

Abstract

A “metadata model of a city’s Internet of Everything and use thereof to implement citizen engagement through ‘user journeys’ and system intelligence through automated response logic. A framework that allows system integrators to build a metadata model of a city’s IoE by extracting building structure and device information from conventional CAD BIM files to automatically populate the metadata model to provide building modeling functionality and 3D-walkthrough capability for building and infrastructure operations(“Operational BIM”), which metadata model then enables city managers to implement user journeys and system intelligence, in incremental fashion, as the business needs of the city evolves.

Fig. 10