

HORIZON-CL4-2027-04- DIGITAL-05. Apply AI

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I Am!



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Education

2005

Seoul National University, Ph.D.

1998

KAIST, B.Sc.

Experiences

(2024-Present) Assistant Professor, GIST AIX

(2023-2024) R&D Division Director, Tmax Group

(2022-2023) Research Associate Professor, KAIST

(2019-2022) Fellow, World Economic Forum

Recent Publications

(2022) Raising Skepticisms on the Feasibility of Algorithmic Tacit Collusion

(2021) Blockchain Unpacked: An Agent-Based Model of Economic Inequality and Its Implications for Technology Governance in Blockchain

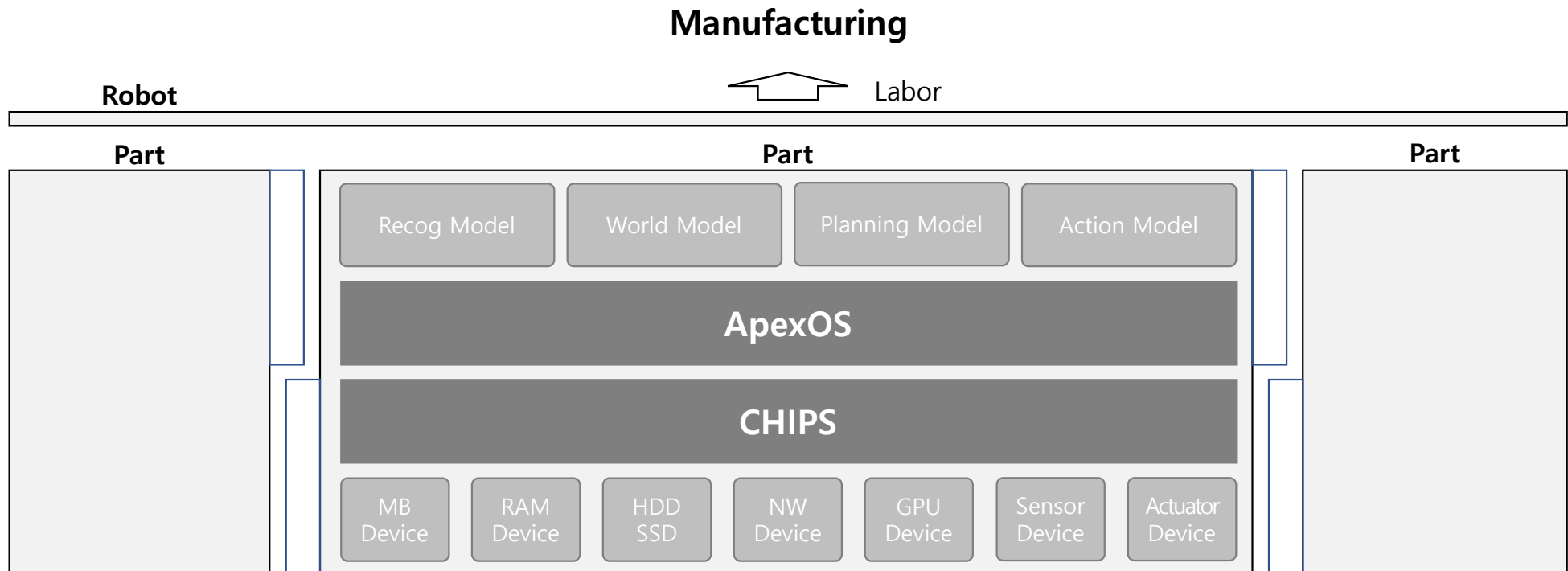
(2021) Challenges to the Global Implementation of Travel Rule Solutions: Technologies, Management, and Regulations Surrounding Virtual Assets

(2021) Challenges and Solutions to Reimagining the regulations for Blockchain

Physical AI Platform

We design a Physical AI Platform to Support Manufacturing:

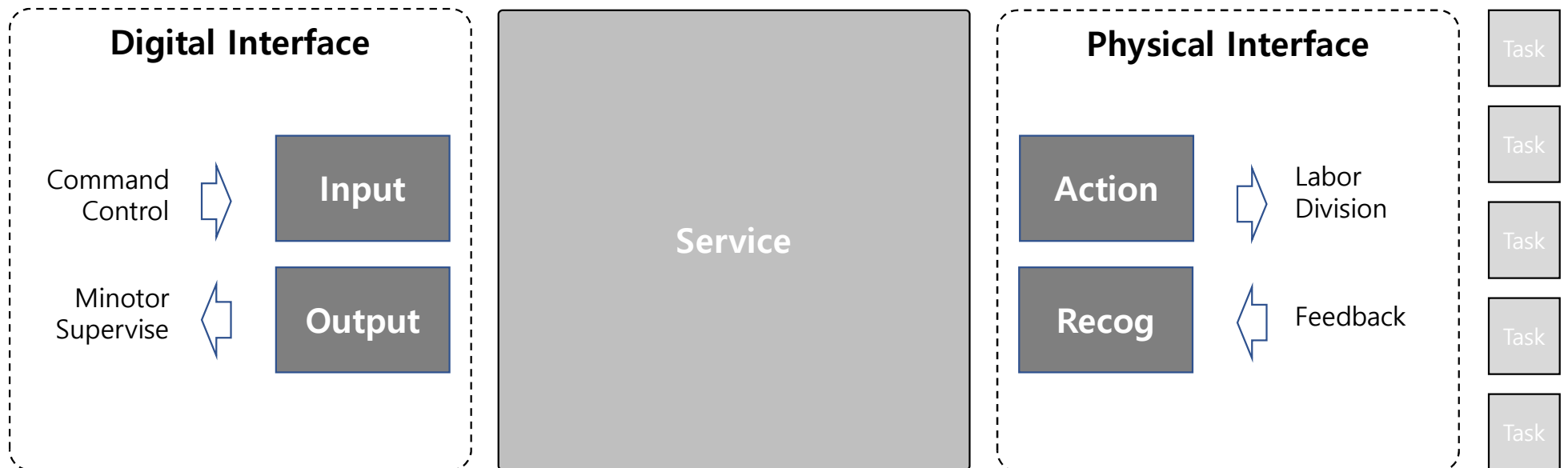
- A robot provides labor-as-a-service through human-like recognition and planning.
- A robot consists of parts, including AI models and devices, linked through standardized interfaces.



SW/HW Module

Parts of SW/HW are provided as a service module:

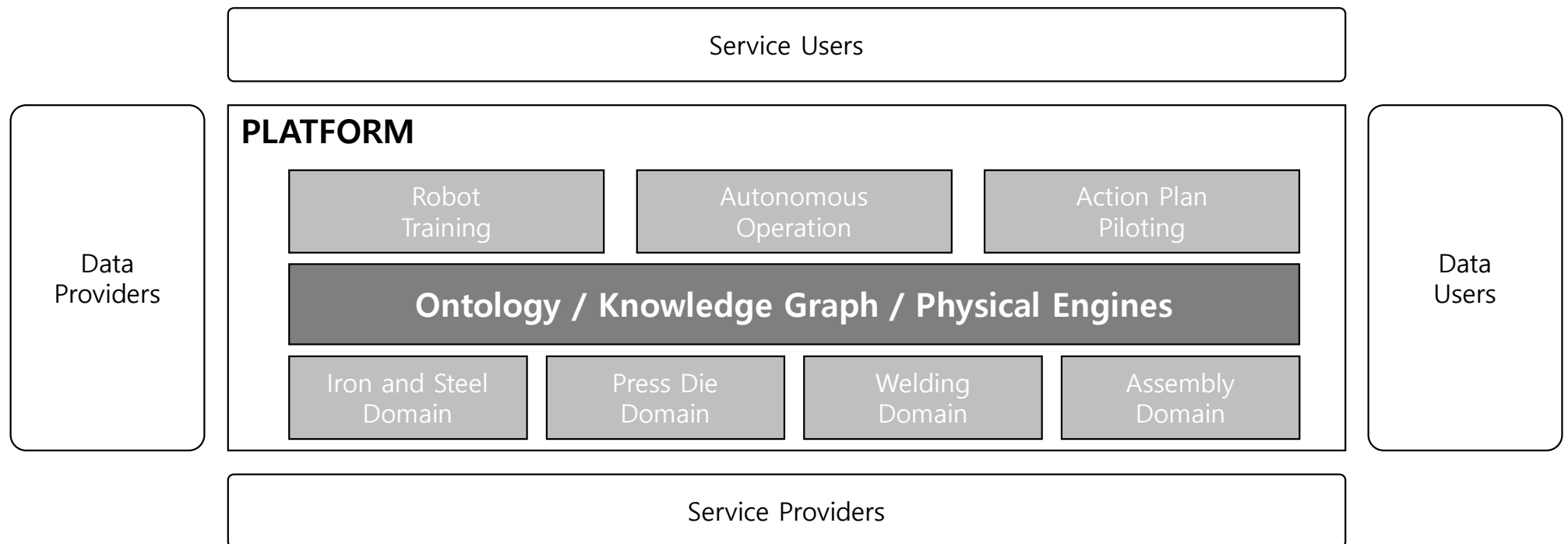
- A service is surrounded by digital interfaces and physical interfaces.
- Parts of a robot can be reused, recycled, and recombined through physical interfaces.
- Models in a robot can be reused, recycled, and recombined through digital interfaces.
- The communication network through Agentic AIs automates the services of robots.



Common Framework

Physical AI Platform provides digital and physical spaces:

- The digital platform supports AI model training with physical engines and domain knowledge.
- The digital platform supports autonomous operation and action plan piloting of robots and equipment.
- The physical platform supports the interconnection of robots and equipment.
- The integrated platform binds data providers, data users, service providers, and service users.



We Search For:

Digital platform component developers who take one of the recognition, world, planning, or action models.

Physical platform component developers who take one of the following: humanoid robots, walking robots, or specific equipment.

Manufacturers who pilot Physical AI in various manufacturing domains, including ironmaking, press die, welding, and assembly.

Who Wants to Develop Physical AI In Collaboration with Our Knowledge Graph-Based Operating System and Korean Manufacturing Companies!