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School of GeoSciences, University of Edinburgh

WHO WE ARE

- The University of Edinburgh is one of the largest and most successful universities in the UK, with an international reputation as a centre of academic excellence. In June 2008 the Times Higher rated the university in the world top 8 for Ecology and Environment research. Its international character is reflected in its student population, which comprises 24,500 students from over 120 different countries worldwide. It can also be found in its truly international staff as well as in its joint research with overseas universities, institutes, companies and governments. The main body of work on this project will be carried out within the School of GeoSciences, which provides scientific evidence and analyses that support policies for sustainable development in the fields of energy and climate, land and water use, as well as international development. It is a hub for policy-related, interdisciplinary research and teaching within the University of Edinburgh.

WHAT OUR EXPERIENCE IS

- Coordination of FP7 projects
- Climate change impacts, adaptation and vulnerability assessment
- Land use change modelling and analysis
- Scenarios and other futures analysis techniques for environmental change assessment
- Agent-Based Models to analyse the effects of environmental change on land resource sectors
- Socio-ecological systems analysis
- Landscape ecology and spatial data analysis
- Conceptual frameworks for environmental assessment
- Ecosystem services and environmental change, and in particular how the ecosystem approach relates to traditional approaches to conservation.
- Climate mitigation analysis and policy
- Evaluating the role of land use and land cover change in the Earth system



WHAT WE DO IN IMPRESSIONS

- **Co-lead WP3 on advancing Climate Change Impact, Adaptation and Vulnerability methods and models**
- **Contribute to the European scale modelling methods, especially Agent-Based Modelling**
- **Leading the Scottish case study**
- **WP5 synthesis of results for assessing risks and opportunities, including uncertainty analysis,**
- **WP6 involvement, planning and execution of the stakeholder workshops and other dissemination activities.**

WE ARE ALSO INVOLVED IN

- CLIMSAVE (www.climsave.eu)
- OPERAs (www.operas-project.eu)
- VOLANTE (www.volante-project.eu)
- LUC4C
- UK NEA (<http://uknea.unep-wcmc.org/>)

Prof Mark Rounsevell



- Professor of Rural Economy and Sustainability specialising in land use change analysis, environmental change scenarios, agent-based modelling and climate change impacts, adaptation and vulnerability assessment.
- Coordinator of the FP7 OPERAs project and Deputy Coordinator of the Volante project. Lead Author to the 2nd, 3rd, 4th, and 5th IPCC Assessment Reports (Working Group 2).

Dr Marc Metzger



- Lecturer in Environment and Society with expertise in scenario development and vulnerability assessment. Research focusing on the potential impacts of global change on ecosystems and the services they provide to society.
- Deputy Coordinator of the OPERAs project and leader of the vulnerability assessment methodology developed within the FP6 ATEAM project.

Dr Calum Brown



- Postdoctoral research in land use change modelling.
- Research focus on the development and application of Agent-Based Models of land use change responses to global environmental change.
- WP leader in the Volante project.