

Introduction to Management of Technology

Management of Technology



- 166125-01
- Management of Technology
- Spring 2014
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00. Contents

- 01. Engineering
- 02. Management and Engineering

02. Management and Engineering

- Management
 - = Ethical activities to attain the goal of an organization



<http://www.dreamstime.com>

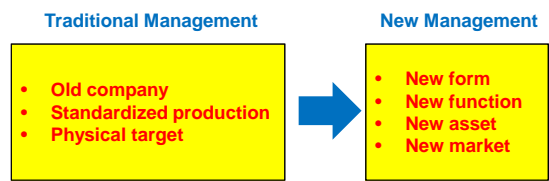
02. Management and Engineering

- Development of Management



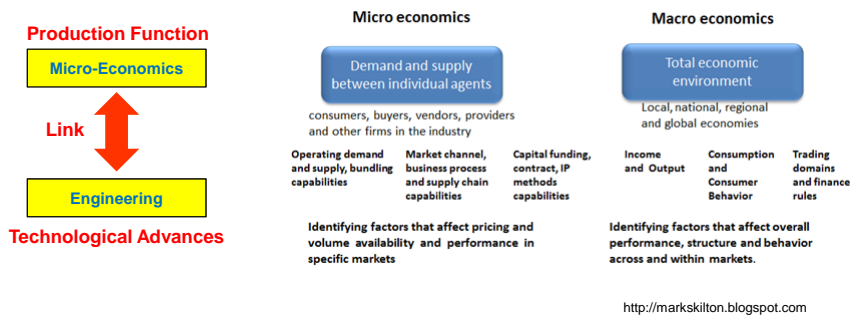
02. Management and Engineering

- Crisis of Traditional Management
 - Identity Crisis
 - Thematic Crisis
- Introduction of New Management
 - Management + Technology
 - Management + Engineering



02. Management and Engineering

- Economics
 - Macro-economics (from the viewpoint of total nation)
 - Micro-economics (from the viewpoint of consumer and producer)



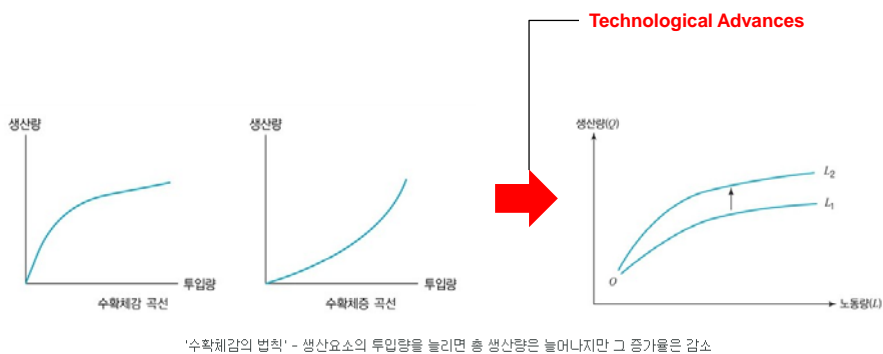
02. Management and Engineering

- Production Function
 - The output of a company has relevance to the combination of labor and capital.
 - $Q = f(K, L)$, (Q: output, K: labor, L: capital)

$$Q = f(K, L)$$

02. Management and Engineering

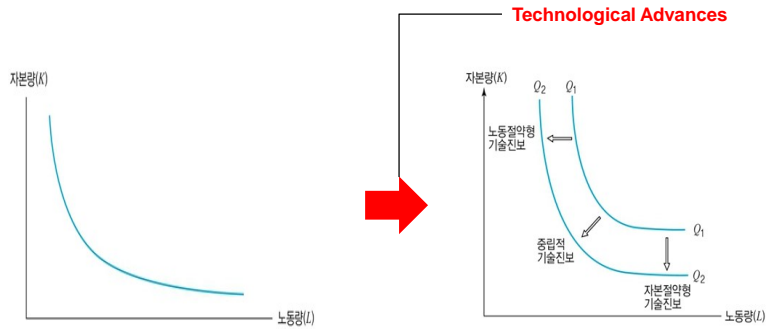
- Production Function
 - Short-term Production Function



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02. Management and Engineering

- Production Function
 - Long-term Production Function

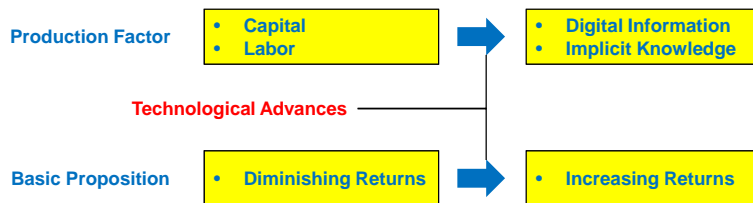


동량선 : 동일한 양을 생산하는데 필요한 자본과 노동의 결합을 연결한 곡선
 한계기술대체를 제값의 법칙 : 한 생산요소의 투입량이 늘수록 대체에 필요한 다른 생산요소의 투입량이 감소함

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02. Management and Engineering

- Paradigm Shift of Economics by
 - Production Factor
 - Capital + Labor → Digital Information and Implicit Knowledge
 - Basic Proposition
 - Diminishing Returns → Increasing Returns



02. Management and Engineering

- Technological Management Strategy
 - → Engineering Technology + Management

