

# IKEDA LAB.

## Optimization of Building Energy

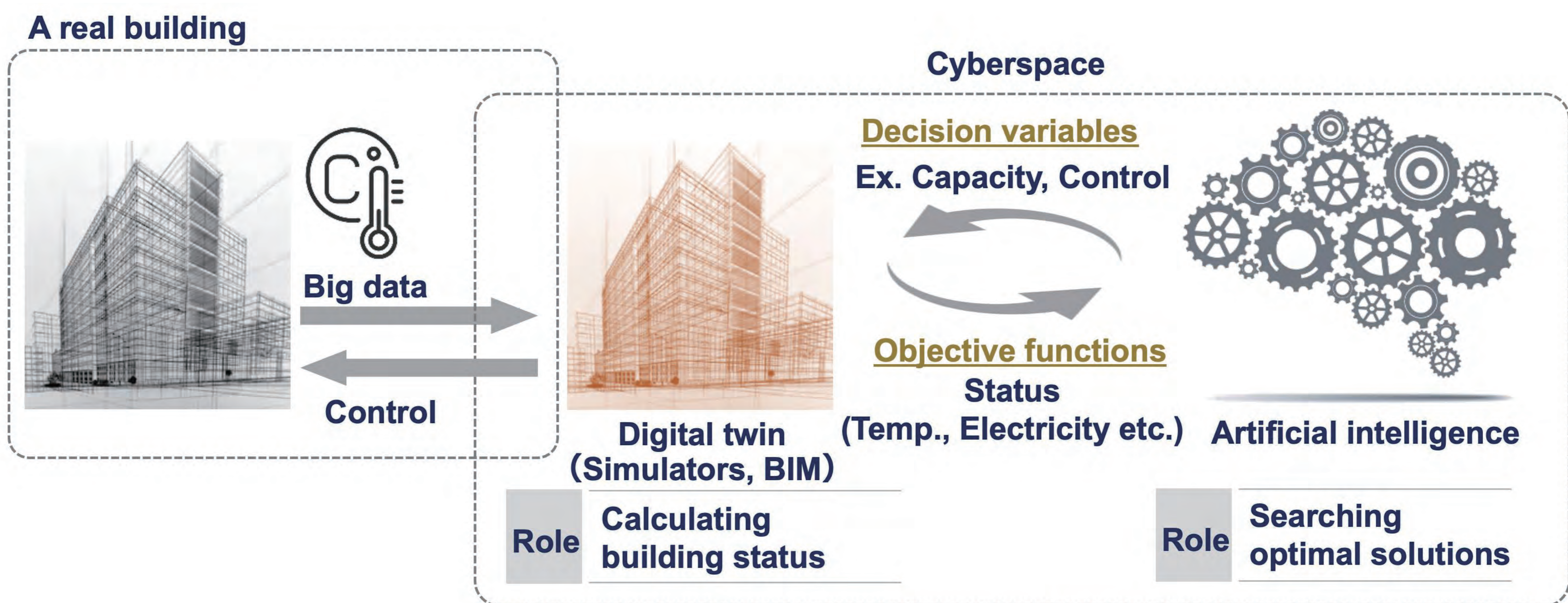


Department of Human and Social Systems

Management of Architectural Technology

### Research and Development of Advanced Real-Time Optimal Control Methods

The lifecycle of a building spans several decades, involving numerous measures that need to be implemented during the operational phase to reduce environmental impact, enhance occupant comfort, and minimize costs. Although buildings have a wide range of data points, such as occupancy numbers and energy-related information, methods for collecting these data adequately, analyzing them efficiently, and feeding them back into operations in real time have yet to be established. Our laboratory not only focuses on the traditional design phase of buildings but also on the operational phase, exploring advanced technologies and management methodologies to maximize the potential of buildings.



### Management for the Introduction and Operation of Leading-edge Technologies

In considering management of platforms that can be used seamlessly from the planning to the operation and demolition of buildings, we participate in actual large-scale redevelopment projects to facilitate the smoother social implementation of leading-edge technologies, exploring on-site challenges and their solutions.

