Workshop

Modelling international trade and climate challenges

21 April 2023
World Trade Institute – University Bern

Programme

8:30-8:40	Welcome and registration
8:40-8:45	Opening
8:45-9:30	Climate global policy modeling with the IMF-ENV model Hugo Rojas-Romagosa, IMF Research Department
9:30-10:15	A unified modelling framework for projecting sectoral greenhouse gas emissions Lukas Vashold, Vienna University of Economics and Business, WDL
10:15-11:00	Coffee break
11:00-11:45	The role of climate change in explaining trade patterns Emilia Lamonaca, University of Foggia
11:45-12:30	The international landscape of energy efficiency. An overview across measures of energy usage Patrick Tomberger, Leopold-Franzens University of Innsbruck
12:30-14:00	Lunch break
14:00-14:45	Localising data in a globalised world Eddy Bekkers, World Trade Organization
14:45-15:30	Modeling heterogeneous direct and third-country effects of the trade policy network Octavio Fernández-Amador, World Trade Institute
15:30-16:15	Spillover effects of subsidies in the 21st century. The role of monopolistic, dynamic, central, and high-growth sectors Kirti Jhunjhunwala, World Trade Organization

Presentations are expected to last for 30 minutes, leaving 15 minutes for a short discussion afterwards.

Climate challenges are progressively shaping the international policy agenda. Economic modelling must develop the tools to better understand the channels through which climate change and the economy are connected and the long-term dynamics that these links imply. At the same time, economic modelling should provide information about the potential inconsistencies between international policies and derive the implications for the design of better international cooperation and policies.

Recent advances in climate and economic modelling emphasize the interplay of econometric tools and multi-country, multi-sector general-equilibrium models. These different modelling approaches are jointly used for the definition of long-term baseline projections and policy scenarios, bringing together results related to climate, energy, socio-economic growth and international economics. This Workshop will discuss these challenges and invites applied and theoretical submissions linked to one or more of the following topics:

- Environment-economy estimation and modelling.
- Energy-economic models and energy transition.
- Estimation and modelling of economic and trade integration.
- Modelling using structural general equilibrium models.
- Linking econometric estimates to the structure of general-equilibrium models.
- Baseline construction and policy projections.
- Estimation of welfare and macroeconomic impacts of trade and climate policies.

The Workshop is hosted by the World Trade Institute at the University of Bern. Participation is free.

Organizing committee

Jesús Crespo-Cuaresma (WU Vienna University of Economics and Business)
Octavio Fernandez-Amador (World Trade Institute, University of Bern)
Joseph Francois (World Trade Institute and Department of Economics, University of Bern)
Doris A. Oberdabernig (Leopold-Franzens University Innsbruck)

Location

World Trade Institute
Hallerstrasse 6
3012 Bern
Switzerland

For further information please write to phd.programme@wti.org.

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