Contribution ID: **7**   Type: **not specified**

Security and Infrastructure in the LUCID Project: A National Registry of Quality of Care in Swiss University Hospitals

Thursday, 4 May 2023 11:45 (30 minutes)

The Centre Hospitalier Universitaire Vaudois (CHUV) and the Swiss Data Science Center (SDSC) have joined forces to implement the LUCID national data stream on the quality of care in Swiss university hospitals. LUCID aims to provide a secure national patient data registry designed to monitor and improve the quality of care. We will present the security and infrastructure considerations underpinning LUCID's design, including containerized software to orchestrate tasks in an isolated environment. Our system relies on the BioMedIT platform to ensure maximal privacy and security and the SPHN framework to deliver FAIR data for operational and research purposes. In addition, we are currently working on enhancing the LUCID system with traceability and resource access governance by implementing the Swiss Data Custodian. By sharing our experience with building and deploying LUCID, we hope to inspire others to develop and adopt similarly secure and efficient solutions.

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