

1st Hamburg Workshop on Agent-based Modeling of Environmental Challenges and Climate Policy

The Research Unit Sustainability and Global Change (**Sascha Hokamp**, FNU) and the Research Group Climate Change and Security (**Jürgen Scheffran**, CLISEC), with support by the CliSAP Cluster of Excellence funded by the German Research Foundation, invite to a Workshop on Agent-based Modeling.

Workshop: Friday, **10th March 2017**, from 8 a.m. to 6 p.m.
 Saturday, **11th March 2017**, from 8 a.m. to 1 p.m.
Venue: Grindelberg 5, 20144 Hamburg, Germany

Nicolas Stern (Nature, 2016) reviews the problems of using integrated assessment models (IAMs) in climate economics and calls for a new wave of models, building on the advancements of agent-based models (ABMs): "ABMs, by contrast, seek to provide more-realistic representations of socio-economics by simulating the economy through the interactions of a large number of different agents, on the basis of specific rules. ABMs are widely used in finance, but have yet to be seriously applied to climate change. These are promising developments." (Stern, Nature, 2016).

To address these and related issues the workshop aims to bring together PhD students and researchers working on ABMs of environmental challenges and climate policy. Keynote speakers address major issues of this relationship: **Kristian Lindgren** (Chalmers University of Technology, Gothenburg, Sweden) provides insights on the complexity of energy systems by agent-based modeling; **Andrea Roventini** (Scuola Superiore Sant'Anna, Pisa, Italy) shows recent results from an integrated-assessment ABM of climate policy; and **Klaus G. Troitzsch** (Prof. Emeritus) presents the opportunities and limitations of ABMs in climate science.

Submissions of abstracts (300 to 500 words) or full papers dealing with one of the workshop topics are welcome by the social and natural sciences. Submissions can be made until **5th February 2017**, via email to

abm2017.clisap@uni-hamburg.de

Notice of acceptance is communicated no later than **12th February 2017**.
We look forward to your submission and hope to see you soon in Hamburg!

Workshop Organizers: Sascha Hokamp & Jürgen Scheffran
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