



2. Europe and Global Trade: Patterns, Theories, Policies and Strategies

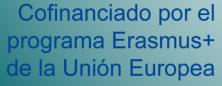


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GOBIERNO de CANTABRIA





2. Europe and Global Trade: Patterns, Theories, Policies and Strategies

Contents

- Patterns and Theories of International Trade: CSA and FSA
- From Inter-industrial trade to Intra-industrial trade
- Global Value Chains International Supply Chains
- Intra-firm trade
- Trade theoretical review: from country to firm based analysis
- Theory of national competitive advantage (R. Porter)





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Trade Patterns and Theories

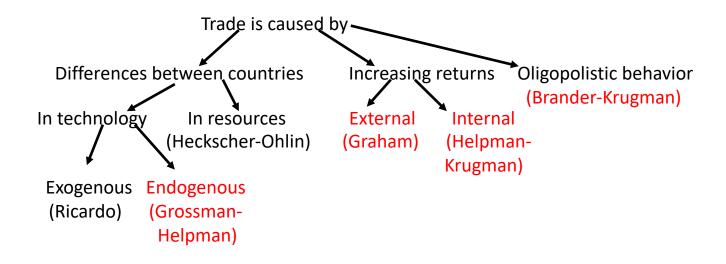
- The Pattern of International Trade displays
 - Patterns that are easy to understand
 - Country Specific Advantages CSA.
 - Venezuela-> PDVSA, Norway -> STATOIL.
 - Others are not so easy to understand
 - Firms Specific Advantages FSA (Ford, Volkswagen, Toyota).
 - FSA or Industry: Motor vehicles US-America, Japan-Korea-China, Germany-Brazil-Mexico).
- The history of Trade Theory and government involvement presents a mixed case for the role of government in promoting exports and limiting imports.





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International Trade Theories: from Inter-national trade (CSA) to Intra-industry and Intra-firm trade (FSA)







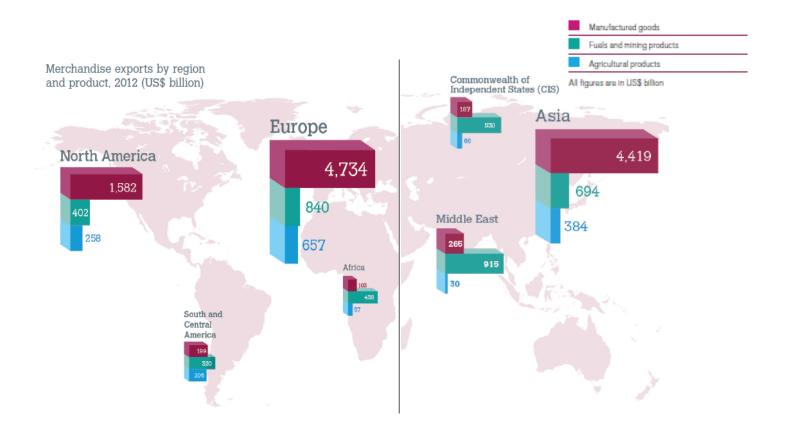
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International Trade: Leading exporter and importer in goods 2015

(Billion dollars and percentage)									
Rank	Exporters	Value	Share	Annual % change	Rank	Importers	Value	Share	Annual % change
1	China	2275	17,4	-3	1	United States	2308	17,3	-4
2	Extra-EU(28) exports	1985	15,2	-12	2	Extra-EU(28) imports	1914	14,4	-15
3	United States	1505	11,5	-7	3	China	1682	12,6	-14
4	Japan	625	4,8	-9	4	Japan	648	4,9	-20
5	Korea, Republic of	527	4,0	-8	5	Hong Kong, China	559		-7
6	Hong Kong, China	511	3,9	-3	6	Korea, Republic of	436	3,3	-17
7	Canada	408	3,1	-14	7	Canada a	436	3,3	-9
8	Mexico	381	2,9	-4	8	Mexico	405	3,0	-2
9	Singapore	351	2,7	-14	9	India	392	2,9	-15
10	Russian Federation	340	2,6	-32	10	Singapore	297		-19
11	Switzerland	290		-7	11	Switzerland	252		-9
12	Chinese Taipei	285		-11	12	Chinese Taipei	238	1,8	-16
13	India	267	2,0	-17	13	United Arab Emirates b	230		-8
14	United Arab Emirates b	265	2,0	-29	14	Australia	208		-12
15	Thailand	214	1,6	-6	15	Turkey	207		-14
16	Saudi Arabia, Kingdom o	202	1,5	-41	16	Thailand	203		-11
17	Malaysia	200	1,5	-15	17	Russian Federation a	194		-37
18	Brazil	191	1,5	-15	18	Brazil	179		-25
19	Australia	188	1,4	-22	19	Malaysia	176		-16
20	Viet Nam	162	1,2	8	20	Saudi Arabia, Kingdom o			-1
21	Indonesia	150		-15	21	Viet Nam	166		12
22	Turkey	144		-9	22	Indonesia	143		-20
23	Norway	105		-27	23	South Africa b	105		-14
24	South Africa	82	0,6	-10	24	Norway	76		-15
25	Qatar	77	0,6	-39	25	Philippines b	70	0,5	3











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International Trade: Intra-IndustryTrade

A18. Top 10 exporters and importers of chemicals, A19. Top 10 exporters and importers of pharma (Billion dollars and percentage)

Value Share in world exports/imports 2015 2015 **Exporters** 53.9 48.2 European Union (28) 901 extra-EU (28) exports 349 18.6 18.7 **United States** 206 14.8 13.3 13.7 11.0 130 2.1 6.9 8.0 1.3 China a Switzerland 88 4.0 4.7 3.6 4.7 4.7 Japan 63 5.3 6.0 3.4 Korea, Republic of 58 0.5 8.0 2.4 3.1 47 0.5 1.1 1.6 2.5 Singapore Canada 37 2.5 2.2 2.5 2.0 36 0.3 0.4 0.7 1.9 India Chinese Taipei 32 0.4 0.9 1.6 1.7 Above 10 1598 88.0 85.5 **Importers** 44.0 39.5 European Union (28) 761 extra-EU (28) imports 205 10.5 10.7 **United States** 220 6.2 7.7 12.2 11.5 171 2.0 2.2 4.9 8.9 China a Japan 64 4.1 5.0 4.2 3.3 India 47 0.0 1.0 0.8 2.4 2.2 2.5 Canada b 45 3.2 2.3 Korea, Republic of 43 1.3 2.4 2.2 2.2 43 1.5 1.2 2.2 2.4 Mexico a. b 42 2.5 2.6 2.2 Switzerland 2.1 38 2.4 1.1 1.6 2.0 Brazil c Above 10 1474 77.7 76.6

(Billion dollars and percentage)

	Value	Share in world ex	Share in world exports/imports		
	raido	onaro in world exportantipo			
	2015	2010	2015		
Exporters					
European Union (28)	340	66.1	63.9		
extra-EU (28) exports	159	26.7	29.8		
Switzerland	65	10.6	12.2		
United States	52	9.6	9.8		
India	14	1.5	2.6		
China a	14	2.3	2.5		
Canada	8	1.2	1.4		
Singapore	8	1.3	1.4		
Israel	7	1.4	1.2		
Japan	4	0.9	0.7		
Panama b	4	0.6	0.7		
Above 10	514	95.7	96.6		
mporters					
European Union (28)	260	52.1	47.5		
extra-EU (28) imports	80	13.5	14.6		
United States	90	13.9	16.4		
Japan	24	3.7	4.4		
Switzerland	23	4.0	4.2		
China a	20	1.7	3.7		
Canada c	13	2.6	2.3		
Russian Federation c	9	2.4	1.7		
Australia c	8	1.8	1.4		
Brazil c	7	1.4	1.3		
Mexico a, c	5	1.0	1.0		
Above 10	460	84.6	83.8		





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Intra Industrial Trade

A21. Top 10 exporters and importers of automotive | A20. Top 10 exporters and importers of office and teleco (Billion dollars and percentage)

(Billion dollars and percentage)

	Value	Shar	Share in world exports/imports			
	2015	1980	1990	2000	2015	2
Exporters						
European Union (28)	653			49.8	49.3	
extra-EU (28) exports	229	-	-	12.2	17.3	
Japan	137	19.8	20.8	15.3	10.3	
United States	129	11.9	10.2	11.7	9.8	
Mexico a	97	0.3	1.4	5.3	7.3	
Korea, Republic of	71	0.1	0.7	2.6	5.4	
Canada	62	6.9	8.9	10.5	47	
China a	49	0.0	0.1	0.3	3.7	
Thailand	27	0.0	0.0	0.4	2.0	
Turkey	17	0.0	0.0	0.3	1.3	
India	11		0.1	0.1	0.9	
Above 10	1253			96.3	94.6	
Importers						
European Union (28)	498	-	-	42.5	36.7	
extra-EU (28) imports	/2	-	-	5.6	5.3	1
United States	292	20.3	24.7	29.4	21.6	
China a	73	0.6	0.6	0.7	5.4	
Canada b	68	8.7	7.7	8.0	5.0	
Mexico a, b	45	1.8	0.3	3.5	3.3	
Saudi Arabia, Kingdom of c	33	2.7	0.9	0.7	2.4	
Australia b	24	1.3	1.2	1.5	1.7	
Turkey	20		0.4	1.0	1.4	
Japan	19	0.5	2.3	1.7	1.4	
Russian Federation b	16	-	-	0.2	1.2	
Above 10	1088	•		89.0	80.2	

	Value	Share in world exports/imports			
	2015	1980	1990	2000	2015
coorters					
China a	591	0.1	1.0	4.5	34.0
European Union (28)	318	-	-	29.3	18.3
extra-EU (28) exports	85	-	-	8.7	4.9
Hong Kong, China	244	-	-	-	-
domestic exports b	0	2.0	1.6	0.4	0.0
re-exports	244	-	-		
United States	142	19.5	17.3	15.9	8.2
Singapore	118	3.2	6.4	7.7	6.8
Korea, Republic of	110	2.0	4.8	6.1	6.3
Chinese Taipei	93	3.2	4.7	6.0	5.4
Mexico a	63	0.1	1.5	3.5	3.6
Japan	60	21.1	22.5	11.2	3.5
Malaysia a	59	1.4	2.7	5.4	3.4
bove 10	1555		-	90.1	89.6
nporters					
European Union (28)	446	-	-	33.9	23.1
extra-EU (28) imports	222	-	-	14.7	11.5
China a	385	0.6	1.3	4.4	19.9
United States	321	15.9	21.1	21.2	16.6
Hong Kong, China	257	-	-		
retained imports b	13	1.7	1.4	1.3	0.7
Singapore	84	2.6	4.5	5.3	4.4
Japan	80	2.6	3.7	6.0	4.2
Mexico a, c	64	0.9	1.5	2.9	3.3
Korea, Republic of	62	1.3	2.6	3.3	3.2
Chinese Taipei	47	1.4	2.5	3.8	2.4
Malaysia a	41	1.6	1.9	3.2	2.1
bove 10	1542		•	85.3	79.8



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Intra-industry Trade Global Value Chains – International Supply Chains

Today's planet of trade looks very different from when the first rules governing world trade. The old division of labour between nations has been radically changed by the recent wave of globalization.

Global value chains, or international supply chains, are core to this development and traditional boundaries and distances are collapsing.

See:

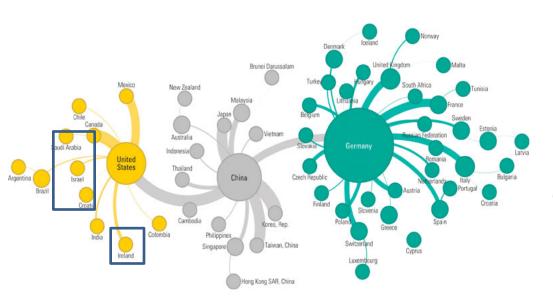
https://www.wto.org/english/res_e/statis_e/miwi_e/background_paper_e.htm



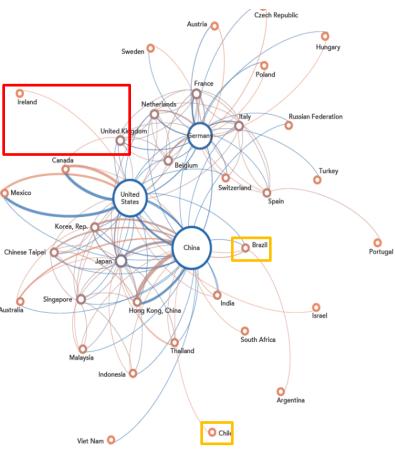


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Intra industry trade - Global Value Chain



Intra-industry trade in Components (2017)



Source: Diakantoni and others 2017, based on the UN Comtrade database (https://comtrade.un.org).















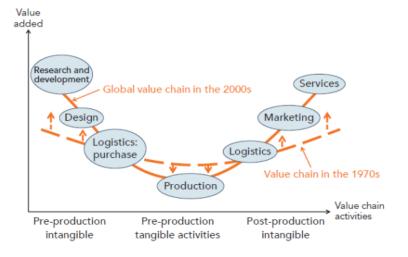
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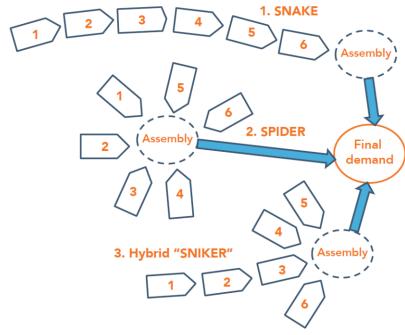
Smile curve of GVC 1970s-2000s

GVC Animals

1970s and 2000s



Source: Author's analysis based on Shih 1996 and Gereffi, Humphrey, and Sturgeon 2005.



Source: Diakantoni and others 2017, based on Raldwin and Venables 2010





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Intra-Firm Trade

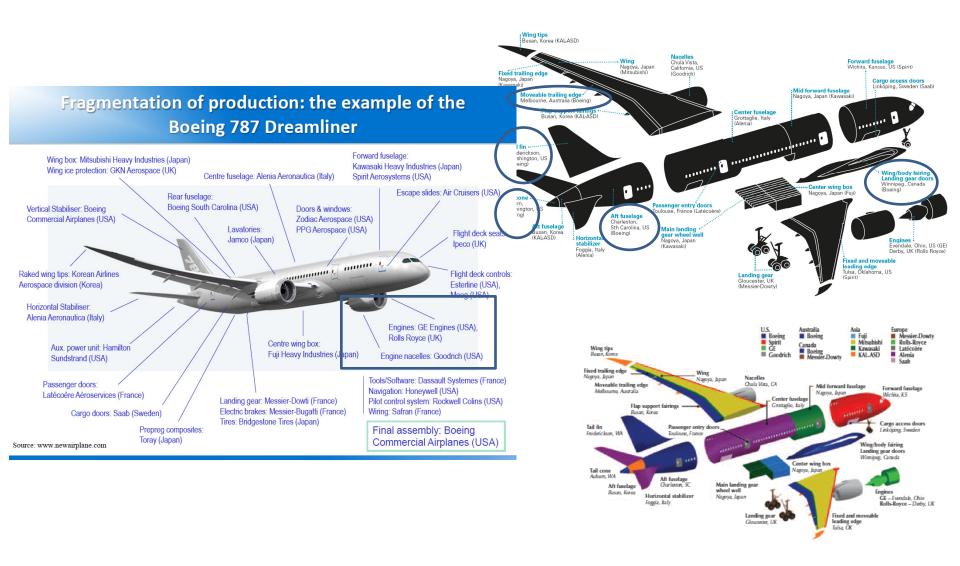
OECD (2011) Intra-Firm Trade: Patterns, Determinants and Policy Implications

Intra-firm trade consist of trade between parent companies of a country with their affiliates abroad and trade of affiliates under foreign control in this country with their foreign parent group.

- The emergence of global value chains and the expansion of activities of multinational enterprises have increased the value of intra-firm trade flows.
- Trade statistics and firm-level data point out that intra-firm trade and vertical integration occur predominantly among OECD countries and that firm behaviour and relationships between buyers and suppliers explain the patterns of intra-firm trade.





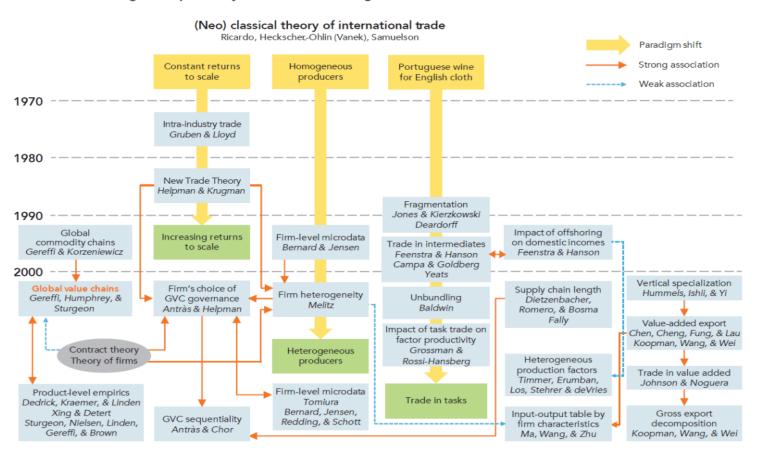






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FIGURE 1.1 Genealogical map of analytical frameworks for global value chains



World Bank, JETRO, OCDE, WTO (2017) Global Value Chain Development Report 2017, by Satoshi INOMATA





	Country-based (1800s-1970s)	Industry-based (1980s-2000s)	Firm-based (2000s-present)
General			
Industries	Two homogeneous goods sectors	One differentiated goods sector	One differentiated goods sector
Producers			
Technologies ¹	Constant returns to scale	Increasing returns to scale	Increasing returns to scale
Technology differences	Across industries; across countries	No differences	Across firms
Market structure ²	Perfect competition	Monopolistic competition	Monopolistic competition
Consumers			
Income source	Capital and labour	Labour	Labour
Preferences		Desire for variety	Desire for variety
Key results			
Type of trade	Across industries	Within industries	Within industries
Sources of gains from trade	Across-industry reallocations of resources	Higher scale of production; more product variety; lower markups	Higher scale of production; more product variety; within-industry re- allocation of resource:
Aggregate productivity effects of trade	Not applicable	Positive effects from higher scale	Positive effects from higher scale and reallocation across firms





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International trade theories and industrial policy

Intra-industry Intra-firm (GVC) in industries with high fixed costs(R&D, technological design):

- Specialization increases productivity, and the ability to enhance economies of scale increases.
- Learning effects are high. These are cost savings that come from "learning by doing".
- Typically, industries with high, fixed costs
 - World demand will support few competitors.
- Competitors may emerge because of "First-mover advantage"
 - Economies of scale may preclude new entrants
 - Role of the government becomes significant
- Some argue that it generates government intervention and strategic trade policy.





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Monopolistic Competition and Trade

- Main differences between inter-industry and intra-industry trade:
 - Inter-industry trade reflects natural comparative advantage (natural CSA), whereas intra-industry trade does not (FSA)
 - The relative importance of intra-industry and interindustry trade depends on how similar countries are.
- Intra-industry and Intra-firm trade plays a particularly large role in the trade in manufactured goods and services among advanced economies, which accounts for most of world trade.



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Theory of national competitive advantage

- The theory attempts to analyze the reasons for a nations success in a particular industry (Country Specific Advantages: CSA-Industrial clusters)
- M. Porter (The Competitive Advantage of Nations) studied 100 industries in 10 nations postulated determinants of competitive advantage of a nation were based on four major attributes
 - Factor endowments
 - Demand conditions
 - Related and supporting industries
 - Firm strategy, structure and rivalry



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Summary and Discussion Questions

- Trade patterns: theory and evidence
- New Trade Theories: from CSA to FSA
- Economies of Scale, First-Mover Advantages and the Pattern of Trade
- Implications of New Trade Theory
- National Competitive Advantage: Porter's Diamond
- Managerial Implications: Location, First-Mover Advantages, Policies.
- In a world without trade, what would happen to the costs that European consumers would have to pay for ICT products?