

# **URBAN DIGITAL TWINS REFLECT** SMART CITIES

Digital twins developed in the manufacturing and aerospace sectors. Now they are becoming a critical tool for urban development in cities around the world. Individual digital twins of buildings and infrastructure are being incorporated into a whole, where users can view their impact on an entire neighborhood or even city. All of it is fueled by data.



# **THIS OFFERS FOUR NEW CAPABILITIES:**

## **PLANNING:**

The platform can be used to analyze items such as vehicular and pedestrian patterns, and develop solutions to bottlenecks.

#### VIRTUAL TESTING:

The rich volume of data within models of individual pieces can be used to simulate movement of people within and around at various times to provide for optimum or emergency flow.

## **RESEARCH:**

An open-source platform gives researchers and developers access to develop new technologies or leverage the data for business opportunities.

#### VIRTUAL **EXPERIMENTATION:**

Systems improvements can be tested and verified before being built.

