

# Sustainability-Oriented-Interspace-Research

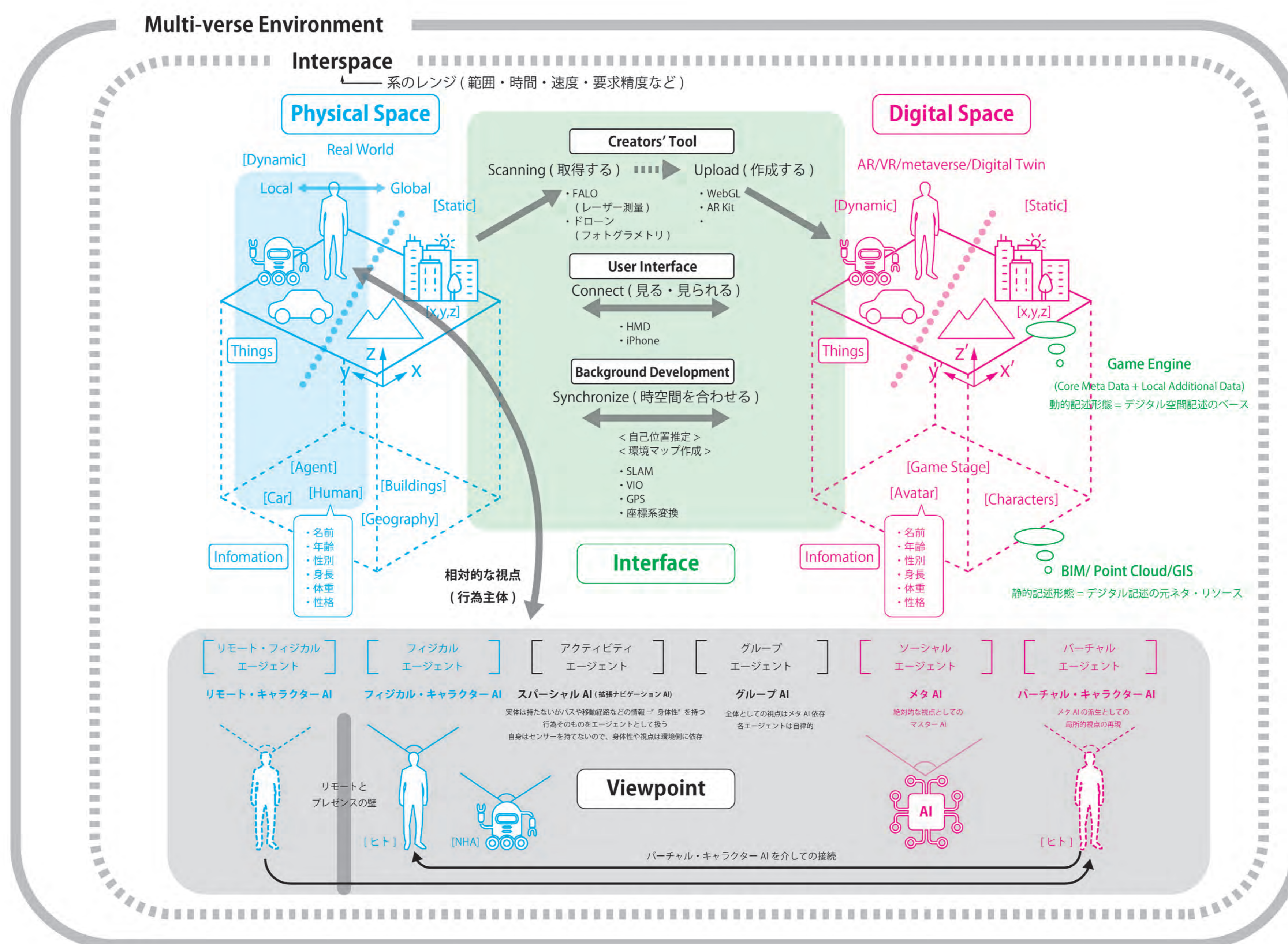
[ Systematization of next-generation generic spatial descriptions ]

## Sustainability-Oriented-Interspace-Research

[https://www.iis.u-tokyo.ac.jp/ja/research/department\\_center/Sustainability-oriented-Interspace-Research/](https://www.iis.u-tokyo.ac.jp/ja/research/department_center/Sustainability-oriented-Interspace-Research/)

In this endowed research division, we envision a near-future society in which various agents, such as autonomous robots, mobility, and avatars without physical entities, will coexist along with people in a variety of work and residential spaces. In the areas related to abstract and quantitative data that support concepts such as the digital twin and the digital city, attempts have already been made to systematize and create mechanisms for collaboration, and social implementation of such systems is also developing. We call the area where data and information come and go between real space and cyberspace Interspace, and we will explore methods of describing space that can be used in various fields to connect data and information with high precision and high frequency.

### Diagram of physical and information spaces, interfaces and Interspaces and agent spectrum



### Common Ground Project in Komaba Research Campus

Based on the concept of "Common Ground," which connects the physical and information domains with a general-purpose digital 3D description specification, we are leading the development of a mechanism for converting and interconnecting spatial description, spatial recognition, and reaction and control, which are being developed and evolved in various domains, with various partners. We aim to contribute to the creation of a sustainable society by providing opportunities for the development of horizontal human resources who can play a leading role in the creation of new fusion industries that are not bound by conventional industrial structures, as well as by providing an opportunity for the creation of new industries that can be implemented in society.

