DYNAMICS OF TRADE LIBERALIZATION

Political Economy of Tariffs:

In order to understand dynamics of trade liberalization, need to consider political economy of tariff choices

- Grossman and Helpman (1994) and others model tariffs in context of supply and demand for protection in political market
- Supply of protection is marginal cost to government of imposing tariff, cost being damage to economy
- Demand for protection linked to marginal benefits of tariff measured in terms of impact on profits of import-competing firms
- Figure 1 a tariff increase, reduces consumer surplus by (-a-b-c-d), raises producer surplus by (+a), and changes tariff revenue by (+c+g-e-f), net effect being –(e+f)+g (ignoring b and d)

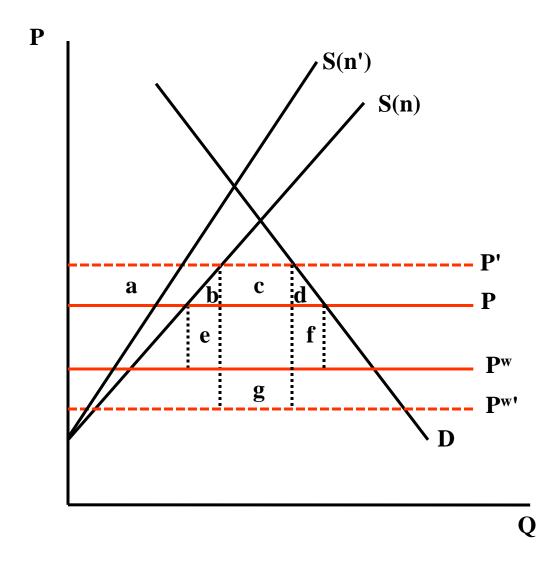


Figure 1: Welfare Effect of Raising Domestic Tariff

- Net change positive at low tariff levels, but eventually becomes negative, imports falling as tariff rises
- In Figure 2, supply of protection is positively sloped, welfare cost of tariff increasing in tariff, and intersects vertical axis below zero, tariff being positive if country can influence world price
- Demand for protection stems from (+a) which increases with T, demand being positively sloped, and even at zero tariff, marginal benefit is positive if country produces good at world prices
- Politically optimal tariff given by intersection of supply and demand curves at E^{unil}

Juggernaut Approach:

Multilateralism (MTN) alters political forces in country – reciprocity converts exporters into opponents of protection, i.e., can gain market access only if domestic tariffs are reduced

■ In Figure 3, lower foreign tariff raises export price, such that exporters gain surplus of A+B, domestic consumers losing surplus of A

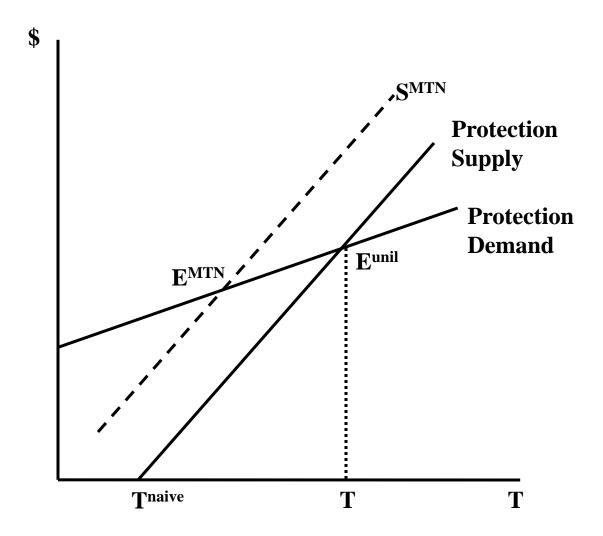


Figure 2: Supply and Demand for Protection

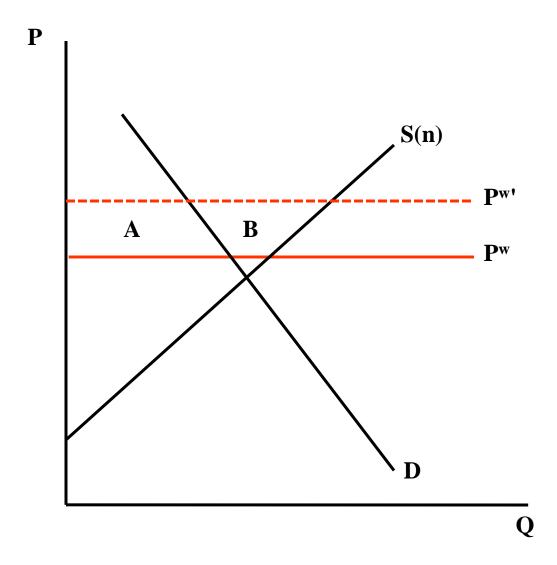


Figure 1: Welfare Effect of Lowering Foreign Tariff

- Net benefit to exporters of reduction in foreign tariff raises marginal cost of protection in Figure 2, reciprocity shifts supply of protection curve up to S^{MTN} now politically optimal to cut tariffs
- Reciprocity solves political problem difficult to put together a political coalition for unilateral trade liberalization – but juggernaut idea implies dynamic process
- Size of unilateral tariff hikes, and MTN tariff cuts depends on number of firms in import and exportcompeting sectors
- For example, a drop in domestic price will lead some import-competing firms to exit, domestic supply curve rotating counter-clockwise to S(n') in Figure 1
- Importantly, demand for protection would rotate down as marginal impact of tariff increase on import-competing firms would be smaller for any tariff T
- Therefore, impact of raising tariffs is twofold: higher tariffs raises number of firms, but higher number of firms raises politically optimal tariff

- Politically optimal tariff choice can be collapsed into one curve GFOC, and combined with free entry curve FE that relates equilibrium number of firms to tariff Figure 4
- Number of import competing firms plotted on horizontal axis, where n itself is a function of tariff
- Tariff plotted on vertical axis, determined by government maximizing its objective function along GFOC
- Intersection of GFOC^{unil} and FE gives combination of n and T at E^o, where government is choosing politically optimal tariff given n, and firms enter up to point of zero profits taking T as given

Reciprocity and Juggernaut Effect:

By rearranging political economy forces inside a country, MTN raises marginal cost of protection to government of maintaining any given tariff T (taking n as given)

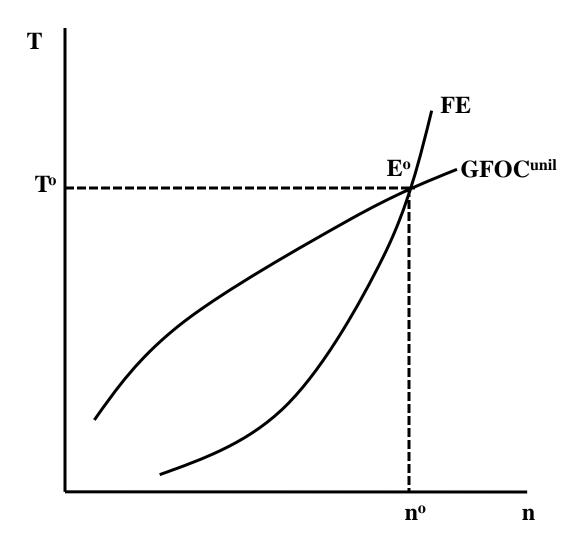


Figure 4: Juggernaut Framework

- In Figure 2, supply of protection shifts up, while in Figure 5, GFOC curve shifts down, as government finds it optimal to set lower tariff for any n
- In Figure 5, new long run tariff equilibrium is E', but as entry/exit occur slowly, there is a dynamic process of getting there
- Reciprocity results in a drop of tariff to T¹, inducing some import-competing firms to exit (export-competing firms enter), economy reaching A
- At this point, more trade negotiations occur, with tariff dropping to B, given decrease in size of import-competing sector (increase in size of export sector)
- Cycle repeats itself until long-run equilibrium reached at E' assuming MTN covers only trading partners or only part of traded goods
- If all trade is covered, shift in GFOC will be large enough to ensure long-run equilibrium involves zero tariffs at E^{final} see Figure 6

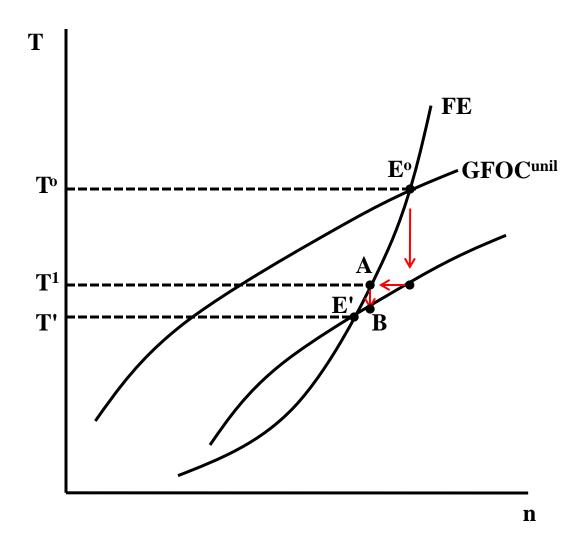


Figure 5: Juggernaut Effect and MTNs

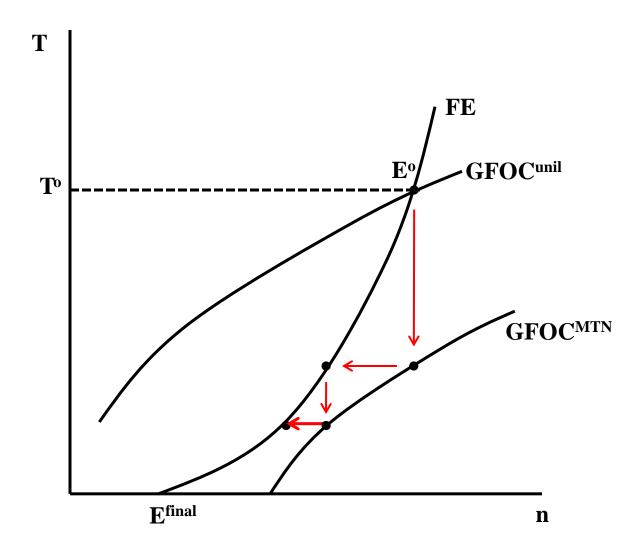


Figure 6: Juggernaut Effect and MTNs

Dominos and PTAs:

- Decision to join PTA depends on domestic political equilibrium balancing pro- and anti-membership forces
- Pro-membership forces associated with exporters who gain from preferential access if country joins, and lose from discrimination if country stays out
- Anti-membership forces associated with importcompeting industries that lose from liberalization, as well as those who have non-economic objections to membership
- Given initial political equilibrium, an idiosyncratic shock deepening PTA's integration, results in nonmember exporters having greater stake in membership, while anti-membership forces are also strengthened
- If output of export sectors exceeds that of importcompeting sectors, and political influence is linked to size, shock shifts political economy equilibrium closer to joining PTA

- If a non-member actually joins PTA, enlargement increases discrimination against non-members, heightening pro-membership pressure to join
- Cycle continues until PTA reaches new political equilibrium domino effect being illustrated in Figure 7

EE curve shows pressure to join increases with membership of bloc, while RR shows resistance to membership, countries being arranged from lowest to highest resistance

EE and RR intersect at initial equilibrium E^O, while deepening of integration within bloc will rotate EE up to EE', resulting in new political economy equilibrium

Dominos and Juggernauts:

Since formation of EEC in 1958, multilateral and regional liberalization have proceeded in tandem – so how are they connected in this framework?

■ FE schedule in Figure 4 assumes only one tariff, but with two trade partners, PTA with one can move FE schedule to left

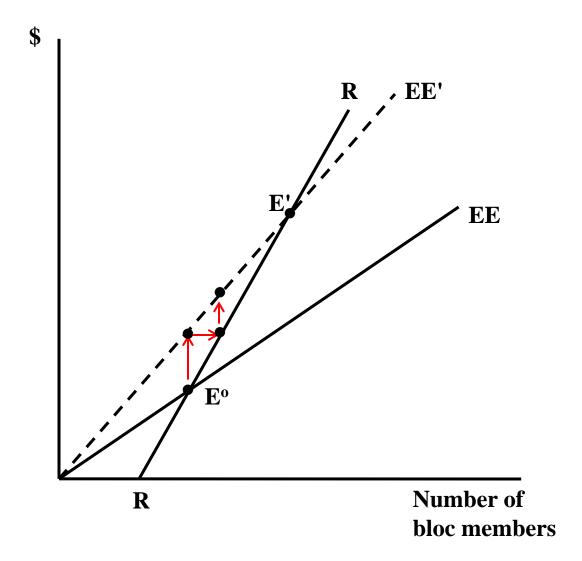


Figure 7: Domino Theory of Regionalism

- FE gives n as function of MFN tariff rate T, but preferential tariff boosts imports from partner, i.e., higher degree of import competition than under MFN tariff
- In Figure 8, FE shifts to FE' due to increase in imports, but at same time, this lowers optimal MFN tariff from E° to E', i.e., a trading bloc is a building block
- However, if PTA is trade diverting, lowering amount of imports corresponding to given MFN tariff, FE curve shifts right to FE'', i.e., politically optimal tariff increases PTA is a stumbling block
- If MTN reciprocity is strong enough, MFN tariff will be driven to zero at E^{final} irrespective of whether PTA is trade creating or diverting (see Figure 8)
- Race-To-The Bottom Unilateralism

Rapid expansion of trade, especially in East Asia, due to unilateral rather than preferential trade liberalization

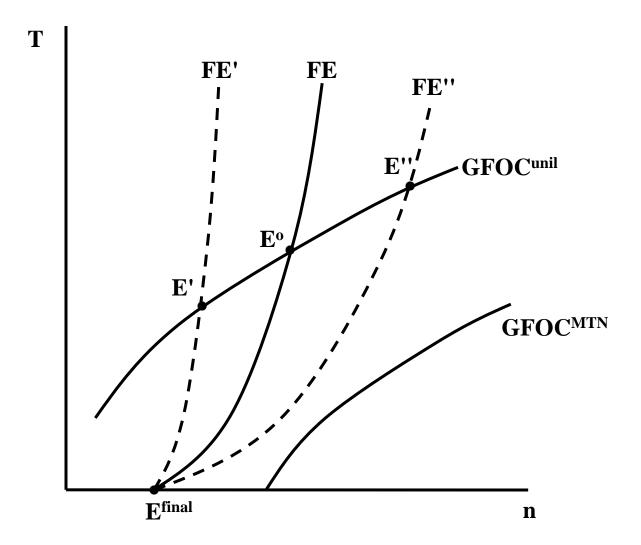


Figure 8: Dominos Start Juggernauts

- Following success of Japan and Asian Tigers, many emerging economies followed 'dual-track' development of blocking imports of manufactured goods while encouraging exports fitted in well with fragmentation of value-added chain
- Rising wages in developed countries, and decrease in transport and communication costs, have resulted in *unbundling* of vertically-integrated production in developing countries
- Labor-intensive stages have been offshored to emerging economies, who have competed with each other by unilaterally lowering their tariffs on imported intermediate goods used in assembly of final goods
- Political economy of these tariff cuts is different: intermediate goods only available from abroad, so no import-competing sector to harm with lower tariffs
- Also, tariff cuts seen as critical to generating new industry jobs so unilateral tariff cutting became politically optimal, especially when other emerging economies started doing it

Type of Trade Liberalization	
Time Period/Countries	

1940s/1950s: 5 GATT Rounds - reached new Multilateral - juggernaut effect - tariffs between (1960), and then UK, Ireland, Norway and 1960s: Foundation of EEC* (1958) and EFTA** political economy equilibrium by end of 1950s Denmark all applied to join EEC (1961)

US and partners fell, weakening anti-trade forces

1962-67: US concerned about trade diversion due to EEC - Kennedy pushed for across-the-board

1968: All tariffs removed on intra-EEC and Regionalism and multilateralism - complements intra-EFTA industrial trade; Kennedy Round of not substitutes tariff cuts in GATT Round

1973: UK, Denmark and Ireland join EEC virtually had free trade in industrial goods GATT reduced industrial tariffs

to expanded discrimination in Europe - some focus on reducing NTBs

1986: Uruguay Round launched, EEC signed

Single European Act to deepen integration,

Canada proposed CUSFTA

forces realigned in countries outside of EEC due Multilateral - dominos start juggernauts - due to Regional - domino effect - pro/anti-membership to trade diversion and lost trade creation

inability of US joining EEC, sought to reduce

EEC's common external tariffs in GATT

FTAs signed between EEC and EFTA - Europe countries such as UK would have had to raise 1973-79: Consensus created for Tokyo Round due Multilateral - dominos start juggernauts tariffs against former EFTA partners

Regional - domino effect - without FTAs,

industrial tariffs cut by third in Kennedy Round, agreed to cut by same amount in Tokyo Round

trade liberalization of 1970s strengthened export

sectors - pushed for "behind border" measures

Multilateral and regional - juggernaut effect -

* Belgium, France, Germany, Italy, Luxembourg, Netherlands; **Austria, Denmark, Norway, Portugal, Sweden, Switzerland, UK

History of Trade Liberalization

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effect - Latin American into NAFTA, so like UK and EEC, formed trade blocs of excluded nations

Latin American countries formed FTAs, e.g., Mercosur* 1994; Can

Regional - domino effect - creation of European Bilateral - juggernaut effect - small nations "spaghetti bowl" with complex rules of origin 1990s: Mexico signed bilateral FTAs with EU, 1990s: Collapse of Soviet Bloc and USSR - EU signed 12 FTAs with CEECs; and EU bilateral FTAs with Turkey and 5 Euro-Meds

seeking network of FTAs - trade blocs of Europe, North America and East Asia "fuzzy and leaky" Japan and 40 other countries; Chile signed bilateral FTAs with NAFTA, EU and Japan

initially benefiting from spaghetti bowl became Multilateral - dominos start juggernauts - firms victims and lobbied against it 1997: EU15, EFTA4, and 10 CEECs signed PECS agreement to have common rules of origin accounts for 40% or world trade

resulted in "hollowing out" of industry in Japan, End of 1990s: "Factory Asia" established -

Unilateral - race to the bottom - competitive

tariff cutting on intermediates in 1990s, then Taiwan, Korea, Singapore and Hong Kong

Asian trade 2000s: China joined WTO in 2001, triggering

regionalism playing little role fostering East

"noodle bowl" - by 2010, over 90 FTAs in effect, Regional - domino effect - creation of East Asian

not clear if complexity is problem though multiple bilateral and regional FTAs due to fears

^{* 1991:} Argentina, Brazil and Paraguay, subsequently joined by Bolivia, Chile, Colombia, Ecuador, Peru and Venezuela of Chinese competition