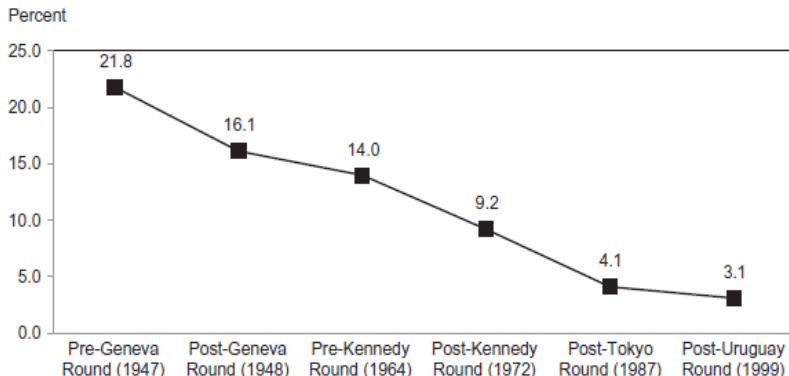


Explaining Gradualism in Trade Liberalization: A Political Economy Approach

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Average tariffs for U.S., Western Europe, and Japan



Source: Bown, C.P., Irwin, D.A., (2017) "The GATT's Starting Point: Tariff Levels circa 1947," in Assessing the World Trade Organization: Fit for Purpose?, M. Elsig, B. Hoekman, and J. Pauwelyn eds., Cambridge University Press, forthcoming, fig. 1

The Questions

1. Why would liberization not be immediate? Why proceed in stages?
2. What are the frictions preventing free trade?

Related Literature

Export sector

- ▶ Benefits of trade integration to consumers (Devereau 1997)
- ▶ Exporters increasingly depend on trade via capacity accumulation (Chisik 2003)

Import-competing sector

- ▶ Convex adjustment costs as workers leave import-competing sector (Mussa 1986); Furusawa & Lai similar for repeated game
- ▶ Gradual reductions improve welfare when there's a minimum wage (Mehlum 1998)
- ▶ Workers lose specialized skills as they leave (Staiger 1995)
- ▶ Lobbying and capital mobility (MRC 2007)

Limitation of punishments to WEC (Zissimos 2007)

Politics: Motivation

Is there an explanation for gradualism that is *fundamentally* rooted in political economy?

- ▶ i.e. a story that doesn't hinge on specific nature of trade
- ▶ The hope: lessons could be applied to other issue areas

Politics: Mechanism

Inefficient tariffs maintained through the lobbying of import-competing industries

- ▶ BUT ability to maintain protection reduced by shocks to political support
 - ▶ a key politician losing an election or committee position
- ▶ Immediate loss of protection / rents *can* \Rightarrow erosion of future political power and accompanying protection
- ▶ Demonstrate with a dynamic model of political economy

Economy

- ▶ Small country ('home') and Rest of World (ROW, *)
- ▶ Separable in three goods: X and Y (traded) and numeraire
 - ▶ Home net importer of X, net exporter of Y
- ▶ Home levies τ on X, Foreign levies τ^* on Y
 - ▶ $P_X = P_X^W + \tau$ and $\pi_X(P_X)$ increasing in τ
- ▶ Non-tradable specific factor (F) motivates political activity
- ▶ Demand identical for both goods in both countries
- ▶ $F_X(m_t, l_t) = A(m_t)F^\alpha l_t^{1-\alpha}$

Timeline

Within each period t , taking initial wealth as given

1. Election occurs (reduced form based on e_{t-1})
2. Lobby chooses l_t and makes investments in technology μ_t and politics e_t
3. Government chooses tariff (τ_t)
4. Production takes place, workers are paid (profits realized)
5. Tariff revenue is distributed and consumption takes place (not explicitly modeled)

Political Structure

In Home country (foreign is passive):

- ▶ Non-unitary government
 - ▶ Members re-elected each period
 - ▶ Composition impacted by lobby's investment
 - ▶ Sets tariff by majority rule
- ▶ A Single Lobby
 - ▶ Represents import-competing sector, X

“Government”

Decision determined by complex process. Reduced form:

$$W_{G,t} = CS_X(\tau) + \gamma_t \pi_X(\tau) + CS_Y(\tau^*) + \pi_Y(\tau^*) + TR(\tau)$$

- ▶ $CS_i(\cdot)$: consumer surplus
- ▶ $\pi_X(\tau)$: profits of import-competing industry
- ▶ $\pi_Y(\tau^*)$: profits of exporting industry
- ▶ $TR(\tau)$: tariff revenue
- ▶ $\gamma_t = \gamma(e_{t-1}, \theta_{t-1})$

“Government”

$$W_{G,t} = CS_X(\tau) + \gamma_t \pi_X(\tau) + CS_Y(\tau^*) + \pi_Y(\tau^*) + TR(\tau)$$

- ▶ γ_t : weight on import-competing industry profits.
Determined via election, influenced by
 - ▶ e_{t-1} : lobbying effort
 - ▶ θ_{t-1} : uncertain element in electoral process

Assumption 1

$\gamma(e_{t-1}, \theta_{t-1})$ is increasing and concave in e_{t-1} for all $\theta_{t-1} \in \Theta$.

Lobby

$$\max_{e_t, m_t, l_t} \sum_{t=1}^{\infty} \{A(m_t) \cdot F^{\alpha} \cdot l_t^{1-\alpha} [P^W + \tau(\gamma(e_{t-1}))] - l_t - \mu_t - e_t\}$$
$$\text{s.t.} \quad m_t = m_{t-1} + \mu_t$$

where

- ▶ μ_t : Investment in productivity
 - ▶ Assume $A(\cdot)$ increasing and concave in m_t
- ▶ l_t : Labor
- ▶ e_t : Lobbying effort
- ▶ τ_t : home tariff on good X

Two-Period Model

Given γ_0

$$\max_{l_1, e_1, \mu_1, l_2, \mu_2} \left\{ A(m_0, \mu_1) F^\alpha l_1^{1-\alpha} [P^W + \tau(\gamma_0)] - l_1 - \mu_1 - e_1 \right\}$$

$$\left\{ A(m_0, \mu_1, \mu_2) \cdot F^\alpha \cdot l_2^{1-\alpha} [P^W + \tau(\gamma(e_1))] - l_2 - \mu_2 \right\}$$

What happens when γ_0 decreases? Two cases:

1. $\mu_1 \uparrow$ and $l_1 \uparrow$ (increase investment in productivity)
2. $\mu_1 \downarrow$ and $l_1 \downarrow$ (reduce investment in productivity)

Two-Period Model

In both cases (reduction/increased investment in productivity)

- ▶ investment in politics e_1 can increase or
- ▶ investment in politics e_1 can decrease

When investment in politics (e_1) ↓ **This is gradualism!**

Next Steps

- ▶ Determine what separates cases of $\mu_1 \uparrow$ from $\mu_1 \downarrow$?
- ▶ Add wealth constraint
- ▶ Fully dynamic model
- ▶ Comparative statics on $A(m_t)$