Enhancing the Competitive Edge of 'Monozukuri' Industries and User Confidence Worldwide (Outline) May 2008

Introduction

- Topic under review: 'Monozukuri' that centers on manufacturing industries
- Objectives: To propose that corporate managers must take a stance to involve themselves directly in enhancing the base for 'monozukuri'

Factors for the strengths of Japanese 'monozukuri'

- •Organizational culture of making ourselves match the other
- Management with long-term vision
- •World number one in frontline and teamwork •Cooperation between companies and
- existence of strong small-mid sized firms
- Highly intensive technology development capacity
- World number one in quality
- The most competitive market in the world (Japan)
- Abundance of 'monozukuri' human resources
- In-company human resources nurturing

systems

Issues for a new age

- (A) Technological Innovation
- Intellectual assets are not being used effectively
- Enhancement of fusions of technology incorporating
- advanced technologies
- (B) Diverse customer needs
- From product value per se to diverse product value • Insufficient collaboration with diverse suppliers and other industries

(C) Increased globalization

•Nurturing different types of human resources and creating teamwork

Recognizing the

trend of a new era

Importance of intellectual assets as key

Changes in competitiveness caused by

• Deepening IT / network revolution

(B) Diversification of customer needs

public safety and security

new technology (nano- and bio-technology)

• Japanese corporations advancing overseas

• The remarkable rise of developing countries

(E) Concern for decreasing 'monozukuri' human

(D) Rising concern for the environment and

(A) Technological innovation

business resources

(C) Increased globalization

(BRICS, etc.)

resources

- •Forming a global division of labor and cooperation systems
- (D) Rising concern for the environment and public safety and security
- •Secure and improve quality, innovation in business systems
- (E) Concern for decreasing 'monozukuri' human resources
- Utilize diverse 'monozukuri' human resources

Lastly

Corporate managers themselves must use the examples of the six courses of action, arranging them to the situation of each corporation, creating strategies and taking action to enhance the competitive edge of 'monozukuri' industries and user confidence worldwide.

The Foundations of Enhancing the Competitive Edge of Japanese 'Monozukuri' Industries and User Confidence Worldwide: Three Recommendations and Six courses of Action

The basis of 'monozukuri' industries with user confidence worldwide (1) The ongoing supply of outstanding quality, cost performance, safe and environmentally friendly products (2) Promote collaboration with different fields and industries and within one's own industry, and pursue global collaboration as part of the process of (1) (3) Continue to nurture 'monozukuri' human resources to ensure the success of (1) and (2) above. **Recommendation 1)** Achieve Open Collaboration Achieve outward-looking open collaboration with different industries and existing well-formed teamwork. Open collaboration is to maintained in every stage, from R&D to manufact Types of Open Collaboration Open collaboration with different fields and industries E.g.) Bringing leading business areas to establish new businesses, join advanced technologies Open collaboration within the industry E.g.) Standardization of intellectual property rights, joint research them Global open collaboration E.g.) Collaboration with non-Japanese human resources, world-wide co Courses of Action for Open Collaboration 1. Active mobilization and use of intellectual assets Mobilize intellectual assets to create new businesses among different in assets to encourage standardization within different fields and industries 2. Promotion of industry-government-academia joint research in th Develop open industry-government-academia research schemes at the 3. Expansion of Supply Chain and Value Chain based on 'Products Expand systems and services business operations based upon experin supply chains and in supplying new value-added products or reducing tra 4. Formation of Systems for Establishing Japanese-style 'Monozuk centered around 'monozukuri' in Japan to multilateral hub and s style 'monozukuri' worldwide) Act on human resources development bases to expand Japan-style ma develop innovations in production systems through international exchan Recommendation 2) Secure outstanding Quality and Strive for further In 'Japan Brand') Exercise the top management level for quality management From focusing on usability of functionality and performance to focusing o sensibilities towards the global environment and so on. Develop outstanding quality and functionality and performance 5. Work to secure outstanding quality and strive for further innovatio Promote inter-industry collaboration and industry-academia collaboratio order to develop products with new levels of quality (products with outst and human values)

Recommendation 3) Secure, Nurture, and Utilize Diverse 'Monozukuri' I

Nurture and utilize diverse human resources regardless of gender, age o Nurture overseas human resources being able to cope with Japanese-sty interchange

Spread information through promoting collaboration between people from human resources overseas

. Work to Secure, Nurture, and Utilize Diverse 'Monozukuri' Human I

- Corporate human resources development systems suited to each indiv
- Active industrial support for science-based education
- Provide appropriate incentives to the employees of 'monozukuri' indus

organizations in addition to improving
cturing, sales, and after-sales services.
nt industrial-academic research and fusion o
nes, collaboration with diverse suppliers
ooperation and division of labor
ndustries and make active use of these s.
ne 'research community' e research and development stage. e'
mentation with new forms of collaboration in ading costs
kuri' Overseas (from a hub and spoke poke bases centered around Japanese-
anufacturing internationally, and work to nge and division of labor.
nnovation (Enhancing the value of the
on human values such as society and
on on with different fields and industries in tanding quality / products focused on social
Human Resources
yle 'monozukuri' and encourage cultural
n different cultures by sending Japanese
<u>Resources</u> vidual
stries