Chapter 3: Changes in Economic Activities toward "Society 5.0"

Rapid progress has been made in the Fourth Industrial Revolution, though the diffusion delays in some points.

1. Progress of new technologies



Sources: OECD, "OECD Science, Technology and Industry Scoreboard 2017"; Cabinet Office, "Survey on companies' attitude about work style, education and training".

2. Utilization of online shopping and electronic payments



3-2. Progress of Innovation and Japan's Competitiveness

Japan has fundamental skills for innovation, but less adaptive to using them effectively.

1. Fundamental skills and capabilities for innovation



Sources: OECD, "OECD Science, Technology and Industry Scoreboard 2017"; GE, "2016 GE Global Innovation Barometer".

Note: "Incremental innovation" represents innovation improving existing products and solutions, while "breakthrough innovation" represents innovation launching products that are completely new and have the ability to disrupt their market.

2. Adaptive attitudes toward innovation



Sources: Japan Electronics and Information Technology Industries Association; OECD, "OECD Science, Technology and Industry Scoreboard 2015"; Global Entrepreneurship Monitor etc.

3-3. Progress of Innovation and Labor Share & Productivity

Innovation tends to lower labor share. Raising productivity by human resource development is a key.





Sources: OECD.stat; Ministry of Economy, Trade and Industry, "Basic Survey of Japanese Business Structure and Activities" (firm-level panel data). Note: Labor share in (1) is calculated as compensation of employees divided by national income (at factor cost); labor share in (2) is calculated as labor cost divided by value added.

2. Progress of innovation and productivity growth



Sources: Cabinet Office, "Survey on companies' attitude about work style, education and training", "Survey on companies' attitude toward use of new technologies and human capital to improve productivity"; Ministry of Economy, Trade and Industry, "Basic Survey of Japanese Business Structure and Activities" (firm -level panel data).