GEOMETRY GENERATION PRODUCTS

CBIM - European Training Network
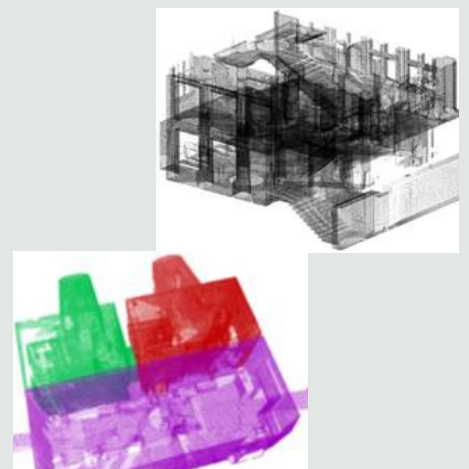Cloud-based Building Information Modelling

DATA ACQUISITION

Terrestrial laser scanners and mobile laser scanners can be used to collect point cloud data (PCD) for BIM geometry construction
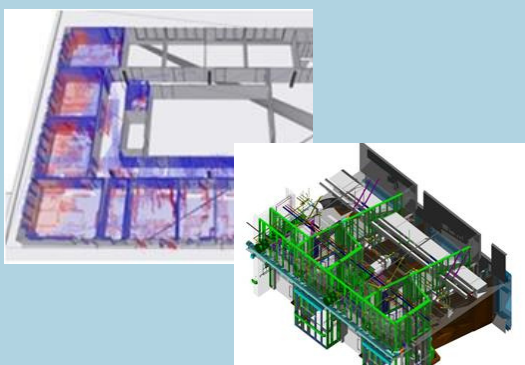
PCD SEGMENTATION

Semantic segmentation and instance segmentation can be achieved by machine or deep learning methods to split PCD into various clusters
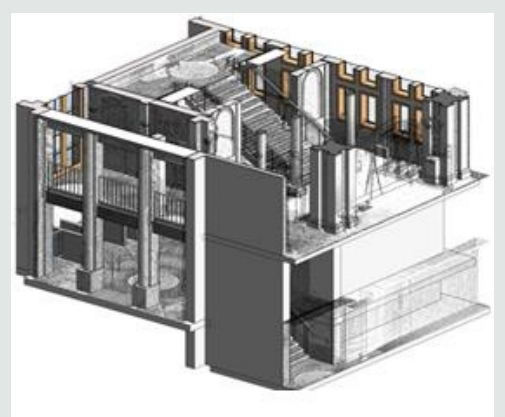
GEOMETRY CLASSIFICATION

Different types of objects in a typical building are recognized and classified

BIM OUTPUT

A building information model is generated from classified point cloud clusters as final output

APPLICATIONS

BIM is widely used for clash detection, construction progress monitoring, energy simulation, and building operation, etc..

CBIM INFOGRAPHIC

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