



Local and national authorities transformation leveraging Virtual Twins

Jacques BELTRAN, Vice-President Cities & Public Services




1981
3D Design

1989
3D DMU
Digital Mock-up

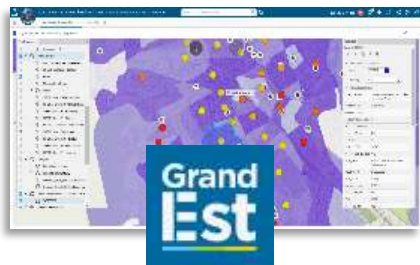
1999
3D PLM
Product Lifecycle Management

2012
Virtual Twins
Of Infrastructures,
Cities and Territories

2020
Virtual Twin
Experience of
Humans



Virtual worlds **extend** and
improve the Real world





3D Modeling



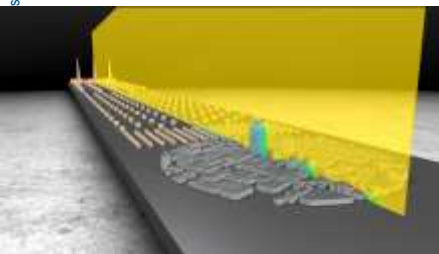
Social & Collaboration



Data Intelligence



Simulation



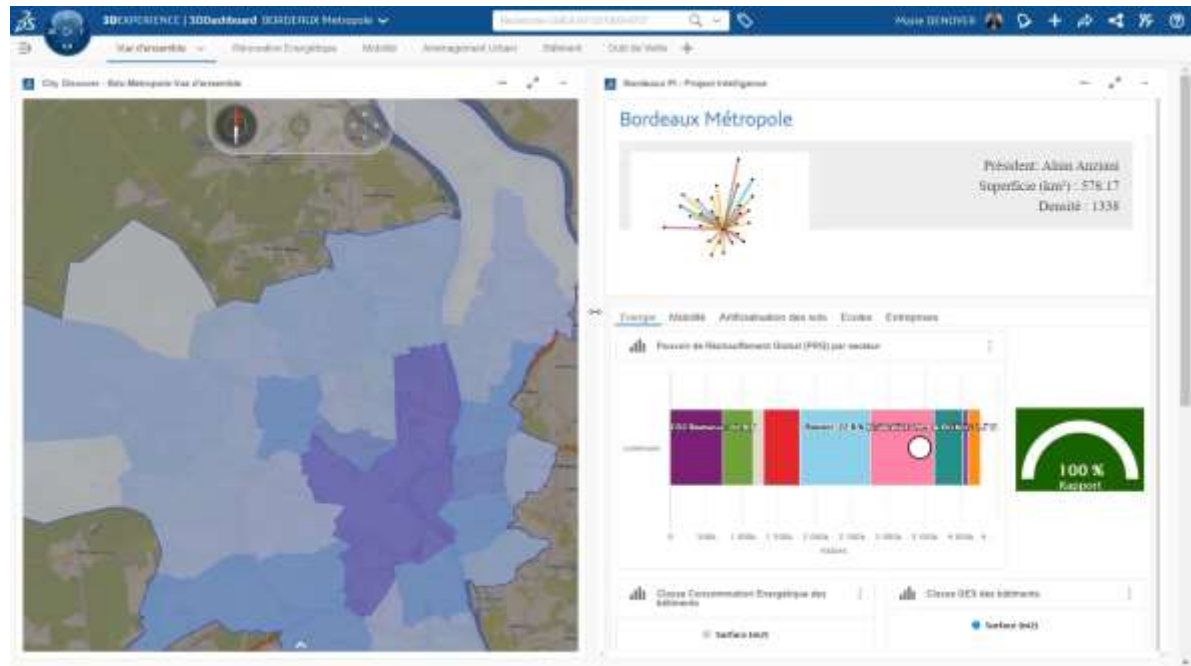
DIGITAL TWINS : MULTI-SYSTEMS

A multi-scale/systems solution, from virtual territory to virtual component, with enrichment of metadata to enable specific use-cases



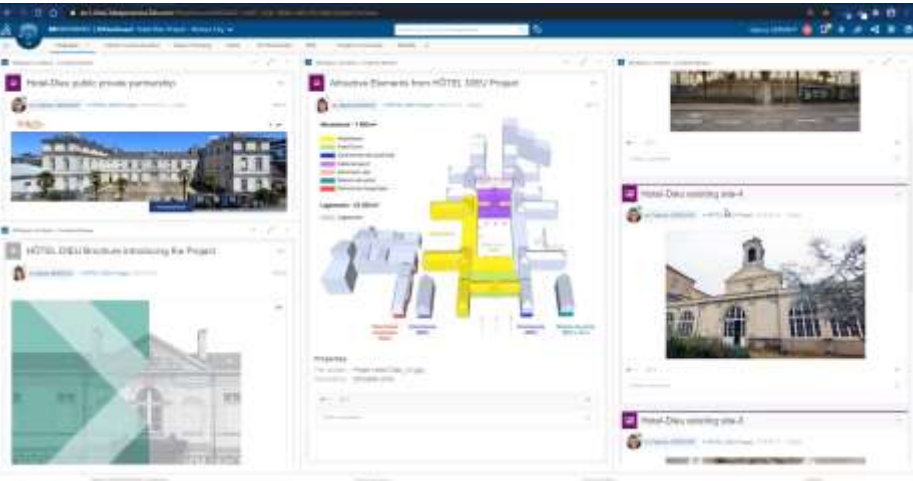
1. Public policies monitoring

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Soft mobility, isochrones, vegetation and 3D design

2. Urban planning



*Rennes Metropolis
(Hôtel Dieu project)*

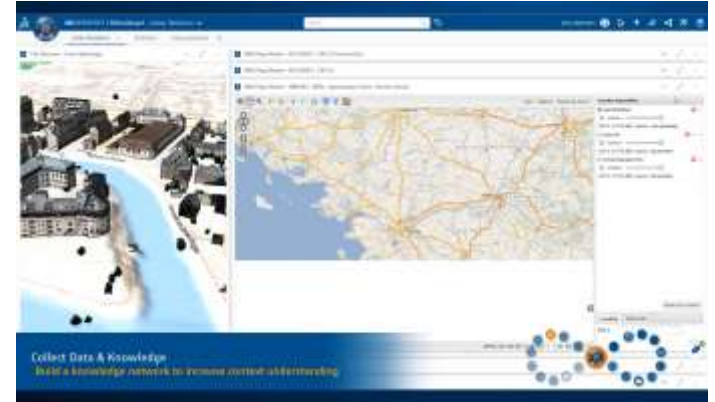


Singapore

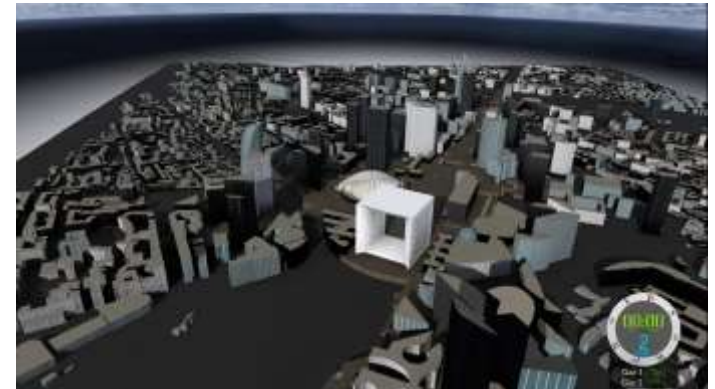
3. Crisis management



PredictEst



Flood risk prevention



La Défense business district

