Globalization and International Trade: The Changing Role of Hong Kong

Michael Fung
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Globalization and International Trade

• Trade Patterns in the Process of Globalization
• Economics of Global Supply Chain Management (GSCM)
• Hong Kong: From Entrepôt Trade to GSCM
• Company Case: Li & Fung
World Exports from 1950 to 2010

Long-term trends in value and volume of merchandise exports, 1950-2010

(Index numbers, 2000=100)

Source: UNCTAD secretariat calculations, based on UNCTADstat and CPB Netherlands Bureau of Economic Policy Analysis, World trade database

http://dgff.unctad.org/chapter1/1.1.html
Comparative Advantage

- David Ricardo (1817): On the Principles of Political Economy and Taxation
- Two countries: England and Portugal
- Two goods: wine and cloth
Comparative Advantage

• In Portugal it is possible to produce both wine and cloth with less labor than it would take to produce the same quantities in England.
• In England it is very hard to produce wine, and only moderately difficult to produce cloth.
• In Portugal both are easy to produce.
• Each country can gain by specializing in the good where it has comparative advantage, and trading that good for the other.

http://en.wikipedia.org/wiki/Comparative_advantage
Comparative Advantage

Explain in opportunity cost:

• Hong Kong exports human capital intensive services

• China exports land intensive agricultural goods
Economics of Global Supply Chain Management (GSCM)

Richard Baldwin

Global Supply Chains: Why They Emerged, Why They Matter, and Where They are Going

*Fung Global Institute WP FGI-2012-1*
Global Supply Chains: Why They Emerged, Why They Matter, and Where They Are Going

Richard Baldwin

July 2012
Globalization has been driven by advances in two very different types of ‘connective’ technologies: transportation and transmission.
Economics of Global Supply Chain Management
1st Unbundling (1830 – 1980)
The steam revolution, especially railroads and steamships, made it feasible to spatially separate production and consumption.
From Local to Global Production and Markets

WTO (2011): Trade Patterns and Global Value Chains in East Asia
Globalization's first unbundling was marked by five top-line facts:

International trade in goods exploded during the first unbundling.

The ‘North’ (Europe, North America and Japan) industrialized while South de-industrialized, especially India and China.
Globalization's first unbundling was marked by five top-line facts:

Growth “Take-off”

The first unbundling saw North and South incomes diverge massively.
Globalization's first unbundling was marked by five top-line facts:

Production clustered locally as it dispersed globally.
The first globalization paradox: freer trade led production to cluster locally in factories and industrial districts:

- cheap transport favors large-scale production
- such production is complex
- extreme proximity lowers the cost of coordinating the complexity

By removing one constraint (transport costs), the 1st unbundling brought forward another – coordination costs. Proximity became more important in many ways, not less.
Economics of Global Supply Chain Management
2nd Unbundling (1980 - )
Economics of Global Supply Chain Management

2nd Unbundling (1980 - )

Coordinating production requires a complex exchange of information.
Since the advancement of ICT starting from the mid-1980s, the coordination cost has been substantially reduced:

• The vast wage differences between developed and developing nations made separation profitable.
• The ICT revolution made it possible to coordinate complexity at distance.

This was globalization's 2nd unbundling – some production stages previously performed in close proximity were dispersed geographically.
From local to global production and markets

WTO (2011): Trade Patterns and Global Value Chains in East Asia
World Non-fuel Merchandise Exports by Type of Good, 1995-2009 (in billions of US$)

Sources: UN Comtrade Database and WTO estimates.

WTO (2011): Trade Patterns and Global Value Chains in East Asia
Foreign Content in Gross Exports

Percentages indicate the share of foreign value added in gross exports

Source: IMF staff estimates using OECD Input-Output Tables, UN Comtrade, and OECD STAN data.

IMF (2012): Changing Patterns of Global Trade
The Fragmentation of Production: The Example of the Boeing 787 Dreamliner

WTO (2011): Trade Patterns and Global Value Chains in East Asia
Globalization's 2nd unbundling was marked by five top-line facts:

South industrialization & North de-industrialization
Seven Risers and Seven Losers: Manufacturing Reversal of Fortunes

Richard Baldwin and Javier Lopez-Gonzalez 2013, Supply-Chain Trade: A Portrait of Global Patterns and Several Testable Hypotheses, NBER WP 18957
Globalization's 2nd unbundling was marked by five top-line facts:

Reversal of the big income divergence
Reversal of the Big Divergence

Richard Baldwin 2012, Global Supply Chains: Why They Emerged, Why They Matter, and Where They are Going, Fung Global Institute WP FGI-2012-1
Globalization's 2nd unbundling was marked by five top-line facts:

New industrialization path: joining rather than building industrial supply chains
Globalization's 2nd unbundling was marked by five top-line facts:

Rise of 21st century trade: the trade-investment-services-IP nexus
G7 Share of Trade

Source: WTO database

Richard Baldwin and Javier Lopez-Gonzalez 2013, Supply-Chain Trade: A Portrait of Global Patterns and Several Testable Hypotheses, NBER WP 18957
Economics of Global Supply Chain Management
2\textsuperscript{nd} Unbundling (1980 - )

**Special feature of GSC:**

- The global supply chain is really not very global – it’s regional.
Regional Shares in World Exports of Intermediate Goods (Percentage)

WTO (2011): Trade Patterns and Global Value Chains in East Asia

Sources: UN Comtrade Database and WTO estimates.
Intra-regional and Major Inter-regional Imports of Intermediate Goods, 2008 (in billions of US$)

WTO (2011): Trade Patterns and Global Value Chains in East Asia
Global flows in a digital age: How trade, finance, people, and data connect the world economy
The digital component of global flows is growing quickly

Share of selected cross-border flows that are digital%

<table>
<thead>
<tr>
<th>Flow</th>
<th>Category</th>
<th>Digital component</th>
</tr>
</thead>
<tbody>
<tr>
<td>Goods</td>
<td>E-commerce share of total goods trade¹</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td>2005</td>
<td>12.1</td>
</tr>
<tr>
<td>Data and communication</td>
<td>Calls</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td>Skype share of international calls²</td>
<td>39.0</td>
</tr>
<tr>
<td>Services</td>
<td>Digitally enabled share of total services trade³</td>
<td>51.0</td>
</tr>
<tr>
<td></td>
<td>2013</td>
<td>63.0</td>
</tr>
</tbody>
</table>

¹ Based on China data.
² Excludes other VOIP minutes.
³ Based on US data.

NOTE: 2005 values for services are calculated by interpolating from prior and subsequent years based on constant growth rates.

SOURCE: iResearch; Telegeography; OECD; US Bureau of Economic Analysis; McKinsey Global Institute analysis

Economics of Global Supply Chain Management:
Future of GSCs
Major Factors

• Wage Gap
• Reduction of transportation and communication costs
Additional Factors

• A sequential task can be performed during normal day shifts in different time zones to ensure a continuous 24-hour operation
• Foreign tax and investment conditions also affect offshoring decisions
• Diversifying operational locations to different countries may be a way to hedge against the risk of currency movements

Future of GSC

The future of global supply chains will be molded by the answers to the following questions:

• Will stages of production be further dispersed and interconnected internationally?

• Will stages of production become more polarized in terms of skill-, capital- and technology-intensity?
Economics of Global Supply Chain Management (GSCM)

Functional unbundling: Specialization versus coordination and risk

Some ICT improvements reduce the costs of specialization while others reduce the benefits of specialization.
Economics of Global Supply Chain Management (GSCM)

Future of GSC

Information vs coordination technology

- Rapid improvement in coordination/communication technology favors supply chain unbundling functionally and geographically.

- Better information technology, by contrast, favors bundling of many tasks into the ambit of individual workers. This will typically result in broader occupations and few separate stages of production.
Schematic Illustration of Computer Integrated Manufacturing

Richard Baldwin 2012, Global Supply Chains: Why They Emerged, Why They Matter, and Where They are Going, Fung Global Institute WP FGI-2012-1
Future of GSC

Wage gap convergence may increase supply-chain trade

One of the most remarkable trends in recent years has been a narrowing of wage differences between developed and developing nations. This trend is having, and will continue to have, two distinct effects on international supply chains.

• First, wage convergence changes the nature of trade between the converging nations. Specifically, developing nations like China are producing sophisticated intermediate goods that previously were imported.

• Second, as wages rise in China, Mexico, Poland, etc, the geographically extent of supply chains widens to include new low-wage nations like Vietnam.
Boston Consulting Group, 2011, Made in America, Again
BCG (2011)

China’s Rising Wages

EXHIBIT 1 | China’s Wage Rates Are Growing Rapidly

Average wages could approach 17 percent of those in the U.S. by 2015, up from 3 percent in 2000

Fully loaded factory-worker wages ($/hour)

<table>
<thead>
<tr>
<th>Year</th>
<th>U.S.</th>
<th>China</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>16.6</td>
<td>0.5</td>
</tr>
<tr>
<td>2001</td>
<td>18.8</td>
<td>0.8</td>
</tr>
<tr>
<td>2002</td>
<td>22.3</td>
<td>2.0</td>
</tr>
<tr>
<td>2004</td>
<td>26.1</td>
<td>4.5</td>
</tr>
<tr>
<td>2005</td>
<td></td>
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<tr>
<td>2006</td>
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<td>2011E</td>
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<td>2013E</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2014E</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2015E</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Ratio of average Chinese to average U.S. wage rates

- 2000–2005 (%): 2
- 2005–2010 (%): 4
- 2010–2015 (%): 3

Sources: Economist Intelligence Unit; U.S. Bureau of Labor Statistics; selected company data; BCG analysis.
BCG (2011)

Productivity Insufficient to Offset Wage Increases

EXHIBIT 2 | China’s Productivity Gains Will Lag Behind Wage Increases

Growing at nearly 10 percent per year, China’s productivity could reach 40 percent of U.S. productivity by 2015

Chinese productivity relative to U.S. productivity (%)

<table>
<thead>
<tr>
<th>Average unit productivity, CAGR 2000–2010 (%)</th>
<th>Average unit productivity, CAGR 2010–2015 (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S.: ~2</td>
<td>U.S.: ~1</td>
</tr>
<tr>
<td>China: ~10</td>
<td>China: ~8.5</td>
</tr>
</tbody>
</table>

Sources: Economist Intelligence Unit; U.S. Bureau of Labor Statistics; BCG analysis.
Note: All figures are based on real units.
BCG (2011)

Labor Share

<table>
<thead>
<tr>
<th>Imagine a company...</th>
<th>...with the following choices of location</th>
<th>2000</th>
<th>2015E</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S.-based auto parts supplier</td>
<td>Flexible unions/workforce</td>
<td>15.81</td>
<td>24.81</td>
</tr>
<tr>
<td>Most customers are U.S. OEMs that manufacture in the U.S.</td>
<td>Minimal wage growth</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>High worker productivity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parts require eight minutes of labor, on average, in the U.S.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Labor represents one-quarter of the total cost of the part</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>U.S., selected southern states</th>
<th>China, Yangtze River Delta</th>
<th>2000</th>
<th>2015E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wage rate ($/hour)</td>
<td>0.72</td>
<td>6.31</td>
<td></td>
</tr>
<tr>
<td>Productivity (%)</td>
<td>13</td>
<td>42</td>
<td></td>
</tr>
<tr>
<td>Labor cost/part ($)</td>
<td>0.74</td>
<td>2.00</td>
<td></td>
</tr>
<tr>
<td>Wage rate ($/hour)</td>
<td>0.74</td>
<td>2.00</td>
<td></td>
</tr>
<tr>
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</tr>
<tr>
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<td>0.74</td>
<td>2.00</td>
<td></td>
</tr>
</tbody>
</table>

Sources: Economist Intelligence Unit; U.S. Bureau of Labor Statistics; BCG analysis.

1Average productivity difference between the U.S. and China’s Yangtze River Delta. Productivity in the Yangtze River Delta region is assumed to grow at a CAGR of ~7 percent over a 2009 baseline, slightly slower than overall Chinese manufacturing productivity (~8.5%) as other regions adopt more advanced manufacturing practices.
Future of GSC

Trade barriers and transportation costs

The 2nd unbundling has been accompanied by a remarkable reduction in policy barriers to trade in goods – tariffs, port delays, red-tape, etc. Trade costs, however, could still rise with oil prices.
Cost to Export and Time to Export, 2005 and 2008


WTO (2011): Trade Patterns and Global Value Chains in East Asia
Globalization and International Trade

• Trade Patterns in the Process of Globalization
• Economics of Global Supply Chain Management (GSCM)
• Hong Kong: From Entrepôt Trade to GSCM
• Company Case: Li & Fung
China and Global Supply Chains
Total US Trade with Selected Asian Partners, 1970 and 1990 (in billions of US$)

**1970**

**1990**

Note: The size of the bubbles represents the sum of US exports and imports to/from its Asian partner.

Source: Based on UN Comtrade Database.

WTO (2011): Trade Patterns and Global Value Chains in East Asia
Total US Trade with Selected Asian Partners, 2000 and 2009 (in billions of US$)

WTO (2011): Trade Patterns and Global Value Chains in East Asia

Note: The size of the bubbles represents the sum of US exports and imports to/from its Asian partner.
Source: Based on UN Comtrade Database.
Bilateral Trade Flows between China, the United States and Japan, 1995 versus 2009, by Type of Good (Percentage)

WTO (2011): Trade Patterns and Global Value Chains in East Asia

WTO (2011): Trade Patterns and Global Value Chains in East Asia

**Source:** WTO (2011): Trade Patterns and Global Value Chains in East Asia
Economic Contribution of International Trade to HK
Value Added as Percentage of Nominal GDP at Basic Price for 4 Major Pillars in HK from 2005 to 2011

% of Nominal GDP at basic price

- Trading and logistics
- Financial services
- Professional services and other producer services
- Tourism

Source: HK Census and Statistics Department
Employment as Percentage of HK Total Employment for 4 Major Pillars in HK from 2005 to 2011

% of Total employment

Source: HK Census and Statistics Department
Hong Kong and Global Supply Chains
Merchandise Trade as Percentage of GDP in Current USD of HK and China from 1961 to 2012

Source: World Bank Development Indicators
Values of Merchandise Trade for HK from 1952 to 2012

Source: HK Census and Statistics Department
## Value and Decomposition of HK’s Total Exports and Percentage as Share of Total Exports

<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Re-exports</td>
<td>30,072</td>
<td>105,270</td>
<td>413,999</td>
<td>1,112,470</td>
<td>1,391,722</td>
<td>2,114,143</td>
<td>2,961,507</td>
<td>3,375,516</td>
</tr>
<tr>
<td></td>
<td>30.6%</td>
<td>44.8%</td>
<td>64.7%</td>
<td>82.8%</td>
<td>88.5%</td>
<td>94.0%</td>
<td>97.7%</td>
<td>98.3%</td>
</tr>
<tr>
<td>Domestic exports</td>
<td>68,171</td>
<td>129,882</td>
<td>225,875</td>
<td>231,657</td>
<td>180,967</td>
<td>136,030</td>
<td>69,512</td>
<td>58,830</td>
</tr>
<tr>
<td></td>
<td>69.4%</td>
<td>55.2%</td>
<td>35.3%</td>
<td>17.2%</td>
<td>11.5%</td>
<td>6.0%</td>
<td>2.29%</td>
<td>1.7%</td>
</tr>
<tr>
<td>Total exports</td>
<td>98,242</td>
<td>235,152</td>
<td>639,874</td>
<td>1,344,127</td>
<td>1,572,689</td>
<td>2,250,174</td>
<td>3,031,019</td>
<td>3,434,346</td>
</tr>
<tr>
<td></td>
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</tr>
</tbody>
</table>

Source: HK Census and Statistics Department
## Value and Decomposition of HK’s Imports and Percentage as Share of Total Imports

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>For Re-exports</td>
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<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>352,602</td>
<td>928,912</td>
<td>1,098,069</td>
<td>1,744,168</td>
<td>2,490,124</td>
<td>2,855,552</td>
</tr>
<tr>
<td></td>
<td>54.8%</td>
<td>62.3%</td>
<td>66.2%</td>
<td>74.9%</td>
<td>74.0%</td>
<td>73%</td>
</tr>
<tr>
<td>Retained imports</td>
<td>289,928</td>
<td>562,209</td>
<td>559,893</td>
<td>585,301</td>
<td>874,716</td>
<td>1,056,611</td>
</tr>
<tr>
<td></td>
<td>45.1%</td>
<td>37.7%</td>
<td>33.8%</td>
<td>25.1%</td>
<td>26.0%</td>
<td>27.0%</td>
</tr>
<tr>
<td>Total imports</td>
<td>642,530</td>
<td>1,491,121</td>
<td>1,657,962</td>
<td>2,329,469</td>
<td>3,364,840</td>
<td>3,912,163</td>
</tr>
</tbody>
</table>

Source: HK Census and Statistics Department
Hong Kong’s (China) Imports and Re-exports of Intermediate Goods, by Origin and Destination (Percentage)

WTO (2011): Trade Patterns and Global Value Chains in East Asia
Hong Kong’s (China) Imports and Re-exports of Intermediate Goods, by Origin and Destination (Percentage)

WTO (2011): Trade Patterns and Global Value Chains in East Asia
What is Outward Processing Arrangement?

Stage 1:
A) Raw materials / semi-manufactures are in HK
B) Import raw materials / semi-manufactures from overseas

Stage 2: Export or re-export such raw materials / semi-manufactures to Mainland

Stage 3: Re-import the processed goods into HK

Stage 4: Through a contractual arrangement, the processed goods are imported back to HK and re-exported to other places.

Remark: The directions of arrow heads represent flows of goods.
### Table 1  Estimated Value and Proportion of Outward Processing Trade

<table>
<thead>
<tr>
<th>Trade type</th>
<th>2001</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HK$ million</td>
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<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>輸往中國內地（簡稱「內地」）的整體出口貨品</td>
<td>259,553</td>
<td>277,650</td>
<td>326,147</td>
<td>386,435</td>
<td>388,482</td>
<td>409,941</td>
<td>451,533</td>
<td>470,964</td>
<td>425,243</td>
<td>519,139</td>
<td>556,100</td>
</tr>
<tr>
<td></td>
<td>(47.5%)</td>
<td>(45.3%)</td>
<td>(43.9%)</td>
<td>(43.5%)</td>
<td>(38.4%)</td>
<td>(35.5%)</td>
<td>(34.5%)</td>
<td>(34.4%)</td>
<td>(33.7%)</td>
<td>(32.5%)</td>
<td>(31.8%)</td>
</tr>
<tr>
<td>輸往內地的港產出口貨品</td>
<td>35,172</td>
<td>28,848</td>
<td>24,924</td>
<td>24,825</td>
<td>25,080</td>
<td>20,717</td>
<td>19,162</td>
<td>13,232</td>
<td>7,333</td>
<td>5,789</td>
<td>4,764</td>
</tr>
<tr>
<td></td>
<td>(71.0%)</td>
<td>(69.8%)</td>
<td>(68.0%)</td>
<td>(65.7%)</td>
<td>(56.3%)</td>
<td>(51.6%)</td>
<td>(47.3%)</td>
<td>(38.1%)</td>
<td>(27.3%)</td>
<td>(18.6%)</td>
<td>(15.5%)</td>
</tr>
<tr>
<td>輸往內地的轉口貨品</td>
<td>224,381</td>
<td>248,801</td>
<td>301,223</td>
<td>361,610</td>
<td>363,402</td>
<td>389,224</td>
<td>432,371</td>
<td>457,732</td>
<td>417,910</td>
<td>513,350</td>
<td>551,335</td>
</tr>
<tr>
<td></td>
<td>(45.2%)</td>
<td>(43.5%)</td>
<td>(42.7%)</td>
<td>(42.5%)</td>
<td>(37.6%)</td>
<td>(34.9%)</td>
<td>(34.1%)</td>
<td>(34.3%)</td>
<td>(33.8%)</td>
<td>(32.8%)</td>
<td>(32.1%)</td>
</tr>
<tr>
<td>從內地進口的貨品</td>
<td>531,960</td>
<td>531,034</td>
<td>564,933</td>
<td>661,543</td>
<td>691,979</td>
<td>769,317</td>
<td>779,994</td>
<td>789,039</td>
<td>623,155</td>
<td>762,410</td>
<td>803,975</td>
</tr>
<tr>
<td></td>
<td>(78.0%)</td>
<td>(74.0%)</td>
<td>(71.7%)</td>
<td>(72.0%)</td>
<td>(65.9%)</td>
<td>(64.5%)</td>
<td>(58.6%)</td>
<td>(55.9%)</td>
<td>(49.9%)</td>
<td>(49.8%)</td>
<td>(47.4%)</td>
</tr>
</tbody>
</table>

Remark: Figures in bold type refer to the estimated values of outward processing trade and figures in brackets are the corresponding estimated proportions of outward processing trade.

Source: HK Census and Statistics Department 2012, Hong Kong’s Trade Involving Outward Processing in the Mainland of China, 2001 to 2011
What is Offshore Trade?

• The goods involved in offshore trade activities are shipped directly from a party outside Hong Kong to another party outside Hong Kong without the goods passing through Hong Kong.

Source: HK Census and Statistics Department
What is Offshore Trade?

• Merchanting – Hong Kong traders buy goods outside Hong Kong for export elsewhere, and such goods do not go through Hong Kong customs.

• Merchandising – Hong Kong traders arrange on behalf of buyers/sellers outside Hong Kong the purchases/sales of goods without taking ownership of the goods involved, and such goods do not go through Hong Kong customs.

Source: Y.W. Sung, 2005, The Evolving Role of Hong Kong as China’s Middleman
Value of Goods in Merchanting and Merchandising for Offshore Transactions in HK from 2002 to 2011

Source: HK Census and Statistics Department
Proportion of Offshore and Non-offshore Transactions in Merchanting and Merchandising of HK (Value of Exports) from 1995 to 2010

% of Exports of merchanting and merchandising

Source: HK Census and Statistics Department, Hong Kong Trade in Services Statistics in varied years, Hong Kong Annual Digest of Statistics in varied years
Percentage of Merchanting and Other Trade-related Services as Total Exports of All Services from 1995 to 2010

% of Total exports of all services

Source: HK Census and Statistics Department, Hong Kong Trade in Services Statistics in varied years, Hong Kong Annual Digest of Statistics in varied years
Percentage of Offshore Merchanting and Trade-related Services as Total Exports of All Services from 1995 to 2010

% of Total exports of all services

Source: HK Census and Statistics Department, Hong Kong Trade in Services Statistics in varied years, Hong Kong Annual Digest of Statistics in varied years
Percentage of Transportation and Merchanting and Other Trade-related Services, Financial and Insurance Services as Total Exports of Services for HK from 2000 to 2010

Source: HK Census and Statistics Department, Hong Kong Trade in Services Statistics in varied years, Hong Kong Annual Digest of Statistics in varied years
Globalization and International Trade

- Trade Patterns in the Process of Globalization
- Economics of Global Supply Chain Management (GSCM)
- Hong Kong: From Entrepôt Trade to GSCM
- Company Case: Li & Fung
Dr. Victor Fung

Global Supply Chains – Past Developments, Emerging Trends

24 November 2011
百年利豐
A HUNDRED YEARS OF LI & FUNG

冯邦彦

跨國集團亞洲再出發

增訂版
Li & Fung

- Li & Fung was founded in southern China in 1906 and moved to HK after the Second World War.
- It was the first Chinese trading company: Chinese porcelain, silk, rattan wear and bamboo.
Li & Fung

• 1949: 2 million refugees and entrepreneurs from Shanghai, with money, technology and know-how.

• HK became a manufacturing base: low-end consumer products, like flip-flops, plastic flowers and transistor radios.

• Li & Fung was an exporter of these Hong Kong-manufactured products to the Western world.
The next big stage in the development of Li & Fung began in 1979 - the year when China started its economic opening. Shenzhen became one of the four economic zones.
Li & Fung

• Hong Kong’s production base had become increasingly uncompetitive.

• What HK manufacturers did was retain the high value-added front end (product design, engineering and marketing) and back end (logistics, quality control and distribution) in Hong Kong, and then move the labour-intensive middle portion across the border into southern China.
Li & Fung

• Why not go to the northern China or Southeast Asia? Why not break the supply chain into bigger pieces?
Li & Fung

- 100,000 shirts
- Old day approach: “Which is the best factory?”
Li & Fung

- 100,000 shirts
- SCM approach: First question - “Where do we outsource the yarn from?” Korea
Li & Fung

• 100,000 shirts
• SCM approach: Second question – “Where do we outsource weaving and dyeing to produce the fabric?” Two factories in Taiwan
Li & Fung

- 100,000 shirts
- SCM approach: Third question – “Where do we want to finish the garment?” Three factories in Thailand.
Li & Fung

Korea

Taiwan

Thailand
Li & Fung

• It takes a great deal of coordination to make a product in six factories in three different economies, instead of in just one factory in one country.

• Why do go through this whole complicated process? It boils down to two reasons. One is cost, and the other very importantly is turnaround time.
Hummels amd Schaur (2013)

- Time sensitivity: inventory holding costs, perishability, rapid technological obsolescence, and uncertain demand
- Each day in transit is worth 0.6 to 2 percent of the value of the good

Li & Fung

• Now, when your company wants to compete, you are actually one team doing a given part of the supply chain against another team. These companies form what we at Li & Fung call a “network”.

• Li & Fung’s network: 15,000 suppliers globally, in over 40 economies.
## Automation

### Bring on the personal trainers

<table>
<thead>
<tr>
<th>Job</th>
<th>Probability</th>
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<tbody>
<tr>
<td>Recreational therapists</td>
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<tr>
<td>Dentists</td>
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<td>Athletic trainers</td>
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<td>Clergy</td>
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<td>Chemical engineers</td>
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<td>Telemarketers</td>
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