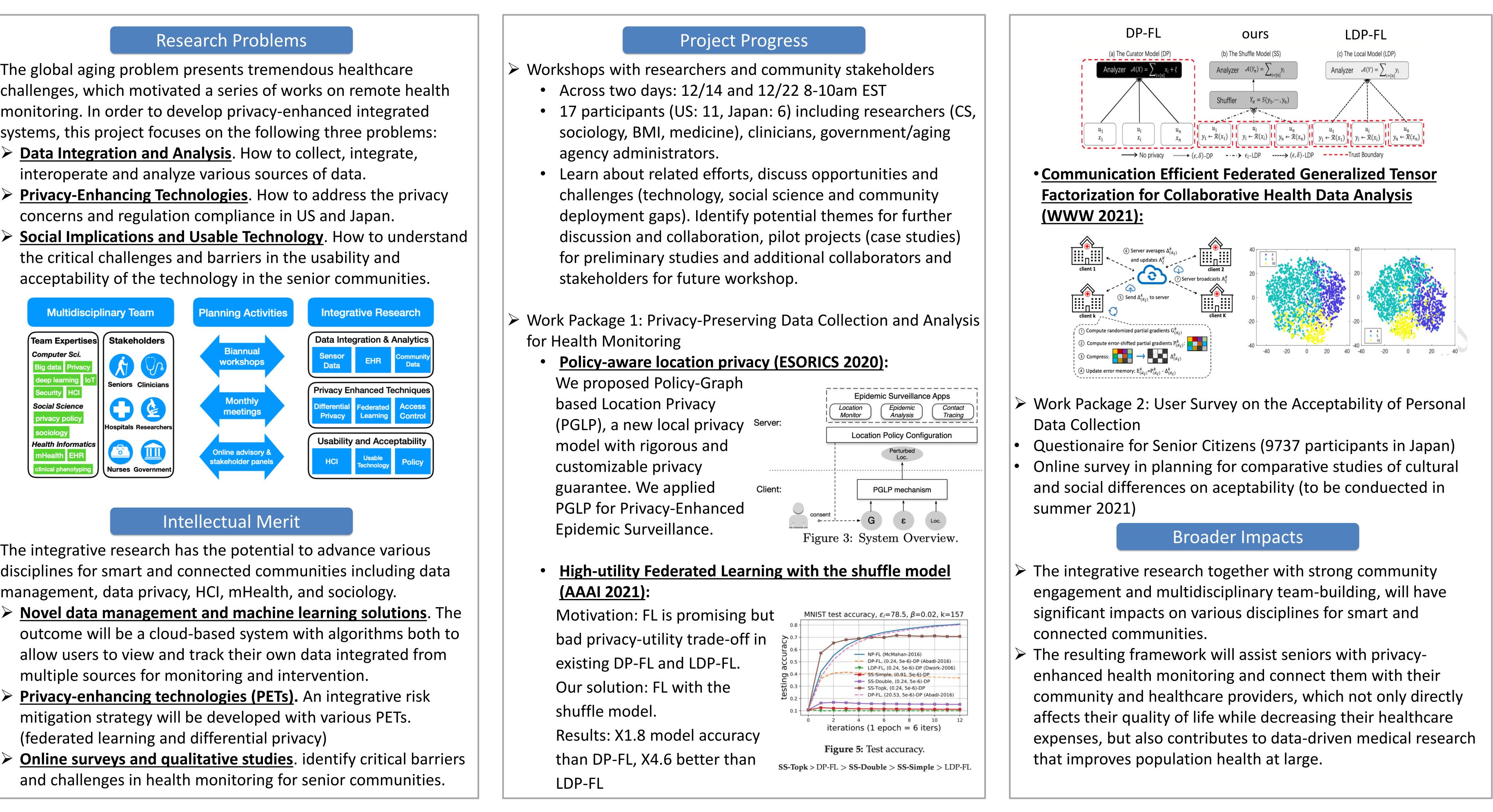
SCC-PG: JST: Privacy-Enhanced Data-Driven Health Monitoring for Smart and Connected Senior Communities

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The global aging problem presents tremendous healthcare challenges, which motivated a series of works on remote health monitoring. In order to develop privacy-enhanced integrated systems, this project focuses on the following three problems:

- Data Integration and Analysis. How to collect, integrate, interoperate and analyze various sources of data.
- **Privacy-Enhancing Technologies**. How to address the privacy concerns and regulation compliance in US and Japan.
- the critical challenges and barriers in the usability and acceptability of the technology in the senior communities.



The integrative research has the potential to advance various disciplines for smart and connected communities including data management, data privacy, HCI, mHealth, and sociology.

- allow users to view and track their own data integrated from multiple sources for monitoring and intervention.
- > Privacy-enhancing technologies (PETs). An integrative risk mitigation strategy will be developed with various PETs. (federated learning and differential privacy)
- and challenges in health monitoring for senior communities.

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