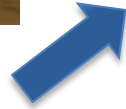
- The 'win-win' of stable business income and environmental benefits



Applications for Wind Turbine Developments in Aberdeenshire

Questions?

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