

Data Lake Implementation of Smart Campus, IIIT-H



INTRODUCTION

- **OneM2M:**
 - A global partnership project founded in 2012.
 - Already been adopted in India to develop the 100 Smart Cities.
 - Proposes a standardized architecture using a common framework and uniform APIs to enable applications in multiple domains.
- **Indian Urban Data Exchange (IUDX):**
 - Initiated and funded by Smart City Mission, MoHUA, India.
 - Exchange data between various IoT and legacy systems.
 - Enable co-creation and innovation

METHOD

- Deployment of IoT sensors at different locations inside the IIIT-H campus to monitor various parameters.
- Data collection using OM2M platform, an open-source implementation of the oneM2M standard
- Integration of a data warehouse with OM2M using oneM2M subscription technique.
- Development of an API layer for seamless data exchange between the IIIT-H data monitoring system and the data consumers across the country.

ARCHITECTURE

