MODELLING **OAK PROCESSIONARY MOTH**



Sustainable Forest Management & Health Risk Control under Climate Change

Anne I. M.-Arnold, Maren Grüning, Sebastian Schulz, Carsten Thies, Carolin Vollrath, Annett Reinhardt & Thomas Zilla Georg-August-University, Büsgen Institute, Büsgenweg 2, 37077 Göttingen, Germany

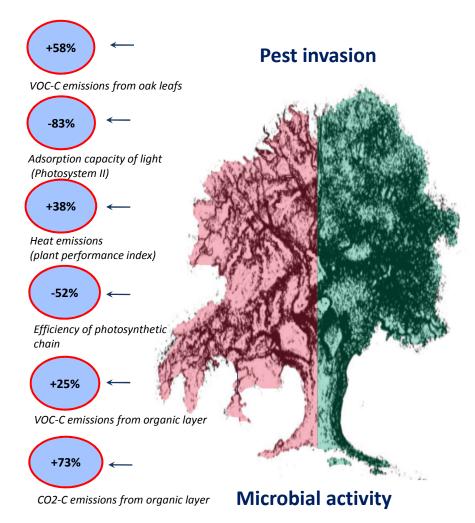
The Oak Processionary Moth (OPM) is one of the most dangerous invasive insect pests in urban and non-urban oak forests of Europe. Understanding its ecology is not only important to scientists, but also to stakeholders and policy makers.

This project explores risk factors of outbreaks at different spatial scales, ecosystem consequences of pest epidemics, human health strategies, and region-specific climate change mitigation policies.

Pest invasions reduce photosynthesis and increase greenhouse gas emissions in oak forests, thereby resulting in a carbon cycle feedback.

Pest infestations respond to large-scale and small-scale forest climate structures. with significant spatial clustering.

Spatial modelling provides a tool for risk assessments and climate change scenarios.



Rural Bavaria

