Advancing Reality Modeling for National Infrastructure with Bentley solutions

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Why Reality Modeling ?



8.00 Hours 8.00 Hours 1.38 Hours 2.77 Hours 4.15 Hours 5.53 Hours 6.92 Hours 8.30 Hours 9.68 Hours 11.07 Hours 12.45 Hours 13.83 Hours

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THE PAPAL VISIT

Reality Modeling

Capturing detailed existing conditions in 3D for contextual alignment within design and construction workflows

- No need to start from scratch
- Better decisions with precise real-world conditions



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* Coming in Fall 2016

Advancing Reality Modeling Data Collection with ContextCapture

Automatically generate high-resolution 3D reality models from laser scanners* and photos taken with:

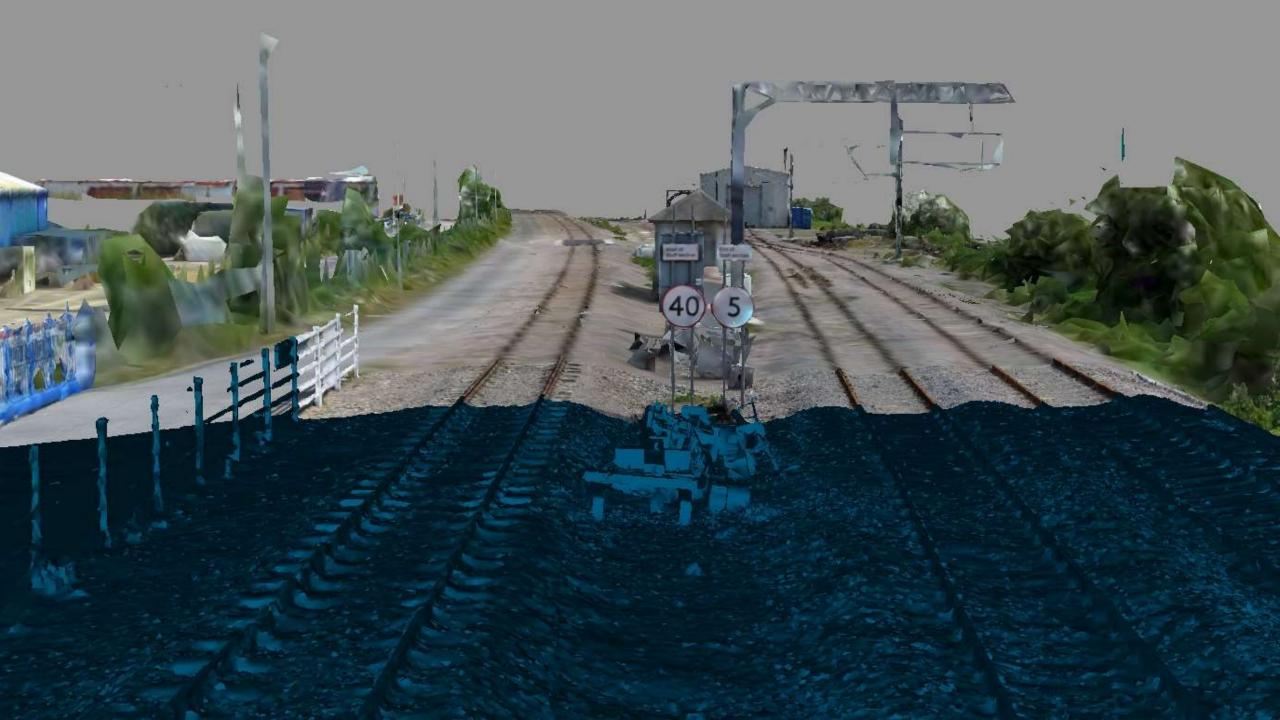
- a digital camera
- a smartphone
- mounted on a drone
- or an aircraft with a dedicated multi-directional acquisition system.



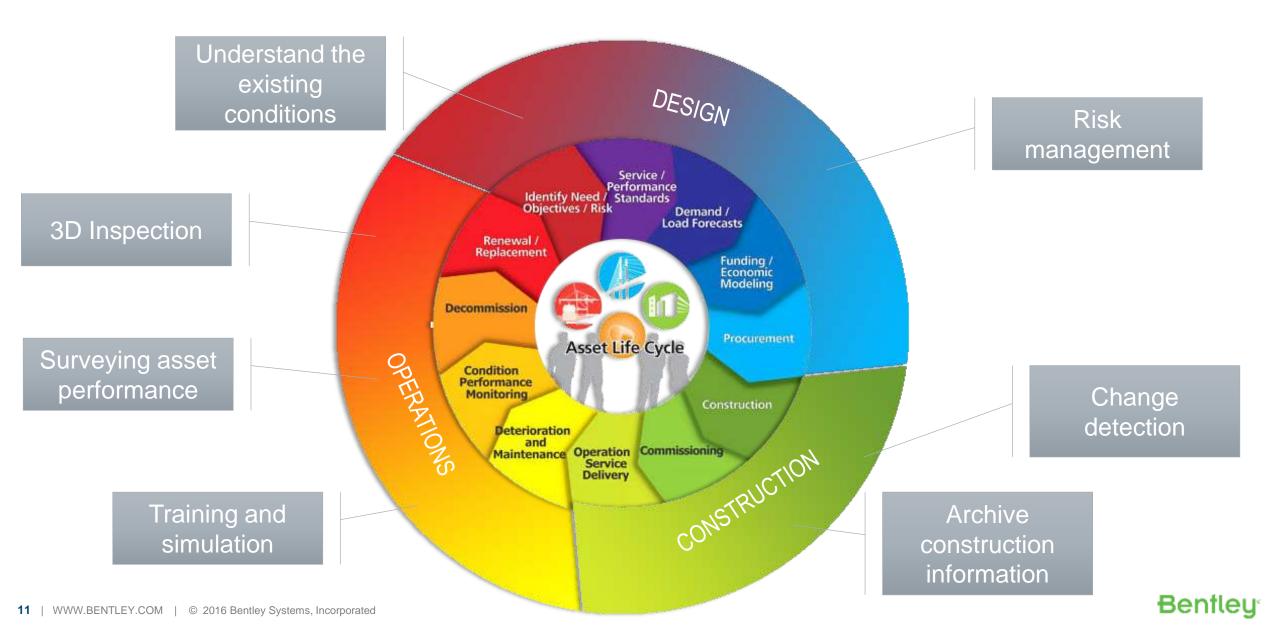








Reality Modeling for Advancing Infrastructure









ContextCapture

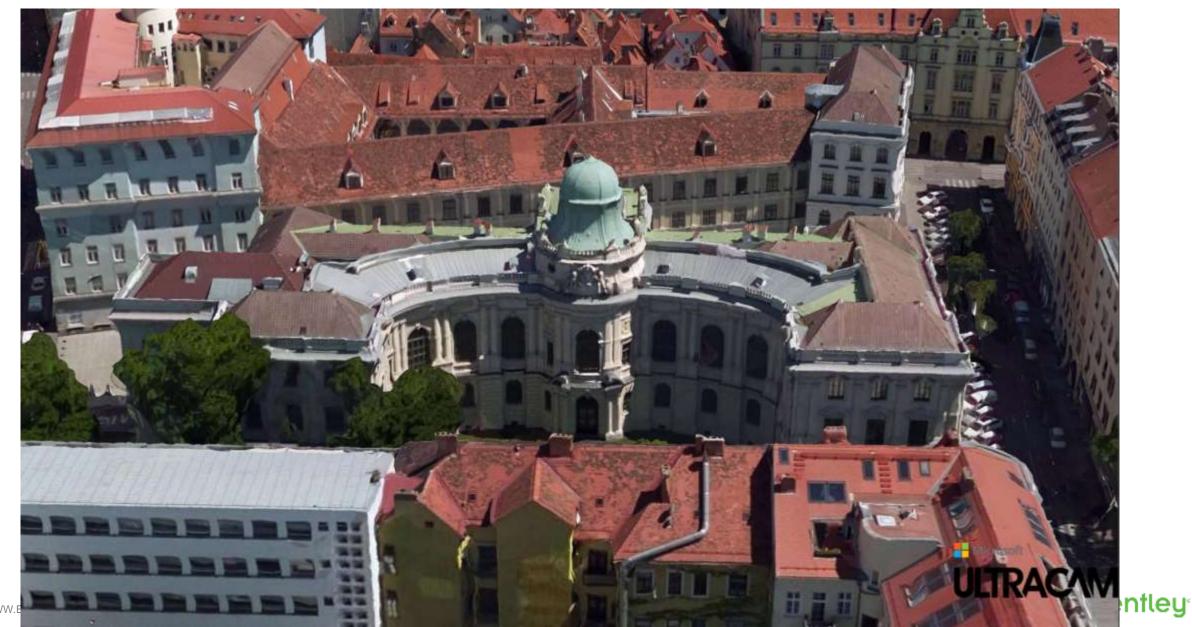
Examples of 3D Models



Infrastructure | Industrial Sites



Infrastructure | Cities

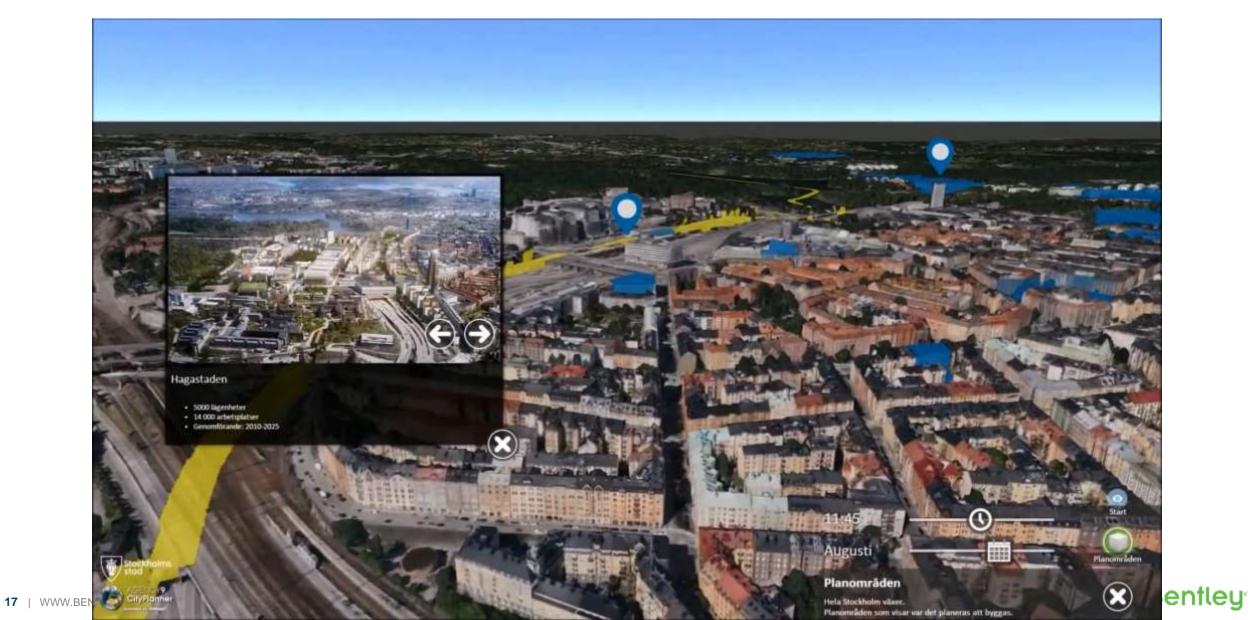


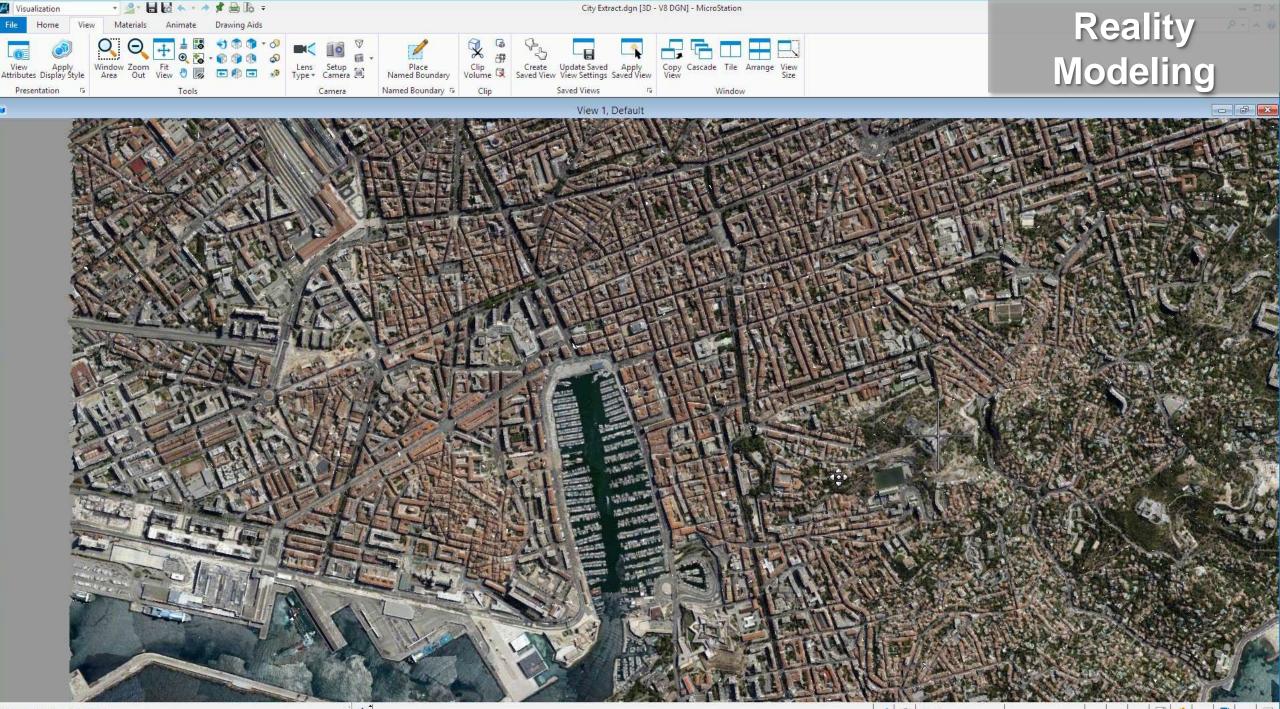
15 | WWW.

Transportation | Modeling of Existing Structures



Planning | Integrating Development Projects in Existing Urban Fabric





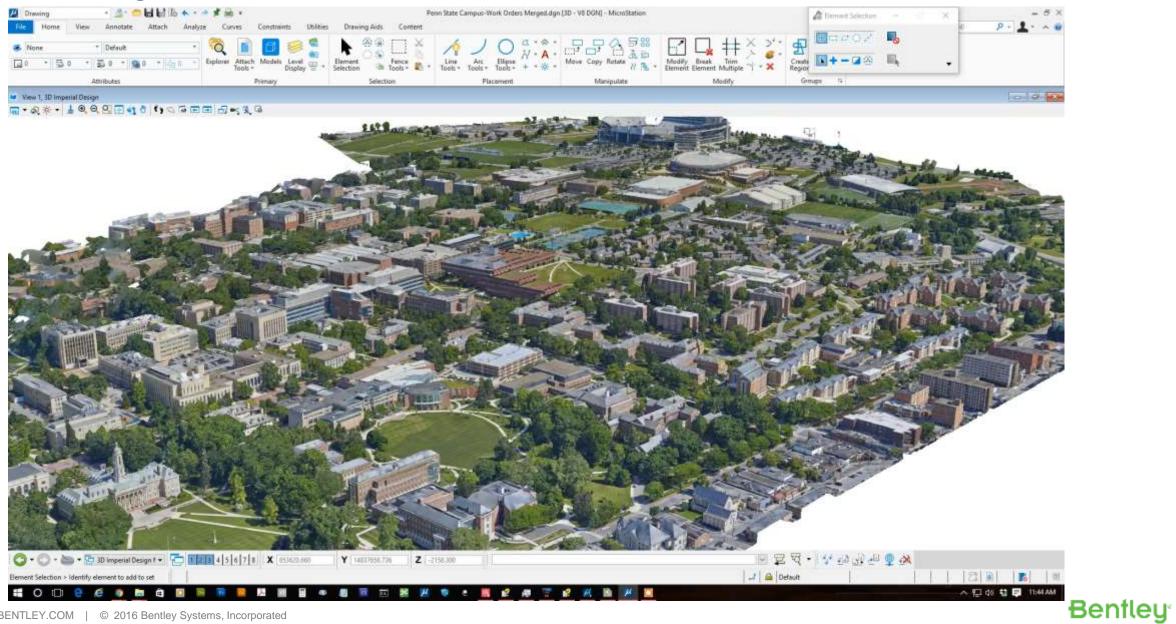
Rotate View > Define first point

Reality Modeling

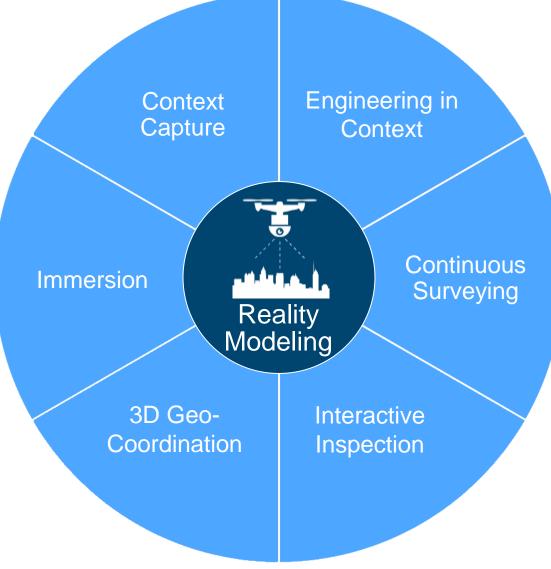
ADELAIDE 3D MODEL SAMPLE EXPERIMENT IN LUMENRT



GIS Integration

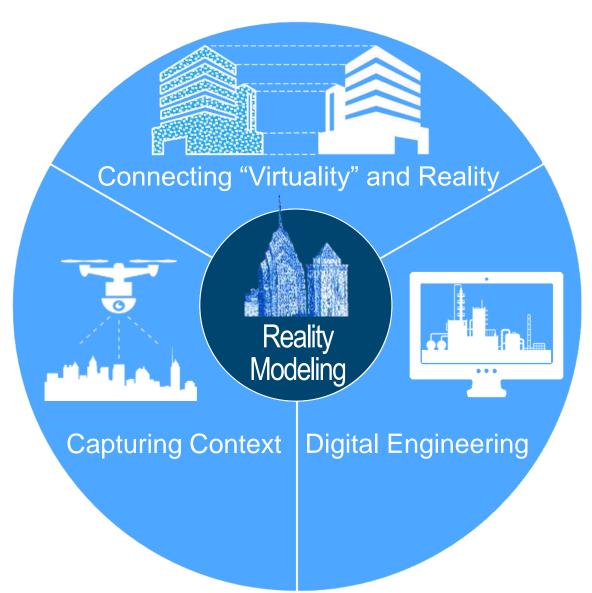


"Convergence in 3D"...



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Enabling the Augmentation



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Advancing Reality Modeling for National Infrastructure with Bentley solutions

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