

Strategy and Management of Technology

Management of Technology



- 166125-01
- Management of Technology
- Spring 2014
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- 01. Environment of Management
- 02. Development of Technology
- 03. Necessity of Strategy
- 04. Importance of Technology Strategy
- 05. Strategic Necessity of Management of Technology

01. Environment of Management

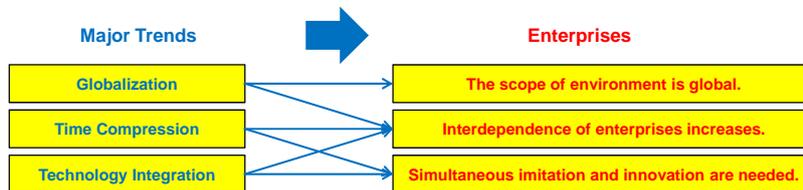
- Changeable Management Environment
 - → Strategic Information is very important!



<http://www.digiteki.com>

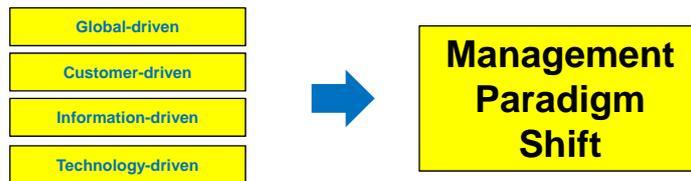
01. Environment of Management

- Changeable Management Environment
 - Major trends impact on all enterprises!



01. Environment of Management

- Changeable Management Environment
 - Management Paradigm Shift!



01. Environment of Management

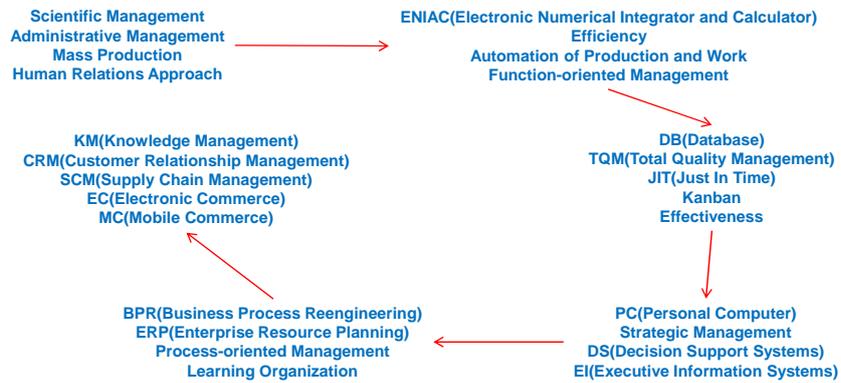
- Management Paradigm Shift

Old Paradigm	New Paradigm
Product-driven	Customer-driven
Function-driven	Process-driven
Regionalization or Localization	Globalization or Glocalization
Efficiency	Effectiveness
Product Quality	Conformance Quality
Sequential Engineering	Concurrent Engineering
Reactive	Proactive
Quality-based Competition	Time-based Competition
Internal Benchmarking	Functional Benchmarking
Automation	Reengineering
Economies of Scale	Hi-Tech
Mass Production	Mass Customization

A large blue arrow points from the 'Old Paradigm' column to the 'New Paradigm' column, indicating the direction of the shift.

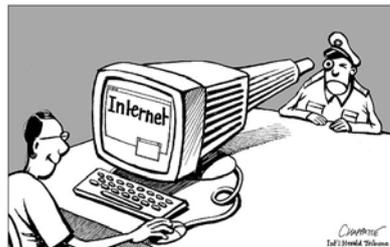
01. Environment of Management

- Development of Management Technology



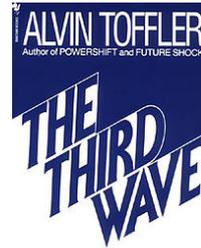
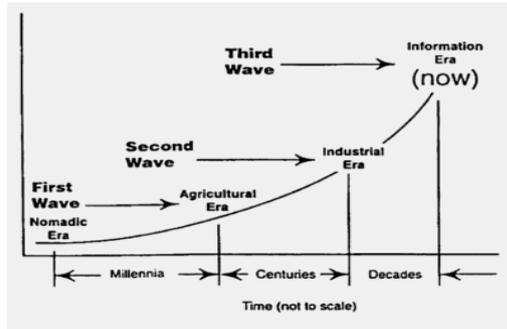
02. Development of Technology

- Necessity of Technology Strategy
 - Changeable Management Environment
 - Continuous Technology Development



02. Development of Technology

- Technology Development and Management Environment
 - Information Revolution (A. Toeffler)

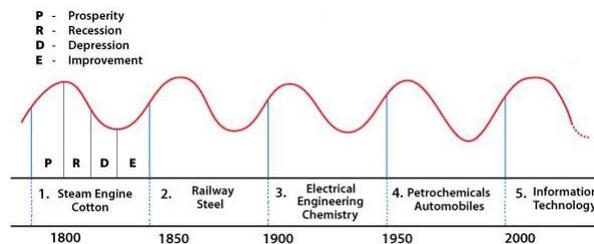


THE CLASSIC STUDY OF TOMORROW

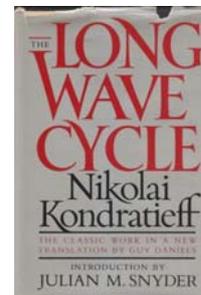
<http://www.theharbinger.org>

02. Development of Technology

- Technology Development and Management Environment
 - Long Wave Theory (N. Kondratieff)



<http://www.nicksamuel.com>



02. Development of Technology

- Technology Development and Management Environment
 - Third Technology Revolution (D. Bell)

1st Industrial Revolution

Steam Engine
Productivity

2nd Industrial Revolution

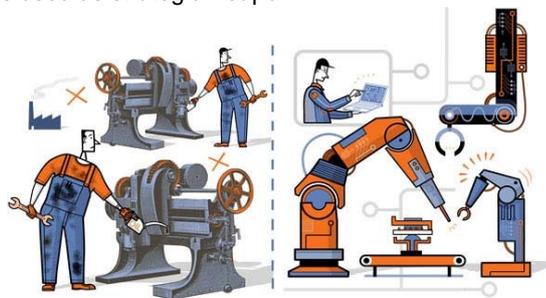
Electricity and Chemistry
Power and Artificial Compound

3rd Industrial Revolution

Electronics and Communications
Smaller Digitalization and Software

02. Development of Technology

- Importance of Technology Administration
 - Technology paradigm changes fast.
 - Recognition of technology–economy relation changes fast.
 - Social demand for technology changes.
 - Means and space to attain technology change.
 - Technology is used as strategic weapon.



<http://www.economist.com>