



Global Trade Analysis Project

Modeling FDI and Affiliate Sales in the GTAP version 7 model



Modeling FDI and FAS

- **GTAP FDI and FAS**

- Lakatos and Fukui (2014)
 - Armington nest for sales by country of origin of parent companies and the inclusion of foreign direct investment
- Tsigas and Yuan (2020)
 - Substitutability between exports and affiliate sales

- **GTAP version 7 Model with FDI and FAS**

- Static and Dynamic versions
 - Standard GTAP version 7 model (Corong et al., 2017)
 - GTAP-RD and WTO Global Trade Model (Aguiar et al., 2019)
- Model Implementation
 - Modify allocation of FDI to facilitate an economic link between FDI and affiliate sales
 - Capital used by foreign affiliates from region s , can directly draw on investment from their parent companies
 - Foreign affiliates in activity a , from source region s located in host region h could use both capital available from parent region s and in their host region h .
 - Investment can go to the global bank and to foreign affiliates
 - CET function following Petri (1997) and the FTAP model (Hanslow and Verikios 2000).



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Thank you!

