

System Education and Sustainment Approach in Japan

Seiko Shirasaka

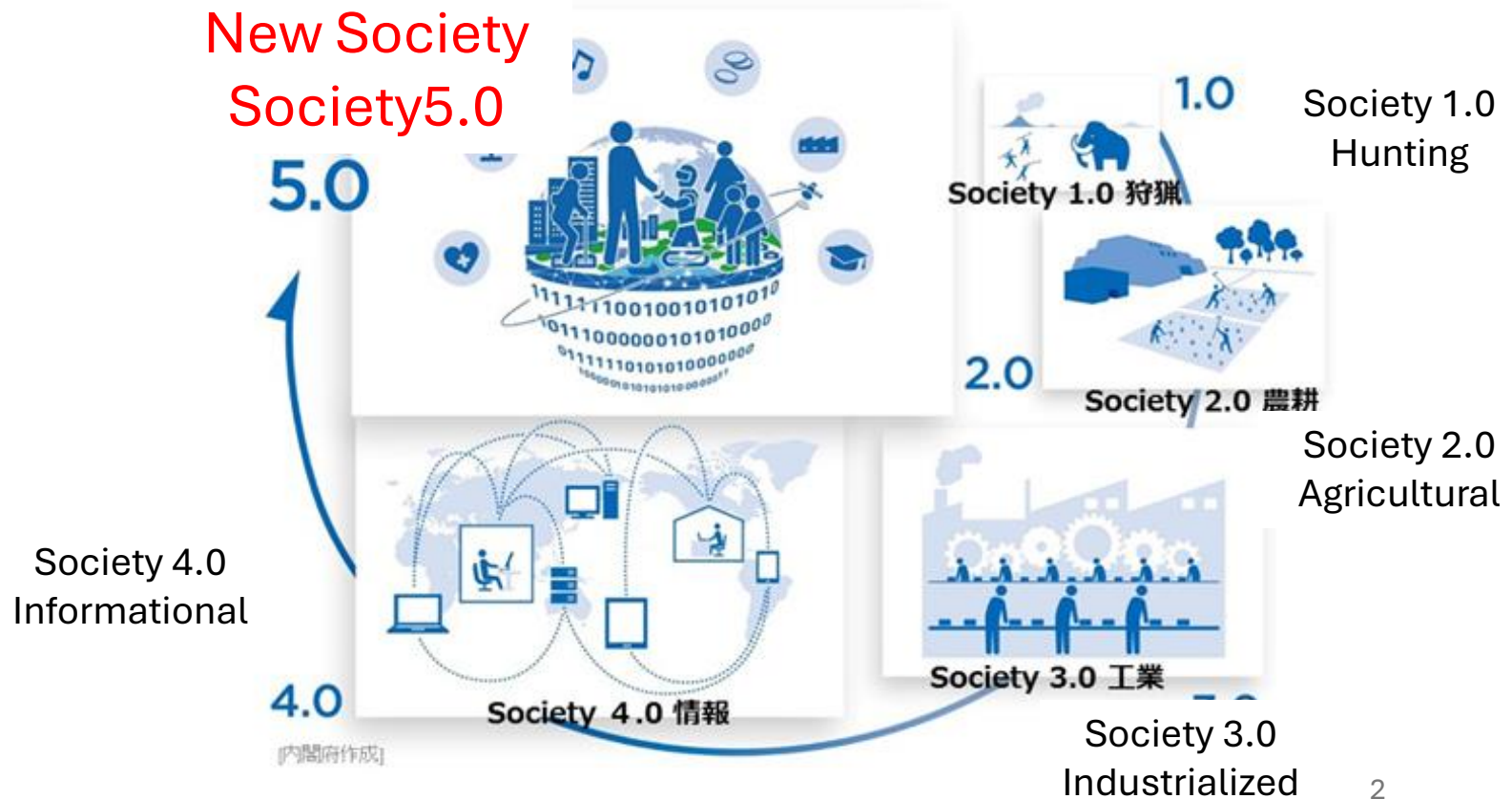
Dean/Professor

The Graduate School of System Design and Management

Keio University

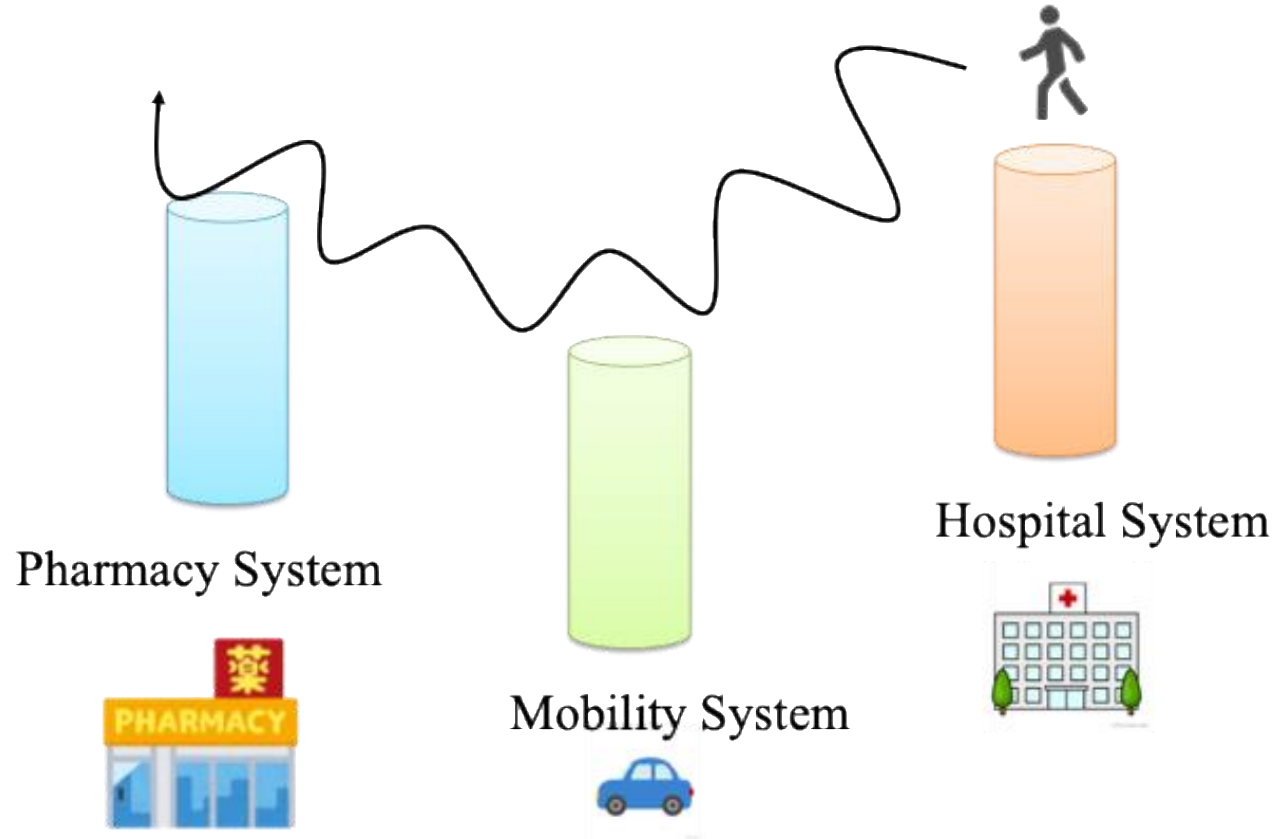
Society 5.0

“A human-centered society in which economic development and the resolution of social issues go hand in hand through a system that highly integrates cyber space (virtual space) and physical space (real space).” (The cabinet office of Japan)



Society 5.0

Society 5.0 : Human centered with combined each system

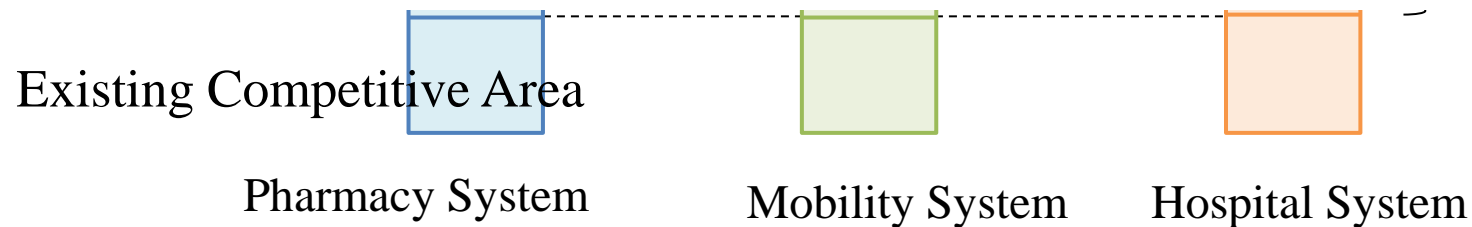


To design / implement new value for society 5.0, we have to design a system architecture including tech, business, organization and rule together.

Society 5.0

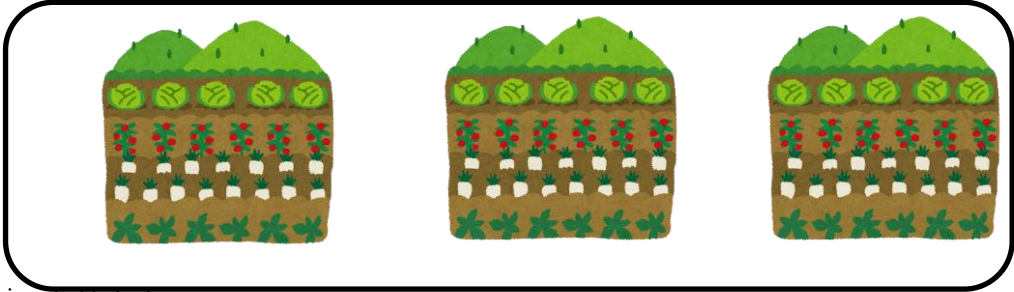
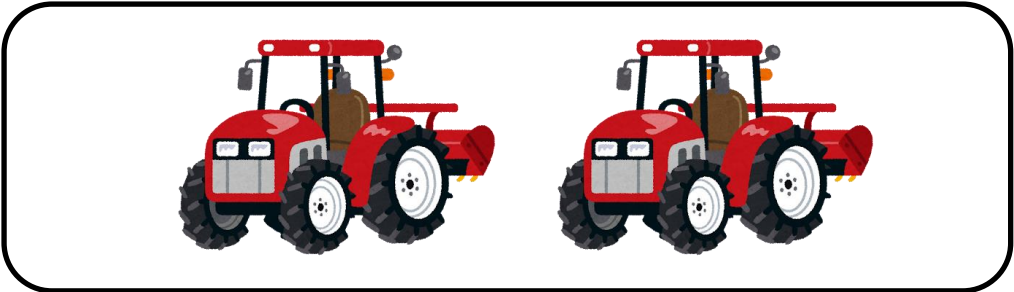
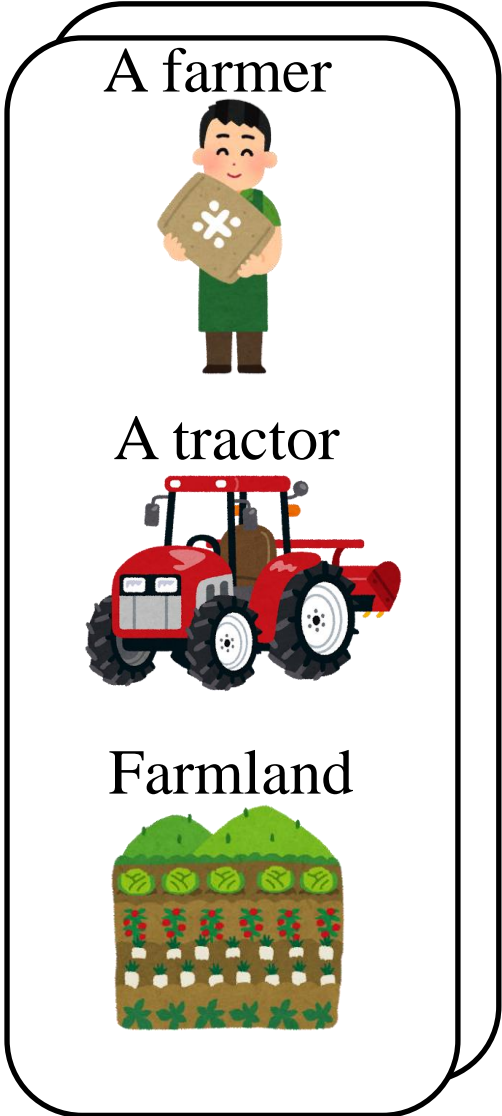
Society5.0 realizes Layered Social/Industrial Architecture.

New competitive areas are created by covering exiting competitive areas with cooperative areas for connection from above.

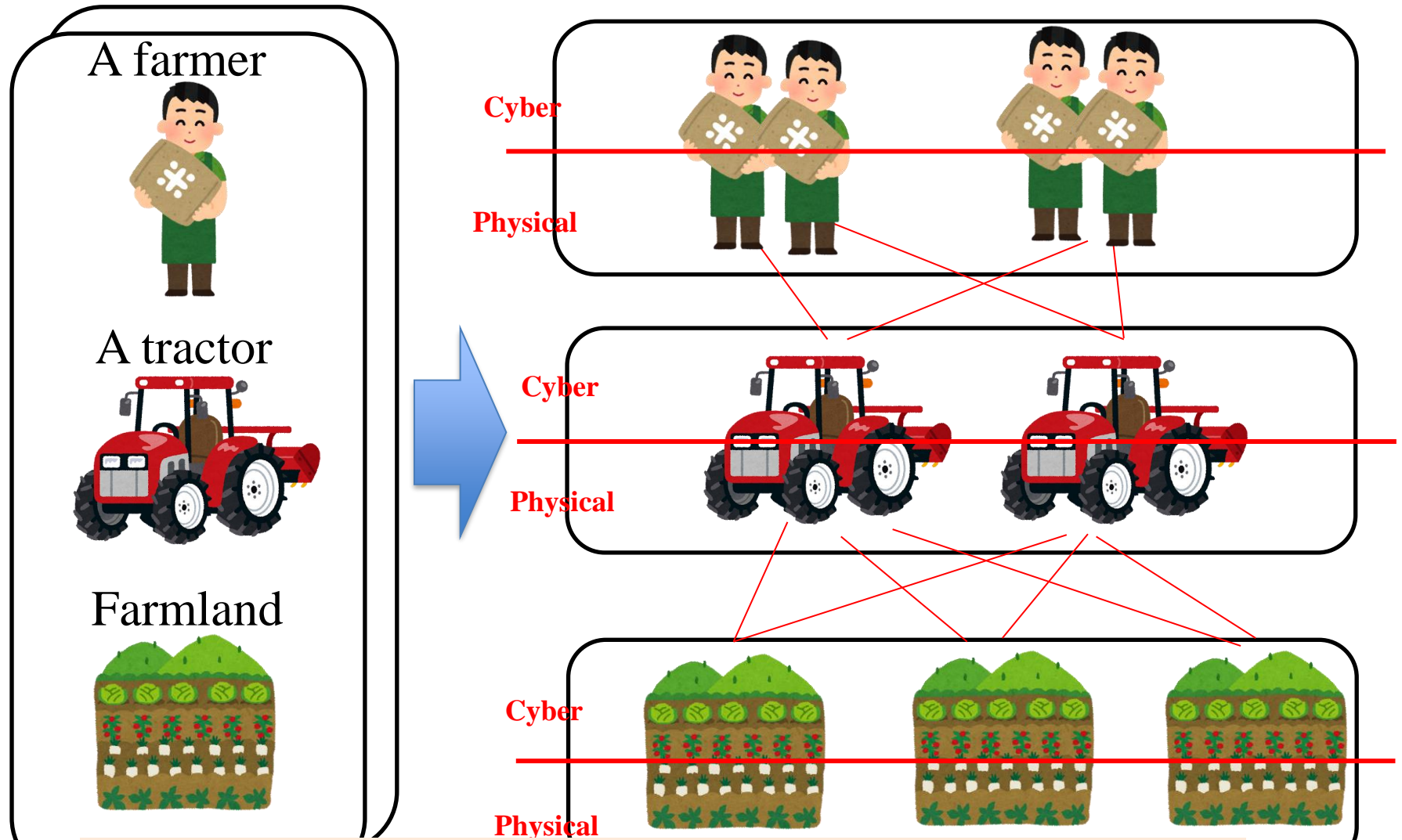


System of systems are key concept for Society 5.0.

From Vertical Integration to Horizontal Distribution by layered architecture in existing business field



From Vertical Integration to Horizontal Distribution by layered architecture in existing business field



Efficient resource utilization and elimination of “Muda”

Future Society Created by Architecture The Efforts of DADC

Information technology Promotion Agency (IPA)
President, Digital Architecture Design Center (DADC)



The DADC was founded with the goal of becoming a **transparent and neutral institute** to which comprehensive knowledge from various collaborations between industry, academia, and the government is gathered.

It accumulates advanced knowledge and **continuously contributes to society.**

Founded on May 15, 2021, which was the implementation date of the Reform Act on Facilitation of Information Processing

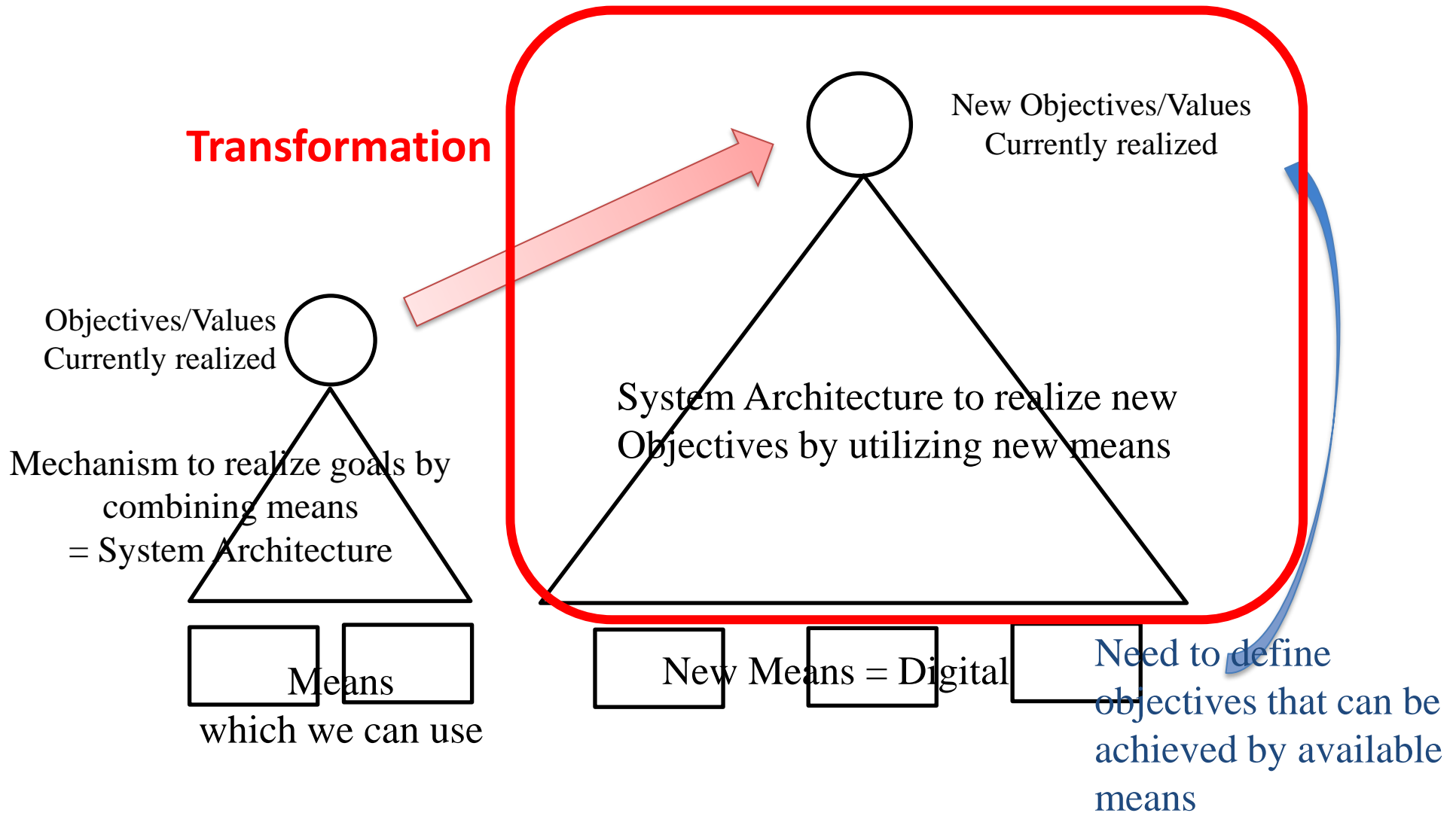
DADC Role

Design critical architecture designated by the Japanese Government

Nurture architecting talents through a wide range of hands-on learning opportunities

Conduct research and analysis for optimal architecture designing capabilities

Transformation for Society5.0



System Education

We have to develop people with the following capabilities.

- • To understand the possibility of new technology
- △ • To be able to imagine the system architecture which can be realized by new technology
- • Find and define new objectives / values which can be realized by new means and architecture.
- • Design the system architecture which include not only hardware and/or software system but also rules, governance and organizations.

System Education

Our education program at Keio SDM and IPA DADC for system architects is like follows.

- System thinking
- Design thinking
- Basics of Systems engineering
- Apply SE process / method / tools to design
 - curry rice
 - baby stroller
 - Bookstore Business
 - Organization of 100-yen stores
 - Kamakura City Policies for Disaster Response
- Platform system design: Layered architecture in existing business field
- System of Systems design

Design the future!

www.sdm.keio.ac.jp



日吉駅前 協生館