

EGU2020-19504

<https://doi.org/10.5194/egusphere-egu2020-19504>

EGU General Assembly 2020

© Author(s) 2021. This work is distributed under the Creative Commons Attribution 4.0 License.



Analyzing German transformation pathways' alignment with national and global climate and sustainability goals in the FABLE framework

Uwe A. Schneider and **Jan Steinhauser**

Universität Hamburg, Germany (uwe.schneider@uni-hamburg.de)

Successful implementation of the Paris climate agreement and the 2015 UN sustainability goals requires large-scale transformations in all relevant areas, with land-use and land-management among the most critical ones. On a global scale, a variety of transformation pathways has been discussed. However, these pathways often assume a uniform global transformation from which each country's transformation pathway follows in a top-down manner. This approach faces implementation difficulties due to inconsistencies between resulting country pathways and the respective country's political reality. Hence, a bottom-up approach may create less ambitious, but more realistic transformation pathways, both on a regional and global scale.

As part of an international effort to create national and global transformation pathways in line with the Paris climate agreement and the 2015 UN sustainability goals, this project aims to model impacts from current and projected German environmental policies and societal developments and to embed them into a broader international context. We analyze current data, trends and developmental goals for key aspects of German society and policies affecting environmental factors, utilizing the FABLE calculator.

By implementing these national results as well as data from analogous projects focusing on other countries into a global framework, we can compare the global impacts of projected national transformation pathways as well as needs for adjustment in regards to climate and sustainability goals. This approach will allow for partial corrections in each national model, more in line with each country's respective economic and political circumstances.