

Today's Menu

- I. What is supporting industries?
- II. Why is the development of supporting industries necessary for FDI-driven economic growth?
- III. What impede the development of supporting industries in Vietnam?
- IV. How can Vietnam overcome those obstacles?

I. What is Supporting Industry?

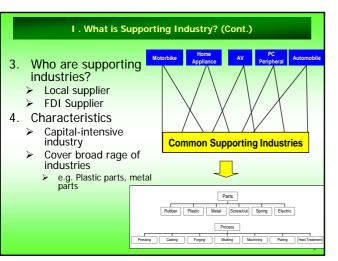
1. In economic theory, supporting industries are defined as a group of industries to supply "manufactured" inputs, which are mostly intermediate goods.

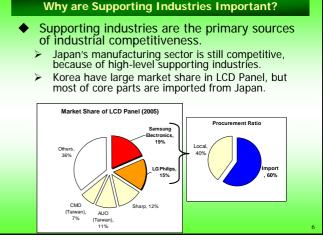
2. In framework of business, supporting industries manufacture production parts as well as tooling to produce those production parts.

| Final Assembly | Supporting Industries | Supporting Industries

Material & Raw Material

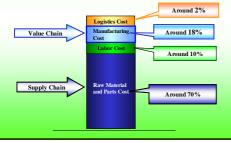
"Supporting industries produce something which looks easy, but needs high-quality engineering skills."





Supporting Industries Enhance Cost Competitiveness

- Growth of supporting industries will allow assemblers to reduce production costs.
 - > Parts costs account for 70% of product cost, while labor costs account for only 10%.

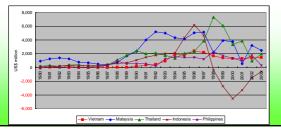


TOYOTA's Value Innovation (VI) Project

- Targeting 15% cost reduction of parts and material
 - material
 Parts costs account for 60% of the whole product cost. So, this project aim to reduce 9% of the product cost.
 - It is almost impossible to achieve 9% cost reduction through cutting labor cost.
- 2. The CCC21 project as "modular" cost reduction
 - > It reduced 30% of parts costs in one car.
 - > However, "by-parts" cost reduction reached the limit.
- 3. VI project as "integral" cost reduction
 - Move the revaluation of product cost from designing stage to planning stage.
 - System-by-system" cost reduction
 - Cost reduction is examined in a group of engine parts.
 - Find optimal combination of parts, cutting unnecessary parts.

II. What is the Role of Supporting Industries in FDI-Driven Economic Growth? 1. Many developing countries have tried to attract.

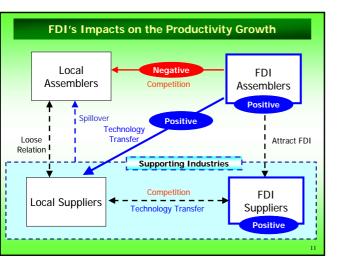
- 1. Many developing countries have tried to attract FDI, for the economic growth.
 - 103 countries offered tax concessions to foreign companies that set up production or administrative facilities.
 - In particular, ASEAN countries succeeded to attract massive volume of FDI since the middle of 1980s.



II. What is the Role of Supporting Industries in FDI-Driven Economic Growth? (Cont.)

- 2. Source of productivity growth by FDI
 - Productivity growth within FDI firms
 - MNCs tend to have higher productivity than local firms.
 - Externalities (or Spillover effects) on local firms
 - Assemblers and suppliers

What is the net effect on the productivity growth?



II. What is the Role of Supporting Industries in FDI-Driven Economic Growth? (Cont.)

- 3. Net externality effects of FDI are ambiguous!
 - a. FDI's positive vertical externalities
 - Domestic supporting industries would increase output and productivity through the business with MNC assemblers (backward linkage).

Refer to an empirical study by Alfaro and

- Rodriquez-Clare (2003) on firms in Latin America. b. FDI's negative horizontal externalities
 - Domestic assemblers may decrease output and productivity, after MNC assemblers enter the market (in short-run).
- c. Net externality effects of FDI are ambiguous
 - Depend on the size of the above two externalities.

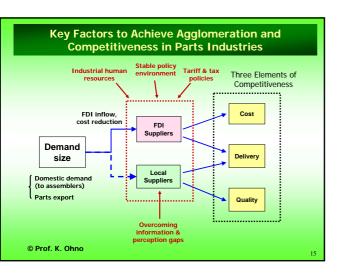
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II. What is the Role of Supporting Industries in FDI-Driven **Economic Growth? (Cont.)**

- 4. Development of supporting industries will make the net effects positive.
 - Positive externalities consists of productivity growth in domestic supporting industries.
 - If domestic supporting industries are sufficiently competitive to expand business with MNCs and absorb their technology, the net impact of FDI will become positive.
 - On the other hand, if MNC assemblers import 100% of production parts, the vertical externalities may be zero or negative.

(Note: However, it should be also ineffective to force MNC to source 100% of parts locally.)



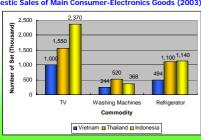


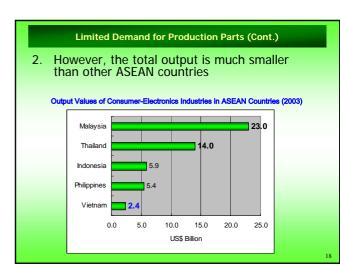


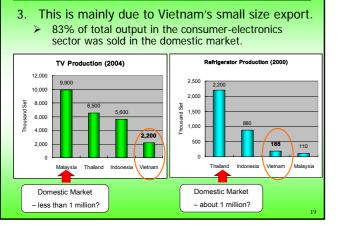
Limited Demand for Production Parts

- The domestic market for consumer electronics goods is growing in Vietnam
 - The output value grew at the rate of 18% from 2002 to 2003.
 - Vietnam has the third largest domestic market of home appliance products, next to Indonesia and Thailand.

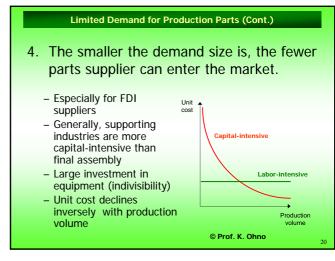
Domestic Sales of Main Consumer-Electronics Goods (2003)

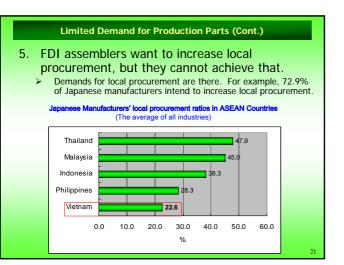




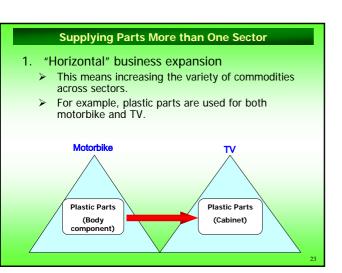


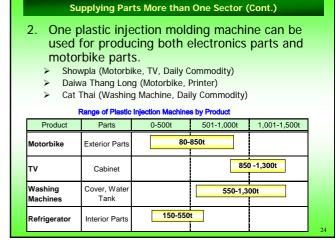
Limited Demand for Production Parts (Cont.)

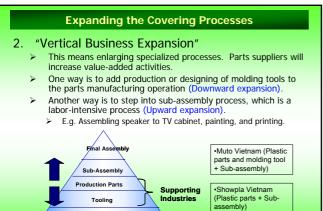










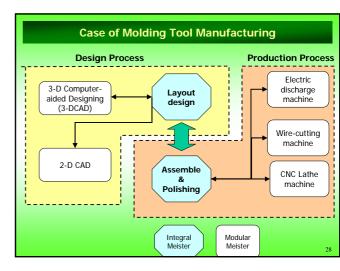


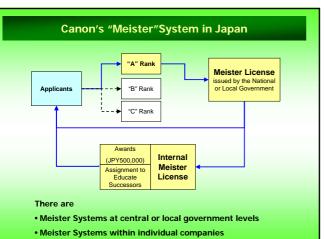
Machinery

Material & Raw Material

High-quality Industrial Human Resources are Needed!! Technology should be upgraded Electronics parts require better appearance and higher accuracy than motorbike parts. Hi-Fi Printer Volume Home Appliance TV Business Mechanical Parts Motorbike (gear, etc.) Simple Life Mechanical Products Rody parts Parts Fork plate cup Function, Endurance for Friction "Meisters", high-level engineers, are needed "Highly-skilled workers are required, rather than new machines. If we have high quality engineers, even second-hand machines are acceptable a local plastic parts supplier







Promote Collaborative Training Program

- 1. Both MNCs and domestic firms participate
 - In contrast, conventional vocational training programs in developing countries tend to focus on educating domestic firms only.
- Promote technology transfer
 - MNCs' employees are participants or instructors.
 - Provide opportunities to access various resources for domestic firms, which are not capable of obtaining business contracts with MNCs.
- 3. Reduce information and perception gaps
 - MNC assemblers and domestic suppliers will meet each other.
 - Domestic assemblers will have chance to understand MNCs' cost, quality and delivery requirement in classes or through information exchange.
- 4. Concerns
 - MNCs' employees will also benefits from the training.
 - > It may be difficult to use ODA for this kind of project.

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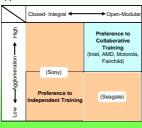
Case of Collaborative Training Program

Penang Skill Development Center (PSDC) in Malaysia

- PSDC was established and managed under MNCs' active leadership as a vocational training program.
- The Global Suppliers Program promotes information exchange between MNCs and domestic suppliers.

Conditions of PSDC's success

- Great agglomeration of semiconductor industry, which raised the demand for skilled labor.
- Semiconductor is an openmodular type product
 - which means that the interfaces of production processes are standardized.



Thanks for listening

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Positive Signs for Collaborative Training in Vietnam

1. Rising demand for labor

- Many MNCs are expanding the investment in Vietnam.
- Job hopping is becoming a serious problem in some places.
- Middle-class managers or engineers tend to be "pinched off."
- Some MNCs expressed their interest in cooperating with vocational training schools.

2. Increasing demand for local procurement

- MNCs hope to increase the business with domestic supplier for further cost reduction.
- One motorbike assembler said, "if the government can provide the basic training such as 5S, we can support them to be our parts suppliers."

3. Potential demand for subcontracting

- Some foreign molding tool manufacturers want their factories in Vietnam to be a manufacturing base as well as design center.
- Some of them are also interested in increasing sub-contracting a part of process, in order to reduce their fixed costs.

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