

Period covered by the report: June 2020 — June 2021

GTAP Model and Data Base Usage

In 2020, the CEPII updated the core version of its CGE model, MIRAGE-e, to adapt it to the latest release of the GTAP database (GTAP 10.1). In the same vein, the team carried on its efforts to update the data it uses along with the GTAP database: MACMap (*ad valorem equivalent* of tariffs and tariff quota rates), AVEs of non trade measures on services, long term projections for the model baseline (EconMap database), estimation and projection of regional agricultural TFPs. Based on the updated GTAP and CEPII's satellite datasets, the Trade Policy team of the CEPII is conducting simulations within three main projects : i) the assessment of the economic and environmental impacts of the forthcoming European Carbon Border Adjustment Mechanism, ii) the assessment of the economic and environmental impacts of the African Continental Free Trade Area (AfCFTA) on African countries and iii) a cross-model comparison based on a common simulation of the impact of the EU-Canada free trade agreement.

Publications

Articles in peer reviewed journals

Gouel C. and Laborde D. (2021) The Crucial Role of Domestic and International Market-Mediated Adaptation to Climate Change. *Journal of Environmental Economics and Management*, 106, 102408. <https://doi.org/10.1016/j.jeem.2020.102408>

Working papers

Barba Navaretti G., Fontagné L., Orefice G., Pica G., Rosso A.C., *TBTs, Firm Organization and Labour Structure - The effect of Technical Barriers to Trade on Skills*, CEPR discussion paper 15223, August 2020

Bellora C., Fontagné L. (2020), Possible carbon adjustment policies: An overview. European Parliament Briefing, Directorate-General For External Policies, EP/EXPO/INTA/FWC/2019-01/Lot5/1/C/02, April

Bellora, C., & Fontagné, L. (2021). *Brussels and Washington realigned on climate*, La Lettre du CEPII, 415-2021

Fontagné L., Guimbard H. et Orefice G. (2019), "Product-Level Trade Elasticities", CEPII Working Paper, N°2019-17 (updated version, 2020 08)

Presentations

Bellora C. and Fontagné L. , [Possible carbon adjustment policies: An overview](#), Trade-related aspects of carbon border adjustment mechanisms, European Parliament's Committee on International Trade (INTA) Meeting, September 2020

Bellora C. and Fontagné L., [Carbon Border Adjustment and Alternatives](#), GTAP Annual conference, June 2020

Bellora, C. and Fontagné, L. (2021). *Brussels and Washington realigned on climate*: Club du CEPII (March 2021), Banque de France (May 2021), GTAP Annual Conference (June 2021), CEPII's internal seminar (June 2021).

Gouel, C. (2020). The Impact of Global Warming on Agriculture: A Critique of the Ricardian Approach from a General Equilibrium Perspective. EAERE, Annual Conference. Seminars: AgroCampus Ouest; Swedish University of Agricultural Sciences

Projects

CEPII is involved in the European Union's Horizon 2020 "Batmodel" project, a four-year study, gathering 15 organizations and research institutes from 10 EU countries. This project aims to improve cross-border agricultural trade models, thus helping decision-makers to achieve better multilateral and regional agreements.