

U.S. Foreign Direct Investment and Its Influence on the U.S. Generalized System of Preferences

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Xenia Matschke U.S. FDI and Its Influence on the U.S. GSP



Does FDI Induce Trade Lib. in Source Country?

- When MNEs engage in export-oriented (vertical) FDI, their home government has incentive to improve market access for imports from foreign affiliates.
 - Overseas ownership partially internalizes TOT externality.
 - Mechanism strengthened by lobbying.
 - ▶ No commensurate effect of import sector (horizontal) FDI.



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Can We Expect to Find FDI Influence on Trade Policy in Data?

- Tariffs generally bound by MFN, but preferential treatment such as FTAs and GSP exempt.
- But: GSP meant to help poor exporting countries, should in principle not be governed by potential benefit for rich importing countries.



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Preview of Findings

 Among potentially GSP eligible countries, 10% increase in U.S.-bound MNE sales
→ 14.7%pt increase in share of imports entering under trade preferences in general and 14.9%pt increase in share of imports entering under GSP in particular.



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- Instituted on Jan. 1, 1976, based on Trade Act of 1974 and GATT Enabling Clause of 1979.
- Generally eligible are countries with low or medium income as defined by GSP statute (based on World Bank statistics).
- Country exceptions: communist or terrorist countries, members of commodity export cartels, no reasonable market access for U.S. goods or no adequate protection of U.S. intellectual property rights, no reduction of trade-distorting policies, expropriation of U.S. firms or citizens without compensation.
- Product exceptions: e.g. most textiles, watches, footwear, handbags, luggage, steel, glass, electronics.
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Changes in GSP Eligibility

- Annual review of GSP program by an interagency committee chaired by USTR.
 - Competitive need limitations based on dollar value of imports (170 million USD in 2015) or market share >50%.
 - Petition by any person to end country eligibility.
 - Petition by any interested party to end product eligibility.
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Theoretical Model

• Partial equilibrium model, FDI given.

• Government chooses trade policy by either choosing directly an import tariff t_{cj} or for given MFN tariff a duty-free import share $\theta_{cj} \in [0, 1]$ for product j from country c.

• Government maximizes (weighted) sum of

- producer surplus (domestic firm profits and profits of domestic multinationals from FDI abroad),
- consumer surplus,
- tariff revenue.



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ToT Logic



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ToT Logic







Theoretical Predictions

The welfare-maximizing θ_{cj} is:

- (+) increasing in export-oriented FDI in j in c,
- (-) decreasing in domestic production of j,
- (-) decreasing in imports of j from c,
- (+) increasing in total imports of j from ROW,
- (-) decreasing in export-oriented FDI in j in ROW.



$\theta_{\textit{cit}} = \alpha_{0} + \alpha_{1} \textit{FDI}_{\textit{cit}-1} + \beta \cdot \textit{X}_{\textit{cit}-1} + \gamma_{\textit{c}} + \gamma_{\textit{i}} + \gamma_{\textit{t}} + \epsilon_{\textit{cit}},$

- θ_{cit}: preference measure for i: industry, c: exporting country, t: year,
- *FDI_{cit}*: U.S. sales of U.S. affiliates located in country *c* in industry *i* in year *t*,
- X_{cit}: additional controls,
- with fixed effects γ_c , γ_i , γ_t ; ϵ_{cit} iid,
- linear IV panel model as baseline,
- data set: 1997-2006, 135 potentially GSP-eligible countries, 80 industries.



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- Policy Discretion. Define dependent variable as preferential trade policy – FTAs and GSP not subject to MFN.
- ② FDI Differentiation. Use BEA data on U.S. foreign affiliates' goods sales to the U.S.
- Indogeneity. Instrument for vertical FDI using horizontal FDI.



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Instrumentation Strategy





- Data source: U.S. customs authority.
- Trade preferences at HTS-8 level, aggregated to NAICS-4.
- Our trade preference measure: value of goods imported under GSP program divided by all imports in NAICS-4 category from country *c* in year *t*.
- Alternatives:
 - share of goods eligible for GSP, weighted by historic import weights, in NAICS-4 category from country c in year t.
 - share of HTS-8 categories eligible for GSP, unweighted, in NAICS-4 category from country c in year t.
 - previous three measures, but for all trade preferences granted.



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Data Overview:

N=42849; (de iure GSP eligible countries)

Variable	Mean	Std. Dev.	Min.	Max.
NAICS-4			1110	3399
Any Pref Share	.276	.377	0	1
GSP Share	.193	.326	0	1
El GSP (hwt)	.327	.416	0	1
El Any Pref (hwt)	.348	.422	0	1
El GSP (unwt)	.434	.326	0	1
El Any Pref (unwt)	.461	.317	0	1
country curr. GSP el.	.910	.287	0	1
affiliate U.S. sales (billions USD)	.006	.127	0	D
affiliate U.S. sales, prorated	.006	.127	0	D
affiliate local sales (billions USD)	.014	.111	0	D
affiliate service sales (millions USD)	.087	3.31	0	D



Panel IV (42849 Obs., Any & GSP)

	Any, over-id., c-cl.	GSP, over-id., c-cl.
MNE goods sales to U.S.	1.47**	1.49***
[ln, billions USD]	(.620)	(.575)
U.S. domestic sales	-1.34^{***}	971^{***}
[ln, billions USD]	(.400)	(.316)
sq. U.S. domestic sales	4.74***	3.04***
[ln, billions USD]	(.843)	(.661)
c- i-t exports to U.S.	346***	401^{***}
[ln, billions USD]	(.098)	(.096)
ROW MNE sales to U.S.	007	003
[ln, billions USD]	(.006)	(.005)
U.S. total imp. (all countries)	052***	059^{***}
[ln, billions USD]	(.010)	(.008)
MFN ad-valorem tariff	2.03***	1.11^{***}
[ln]	(.204)	(.162)
KP Wald F-stat	3.91	3.91
Hansen's J stat p-value	.875	~ 1.0

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IV Tobit (42849 Obs., just id.)

	Any Pref Share	GSP Share	
MNE goods sales to U.S.	1.57***	2.01***	
[billions USD, ln]	(.547)	(.541)	
U.S. domestic sales	774	2.04***	
[billions USD, ln]	(.705)	(.723)	
U.S. domestic sales, sq.	6.56***	953	
[billions USD, ln]	(1.55)	(1.72)	
total c- i- t- exports to U.S.	215^{*}	405^{***}	
[billions USD, ln]	(.115)	(.113)	
ROW MNE sales to U.S.	004	006	
[billions USD, ln]	(.012)	(.012)	
U.S. total imp. (all countries)	157^{***}	189^{***}	
[billions USD, ln]	(.030)	(.029)	
ad valorem MFN tariff rate	3.33***	2.24***	
[ln]	(.115)	(.110)	



Simultaneous Equations: 3SLS

	Any	GSP
FDI Equation		
preference measure	011^{***}	014^{**}
	(.004)	(.006)
MNE local goods sales	.095***	.096***
[ln, billions USD]	(.004)	(.004)
MNE service sales	.274***	.273***
[ln, billions USD]	(.068)	(.068)
Preference Equation		
MNE sales to U.S.	1.48***	1.50***
[ln, billions USD]	(.293)	(.257)



Alternative Specifications

	Any Pref	GSP Pref	El Any (hwt)	El GSP (hwt)
Panel IV	1.47***/**	1.49***/***	$1.41^{***/-}$	$1.61^{***/-}$
[country cl.]				
IV Tobit	1.57***	2.01***	.77	1.14^{*}
[FE]				
Panel OLS	.34***/***	.30***/***	.31***/***	.34***/***
[country cl.]				
Pooled OLS	.28***/*	.22***/**	.29***/**	.29***/**
[country cl.]				



- Hypothesis: USTR would prefer less protection against imports from U.S. MNEs' foreign affiliates.
- We find strong evidence for a positive causal link running from U.S. FDI to all trade preferences in general and U.S. GSP in particular.
- A cycle where higher FDI spurs increased trade liberalization appears possible.
- The same mechanism could lead to substantial trade and investment diversion.



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