

Joint event with
ZEF
On-site & via
Zoom

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Dr. Thomas Hertel

“Global to Local to Global Analysis of Systems Sustainability “

September 27, 2022, 15:30 h CEST, Zoom

About the speaker

Thomas Hertel is Distinguished Professor of Agricultural Economics at Purdue University. Prof. Hertel's research and teaching focuses on international trade, food and environmental security. He is a 2022 recipient of the Alexander von Humboldt Research Prize and is a Fellow, and a Past-President, of the Agricultural and Applied Economics Association (AAEA), Fellow of the American Academy for the Advancement of Science (AAAS), and Honorary Life Member of the International Association of Agricultural Economists. He is also the founder and Executive Director of the Global Trade Analysis Project (GTAP) which now encompasses more than 25,000 researchers in 175 countries around the world. More recently, Hertel has initiated GLASSNET, a five-year, NSF funded project aimed at building a global network of networks to address sustainability challenges confronting the world's land and water resources. Professor Hertel has received a number of AAEA awards including, Outstanding Graduate Teacher, Publication of Enduring Quality, Distinguished Policy Contribution, Outstanding Journal Article and Quality of Communication. His research has also been recognized by the Australian Agricultural and Resource Economics Association (Best Journal Article) and the Ecological Society of America (Sustainability Science Award).

Dr. Hertel is on sabbatical in Berlin in 2022, sponsored by the Alexander von Humboldt Foundation and hosted by PIK.

The lecture is held at the ZEF, but will also be available via Zoom (talk will be recorded and published afterwards).

If you like to attend in person, please register [here](#).

Otherwise, the Zoom access is:

<https://uni-bonn.zoom.us/j/93369202266?pwd=MWwNqZ3JUSzFidGtGZHUkMGgvR2M0Zz09>

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Abstract

Ensuring the long-term sustainability of our land and water resources, even as we seek to meet the world economy's growing demands, requires informed management of the complex networks of policies, infrastructure and technologies that connect the food and resource nexus. In addressing this challenge, a global perspective is required to determine the boundary conditions facing local decision makers as they seek to craft policies to ensure a sustainable economy and planet. While global drivers are responsible for many of these local sustainability stresses, solutions are generally location-specific, necessitating fine-scale analysis. Furthermore, when combined, these local policy actions can feedback to the regional and global levels. Hence the need for Global-to-Local-to-Global (GLG) Analysis.

In this talk, Hertel will discuss recent GLG analysis undertaken in the Center for Global Trade Analysis at Purdue University in collaboration with colleagues from around the world. Topics will include the control of non-point source water pollution, groundwater sustainability policies, and climate-induced human heat stress. Hertel will conclude by highlighting GLASSNET*, a recently funded project from the National Science Foundation which aims to build a global network of networks to support GLG analysis of land and water sustainability.

* <https://mygeohub.org/groups/glassnet>

About the Lecture Series

The lecture series on Innovation Pathways to Sustainability is organized by the TRA Sustainable Futures. It is a forum for high profile and internationally visible scientists who are active in academia or at the science-policy interface. The lectures address an interdisciplinary audience of experts from natural, social, and engineering sciences as well as representatives from international and implementation-oriented organizations.