

# Logistics in the Age of Society 5.0 —Hi-Tech-Driven Innovations and Advances in Globalization— Overview

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#### I. Introduction

- 1. Keidanren is working to bring about the creation of Society 5.0, a new society that balances economic growth with the solution of social challenges by harnessing IoT, Big Data, AI, robotics, and other innovative technologies. It has advocated "Society 5.0 for SDGs" and promoted the achievement of individual targets with cutting-edge technologies. Logistics is a good fit for many of the innovative technologies championed by the Society 5.0 vision, and one of the industries considered most likely to achieve innovations through the utilization of data. To pave the way to Society 5.0, it is essential that the logistics industry—as a valuable element of social infrastructure—be guided by a perspective geared toward the proactive adoption of cutting-edge technologies with comprehensive enhancements in supply chain efficiency and sophistication.
- 2. Logistics in Japan faces an array of pressures, from the rapid growth of e-commerce and supply chain globalization to an aging, dwindling workforce, decaying infrastructure, inadequate processing capacity, and the task of responding to global environmental problems, large-scale disasters, and other social issues. Boosting this industry's competitiveness at home and abroad will be key to assuring the sustainability of logistics networks with an eye to future Japanese economic growth and ensuring that Japanese logistics enterprises maintain their world-class performance.
- 3. Moving to leverage the latest technologies will enable the logistics industry to improve its work environment and appeal as well as develop stronger logistics networks within and outside Japan. Furthermore, leading Japanese logistics businesses can be expected to excel on the global stage.

#### II. Logistics in the Age of Society 5.0—Looking Ahead to 2030

## 1. Logistics innovations driven by BPR and cutting-edge technologies

Improved logistics visibility with RFID and other IoT technologies, total supply chain coordination and optimization through real-time information-sharing

Coordination

resources with the needs of shippers; **sharing and joint use** of pallets, containers, and reusable shipping cartons

Matching logistics business

Labor- and energy-saving logistics processes with autonomous vehicles and cargo ships, robots, etc.

Creation of new value through discovery of customers' potential needs and coordination with production and sales

Reduced environmental impact with **next-generation vehicles** (EVs, FCVs, etc.) and **LNG-fueled ships**; rapid acquisition of disaster information with **IoT**, **drones**, etc.

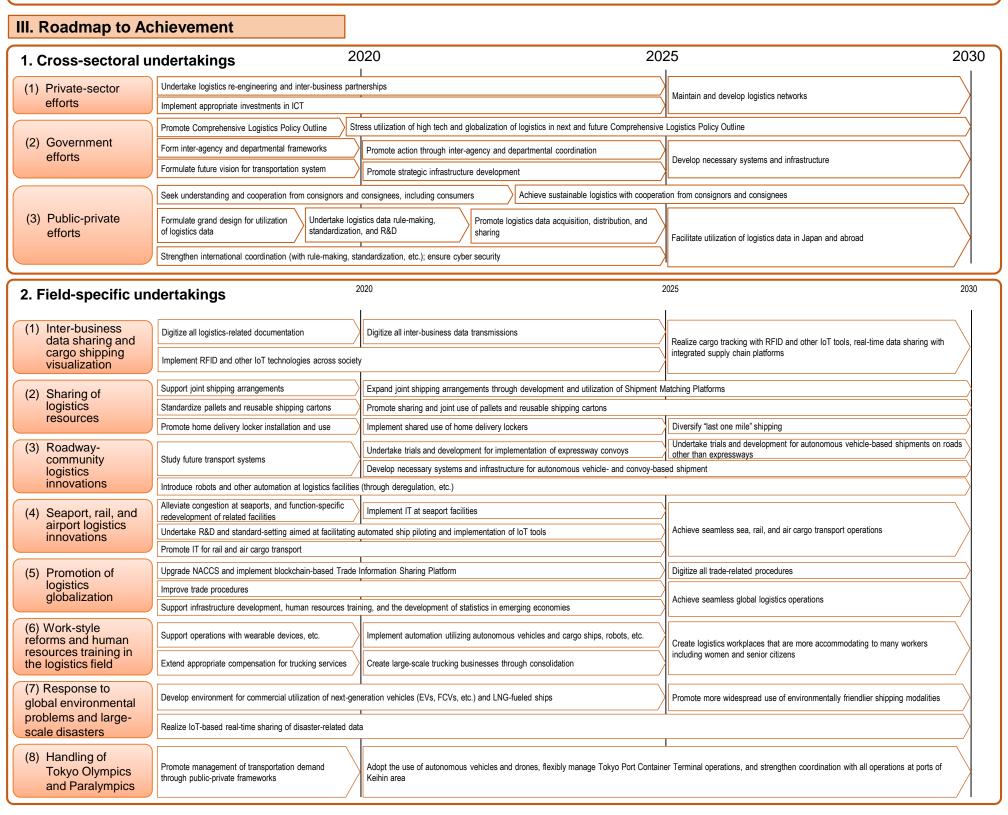
Sharing Labor saving



Social contributions

### 2. The Logistics Industry in 2030

(1) Boost to industrial appeal with improved work environments (2) Evolution into industry with large-scale equipment (3) Development of seamless, global supply chains



IV. Conclusion

The creation of Society 5.0 will boost the appeal and competitiveness of Japan's logistics industry and eventually lead to the achievement of related SDGs.