IST 037
Exploratory Research into Sensor Deployment and Networking for Building and Facility Management

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Abstract
This project builds upon an existing project aimed at better collection of building infrastructure and use data to be used in monitoring and management methods. While state of the art instrumentation and IT systems exist for managing buildings, the weak links in such systems are detailed and disaggregate data on individual pieces of capital equipment that are part of the overall infrastructure. This project will seek to fill a major hole in building management methods by showing how a network of deployed sensors that are integrated into such systems can lead to large gains in management efficiency as well as cost and energy requirements. The research will have two primary components: the integration of sensors within existing building systems and the development of a scalable sensor data collection architecture to facilitate communication.