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## **Integrating Building Information with Ordnance Survey Ireland data**

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### **Abstract**

Building Information Modeling (BIM) is a key enabler to support integration of building data and is an important aspect to support a wide range of use cases, related to building navigation, control, sustainability, and so on. Open BIM faces several challenges related to standardization, data interdependence, data access, and security. This means that there is often limited availability of BIM models. In Ireland, the Ordnance Survey Ireland (OSi) has a substantial dataset, called Prime2, which includes not only GIS data (polygon footprint, geodetic coordinate), but also additional building specific data (form and function).

OSi has also, since 2016, made available Irish Census statistics produced by the Central Statistics Office (CSO) integrated with their boundary data (e.g. counties, electoral districts). In this paper, an extension of an applied and tested methodology for uplifting GIS data into RDF is demonstrated for interlinking OSi census data with OSi building data. This builds on initial work interlinking OSi building data with DBpedia, and the IFC standard, based on geolocation. By interlinking building data in this way and making it available to query over, new insights and knowledge about buildings in Ireland can be made. This is an important step towards the iterative integration of ever more complex BIM models into the wider web of data to support the aforementioned use cases.