



**Global Trade Analysis Project**

# **GTAP Consortium Report**

June 2025 – May 2026

Prepared by:

**Center for Global Trade Analysis**  
Department of Agricultural Economics  
Purdue University

# Message from the Director

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Dear GTAP Consortium Members,

Thank you for your continued engagement with GTAP and for the time, advice, and support that so many of you have provided. It has been a pleasure and a privilege to serve as Director of GTAP since January 1, 2025.

These are not simple times. The past 15 months have been characterized by substantial change, with significant implications for consortium members and for GTAP itself. For many members, one practical consequence has been tighter budget conditions. We are therefore especially appreciative of the efforts consortium members have made to engage with GTAP in this current context.

At the interim virtual consortium meeting in January, we reported that GTAP had returned to positive cash flow, a key goal. Nevertheless, the operating environment remains fluid. For example, since the interim meeting, MIT and Infinite Sum Modeling have elected to allow their consortium memberships to lapse due to budgetary limitations. This greater-than-normal churn in consortium membership highlights the need for GTAP to be agile and responsive in pursuit of our mission to provide global public goods.

One innovation already put in place is the interim annual consortium meeting. We believe that the first one was a success. We structured that meeting principally around five working groups. In our view, this working group approach helped to focus attention on specific priorities, engage consortium expertise more directly, and maintain momentum between our annual in-person meetings. As such, we expect to continue this approach. Suggestions on working groups for the coming year are welcome. For example, I would like to suggest a working group on the application of artificial intelligence.

Since the interim meeting, GTAP has continued to make concrete advances. With respect to data, Version 12 of the GTAP Data Base was released to the public in February, approximately four months after prerelease to consortium members. In addition, GTAP-CM, the critical minerals database with base year 2017, was made available to consortium members in mid-April. We are actively working on GTAP-CM with base year 2023 in collaboration with interested consortium members, and we aim to release this much more up to date and policy relevant version as early as this (Northern) summer. On the research side, we expect to publish shortly a *New Trade Landscape Report* aimed at bringing GTAP's analytical strengths to bear on a changing trade policy context. In GTAP's role as a platform for discussion and debate, we hosted a third policy seminar focused on trade and security, establishing a rhythm of approximately one policy seminar and one technical seminar per quarter.

Looking further forward, the GTAP Hub continues to pursue the ideas and priorities set forth in the [GTAP Vision to 2035 and Beyond](#) document published in late 2025. In this context, I would like to highlight three initiatives, all aligned with the ideas set forth in the Vision document, to be discussed at the 2026 consortium meeting. First, GTAP is deepening its relationship with The Earth Economy Modelers (TEEMs) at the University of Minnesota and with the Natural Capital Alliance. A key ambition of this work is to incorporate Gross Ecosystem Product (GEP) data—currently available for roughly 200 countries across 35 accounts—and associated modeling structures into the GTAP toolkit, thereby allowing natural capital to be more fully incorporated into GTAP-based analyses. Second, GTAP aims to develop and begin implementing a comprehensive modeling course prior to the June 2027 Consortium meeting. Third, the GTAP Hub has been actively pursuing the formation of simulation modeling communities in Brazil, South Africa, Egypt, Türkiye, India, Indonesia, and Vietnam.

In Kyoto, we look forward to discussing progress and paths forward in these and other domains and to receiving your feedback on key priorities as we all seek to navigate these not-so-simple times.

Sincerely,



Channing Arndt, Director  
Global Trade Analysis Project

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# About GTAP

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Founded in 1992 at [Purdue University](#), the Global Trade Analysis Project supports a network of over 34,000 individuals engaged in quantitative analysis of 21<sup>st</sup> century challenges. A [consortium](#) of leading national, international, and private institutions provide baseline financial support and strategic advice. Guided by a philosophy of collaboration in domains of mutual benefit, notably data development, combined with an open marketplace for ideas in analytics, GTAP aims to advance high-quality quantitative analysis of global issues and facilitate deliberate decision-making. To this end, GTAP

## 1. **Lowers barriers** for conducting high-quality analysis of global issues

[Data](#) - GTAP assembles, documents, and makes publicly available a suite of databases that are widely regarded as the gold standard for global economywide analysis.

[Models, tools, and software](#) - GTAP develops and makes publicly available a suite of cutting-edge and fully documented models and tools and collaborates with leading analytical software providers and the open-source programming community in the application of those models.

[Training](#) - GTAP offers regular training courses, ranging from introductory to advanced, to scaffold network members in the application of the data, models, and software.

## 2. **Conducts research** on pressing issues with global ramifications

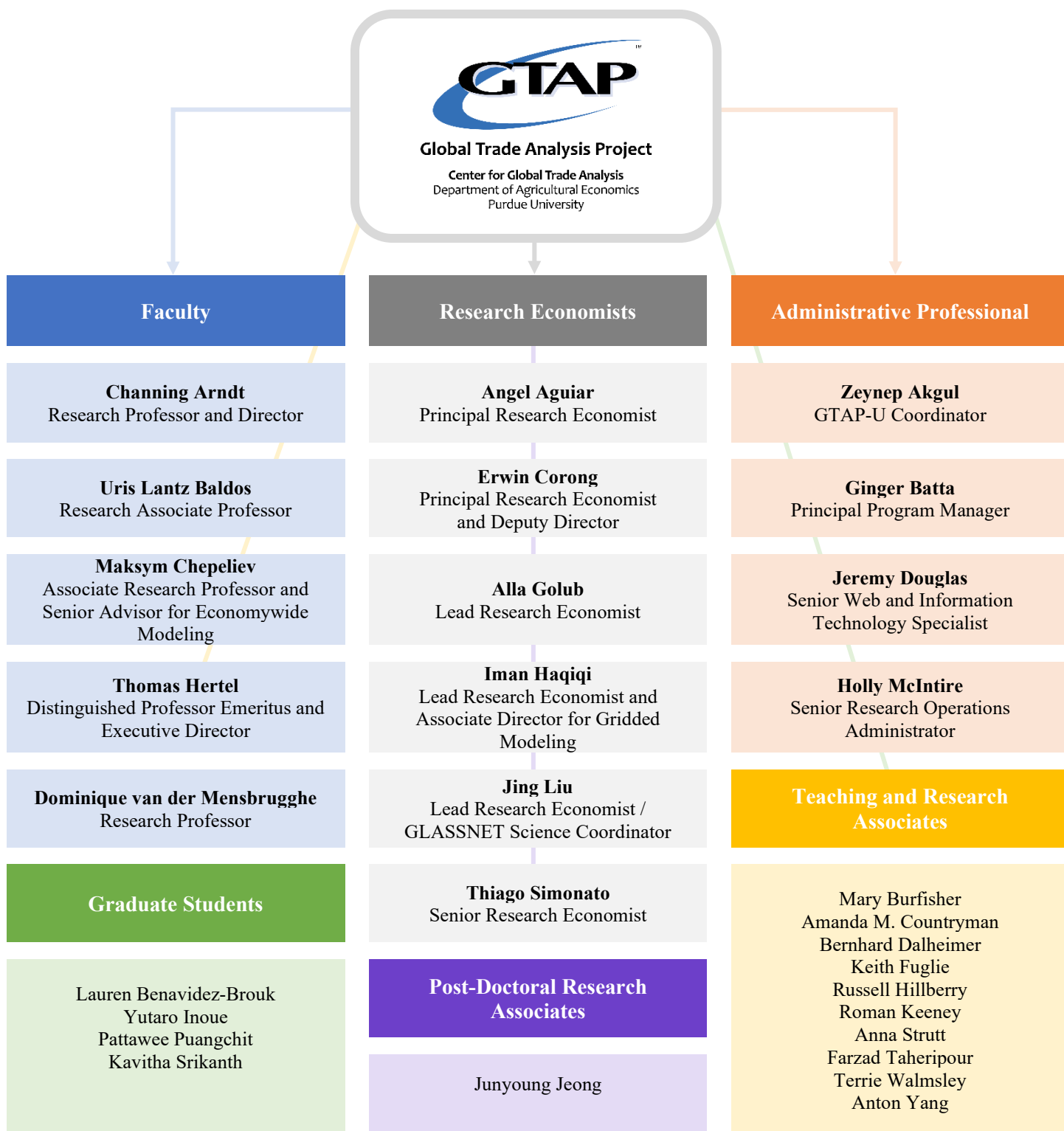
While the bulk of GTAP-related research is conducted by GTAP Network members, the Center for Global Trade Analysis houses one of the largest groups of top-flight economywide modelers in the world. This unique concentration of skill is buttressed by sector expertise, notably in energy and food systems. Guided by a distinguished [Scientific Council](#), GTAP researchers, often in collaboration with network members, address a range of issues including trade and industrial policy, energy transitions, climatic change, economic development, biodiversity preservation, pollution abatement, and the circular economy.

## 3. **Serves as a platform** for discussion and dissemination of novel approaches and new ideas

GTAP brings together thought leaders at the [Annual Conference on Global Economic Analysis](#), fosters innovation through the peer-reviewed [Journal of Global Economic Analysis](#), hosts a [Virtual Seminar Series](#), and maintains an active presence on [social media](#).

GTAP-related analytics are a regular feature in the world's most prestigious scientific journals and inform a vast array of decision-making processes by governments, international organizations, and private entities around the world.

# About GTAP – Personnel



# About GTAP - Consortium

Consortium Agency	Representative	Meeting Attendee
Asian Development Bank	Jong Woo Kang	Roshen Fernando
Centre d'Etudes Prospectives et d'Information Internationales	Antoine Bouët	Houssein Guimbard
CSEP Research Foundation	Rajesh Chadha	Ganesh Sivamani
Department for Business & Trade	Michael Williams	Michael Williams
Economic and Social Research Institute, Cabinet Office	Susumu Suzuki	Susumu Suzuki
Economic Research Institute for ASEAN and East Asia	Lurong Chen	Lurong Chen
European Commission - DG Trade	Jan Schmitz	Jan Schmitz
European Commission - Joint Research Centre	Matthias Weitzel	Matthias Weitzel
Food and Agriculture Organization of the United Nations	Aikaterini Kavallari	<i>Not attending</i>
Global Affairs Canada	Shenjie Chen	Shenjie Chen
Inter-American Development Bank	Paolo Giordano	Paolo Giordano
International Food Policy Research Institute	Fousseini Traore	Fousseini Traore
International Monetary Fund	Hugo Rojas-Romagosa	Hugo Rojas-Romagosa
King Abdullah Petroleum Studies and Research Center	Olivier Durand-Lasserve	<i>Not attending</i>
KPMG International Services Limited	Matthew Weston	<i>Not attending</i>
McKinsey & Company, Inc.	Jeffrey Condon	Jeffrey Condon
Organisation for Economic Co-operation and Development	Przemyslaw Kowalski	Jean Chateau
The World Bank	Maryla Maliszewska	<i>Not attending</i>
Thünen Institute of Market Analysis	Janine Pelikan	Janine Pelikan
U.S. Department of Agriculture, Economic Research Service	Utpal Vasavada	<i>Not attending</i>
U.S. Department of Commerce	Chris Rasmussen	Julian Richards
U.S. Environmental Protection Agency	Andrew Schreiber	<i>Not attending</i>
U.S. International Trade Commission	William Powers	William Powers
United Nations Development Programme	Babatunde Abidoye	Babatunde Abidoye
United Nations Economic and Social Commission for Western Asia	Mohamed Abdelbasset Chemingui	Mohamed Abdelbasset Chemingui
United Nations Economic Commission for Africa	Stephen Karingi	Simon Mevel
Wageningen Social and Economic Research	Hans van Meijl	Heleen Bartelings
World Trade Organization	Eddy Bekkers	Eddy Bekkers

Members at Large	Representative	Meeting Attendee
Software/Modeling Community	Michael Jerie	Michael Jerie
Environment/Sustainability Community	Ruth Delzeit	<i>Not attending</i>
Trade/Globalization Community	Anna Strutt	Anna Strutt

# Executive Summary

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## Key Accomplishments

The list below highlights key accomplishments by the Center for Global Trade Analysis towards goals established during last year's GTAP Consortium Meeting.

### Data Goal

- GTAP 12 released (2023 reference; full public release Feb 2026)
- Expanded I-O data (new + updated country tables)
- Core datasets (GMig, MRIO, GDyn v12) → near completion
- GTAP-Power completed; Circular Economy + NTMs → ongoing
- Build system overhaul + disaggregation automation → largely complete
- Expanded datasets: GHG emissions, SSP tools (R), livestock, minerals
- Secondary data (labor, margins, nutrition) → in progress
- GTAP 13 planning initiated (2025 reference year)

### Research Goal

- JGEA maintained as high-impact, open-access CGE journal
- Major research: livestock-climate-diet, land use, trade-climate nexus
- New modeling: agriculture/forestry climate impacts, spatial land use
- Dietary transition → top-tier publications
- GTAP-AEZ enhancements (land conversion modeling)
- Scientific Council White Paper → future trade policy research agenda
- Ongoing projects: climate damages, green transition scenarios
- Food loss/waste, domestic resource mobilization (Africa) advanced
- Coal phase-out impacts → completed

### Model Goal

- GMig v7 → near completion
- GTAP-AEZ (alt land use) + segmented labor models → completed
- Flexible nesting + investment specification research → ongoing

### Education Goal

- Courses delivered: GTAP Short Course, GTAP 101 Course (2x), GTAPinR pilot
- Curriculum updates: GTAP PTA → GTAP Modeling Trade Policy (MTP), Dynamic Course revisions
- New courses: GTAPinR, SIMPLE (in progress), Comprehensive Course (pipeline)

### Staffing Goal

- GTAP-EU remains a work in progress with an uncertain outcome.
- The GTAP Hub announces new titles for key personnel
  - Erwin Corong, Deputy Director
  - Iman Haqiqi, Associate Director for Gridded Modeling
  - Maksym Chepeliev, Senior Advisor for Economywide Modeling

### Collaboration Goal

- Conferences: 2026 Kyoto; 2027 Montreal; 2028 Brussels; 2029 planning
- 11 virtual seminars delivered (technical + policy)
- Expanded global institutional partnerships

### Communication Goal

- GTAP and JGEA website upgrades (design, security, accessibility, performance)

# GTAP Consortium Meeting Agenda



**Monday, June 15**

Kyoto International Conference Center (Room B2)  
422 Iwakura Osagicho, Sakyo Ward, Kyoto 606-0001 Japan

Time	Agenda
9:00-9:30am	<b>Welcome Coffee</b> (Room B2 Lobby)
9:30-11:15am	<b>Meeting and Operational Updates</b> (Chair: Jan Schmitz)
	9:30-9:45 <b>Meeting Overview</b> (Channing Arndt)
	9:45-9:55 Discussion
	9:55-10:05 <b>Center Management and Finances</b> (Channing Arndt)
	10:05-10:15 Discussion
	10:15-10:25 <b>GTAP Evaluation</b> (Channing Arndt)
	10:25-10:35 Discussion
	10:35-10:45 <b>GTAP Scientific Council Update</b> (Thomas Hertel)
	10:45-10:55 Discussion
	10:55-11:05 <b>GTAP-EU, GTAP/Purdue, and GTAP/China Updates</b> (Channing Arndt)
	11:05-11:15 Discussion
11:15-11:45am	<b>Break</b> (Room B2 Lobby)
11:45am-12:45pm	<b>GTAP Data and Modelling Updates</b> (Chair: William Powers)
	11:45-11:55 <b>GTAP Data Base and Updates on Services Working Group</b> (Angel Aguiar)
	11:55-12:05 Discussion
	12:05-12:15 <b>New Build, SSP data and Updates on Protection Working Group</b> (Thiago Simonato)
	12:15-12:25 Discussion
	12:25-12:35 <b>GTAPAgg3, Income/Factor taxes, and Labor</b> (Erwin Corong)
	12:35-12:45 Discussion
12:45-2:10pm	<b>Lunch</b> (Swan)
2:10-3:30pm	<b>GTAP Data and Modelling Updates</b> (Chair: Hugo Rojas-Romagosa)
	2:10-2:20 <b>Land Use and Land Cover</b> (Uris Baldos)
	2:20-2:30 Discussion
	2:30-2:40 <b>Power, Emissions, and Critical Materials</b> (Maksym Chepeliev)
	2:40-2:50 Discussion
	2:50-3:00 <b>GTAP Online Simulation Tool</b> (Erwin Corong and Simon Mevel)
	3:00-3:10 Discussion
	3:10-3:20 <b>GTAP SIMPLE-G and Gridded Economic Analysis</b> (Erwin Corong)
	3:20-3:30 Discussion
3:30-4:00pm	<b>Break</b> (Room B2 Lobby)
4:00-5:00pm	<b>GTAP-U Updates and GTAP Research Fellows</b> (Chair: Janine Pelikan)
	4:00-4:20 <b>GTAP-U Comprehensive and Short Courses</b> (Zeynep Akgul and Channing Arndt)
	4:20-4:40 Discussion
	4:40-4:50 <b>GTAP Research Fellows</b> (William Powers)
	4:50-5:00 Discussion and Vote
7:00pm	<b>Dinner</b> (The Prince Kyoto Takaragaike, Hiei Room - 1092 Iwakura Hataedachō, Sakyo Ward, Kyoto 606-0015 Japan)

# GTAP Consortium Meeting Agenda



**Tuesday, June 16**

Kyoto International Conference Center (Room B2)  
422 Iwakura Osagicho, Sakyo Ward, Kyoto 606-0001 Japan

Time	Agenda
8:30-9:00am	<b>Welcome Coffee</b> (Room B2 Lobby)
9:00-10:50am	<b>Forward Looking 1</b> (Chair: Heleen Bartelings)
	9:00-9:10 <b>Gross Environmental Product - Data</b> (Justin Johnson)
	9:10-9:20 Discussion
	9:20-9:30 <b>Natural Capital – Modeling</b> (Justin Johnson and Erwin Corong)
	9:30-9:40 Discussion
	9:40-10:00 <b>Bilateral Trade Data</b> (Mark Gehlhar and Angel Aguiar)
	10:00-10:10 Discussion
	10:10-10:35 <b>New Initiative Suite</b> (Channing Arndt)
	10:35-10:50 Discussion
10:50-11:20am	<b>Break</b> (Room B2 Lobby)
11:20am-12:30pm	<b>Forward Looking 2</b> (Chair: Fousseini Traore)
	11:20-11:35 <b>Financing New Initiatives</b> (Channing Arndt)
	11:35-11:50 Discussion
	11:50-12:00 <b>Bioenergy and the Natural Capital Alliance</b> (Uris Baldos and Erwin Corong)
	12:00-12:10 Discussion
	12:10-12:20 <b>Working Groups for 2026-27</b> (Angel Aguiar and Erwin Corong)
	12:20-12:30 Discussion
12:30-1:45pm	<b>Lunch</b> (Swan)
1:45-2:15pm	<b>Parking Lot</b> (Chair: Channing Arndt)
2:15-2:45pm	<b>Forthcoming Year Priorities</b> (Chair: Jeffrey Condon)
	2:15-2:30 <b>Priority Overview</b> (Channing Arndt)
	2:30-2:45 Discussion
2:45-3:00pm	<b>Meeting Wrap-Up</b> (Channing Arndt)
3:00-3:45pm	<b>Break</b>
3:00-5:00pm	<b>Early Conference Check-in</b> (Room B2 Lobby) We encourage those registered for the conference to collect their conference materials during this time to avoid the line Wednesday morning.
3:45-5:00pm	<b>Artificial Intelligence and the Policy Formation Process</b>

# Center Goals: Progress Updates on Previous Year Goals



## Data Goal

To improve the quality of data products through improving the quality of contributed I-O data, adding and improving other datasets, monitoring data quality using comparison programs, and versioning control and documentation

Tasks	Responsibility
<b>Primary Priorities</b>	
Maintain GTAP release schedule	Aguiar
<i>Released 2023 reference year to the consortium in October 2025 and GTAP 12 to the public in February 2026.</i>	
Work with IO table contributors	Aguiar
<i>The following tables have been received: Lesotho (New), Brazil, India, Japan, Nigeria, Pakistan, Thailand.</i>	
GTAP-Migration for version 12	Aguiar
<i>Work is ongoing. To be released prior to the consortium meeting.</i>	
GTAP-MRIO and WIOD like format	Corong
<i>To be released before the consortium meeting.</i>	
Forward looking tariffs and NTMs	Corong
<i>NTM data work is ongoing for GTAP 12 reference year 2023.</i>	
GDyn for version 12	Golub
<i>GDyn Data Base consistent with the GTAP version 12 Data Base is a work in progress and will be completed and made available before the consortium meeting.</i>	
GTAP-Power for version 12	Chepeliev
<i>Developed and distributed to the consortium members.</i>	
GTAP-Circular Economy for version 12	Chepeliev
<i>Under development. Data collections are in progress.</i>	
Data-program separation	Simonato
<i>Under development</i>	

<b>Tasks</b>	<b>Responsibility</b>
Improve disaggregation module	Simonato
<i>Developed a mechanism to automate the adaptation of solution parameters in a clean and parallelized manner, improving robustness and scalability of the disaggregation process.</i>	
GTAP New build system development	Simonato
<i>Pre-APT, APT, and about half of post-APT stages are done; remaining work underway ahead of the consortium meeting.</i>	
<b>Secondary Priorities</b>	
Prepare plan for GTAP 13 development	Aguiar
<i>2025 new reference year for GTAP 13. To be pre-released to consortium members ahead of the 2027 consortium meeting.</i>	
Domestic Margins	Corong
<i>Work is ongoing. GTAP 12 reference year 2023 data to be shared with consortium members towards the end of the year.</i>	
Labor data by Education	Corong
<i>Work is ongoing. GTAP 12 reference year 2023 data to be shared with consortium members in the fall.</i>	
Nutritional Accounts	Chepeliev
<i>Under development</i>	
Complementary GHG emissions (includes air pollution)	Chepeliev
<i>Developed and included to the public distribution.</i>	
IO multipliers or Emission factors	Chepeliev
<i>Developed for version 11; Under development for version 12.</i>	
GTAP-SSP integration tools (R package)	Simonato
<i>R package and documentation available, including options for customizable aggregation. SSP data is included in the GTAP 12 distribution. Working paper is in progress.</i>	
Development of the GTAP Data Base with disaggregated livestock sectors	Chepeliev, Golub, van der Mensbrugge
<i>The GTAP team continues collaboration with colleagues from the Food Systems &amp; Global Change Initiative at Cornell under the NIFA USDA sponsored project titled “Meeting 21<sup>st</sup> Century Objectives in Livestock Sectors: Challenges and Opportunities”. Cornell team recently completed a new livestock data set circa 2020. The</i>	

Tasks	Responsibility
<i>GTAP team is in the process of updating the GTAP-LVS data base using a new livestock biophysical data produced by the Cornell team.</i>	
Finalize and test the updated 'FIT' procedure	van der Mensbrugge
<i>The new 'FIT' procedure has largely been finalized and documented. It needs further diagnostic testing to ensure that it aligns with the current production version of the 'FIT' procedure and integration into the new build stream.</i>	
Development of the GTAP Critical Minerals Data Base	Chepeliev
<i>Developed for version 11 and distributed to consortium members. Updating to version 12 is in progress.</i>	

# Center Goals: Progress Updates on Previous Year Goals



## Research Goal

To actively participate in quantitative economic analysis of pressing global concern in the areas of trade and development and global environmental issues

Tasks	Responsibility
<b>Primary Priorities</b>	
<i>Journal of Global Economic Analysis</i>	Hertel, Winchester
<p><i>The Journal of Global Economic Analysis (JGEA) is now in its eleventh year and is co-edited by Tom Hertel and Niven Winchester. The JGEA remains highly ranked with a ten-year, simple impact factor of 11, placing it at 66 out of 4,550 economics journals listed in RePEc. The JGEA publishes only foundational papers in the field of CGE analysis. These include theory, methods, data, estimation and software, as well as perspective papers. All papers are replicated in advance of publication and must be accompanied by a comprehensive set of files allowing readers to do the same. For all of these reasons, the number of articles published is limited. In 2025 the JGEA published four papers in each of the two volumes. Importantly for our global community, the journal is open access, and submissions are also free of charge. The Center, through the consortium’s annual contributions, underwrites the costs of maintaining the JGEA.</i></p>	
Sustainable transition of the livestock sector: climate change mitigation, healthy diets and policies promoting circularity	Chepeliev, Golub, van der Mensbrugge
<p><i>The NIFA USDA sponsored project titled “Meeting 21st Century Objectives in Livestock Sectors: Challenges and Opportunities” includes construction of the GTAP Data Base with a disaggregated representation of the livestock sector (see related task under Data Goals), and analysis of the impacts of climate change mitigation, healthy diets, circularity and trade policies on the heterogeneous livestock sectors. Preliminary analyses conducted under this project were presented at the 2025 GTAP, AAEA conferences, and IATRC Annual Meeting. Updated analyses will be presented this summer and submitted for publication in academic journals.</i></p>	
Exploration of Brazil-US land use scenarios focusing on multi-cropping activities	Baldos, Corong, Wang
<p><i>This cooperative research agreement with the USDA’s Office of Chief Economist (OCE) and Economic Research Service (ERS) aims to improve analyses of land use policies and multi-cropping activities at both national and global levels. It also aims to mainstream and create documentation for the GTAP Biofuel data construction and to incorporate Biofuel specifications in the GTAP version 7 model. The team recently completed a preliminary version of the GTAP Biofuel database workflow and documentation which were shared with OCE and ERS. This research also evaluates the country-level impacts of agricultural policies and capacities to address future demand for food and energy, by extending the widely-used GTAP (Corong et al. 2017) and SIMPLEG (Baldos et al. 2020) models with spatially explicit land use information at the grid-cell level. The novel GTAP-SIMPLEG (Wang 2025) model is extended to incorporate grid-cell level soy-corn double-cropping information at 5-arcmin resolution in Brazil, as well as econometrically-estimated land supply expansion elasticities at 5-arcmin resolution level for both Brazil and the United States.</i></p>	
Impacts of climate change on forest and agricultural systems, and role of adaptation in the supply of forest carbon sequestration	Golub

Tasks	Responsibility
<p><i>This NIFA USDA sponsored project is collaboration with the team at Ohio State University and USDA Forest Service to develop a new structural dynamic optimization model of global agricultural and forest systems, integrate the model with new climate impact data in forestry and agriculture, and conduct policy analysis to determine how mitigation and bioenergy supply potential may be affected by climate change. Progress during this reporting period includes development of biome and region aggregation of the model, construction of agricultural and forest data sets, compilation of agricultural impact projections from the GGCMI database, compilation of historical and projected impacts on forests from several ISIMIP dynamic global vegetation models, and preliminary version of the model. Preliminary analysis based on historical simulations was presented at the AGU and AARES.</i></p>	
<p>Assess the nexus of trade and climate change—climate impacts, mitigation policies, and factors facilitating the green transition</p>	<p>Chepeliev, van der Mensbrugge</p>
<p><i>This set of research activities is conducted within the EU-funded HORIZON ENTICE project and involves collaboration across multiple teams/institutions from Europe. During the first year of the project key efforts have been focused on advancing representation of the relevant sectors in the GTAP Data Base to facilitate the future assessment of the trade-climate nexus. This data collections have been under way covering over 100 additional sectors of the GTAP Data Base ranging from livestock to critical minerals. In collaboration with colleagues from Politecnico di Milano, a data disaggregation utility has been developed that will allow to implement corresponding splits. In addition, literature review has been conducted on a number of related topics around trade-climate nexus, including overall methodological framework, critical minerals supply chains, and maritime decarbonization. Several perspective/review papers have been prepared on these topics and corresponding manuscripts are currently under review.</i></p>	
<p>Assessment of the global and US dietary transition and policies</p>	<p>Chepeliev, van der Mensbrugge</p>
<p><i>During the reported year, a number of papers on the dietary transition topic have been published, including publications in The Lancet, Nature Food, Lancet Planetary Health (see publications section for the list of corresponding papers). A set of new activities have been launched, including</i></p>	
<p>Alternative land use specification in the GTAP-AEZ model</p>	<p>Corong, Baldos</p>
<p><i>To the extent that future evaluation of trade policies by DG Trade involves assessing the impacts EU trade policies on land use changes, this research extended the DG-TRADE Model’s land supply specification to include an upward sloping function that allows land to move in and out of economic use via conversion of natural land. This new specification in compared with existing standard approaches used in the GTAP-AEZ version 7 model and the recursive dynamic GTAP-AEZ model with standard upward sloping land supply function with no additional land suitability information.</i></p>	
<p>GTAP Scientific Council Meeting</p>	<p>Hertel, Batta</p>
<p><i>The GTAP Scientific Council is comprised of leading scientists from the global economic and environmental analysis communities, including Joseph Francois (Chair), Frank van Tongeren (Vice-Chair), Emily Blanchard, Simeon Ehui, Lionel Fontagné, Frances Moore, Aline Mosnier, and Navin Ramankutty. The meeting opened with a report from the Center by Channing Arndt. The bulk of the time was devoted to discussing the White Paper on future needs to support trade-related policy analysis. The original idea for this White Paper emerged from last year’s meeting in which Matthias Weitzel proposed that we emulate the climate science community and write a paper outlining the research needs in quantitative global economic analysis over the coming decade. This is being led by a sub-committee of the Scientific Council which has decided to focus on trade-related policies, given the current challenges faced by those tasked with analyzing the impact of current and ongoing trade policy changes. Based on input from the Scientific Council, the White Paper will have 9</i></p>	

Tasks	Responsibility
<p><i>sections, covering cross-cutting institutional issues, market access uncertainty and economic security, trade policies and the green transition, the digital economy and artificial intelligence, investment and multinationals, distributional issues, trade and development in Sub-Saharan Africa, model validation, and research infrastructure. Each section has two lead authors. The author teams will be meeting for the first time in early May. The White Paper is being coordinated by Tom Hertel, from the GTAP Center. Hertel, Francois and van Tongeren have organized a session at this year's GTAP Conference focusing on the White Paper, with the goal of soliciting input from the GTAP Community.</i></p>	
<p><b>Secondary Priorities</b></p>	
<p>Assess economic impacts of climate change under NCEE/US EPA project</p>	<p>Chepeliev, van der Mensbrugge, Vandyck</p>
<p><i>This project explores different approaches to quantifying economic damages by leveraging a structural model of the global economy. We decompose macroeconomic outcomes by region, factor, and sector to reveal differences between top-down aggregate productivity shocks and a bottom-up representation of impact channels. The bottom-up impacts are largely following Roson and Sartori (2016) estimates with further refinements and updates, while top-down are based on Casey et al. (2023). While aggregate economic outcomes are comparable, region-specific results differ substantially between approaches at the tails of the distribution, driven by divergent international trade responses. Overall, our results suggest that a disaggregated representation of climate change impact channels is important for improving the understanding of aggregate economic outcomes and for informing effective adaptation policies that account for international trade spillovers. The paper with results from this project is currently under review in Energy Economics. The results of this project will be presented at the organized session at the GTAP conference in Kyoto.</i></p>	
<p>Participate in “Green Macroeconomic Modeling Initiative” (GMMI)</p>	<p>Chepeliev, van der Mensbrugge, Vandyck</p>
<p><i>Through model intercomparison, the GMMI aims to improve the ability of participating models to explore policies emerging around green economic transitions. The first set of scenarios – the Round 1 scenarios – focused on a global carbon price. In the Round 2 scenarios, the focus is on public spending on the green economy. In addition to the core baseline/reference scenario, three additional runs are being implemented: increased public spending; increased green public spending; and additional optional scenario (chosen by each modelling team). Round 2 scenarios are currently under implementation and will be submitted for consideration later this year.</i></p>	
<p>Analysis of the global food loss and waste historical trends and future scenarios</p>	<p>Chepeliev</p>
<p><i>Within the ongoing series of projects we have been looking at the parametrization of food loss and waste in the economy-wide models, food loss and waste estimates based on the historical data (food supply and estimates of net intakes), as well as modeling of future food loss and waste trends in the context of alternative dietary scenarios. Part of this work has been done within the framework of AgMIP and EAT-Lancet activities, while part has been supported by the CFDAS Purdue internal grant. Findings from this set of activities have been published in the special issue of the Lancet Planetary Health journal (Gatto and Chepeliev, 2025), as well as presented at the several conferences, including IATRC, IAMC and EAEE. Ongoing activities focus on the refinements of the historical food waste shares based on the food supply estimates from FAO and net intake estimates from available observations, reconciling them using the Bayesian hierarchical modeling.</i></p>	
<p>Domestic Resource Mobilization</p>	<p>Arndt, Corong</p>
<p><i>This Danida-funded partnership between the University of Copenhagen Development Economics Research Group (UCPH-DERG) and GTAP seeks to strengthen domestic resource mobilisation in sub-Saharan Africa by</i></p>	

Tasks	Responsibility
<p><i>combining frontier research, improved data, training, and policy engagement focused on revenue collection at the border and the longer-run transition toward more efficient and equitable tax systems. The Copenhagen component brings country-level empirical depth through five studies in Ethiopia, Kenya, Tanzania, and Uganda on issues such as border corruption, trust in the state, incentives for formal cross-border trade, formal employment, and taxation in the presence of informality. The GTAP component is more region-wide and systems-oriented: it leads the second component of the project, which strengthens simulation of alternative trade and tax policies through three linked activities—improving and expanding GTAP public finance data for nearly all sub-Saharan African economies represented in the database, developing and delivering evidence-based CGE training including a public finance module for officials and analysts, and conducting research on revenue mobilisation in the context of AfCFTA implementation, with direct engagement of tax and trade authorities in the focal countries and collaboration with partners such as UNECA and the IMF. In this way, the project links Copenhagen’s micro- and field-based evidence to GTAP’s comparative advantage in economywide data, modeling, and capacity building, with the aim of generating both immediate policy relevance and durable analytical capability in the region.</i></p>	
<p>Leaving Coal in the Ground: Estimating Market-Mediated Responses</p>	<p>Golub</p>
<p><i>The goal of this project is to evaluate the economic and GHG emissions implications of coal extraction avoidance projects in selected major coal producing countries. This completed project was funded by TransEnergy Global.</i></p>	

# Center Goals: Progress Updates on Previous Year Goals



## Model Goal

To promote further development of GTAP-based models

Tasks	Responsibility
<b>Primary Priorities</b>	
GTAP-Migration (GMig) version 7 model	Corong, Aguiar
<i>To be completed before the consortium meeting.</i>	
GTAP-AEZ version 7 model with alternative land use specification	Corong, Baldos
<i>Completed. In the process of writing technical documentation.</i>	
<b>Secondary Priorities</b>	
Assess different investment specifications in the GTAP-RD Model	van der Mensbrugghe
<i>The standard investment specification of the GTAP-RD model allocates the previous period's savings across all sectors assuming perfect transformability and a uniform cost structure irrespective of the destination sector of the investment expenditures. A preliminary assessment of alternative investment allocations was presented at the Kigali conference in June 2025. The work is ongoing in the context of the Center's participation in the EU Horizon-funded ENTICE project.</i>	
GTAP version 7 model with segmented labor	Corong
<i>Completed. Currently writing technical documentation</i>	
GTAP version 7 model with flexible nesting specification	Corong, van der Mensbrugghe
<i>Work is ongoing.</i>	

# Center Goals: Progress Updates on Previous Year Goals



## Education Goal

To expand and improve education for global economic analysis worldwide

Tasks	Responsibility
<b>Primary Priorities</b>	
Course Delivery: <ul style="list-style-type: none"> <li>• GTAP Short Course (June 2 - August 8, 2025)</li> <li>• GTAP 101 Course (September 1 - October 19, 2025)</li> <li>• GTAP 101 Course (March 16 - May 3, 2026)</li> <li>• GTAPinR Course (open enrollment)</li> </ul>	Batta, Akgul, Instructors Keeney, Et al. Countryman Countryman Not instructor-led
<p><i>GTAP Short Course – 1 offering, 19 graduates</i>  <i>One offering of the GTAP Short Course, under the leadership of Roman Keeney, was held since the last GTAP Consortium Meeting. The course was offered in two phases – first online, then followed by a residential, in-person phase at Purdue University.</i></p> <p><i>GTAP 101 Courses – 2 offerings, 42 graduates</i>  <i>Two offerings of the GTAP 101 Course, under the leadership of Amanda Countryman, were held since the last GTAP Consortium Meeting.</i></p> <p><i>GTAPinR Course – open-enrollment, 6 graduates (pilot offering)</i>  <i>An internal pilot run of the new GTAPinR Course ran from October 2025-January 2026. This course is open-enrollment, meaning that learners can enroll at any time. Once enrolled, learners are given 56 days to complete course, which consists for four modules on running the GTAP Model using the HARr and tabloToR packages. The pilot program was run to internally evaluate the course ahead of public launch, expected in mid-2026.</i></p>	
Curriculum Updates: <ul style="list-style-type: none"> <li>• identify materials that require updates</li> <li>• propose new course materials to fill any possible gaps in the course</li> <li>• develop/review new and updated course materials</li> </ul>	Akgul, Batta
<p><i>The GTAP Preferential Trade Agreements (GTAP PTA) Course is currently under revision, with the next offering planned for October 2026. As part of this update, a new module is being added to expand coverage of alternative mechanisms for implementing non-tariff measures. The course has also been renamed the GTAP Modeling Trade Policy (MTP) Course to better reflect its policy relevance. Future offerings will incorporate additional trade policy-oriented case studies.</i></p> <p><i>The GTAP Dynamic Short Course is also scheduled for revision before its January 2027 offering, with planned updates to lectures and hands-on exercises.</i></p> <p><i>In addition, all course homepages have been revised to include new promotional content to highlight the skill-building value, learning objectives, and practical relevance of each course.</i></p>	
Complete/Launch:	Akgul

Tasks	Responsibility
<ul style="list-style-type: none"> <li>• module repository system               <ul style="list-style-type: none"> <li>○ develop instructor guidelines for usage and access</li> <li>○ new common module content developed (e.g., RunGTAP, FAQ data base, etc.)</li> </ul> </li> <li>• systematic documentation of GTAP model extensions (two tracks – for instructors and for non-staff users)</li> </ul>	
<p><i>The development of a module repository system and model library is underway.</i></p>	
<p>New Course Development:</p> <ul style="list-style-type: none"> <li>• Meet with instructors, consortium members, course participants and colleagues in the network to identify demand for core and specialized training in CGE modeling</li> </ul>	Akgul, Batta, course instructors
<p><i>The GTAPinR Course has been completed and is being finalized for public launch in early-mid 2026. Designed as a fully online, self-paced course for current GTAP users, it introduces practical R-based tools for model operation, data handling, and visualization. The course is organized into four modules covering R data structures, the HARr package, the tabloToR package, and additional tools for future skills development. The course has been implemented on Brightspace, and a pilot run was conducted within the Center. The course will follow an open-enrollment model, allowing participants to enroll throughout the year. Start and end dates will be defined individually based on each participant’s enrollment date, providing a flexible structure that can better accommodate varying schedules and professional commitments.</i></p> <p><i>The SIMPLE-G Course is also undergoing substantial redesign as a fully online stand-alone course built around the SIMPLE model within an interdisciplinary economic framework. The revised curriculum is planned as a five-week program that addresses issues such as population growth, scarcity, and productivity growth, while incorporating perspectives from climate science, agronomy, and related fields. The overall structure has been finalized, content development has begun, Module 1 has been completed and is under review, and Module 2 is currently in development.</i></p> <p><i>A major medium-term development is the GTAP Comprehensive Course, for which an initial curriculum design and proposal preparation have been completed. The proposal revision and Module Committee selection are underway. This program is intended to strengthen long-term institutional capacity for economy-wide policy analysis by developing a pipeline of trained modelers within government, research, and academic institutions. It is structured as three progressive modules that move participants from informed users of CGE analysis to independent modelers. Module 1 introduces the foundations of economy-wide analysis and policy simulation interpretation; Module 2 focuses on core CGE modeling, data, and model operation; and Module 3 advances participants toward independent policy modeling through analytical extensions and applied analysis. A distinctive feature of the program is the use of recurring policy case studies, enabling participants to revisit issues such as trade, structural transformation, climate, energy, and growth at increasing levels of analytical depth. At this stage, the Comprehensive Course is being planned as a fully online offering without an onsite component. While the GTAP model will remain an important part of the course, the curriculum is being developed within a broader conceptual and methodological framework. Accordingly, the course is intended to extend beyond models coded in GEMPACK, as well as beyond the specific set of models currently supported by the Center, in order to provide broader coverage of CGE concepts and a wider range of analytical examples.</i></p>	
<p>Quality Assessments:</p> <ul style="list-style-type: none"> <li>• Regular review of course content and technical quality</li> <li>• Carry out post-mortem meetings with lead course instructors</li> <li>• Report the status of courses at staff meetings</li> </ul>	Akgul, course instructors

Tasks	Responsibility
<p><i>After each GTAP-U course, we conduct post-mortem sessions with lead instructors to review participant evaluations and identify priorities for revision. This year, we completed post-mortem reviews for both the Annual GTAP Short Course and GTAP 101 offerings and planned for minor revisions based on feedback. We have also outlined content updates for the next offerings of the GTAP MTP and Dynamic Short Courses.</i></p> <p><i>New federal regulations regarding Americans with Disabilities Act (ADA) have updated accessibility requirements for digital content in public institutions, including instructional materials, websites, shared documents, and digital applications. Our video materials were already compliant, as all content had been captioned in previous years. This year, Word, PowerPoint, and PDF materials have been reviewed and reformatted to improve accessibility compliance in all GTAP-U courses.</i></p>	
<p>Report on the status and future directions of GTAP-U</p>	<p>Akgul</p>
<p><i>The development and launch of the Comprehensive Course will be a key medium-term objective for GTAP-U. The Comprehensive Course is positioned not simply as a new offering, but as a strategic capacity-building framework with long-term institutional relevance. It is expected to support evidence-based policymaking, reduce reliance on external expertise, and foster collaboration across national and international networks.</i></p> <p><i>Our other future objectives include launching the GTAP for Non-Economists Course and SIMPLE course in the near term, while planning for the longer-term introduction of GTAP-E-Power and other specialized offerings. We are also committed to incorporating emerging technologies, including artificial intelligence, to enhance course interactivity, accessibility, and overall effectiveness.</i></p>	

# Center Goals: Progress Updates on Previous Year Goals



## Staffing Goal

To actively seek, retain, and encourage talented staff and graduate students

Tasks	Responsibility
<b>Primary Priorities</b>	
GTAP European Office	Arndt
<p><i>GTAP-EU has received support from Purdue management (those charged with the substantive operations of the university) at all relevant levels including an explicit go-ahead from the President of Purdue University. However, those charged with university administration remain unconvinced with respect to the reward to risk ratio. They have also been unable to envision how GTAP-EU would actually operate. Notably, they remain unclear on the role that Purdue administration would play in overseeing the operations of GTAP-EU and the concomitant burdens placed on Purdue administration. In light of the explicit backing of effectively all layers of management including the President, the risk of failure to obtain approval is, at this point, relatively small. The principal risk is that Purdue administration imposes operational restrictions that are so expensive and onerous that GTAP-EU becomes non-viable. This risk is, unfortunately, not small. The aim is to sort these issues prior to the August 2026 Board of Trustees meeting.</i></p>	
Staff	Arndt
<p><i>GTAP announces the following new GTAP position titles:</i></p> <ul style="list-style-type: none"> <li>• <i>Erwin Corong, Deputy Director</i></li> <li>• <i>Iman Haqiqi, Associate Director for Gridded Modeling</i></li> <li>• <i>Maksym Chepeliev, Senior Advisor for Economywide Modeling</i></li> </ul> <p><i>These changes are intended to:</i></p> <ul style="list-style-type: none"> <li>• <i>align titles more closely with the ongoing contributions of these three individuals,</i></li> <li>• <i>enhance clarity for consortium members, broader network members, and others on roles and points of contact in key domains, and</i></li> <li>• <i>improve information flow across major domains of GTAP such that synergies and opportunities are more likely to be realized.</i></li> </ul> <p><i>With these positions in place, the GTAP Hub is aiming to evolve towards a structure that is well-suited for the achievement of GTAP's mission.</i></p>	

# Center Goals: Progress Updates on Previous Year Goals



## Collaboration Goal

To actively seek opportunities for fostering collaboration with institutions around the world

Tasks	Responsibility
<b>Primary Priorities</b>	
2026 GTAP Conference (Kyoto, Japan)	Batta
<p><i>The 2026 GTAP Conference will be held at the Kyoto International Conference Center in Kyoto, Japan. The GTAP Consortium Meeting will be held June 15-16, immediately followed by the GTAP Conference, June 17-19.</i></p>	
2027 GTAP Conference (Montreal, Canada)	Batta
<p><i>The 2027 GTAP Consortium Meeting and Conference have been relocated from Purdue University in West Lafayette, Indiana, USA to the Palais des congrès de Montréal. The events will be held the week of June 14-18, 2027. The decision to relocate was driven by the current political climate in the US, as well as rising event costs at Purdue University. The venue contract has been secured and further planning will begin in July 2026.</i></p>	
2028 GTAP Conference (Brussels, Belgium)	Batta
<p><i>The 2028 GTAP Consortium Meeting and Conference will be held at the SQUARE Brussels Meeting Centre in Brussels, Belgium from June 19-23, 2028. The venue contract has been secured and further planning will begin in July 2027.</i></p>	
2029 GTAP Conference	Batta
<p><i>The Center for Global Trade Analysis is currently exploring potential venues in for the 2029 GTAP Consortium Meeting and Conference with the target of having a venue under contract by the end of 2026.</i></p>	
GTAP Virtual Seminar Series	Batta
<p><i>Seminars were held since the last GTAP Consortium Meeting:</i></p> <ul style="list-style-type: none"> <li>• <i>GTAP-WTO Virtual Seminar (Technical Seminar)</i> <ul style="list-style-type: none"> <li>○ <i>Knowledge Network Tariff Modelling</i> <ul style="list-style-type: none"> <li>▪ <i>Speakers: Zeynep Akgul, Eddy Bekkers, Przemyslaw Kowalski, Robert Waschik, James Giesecke, Martin Banse, Florian Freund, Divyayudha Khire, Erwin Corong, Eddy Bekkers, Jingliang Xiao, Shenjie Chen, Mohammad M. Khabbazan, Wen Jin Yuan</i></li> </ul> </li> </ul> </li> <li>• <i>GTAP-GLASSNET Virtual Brownbag (Technical Seminar)</i> <ul style="list-style-type: none"> <li>○ <i>Reconciling widely varying estimates of the global economic impacts from climate change</i> <ul style="list-style-type: none"> <li>▪ <i>Speakers: Chris Adam, Jennifer Morris, Steve Rose, Ishan Nath, Leonie Wenz, Tim Thomas, Fran Moore, Elmar Kriegler, Tom Hertel, Channing Arndt</i></li> </ul> </li> </ul> </li> <li>• <i>GTAP Virtual Seminar Series, Vol 6, No 3 (2025) (Technical Seminar)</i></li> </ul>	

Tasks	Responsibility
<ul style="list-style-type: none"> <li>○ <i>Short-cut Demand Elasticities and Other Convenient Approaches to Consumer Demand</i> <ul style="list-style-type: none"> <li>▪ <i>Speaker: Kenneth W. Clements</i></li> </ul> </li> <li>• <i>GTAP-ITC Virtual Seminar (Technical Seminar)</i> <ul style="list-style-type: none"> <li>○ <i>Trade remedies and AVEs challenges in the Market Access Map database: scope and implications for trade modelling</i> <ul style="list-style-type: none"> <li>▪ <i>Speaker: Dzmitry Kniahin</i></li> </ul> </li> </ul> </li> <li>• <i>GTAP Brown Bag Seminar (Technical Seminar)</i> <ul style="list-style-type: none"> <li>○ <i>What Lessons Do the Trade War of the 1930s Offer Model-builders &amp; Policy-makers in the 21<sup>st</sup> Century?</i> <ul style="list-style-type: none"> <li>▪ <i>Speaker: Mario Crucini</i></li> </ul> </li> </ul> </li> <li>• <i>GTAP Virtual Policy Seminar (Policy Seminar)</i> <ul style="list-style-type: none"> <li>○ <i>The new trade landscape and developing countries</i> <ul style="list-style-type: none"> <li>▪ <i>Speaker: Channing Arndt, Ngozi Okonjo-Iweala, Christian Friis Bach</i></li> </ul> </li> </ul> </li> <li>• <i>GTAP Virtual Seminar Series, Vol 6, No 4 (2025) (Technical Seminar)</i> <ul style="list-style-type: none"> <li>○ <i>Quantifying Disruptive Trade Policies</i> <ul style="list-style-type: none"> <li>▪ <i>Speaker: Edward Balistreri</i></li> </ul> </li> </ul> </li> <li>• <i>GTAP-UNDP Virtual Seminar (Policy Seminar)</i> <ul style="list-style-type: none"> <li>○ <i>Consultation on the 2026 Human Development Report: reimagining human-nature relationships</i> <ul style="list-style-type: none"> <li>▪ <i>Speakers: Pedro Conceição, Nicholas Depsky, Erle C. Ellis</i></li> </ul> </li> </ul> </li> <li>• <i>GTAP Virtual Seminar Series, Vol 7, No 1 (2026) (Technical Seminar)</i> <ul style="list-style-type: none"> <li>○ <i>GTAP 12 Data Base</i> <ul style="list-style-type: none"> <li>▪ <i>Speakers: Channing Arndt, Angel Aguiar, Thiago Simonato, Uris Lantz Baldos, Maksym Chepeliev, Erwin Corong</i></li> </ul> </li> </ul> </li> <li>• <i>GTAP Virtual Seminar Series, Vol 7, No 2 (2026) (Policy Seminar)</i> <ul style="list-style-type: none"> <li>○ <i>A new landscape for trade and security</i> <ul style="list-style-type: none"> <li>• <i>Speakers: Harry G. Broadman, Rachel Lyngaas, Fabian Villalobos</i></li> </ul> </li> </ul> </li> <li>• <i>GTAP Virtual Seminar Series, Vol 7, No 3 (2026) (Policy Seminar, co-organized with GLASSNET)</i> <ul style="list-style-type: none"> <li>○ <i>Gross Ecosystem Product (GEP) and Connections to GTAP-InVEST</i> <ul style="list-style-type: none"> <li>• <i>Speakers: Stephen Polasky, Tong Wu, Justin Johnson, Erwin Corong</i></li> </ul> </li> </ul> </li> </ul>	

# Center Goals: Progress Updates on Previous Year Goals

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## Communication Goal

To facilitate communication amongst members of the network as well as between the Center and key stakeholders

Tasks	Responsibility
<i>Primary Priorities</i>	
<b>Website updates: design, security, functionality, etc.</b>	Douglas
<i>Maintain and improve the Center's primary website, including design updates, security and vulnerability monitoring, accessibility, performance, content, and overall functionality. Manage installation, upgrades, and technical maintenance of the Journal of Global Economic Analysis (JGEA) OJS site, ensuring stable operation through platform and database changes.</i>	

# Center Goals: Forthcoming Year Action Items



## Data Goal

To improve the quality of data products through improving the quality of contributed I-O data, adding and improving other datasets, monitoring data quality using comparison programs, and versioning control and documentation

Tasks	Responsibility
<b><i>Key Priorities Related to GTAP 12</i></b>	
Development of the GTAP Data Base with disaggregated livestock sectors	Chepeliev, Golub, van der Mensbrugge
Incorporate EU domestic support	Philippidis, Aguiar
GTAP critical minerals database for 2023	Chepeliev
NTMs for GTAP 12	Corong
Domestic Margins	Corong
Labor data by Education	Corong
<b><i>Primary Priorities to GTAP 13</i></b>	
Publish GTAP 13 release schedule	Aguiar
Work with IO Table contributors	Aguiar
Work with merchandise trade contributor	Gehlhar, Aguiar
Work with tariff contributor	Pichot (ITC), Aguiar
Prepare services trade data	Aguiar
Prepare macroeconomic data	Inoue, Aguiar
Data-program separation	Simonato
FAO Agricultural Production	Simonato
GTAP New build system development	Simonato
<b><i>Secondary Priorities Related to GTAP 13</i></b>	
Incorporate ecosystem accounting into GTAP (Gross Environmental Product)	Johnson (U. Minnesota), Aguiar
Services trade disaggregation	Working group, Aguiar
Update other protection data (export taxes, domestic support)	Ajewole, Corong, Aguiar

# Center Goals: Forthcoming Year Action Items



## Research Goal

To actively participate in quantitative economic analysis of pressing global concern in the areas of trade and development and global environmental issues

Tasks	Responsibility
<b>Primary Priorities</b>	
Assess domestic resource mobilization in Africa, particularly in the context of tariff reduction commitments and trade facilitation reforms that reduce trade costs among AfCFTA member countries.	Arndt, Corong, Aguiar
Sustainable transition of the livestock sector: climate change mitigation, healthy diets and policies promoting circularity	Chepeliev, Golub, van der Mensbrugge
Further improving the GTAP-SIMPLEG model by incorporating biofuel specification to project land use and economic changes associated with significant demand or trade shocks for biofuel feedstocks.	Corong, Baldos, Srikanth
GTAP online simulation tool	Corong
Impacts of climate change on forest and agricultural systems, and role of adaptation in the supply of forest carbon sequestration	Golub
Economic effects of US trade and migration policies	Aguiar
Analysis of the trade-climate nexus: data and model developments	Chepeliev, van der Mensbrugge
Energy transition and critical minerals supply chain	Chepeliev, van der Mensbrugge
The impact of climate heat stress on economic activities and labor market in GTAP and the revised social cost of carbon	Baldos, Corong, Haqiqi, Hertel
<b>Secondary Priorities</b>	
Analyzing the Impacts of Rebalanced U.S. Agricultural Trade Flows and New Trade Agreements	Golub
Analysis of US Trade policies in Latin America	Aguiar

# Center Goals: Forthcoming Year Action Items



## Model Goal

To promote further development of GTAP-based models

Tasks	Responsibility
<i>Primary Priorities</i>	
GTAP-AEZ with volume preserving land specification	Corong
GTAP-Bio version 7 model	Corong, Taheripour
GTAP-RD with agricultural R&D	Corong, Baldos
SIMPLE-G Global Land v1	Haqiqi, Baldos
SIMPLE-G Global Fertilizer v1	Haqiqi, Liu
SIMPLE-G Global Multiple Crops v1	Haqiqi, Corong
<i>Secondary Priorities</i>	
GTAP-RD with GDyn features, Dixon-Rimmer sector-specific investment, and short-run/Long-run labor specification	Corong
GTAP version 7 models and GEMPACK's new solution algorithms	Corong (in collaboration with Michael Jerie and Florian Schiffman, CoPS)

# Center Goals: Forthcoming Year Action Items



## Education Goal

To expand and improve education for global economic analysis worldwide

GTAP-U Strategic Review (Akgul, Arndt, and Batta). The GTAP Hub will develop and distribute to consortium members and other stakeholders a complete review of GTAP’s educational programs before the end of 2026. This review will examine our full portfolio of course offerings, including the planned Comprehensive Course, and will consider demand, financial viability, cost-effectiveness, and scalability. It will also explore the possibility of licensing instructors to deliver courses locally. While this review is in process, the following tasks will be ongoing. Some tasks may be adjusted in light of the review.

Tasks	Responsibility
<b>Primary Priorities</b>	
Course Delivery: <ul style="list-style-type: none"> <li>• GTAP Short Course (June 1 - August 7, 2026)</li> <li>• GTAP 101 Course (August 31 - October 18, 2026)</li> <li>• GTAP Modeling Trade Policy Course (October 12 - November 29, 2026)</li> <li>• GTAP Dynamic Short Course (January 18 – March 12, 2027)</li> <li>• GTAP 101 Course (early 2027 - tbd)</li> <li>• GTAPinR Course (open enrollment)</li> </ul>	Batta, Akgul, Instructors Keeney, Et al. Countryman Walmsley, Strutt Aguiar, Et al. Countryman Not instructor-led
Curriculum Updates: <ul style="list-style-type: none"> <li>• identify materials that require updates</li> <li>• propose new course materials to fill any possible gaps in the course</li> <li>• develop/review new and updated course materials</li> </ul>	Akgul, Batta
Complete/Launch: <ul style="list-style-type: none"> <li>• module repository system</li> <li>• systematic documentation of GTAP model extensions</li> </ul>	Akgul
New Course Development: <ul style="list-style-type: none"> <li>• Meet with instructors, consortium members, course participants and colleagues in the network to identify demand for core and specialized training in CGE modeling               <ul style="list-style-type: none"> <li>○ SIMPLE Course</li> <li>○ GTAP for Non-Economists</li> <li>○ GTAP-E-Power</li> <li>○ Comprehensive Course</li> </ul> </li> </ul>	Akgul, Batta, course instructors
Quality Assessments: <ul style="list-style-type: none"> <li>• Regular review of course content and technical quality</li> <li>• Carry out post-mortem meetings with lead course instructors</li> <li>• Report the status of courses at staff meetings</li> </ul>	Akgul, course instructors

## Center Goals: Forthcoming Year Action Items

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### **Staffing Goal**

To actively seek and encourage talented staff and graduate students

The GTAP Hub currently has the right complement of staff to meet current needs. We will welcome two new PhD students in the Fall.

# Center Goals: Forthcoming Year Action Items

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## Collaboration Goal

To actively seek opportunities for fostering collaboration with institutions around the world

Tasks	Responsibility
<i>Primary Priorities</i>	
2027 GTAP Conference (Montreal, Canada)	Batta, Arndt, Corong
2028 GTAP Conference (Brussels, Belgium)	Batta, Arndt, Corong
2029 GTAP Conference (location tbd)	Batta, Arndt, Corong
GTAP Virtual Seminar Series	Batta, Arndt, Corong, Chepeliev, Haqiqi

# Center Goals: Forthcoming Year Action Items

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## Communication Goal

To facilitate communication amongst members of the network as well as between the Center and key stakeholders

Tasks	Responsibility
<i>Primary Priorities</i>	
Website updates: design, security, functionality, etc.	Douglas



## **GTAP Data Base**

The centerpiece of the Global Trade Analysis Project is a global data base describing bilateral trade patterns, production, consumption and intermediate use of commodities and services.

In the last 7 months, we finalized the release of GTAP 12 with 2 new reference years for a total of 7 reference years. Besides the standard release, we also included emissions and GTAP-E, along with the Land Use and Land Cover data extensions. GTAP Power has also been released and it will be followed by GDyn, Migration, and MRIO extensions.

Also, within the environmental accounts, we have released the Circular Economy and Critical Minerals extensions to GTAP 11.

In terms of build infrastructure, GTAP 12 was developed with a hybrid system, we continue to move away from OPUS and Cygwin make towards WSL make to exploit the benefits of native parallelization.

Looking forward, we are planning to release a version with EU domestic support for 2019 and 2023. Also, for GTAP 13, we plan to use 2025 as the latest reference year, which first pre-release is planned before the 2027 GTAP Consortium Meeting.



## GTAP Models

The Center for Global Trade Analysis oversees the development of two global general equilibrium models - the standard GTAP Model and its dynamic counterpart, GTAP-RD.

The GTAP Models webpage (<https://www.gtap.agecon.purdue.edu/models/current.asp>) is continually being updated to make available the latest versions of the GTAP version 7 suite of models in both stand-alone and RunGTAP formats. For year 2026/2027, technical documentations for both static and recursive dynamic models are being updated to coincide with GEMPACK software's new solution algorithms.

### GTAP Models: Current GTAP Model

#### Standard Model

The standard GTAP Model is a multiregion, multisector, computable general equilibrium model, with perfect competition and constant returns to scale. Innovative aspects of this model include:

- The treatment of private household preferences using the non-homothetic CDE functional form.
- The explicit treatment of international trade and transport margins. Bilateral trade is handled via the Armington assumption.
- A global banking sector which intermediates between global savings and consumption.

The GTAP Model also gives users a wide range of closure options, including unemployment, tax revenue replacement and fixed trade balance closures, and a selection of partial equilibrium closures (which facilitate comparison of results to studies based on partial equilibrium assumptions).

The GTAP Model was initially documented in the GTAP Book. Recent changes in the structure can be found below:

- [The Standard GTAP Model, Version 7](#), by Corong et al., Journal of Global Economic Analysis, 2017



Standard GTAP Model v7 - Quick Reference Card

- [Global Trade Analysis: Modeling and Applications](#), by T.W. Hertel (ed.)
- [A Graphical Exposition of the GTAP Model](#) by Brockmeier, Martina
- [A Note On Changes Since GTAP Book Model](#) by Itakura, K. and T. Hertel, 2000
- [A New Regional Household Demand System for GTAP](#) by McDougall, R., GTAP Working Paper No. 14, 2000
- [A General Welfare Decomposition for CGE Models](#) by Hanslow, K., GTAP Technical Paper No. 19, 2000
- [Decomposing Welfare Changes in GTAP](#) by Huff, K. and T. Hertel, GTAP Technical Paper No. 05, 2001
- [Two Small Extensions to SALTER](#) by McDougall, R., SALTER Working Paper Number 12, 1993
- [A Note on the CES Functional Form and Its Use in the GTAP Model](#) by Gohin, A. and T. Hertel
- [Notes on Final Demand in the Presence of Non-homothetic, Weak Separability](#) by Hertel, T.
- [References for GTAP Data Base and Model](#)

The model code is also available for download:

Model (version 7)	Current version		Documentation
	RunGTAP	Stand-alone	
<a href="#">Standard GTAP</a>	<a href="#">download</a>	<a href="#">download</a>	<a href="#">view</a>
<a href="#">GTAP-AEZ</a>	<a href="#">download</a>	<a href="#">download</a>	<a href="#">view</a>
<a href="#">GTAP-E</a>	<a href="#">download</a>	<a href="#">download</a>	<a href="#">view</a>
<a href="#">GTAP-MRIO</a>	<a href="#">download</a>	<a href="#">download</a>	<a href="#">view</a>
<a href="#">GTAP-Power</a>	<a href="#">download</a>	<a href="#">download</a>	<a href="#">view</a>

# Research Portfolio

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## Research Projects

The Center for Global Trade Analysis faculty/staff undertook the following research projects during the past year.

**Project Title:** *HDR Institute: Geospatial Institute for Digital Innovations to Enhance Resilience & Sustainability*

**Sponsor:** UIUC/NSF

**Staff Involved:** Iman Haqiqi, Tom Hertel

**Project Title:** *AccelNet: GLASSNET – Networking Global to Local Analyses to Inform Sustainable Investments in Land and Water Recourses*

**Sponsor:** NSF

**Staff Involved:** Jing Liu, Tom Hertel, Dominique van der Mensbrugge

**Project Title:** *Understanding Multi-Stressor and Multi-Scale Drivers of Feedback, Cascading Failures, and Risk Management Pathways within Complex MSD Systems*

**Sponsor:** Pennsylvania State University

**Staff Involved:** Iman Haqiqi, Tom Hertel

**Project Title:** *GTAP Modeling of Indirect Effects for Sustainable Aviation Fuels*

**Sponsor:** Argonne National Laboratory

**Staff Involved:** Dominique van der Mensbrugge, Maksym Chepeliev, Lauren Benavidez

**Project Title:** *Computable General Equilibrium Modeling to Support the Development of an Economic Impact Forecasting Tool*

**Sponsor:** Bureau of Land Management

**Staff Involved:** Erwin Corong, Uris Baldos

**Project Title:** *Techno-economic and lifestyle analysis of alternative aviation biofuels supply chains*

**Sponsor:** FAA

**Staff Involved:** Dominique van der Mensbrugge, Maksym Chepeliev, Erwin Corong

**Project Title:** *Labor Markets and the Impacts of Environmental Stresses and Conservation Policies on US Agriculture*

**Sponsor:** NIFA

**Staff Involved:** Iman Haqiqi, Tom Hertel

<b>Project Title:</b>	<i>Meeting 21st Century Objectives in Livestock Sectors: Challenges and Opportunities</i>
<b>Sponsor:</b>	NIFA
<b>Staff Involved:</b>	Dominique van der Mensbrugge, Maksym Chepeliev, Alla Golub
<b>Project Title:</b>	<i>Climate Change and the Global Bioeconomy: How Forest and Agricultural Adaptation Influence the Supply of Bioenergy and Carbon Credits</i>
<b>Sponsor:</b>	Ohio State University
<b>Staff Involved:</b>	Alla Golub
<b>Project Title:</b>	<i>GTAP-IAM with Multi-Cropping with Detailed Land Use, and Mainstreaming Biofuel Data Base and Model Specification</i>
<b>Sponsor:</b>	Office of the Chief Economist
<b>Staff Involved:</b>	Erwin Corong, Uris Baldos, Maksym Chepeliev, Angel Aguiar, Alla Golub, Thiago Simonato
<b>Project Title:</b>	<i>Enabling Farmer Discovery and Managing Critical Tradeoffs with the Emergence of National Scale Carbon Markets</i>
<b>Sponsor:</b>	Ohio State University
<b>Staff Involved:</b>	Jing Liu, Junyoung Jeong, Tom Hertel
<b>Project Title:</b>	<i>Analyzing the Impacts of Rebalanced U.S. Agricultural Trade Flows &amp; New Trade Agreements</i>
<b>Sponsor:</b>	Virginia Tech
<b>Staff Involved:</b>	Alla Golub
<b>Project Title:</b>	<i>Making Models Work for Biofuel Markets (SIMPLE-G)</i>
<b>Sponsor:</b>	Office of the Chief Economist
<b>Staff Involved:</b>	Erwin Corong, Angel Aguiar, Uris Baldos, Thiago Simonato, Kavitha Srikanth
<b>Project Title:</b>	<i>Partnership: Gridded Economic Analysis of the Impacts of Global Biodiversity Conservation on US Agriculture and Rural Economies</i>
<b>Sponsor:</b>	NIFA
<b>Staff Involved:</b>	Iman Haqiqi
<b>Project Title:</b>	<i>Tauhokohoko: Indigenising Trade Policy and Enabling Mana Motuhake through Indigenous Trade</i>
<b>Sponsor:</b>	University of Waikato
<b>Staff Involved:</b>	Erwin Corong
<b>Project Title:</b>	<i>PCE Resources Modelling</i>
<b>Sponsor:</b>	New Zealand Parliament
<b>Staff Involved:</b>	Maksym Chepeliev, Dominique van der Mensbrugge

**Project Title:** *ENTICE- Enhanced Understanding of Trade Impacts on Climate, Industries, and the Environment*

**Sponsor:** E3 - Modelling

**Staff Involved:** Dominique van der Mensbrugge, Maksym Chepeliev

**Project Title:** *Quantifying Phosphorus Flows: Current state, environmental impacts, future pathways, and potential for best practices*

**Sponsor:** Global Phosphorus Institute

**Staff Involved:** Jing Liu, Maksym Chepeliev, Channing Arndt

**Project Title:** *A GTAP Online Simulation Tool in TINA*

**Sponsor:** UNECA

**Staff Involved:** Erwin Corong

**Project Title:** *Research Partnership to Promote Domestic Resource Mobilisation*

**Sponsor:** University of Copenhagen

**Staff Involved:** Channing Arndt, Erwin Corong, Angel Aguiar

**Project Title:** *Advancing food waste estimates to strengthen the consistency of research and policy design in the United States and worldwide*

**Sponsor:** Center for Food Demand Analysis and Sustainability (CFDAS), Purdue University

**Staff Involved:** Maksym Chepeliev, Jing Liu

# Research Portfolio

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## Publications

Center for Global Trade Analysis faculty/staff published the following during the past year.

- Aguiar, A. H., & Devadoss, S. (2026). Economic Effects of Mass Deportations. *Choices*, 41(1). <https://doi.org/DOI:10.22004/ag.econ.371485>
- Aguiar, A., Baldos, U., Chepeliev, M., Corong, E., & Simonato, T. (2025). The Global Trade Analysis Project (GTAP) Data Base: Version 12. *Journal of Global Economic Analysis*, 10(2), 1–45. <https://doi.org/10.21642/JGEA.100201AF>
- Aguiar, A. H., & Devadoss, S. (2025a). Economic Consequences of Recent Tariff Changes. *Choices*, 40(4). <https://doi.org/DOI:10.22004/ag.econ.370427>
- Aguiar, A. H., & Devadoss, S. (2025b). Effects of Mass Deportation of Undocumented Workers on the U.S. Agrifood Sector and Economy. *Journal of Agricultural and Resource Economics*. <https://doi.org/doi:10.22004/ag.econ.369147>
- Akridge, J. T., & Hertel, T. W. (2025). Building and sustaining successful complex research, education, and engagement collaborations. *Journal of Research Administration*, 56(1). <https://www.srainternational.org/blogs/sra-ira2/2025/03/28/research-education-engagement-collaborations>
- Aylett, C., Carpentier, C. L., Chepeliev, M., et al. (2025). *Guidance on border carbon adjustment*. International Institute for Sustainable Development. <https://coilink.org/20.500.12592/2njb9c0>
- Bajaj, K., Mehrabi, Z., Kastner, T., Jägermeyr, J., Müller, C., Schwarzmüller, F., Hertel, T. W., & Ramankutty, N. (2025). Current food trade helps mitigate future climate change impacts in lower-income nations. *PLOS ONE*, 20(1), e0314722. <https://doi.org/10.1371/journal.pone.0314722>
- Baldos, U., & Corong, E. (2025). *Development of GTAP version 11 land use and land cover database for years 2004, 2007, 2011, 2014, and 2017* (GTAP Research Memorandum No. 39). Global Trade Analysis Project (GTAP), Purdue University. <https://doi.org/10.21642/RM39>
- Baldos, U. L. C., Fuglie, K., Cisneros-Pineda, A., & Hertel, T. W. (2025). Adoption of improved crop varieties limited biodiversity losses, terrestrial carbon emissions, and cropland expansion in the tropics. *Proceedings of the National Academy of Sciences*, 122(6), e2404839122. <https://doi.org/10.1073/pnas.2404839122>
- Chepeliev, M. G., Aguiar, A. H., van der Mensbrugghe, D. Y., Farole, T., & Liverani, A. (2026). Circular Economy Transition in Europe Requires Ambitious Policies Beyond Climate Mitigation. *Resources, Conservation and Recycling*, 225. <https://doi.org/https://doi.org/10.1016/j.resconrec.2025.108591>
- Chepeliev, M. (2026). *Global Trade Analysis Project Circular Economy (GTAP-CE) Data Base Version 11*. GTAP Research Memorandum No. 40. Center for Global Trade Analysis, Department of Agricultural Economics, Purdue University. [https://www.gtap.agecon.purdue.edu/resources/res\\_display.asp?RecordID=7674](https://www.gtap.agecon.purdue.edu/resources/res_display.asp?RecordID=7674)
- Chepeliev, M., Maliszewska, M., Kanudia, A., Yuan, W., Arndt, C., & van der Mensbrugghe, D. (2025). *Greening global trade: How climate policies reshape comparative advantage of developing countries* (GTAP Working Paper No. 98). Global Trade Analysis Project (GTAP), Purdue University. [https://www.gtap.agecon.purdue.edu/resources/res\\_display.asp?RecordID=7609](https://www.gtap.agecon.purdue.edu/resources/res_display.asp?RecordID=7609)

- Chepeliev, M., Maliszewska, M., Osorio-Rodarte, I., Pereira, M. F. S. e., & van der Mensbrugghe, D. (2025). Lowering trade barriers improves income distribution and economic resiliency. *Journal of Policy Modeling*, 47(1), 30–48. <https://doi.org/10.1016/j.jpolmod.2024.09.004>
- Chepeliev, M., Maliszewska, M., & Pereira, M. F. S. e. (2025). Disentangling the channels of impact of the Ukraine war on global food markets: An integrated scenario approach. *Food Security*, 17, 781–809. <https://doi.org/10.1007/s12571-025-01560-6>
- Chepeliev, M., Sicheneder, A., Yevstihnieiva, O., & Zachmann, G. (2025). *CBAM's effects on Ukraine's economy and its decarbonisation efforts*. Green Deal Ukraina; Helmholtz-Zentrum Berlin. <https://greendealukraina.org/assets/images/reports/cbam.pdf>
- Cisneros-Pineda, A., Chaudhary, A., Baldos, U. L. C., Sung, Y., & Hertel, T. W. (2025). Demographic changes will shape planetary biodiversity. *Science of the Total Environment*, 974, 179148. <https://doi.org/10.1016/j.scitotenv.2025.179148>
- Corong, E., Kagin, J., van der Mensbrugghe, D., Krishnaswamy, S., Husain, A., Nnanga, K., Monetta, C., Pahari, K., & Taylor, J. E. (2025). Uncovering the World Food Programme's economic footprint in East Africa. *Food Policy*, 134, 102896. <https://doi.org/10.1016/j.foodpol.2025.102896>
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- Gatto, A., & Chepeliev, M. (2025). Integrating food loss and waste reduction policies with global dietary shifts: An economic modelling study. *The Lancet Planetary Health*, 9(10), 101285. <https://doi.org/10.1016/j.lanplh.2025.101285>
- Golub, A. (2025). Leakage and market displacement assessment for coal extraction avoidance projects. TransEnergy Global. <https://transenergy-global.com/resources/>
- Haqiqi, I., & Hertel, T. W. (Eds.). (2025). *SIMPLE-G: A gridded economic approach to sustainability analysis of the Earth's land and water resources*. Springer.
- Haqiqi, I., & Hertel, T. (2026). The buffer value of trade: quantifying how global integration stabilizes food prices and farm incomes. *Food Security*. <https://doi.org/10.1007/s12571-026-01662-9>
- Haqiqi, I., Hertel, T. W., & Srikanth, K. (2025). Global drivers and local management of groundwater stress. *Environmental Research Letters*, 20, 094047. <https://doi.org/10.1088/1748-9326/adf909>
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- Konar, M., Fisher-Vanden, K., Grogan, D. S., Haqiqi, I., Mejia, A., & Puma, M. J. (2025). Groundwater and trade. *Environmental Research Letters*, 20, 071002. <https://doi.org/10.1088/1748-9326/adda61>
- Lafferty, D., Grogan, D. S., Zuidema, S., Haqiqi, I., Alipour, A., Keller, K., & Sriver, R. L. (2025). Combined meteorological and hydrologic uncertainties shape projections of future soil moisture. *Earth's Future*, 13(8). <https://doi.org/10.1029/2025EF006040>
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- Peszko, G., Chepeliev, M., & van der Mensbrugge, D. (2025). *Nigeria’s diversification with climate mitigation outcomes*. World Bank Group. <http://documents.worldbank.org/curated/en/099092925064531595>
- Polasky, S., E. Nelson, D. Tilman, J. Gerber, J. Johnson, E. Corong, F. Isbell, J. Hill and C. Packer (2026). “Reversing the Great Degradation of Nature through Economic Development”. *Proceedings of National Academy of Sciences*.
- Ranger, N., Adam, C., Arndt, C., & Spacey, R. M. (2025). Climate change and Sub-Saharan Africa: The role of central banks. *Annual Review of Resource Economics*, 17.
- Ray, S., Hill, A., Haqiqi, I., Taylor, J., & Hertel, T. W. (2025). *Farm labor scarcity and its uneven impacts on U.S. crop producers* (GTAP Working Paper No. 97). Global Trade Analysis Project (GTAP), Purdue University. [https://www.gtap.agecon.purdue.edu/resources/res\\_display.asp?RecordID=7601](https://www.gtap.agecon.purdue.edu/resources/res_display.asp?RecordID=7601)
- Ray, S. (2025). Labor markets mediate welfare impacts of conservation policies. *Environmental Research Letters*, 20(7), 071001. <https://doi.org/10.1088/1748-9326/addb67>
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- Taheripour, F., Chepeliev, M., Aguiar, A., & Sajedinia, E. (2025). An overview of the GTAP-BIO model. In H. Kwon et al. (Eds.), *Expansion of carbon calculator for land use and land management change from biofuels production* (ANL/ESIA-24/22). Argonne National Laboratory.
- Thomas, Timothy; Arndt, Channing; Jarrett, Uchechukwu; and Mohtadi, Hamid. “Improving statistical estimates of the economic cost of climate change.” *Farming System* 4(1)(2026).
- World Bank. (2025). *Economic, trade, and industry implications of the circular economy transition in Türkiye*. World Bank Group. <https://openknowledge.worldbank.org/entities/publication/9479967e-0ff3-4d84-b612-737baeb12b20> (Contributors: Chepeliev, M., and van der Mensbrugge, D.)
- Xia, S., Hasegawa, T., Jansakoo, T., Mason-D’Croz, D., Tsuchiya, K., Fujimori, S., Chepeliev, M., Kozicka, M., Mishra, A., Van Zeist, W.J. and Zhao, X. (2026). Ozone pollution reduction partially offsets the negative impact of climate change mitigation efforts on global hunger. *Nature Food*, 1-13. <https://doi.org/10.1038/s43016-026-01322-3>
- Xing, Z., Liu, Y., Chepeliev, M., Liu, X., Hubacek, K., Feng, K., Zhong, H., Ma, Z. and Wang, H. (2026). Global food trade can mitigate substantial health burdens attributed to ambient PM2.5 pollution. *Nature Food*, 1-11. <https://doi.org/10.1038/s43016-026-01303-6>

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# Research Portfolio

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## Presentations

Center for Global Trade Analysis faculty/staff presented the following during the past year.

- Aguiar, A. (2025). *From compiled data to the release of a new version of the GTAP Data Base*. Paper presented at the 28th Annual Conference on Global Economic Analysis, Kigali, Rwanda. Global Trade Analysis Project (GTAP), Purdue University, West Lafayette, IN. Retrieved from [https://www.gtap.agecon.purdue.edu/resources/res\\_display.asp?RecordID=7433](https://www.gtap.agecon.purdue.edu/resources/res_display.asp?RecordID=7433)
- Aguiar, A. (2025). *Detailed food and agriculture in a general equilibrium framework*. Paper presented at the International Agricultural Trade Research Consortium Annual Meeting, Tysons, VA, United States.
- Arndt, C. (2025, June 12). *The new trade landscape*. Presentation at the Centre for Social and Economic Progress, New Delhi, India.
- Arndt, C. (2025, July 8). *The new trade landscape*. Presentation for the Farm Policy Study Group, Purdue University, West Lafayette, IN, United States.
- Arndt, C. (2025, August 20). *The new trade landscape*. Presentation at the Departments of Economics and Agricultural Economics, Purdue University, West Lafayette, IN, United States.
- Arndt, C. (2025, September 25). *The new trade landscape*. Presentation at the United Nations Development Programme, New York, NY, United States.
- Arndt, C. (2025, September 30). *Four steps for advancing equitable and sustainable agricultural growth in Africa and beyond*. Paper presented at the Agricultural Economics Association of South Africa Conference, Pretoria, South Africa.
- Arndt, C. (2025, December 5). *The new trade landscape*. Presentation at the Korean Institute for International Economic Policy, Seoul, South Korea.
- Arndt, C. (2025, December 8). *The new trade landscape*. Presentation at the National Institute for Economics and Finance, Hanoi, Vietnam.
- Arndt, C. (2025, December 11). *The new trade landscape*. Presentation at the National Economic Council (DEN), Jakarta, Indonesia.
- Arndt, C. (2026, January 29). *The new trade landscape*. Presentation at Centre for Social and Economic Progress, Chaired by Suman Bery, Vice Chair of NITI Aayog. New Delhi, India.
- Arndt, C. (2026, February 3). *The new trade landscape*. Presentation at the UNDP Eurasia Regional Office, Istanbul, Turkey.
- Arndt, C. (2026, February 9). *The new trade landscape*. Presentation at the UK Department of Business and Trade (DBT), London, England.

- Arndt, C. (2026, March 11). *Trade and Climate Change*. Presented in plenary at a conference organized by the Network for the Greening of the Financial System (NGFS) and hosted at the South Africa Reserve Bank on the theme “Navigating climate risks in Southern Africa: the role of Central Banks.” March 11, 2026. Pretoria, South Africa.
- Chepeliev, M. (2025, June 25–27). *Advancing the representation of critical minerals supply chains in the global economic models*. Paper presented at the *28th Annual Conference on Global Economic Analysis*, Kigali, Rwanda.
- Chepeliev, M. (2025, July 1–2). *Traceable and scalable food balance sheets from agricultural commodity supply and utilization accounts (2010–2022)*. Paper presented at the *12th International Conference on Industrial Ecology (ISIE2025)*, Singapore.
- Chepeliev, M. (2025, July 6–11). *Advancing the representation of critical minerals supply chains in the global economic models*. Paper presented at the *31st International Input–Output Association Conference*, Malé, Maldives.
- Chepeliev, M. (2025, July 6–11). *Implications of the net zero transition scenarios on SDG indicators: Linking global energy system, CGE, and atmospheric source–receptor models*. Paper presented at the *31st International Input–Output Association Conference*, Malé, Maldives.
- Chepeliev, M. (2025, July 27–29). *How the global transition to a healthy diet might impact agricultural trade in the United States and worldwide*. Paper presented at the *Agricultural & Applied Economics Association (AAEA) Annual Meeting*, Denver, CO, United States.
- Chepeliev, M. (2025, August 26–29). *Bending the curve of food loss and waste (FLW) generation requires coupling global dietary shifts with targeted FLW reduction policies*. Paper presented at the *European Association of Agricultural Economists (EAAE) 2025 Congress*, Bonn, Germany.
- Chepeliev, M. (2025, September 1–2). *Circular economy transition in Europe requires ambitious policies beyond climate mitigation* [Invited presentation]. Presented at the *International Workshop on Advanced Mitigation Technologies in CGE Modeling*, Yonsei University, Seoul, South Korea.
- Chepeliev, M. (2025, November 4). *Carbon border adjustment and policy responses in South Africa and Mozambique*. Webinar presentation for *WIDER* (Online). Co-presented with D. van der Mensbrugge.
- Chepeliev, M. (2025, November 11–13). *Advancing the representation of critical minerals supply chains in the global economic models*. Paper presented at the *Integrated Assessment Modeling Consortium (IAMC) Eighteenth Annual Meeting*, Armação dos Búzios, Rio de Janeiro, Brazil.
- Chepeliev, M. (2025, November 11–13). *Bending the curve of food loss and waste (FLW) generation requires coupling global dietary shifts with targeted FLW reduction policies* [Online poster presentation]. Presented at the *Integrated Assessment Modeling Consortium (IAMC) Eighteenth Annual Meeting*, Armação dos Búzios, Rio de Janeiro, Brazil.
- Chepeliev, M. (2025, November 11–13). *Global transition to healthier diets reduces overall trade in agricultural commodities but increases import dependency* [Poster presentation]. Presented at the *Integrated Assessment Modeling Consortium (IAMC) Eighteenth Annual Meeting*, Armação dos Búzios, Rio de Janeiro, Brazil.
- Chepeliev, M. (2025, December 14–16). *Advancing food waste estimates in the United States and worldwide*. Paper presented at the *International Agricultural Trade Research Consortium Annual Meeting*, Tysons, VA, United States.
- Chepeliev, M., and van der Mensbrugge, D. (2026, February 4). *How to track calories in an economy-wide framework: from farm to table*. Tsujimoto Perspectives in Global Development Seminar Series, Cornell, Ithaca, NY.
- Chepeliev, M. (2026, February 26). *Circularity and critical minerals in global economic models*. Research Seminar. Organization for Economic Cooperation and Development (OECD). Paris, France.

- Chepeliev, M. and van der Mensbrugge, D. (2026, March 2). *The Global Energy Transition and Critical Minerals Supply Chains*. Research Seminar. International Institute for Applied System Analysis (IIASA). Laxenburg, Austria
- Corong, E. (2025, June 17-19). *GTAP-RD-InVEST: A forward-looking Earth-economy model to analyze growth and sustainability issues under different climate change, agricultural yield, and policy scenarios*. Presented at the 28th Annual Conference on Global Economic Analysis, Kigali, Rwanda.
- Corong, E. (2025, October 10). *Geopolitical Fragmentation and the Future of Inclusive GVC Integration*. Presented at the Asian Development Policy Report Background Paper's Workshop, Manila, Philippines.
- Corong, E. (2025, November 9). *The Relative Importance of Global Agricultural Subsidies and Tariffs, Revisited*. Presented at the 20<sup>th</sup> International Convention of the East Asian Economic Association, Manila, Philippines.
- Corong, E. (2025, December 15). *Global Drivers and Gridded Impacts of Tariff Escalation Policies: A GTAP-SIMPLEG Model to Analyze Deforestation in Brazil*. Presented at the International Agricultural Trade Research Consortium Annual Meeting, Tysons, VA, United States.
- Corong, E. (2026, March 31). *GTAP Data and Modeling Framework for Trade, Climate and Environmental Policy Analysis*. Presented at the ClimateWorks Foundation Convening, Bali, Rwanda.
- Eisenbarth, S., Day, B., Golub, A., & Baldos, U. (2025, August 31–September 2). *Carbon leakage from land-based climate change mitigation measures*. Paper presented by Sabrina Eisenbarth at the 26th BioEcon Conference, Cambridge, United Kingdom.
- Eisenbarth, S., Day, B., Golub, A., & Baldos, U. (2025, November 13). *Carbon leakage from land-based climate change mitigation measures*. Paper presented by Sabrina Eisenbarth at the CEPR Virtual Seminar on Climate Economics.
- Golub, A., Chepeliev, M., Simonato, T., Fischer, C. G., Mason-D'Croz, D., & van der Mensbrugge, D. (2025, June 25–27). *Impacts of global greenhouse gas mitigation on heterogeneous livestock sectors*. Paper presented by A. Golub at the 28th Annual Conference on Global Economic Analysis, Kigali, Rwanda.
- Golub, A., Chepeliev, M., Simonato, T., Fischer, C. G., Mason-D'Croz, D., & van der Mensbrugge, D. (2025, July 27–29). *Trade policies and environmental outcomes in livestock sectors*. Paper presented by A. Golub at the AAEA & WAEA Joint Annual Meeting, Denver, CO, United States.
- Golub, A., Chepeliev, M., Simonato, T., Fischer, C. G., Mason-D'Croz, D., & van der Mensbrugge, D. (2025, December 14–16). *Shifting trade policies and environmental outcomes in livestock sectors*. Paper presented by A. Golub at the International Agricultural Trade Research Consortium Annual Meeting, Tysons, VA, United States.
- Simonato, T., van der Mensbrugge, D., & Chepeliev, M. (2025, July 27–29). *Global chains, regional pains: The local socio-economic effects of U.S. tariffs*. Paper presented at the AAEA & WAEA Joint Annual Meeting, Denver, CO, United States.
- Sohngen, B., Kimura, R., Kim, J. B., Golub, A., Daigneault, A., & Davis, E. (2025, December 11–19). *Identifying sources of non-passive carbon sequestered in forests*. Paper presented by B. Sohngen at the American Geophysical Union Annual Meeting, New Orleans, LA, United States.

# Awards and Recognition

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## **Awards**

Center for Global Trade Analysis faculty/staff were honored with the following awards during the past year.

None to report.