

PROJECT REFERENCE NUMBER: IES-2009-300936

Doctoral Research Project Title	Mapping and modeling ecosystem services
Project Description	<p>There is increasing recognition that the economic benefits that humans derive from ecosystem services and biodiversity should be integrated in policy decisions that affect our environment. The essential components of such pan European ecosystem service assessment are the development of spatial ecosystem service and biodiversity maps, an economic valuation of ecosystem services and the development of a model simulating how drivers of change affect ecosystem services, habitat distribution and biodiversity. These drivers of change are essentially land use change, climate change, nutrient enrichment and pollution.</p> <p>The task of the candidate will be to develop spatially explicit GIS based ecosystem service maps that represent the production rate in biophysical units per unit area per unit time of regulating, provisioning and supporting ecosystem services. This assessment will feed an economic valuation study and needs to be coupled to driver-pressure models that can be used in scenario assessments.</p>
Qualifications	<p>Candidates have a PhD degree (or a university degree and 5 years relevant research experience) in natural sciences or geosciences or environmental science with a publication record in biodiversity or ecosystem related research. Candidates are expected to have a strong experience in modelling and spatial data analysis using also GIS. The candidate will work in a multidisciplinary team with ecologists and economists. Very good knowledge of English is required.</p>
Duration (min 12, max 36 months)	36 months

Scientific Responsible	J. Maes
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Further information can be found at: <http://ies.jrc.ec.europa.eu/action-21107.html>

Institute for Environment and Sustainability

Actions: AGRIENV/ATEAM – Unit H05