

# Session 3

## Countries' Visions and Practices: Adaptation

—Management tools for Adaptation—

**Dr. Tomoji KAWAI**

Executive Director

Technology Strategy Center (TSC)

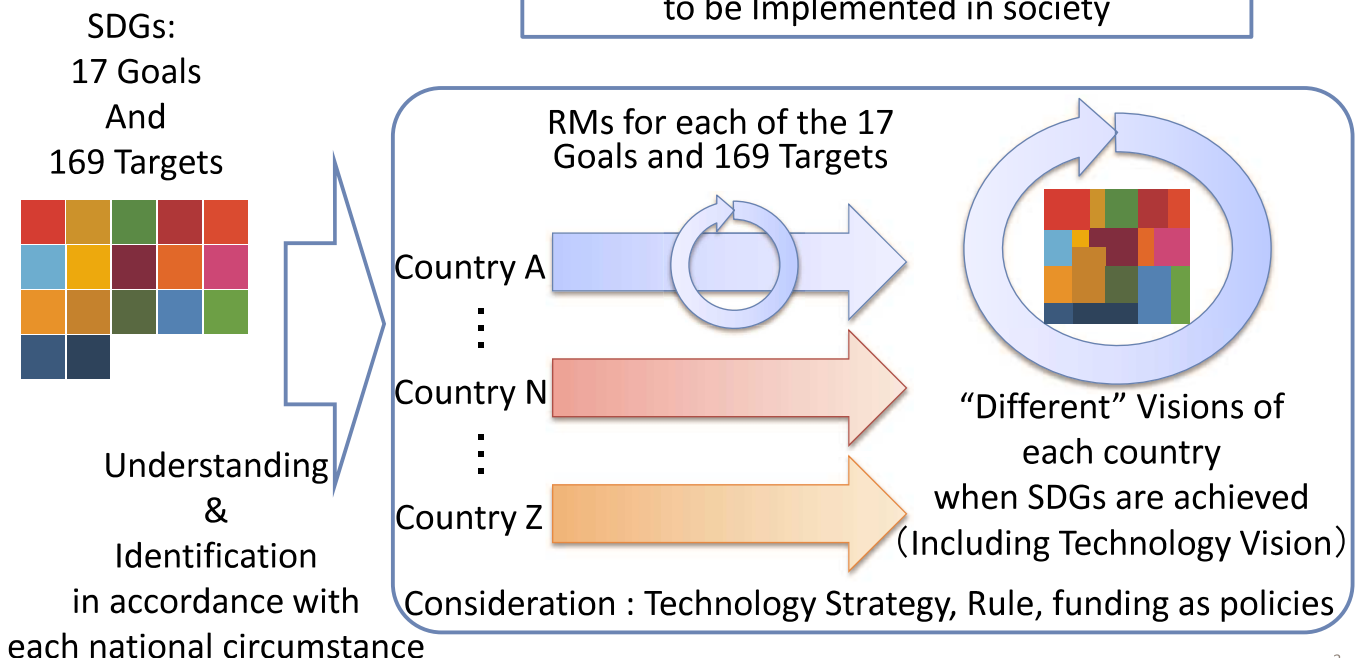
New Energy and Industrial Technology Development Organization (NEDO)

**Important: each country designs Visions and STI RMs for SDGs**

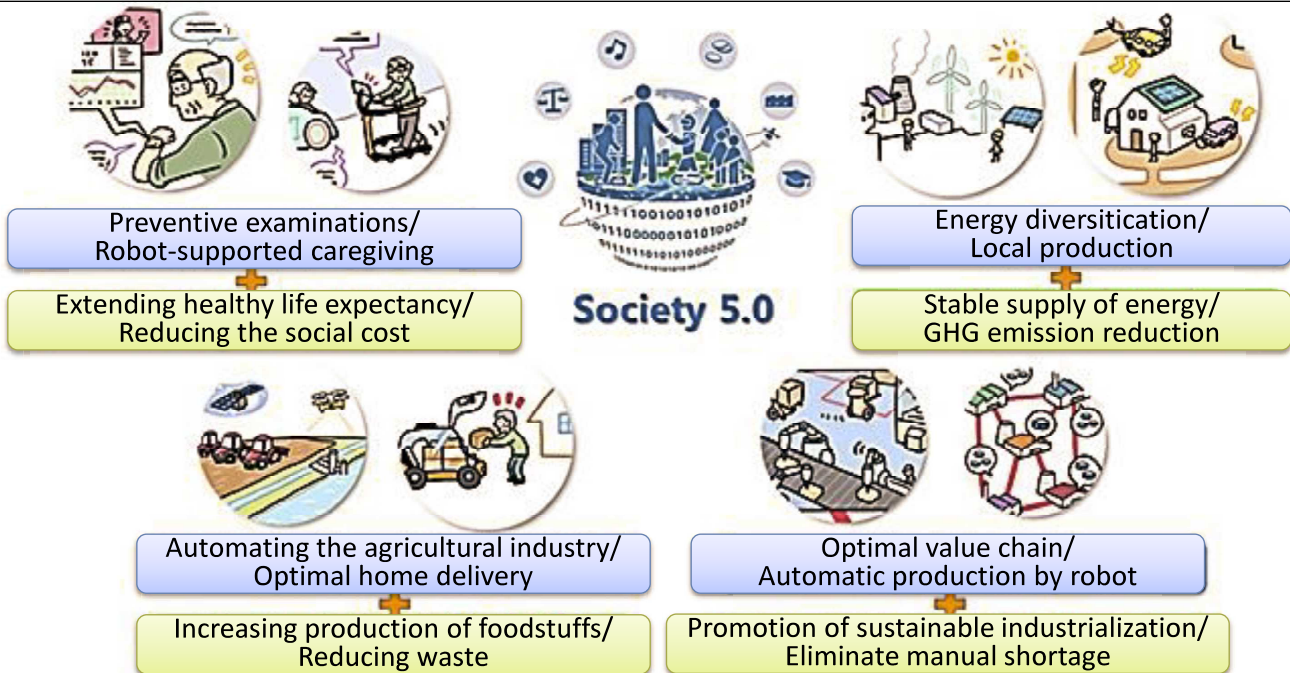
Technology Strategy Center

Tools for Managing  
“social impact and consequences of the rapid technological change”

Mechanism of Management the technologies  
to be Implemented in society



- Stakeholders from industry, academia, and government “co-design”
- Achieve Society 5.0 while incorporating technologies in industries and social activities. (technologies: IoT, robotics, AI, and big data)



Source: Cabinet Office, Government of Japan ([http://www8.cao.go.jp/cstp/english/society5\\_0/index.html](http://www8.cao.go.jp/cstp/english/society5_0/index.html)) <sup>3</sup>

## How technology affects jobs: Asian case

■ New technologies drive higher productivity, the foundation for better-paid jobs and economic growth. While new technologies displace jobs, they also unleash countervailing forces that generate more jobs.

- Emerging technologies such as robotics, three-dimensional printing, artificial intelligence, and the internet of things will help drive future prosperity. Yet they also pose challenges for workers.
  - Over the past 25 years, the region has created 30 million jobs annually in industry and services.
- While task automation may displace some types of jobs, in other cases it restructures the job such that machines handle only the routine tasks, freeing up workers to focus on more complex tasks.
  - **Improved productivity and lower prices also often spur higher demand. Increased demand may even expand the number of jobs in factories that automate part of their production process.**

- Mutual learning of “commons” and “complement” for Visioning, RMing, or Adaptation
  - Frameworks: STI Roadmaps for SDGs (Session 1, 2, 7)
  - Knowledge and Experience for Technology Assessment
  - Interlinkages (Session 4)
  - Others

