

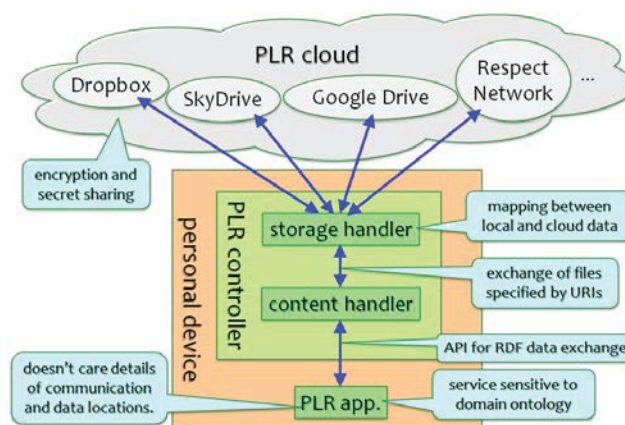
Instructor Name	Professor Koiti Hasida	Laboratory Location	Hongo Campus	Research Area	Personal Data Management and Application Services
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## Personal Data Management and Application Services

We are studying PLR (technology to aid individuals to manage and utilize their own data), FRM (technology using PLR to assist collaborations in various fields), and involved technologies such as natural language processing and ontology, aiming at constructing evidence-based, autonomous, distributed, and collaborative society by applying these technologies to the real world. Our activities include not only academic research but also collaboration with industries and international standardization.

### PLR (personal life repository)

If individuals are able to accumulate, store, freely share and utilize their own data without relying on any particular companies, then companies are freed from the cost of keeping huge amount of individual data and the risk of data leakage, and individuals can use their own data to maximize their own benefit, which will promote market expansion and innovations



in the whole B2C service industry. PLR (personal life repository) is a piece of middleware for smart devices to allow such management and utilization of individuals' data on the individual basis. We are working on extensions of PLR and its applications to healthcare, education, and other services.

### FRM (field resource management)

A major part of Japan's national resources is the high-quality autonomous and distributed collaboration in fields (of physical works and services), which have supported manufacturing, hospitality (OMOTENASI), etc. It is very important to further maintain and improve the creativity and productivity of fields in order to address the needs in medical and nursing services, primary industries, recovery from the earthquake disasters, prevention/mitigation of future disasters, the Tokyo Olympic games in 2020, tourism, and so forth. We are studying FRM — a PLR-based framework consisting of technologies and methodologies for assisting collaborations in fields by ICT. Intelligence in the sense of continued improvement and adaption by ceaseless hypothesis testing is necessary in order to address the diversity and changes in the fields. Major research issues there hence include acquisition, accumulation, sharing of data in field, collaboration on that basis, accuracy management and value improvement of that collaboration by data analysis and simulation.

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