Geospatial + BIM: Transforming the Construction and Engineering Industry

Ted Lamboo

Industrializing *Project Delivery…*

Automation Constructioneering

Collaborative Digital Workflows

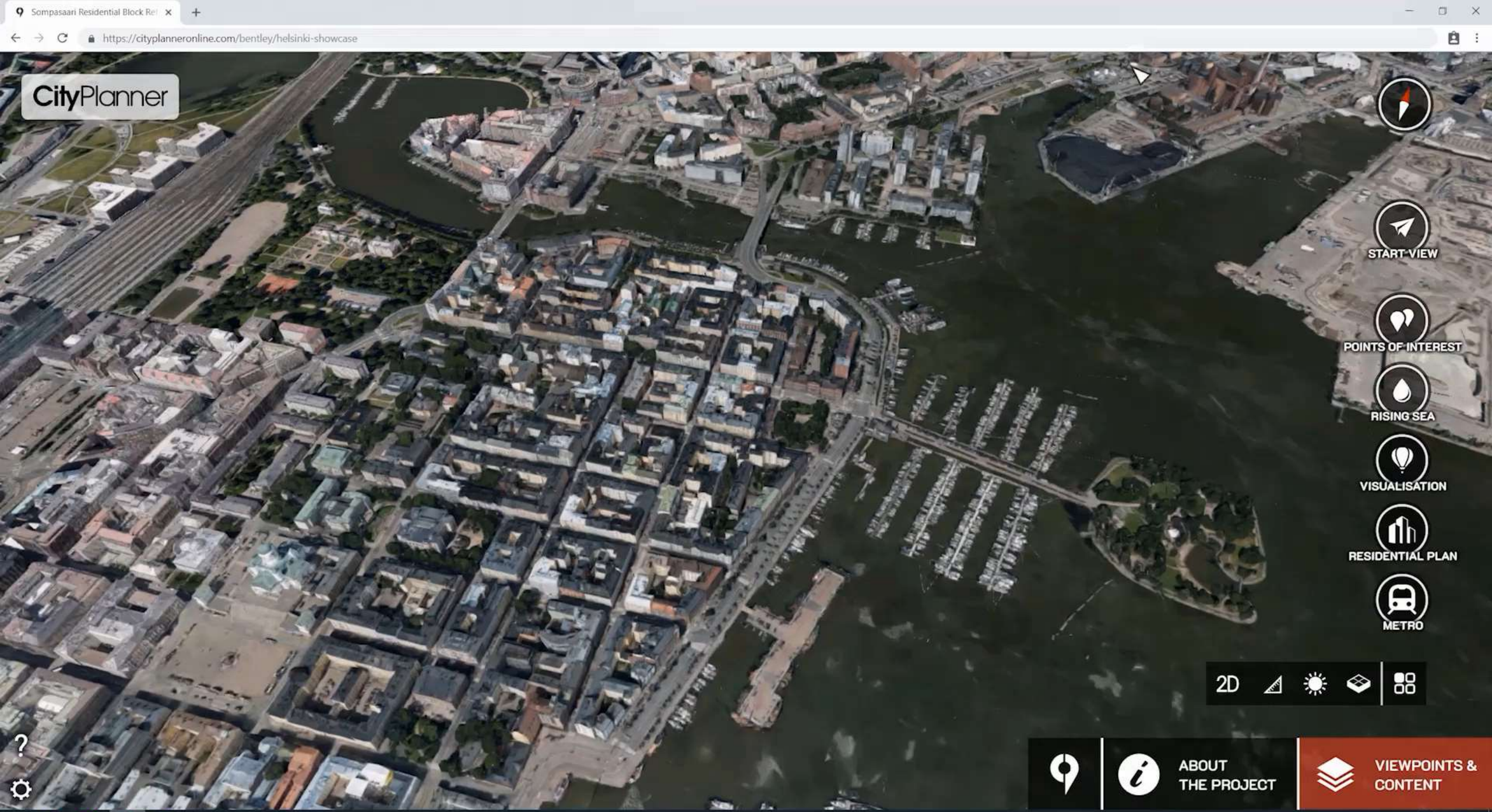
Conceptioneering **Comprehensive Status Reviews**

Continuous Surveying of Digital Context

Offsite Manufacturing Components Center

Repeatability ***Digital Twin***

Infrastructure can't become Intelligent/Smart unless it is Digital!!


Sompasaari Residential Block Re
https://cityplanneronline.com/bentley/helsinki-showcase
CityPlanner
START VIEW
POINTS OF INTEREST
RISING SEA
VISUALISATION
RESIDENTIAL PLAN
METRO
2D
ABOUT THE PROJECT
VIEWPOINTS & CONTENT
SWE
11:12
2018-10-10

SYNCHRO

May 2018			Jan 2019				Jan 2020				Jan 2021				Jan 2022			
	Jul	Oct		Apr	Jul	Oct		Apr	Jul	Oct		Apr	Jul	Oct		Apr	Jul	Oct
	wk 37	wk 50	wk 63	wk 76	wk 89	wk 102	wk 115	wk 128	wk 141	wk 155	wk 168	wk 181	wk 194	wk 207	wk 220	wk 233	wk 246	wk 259

100
100
Brookfield

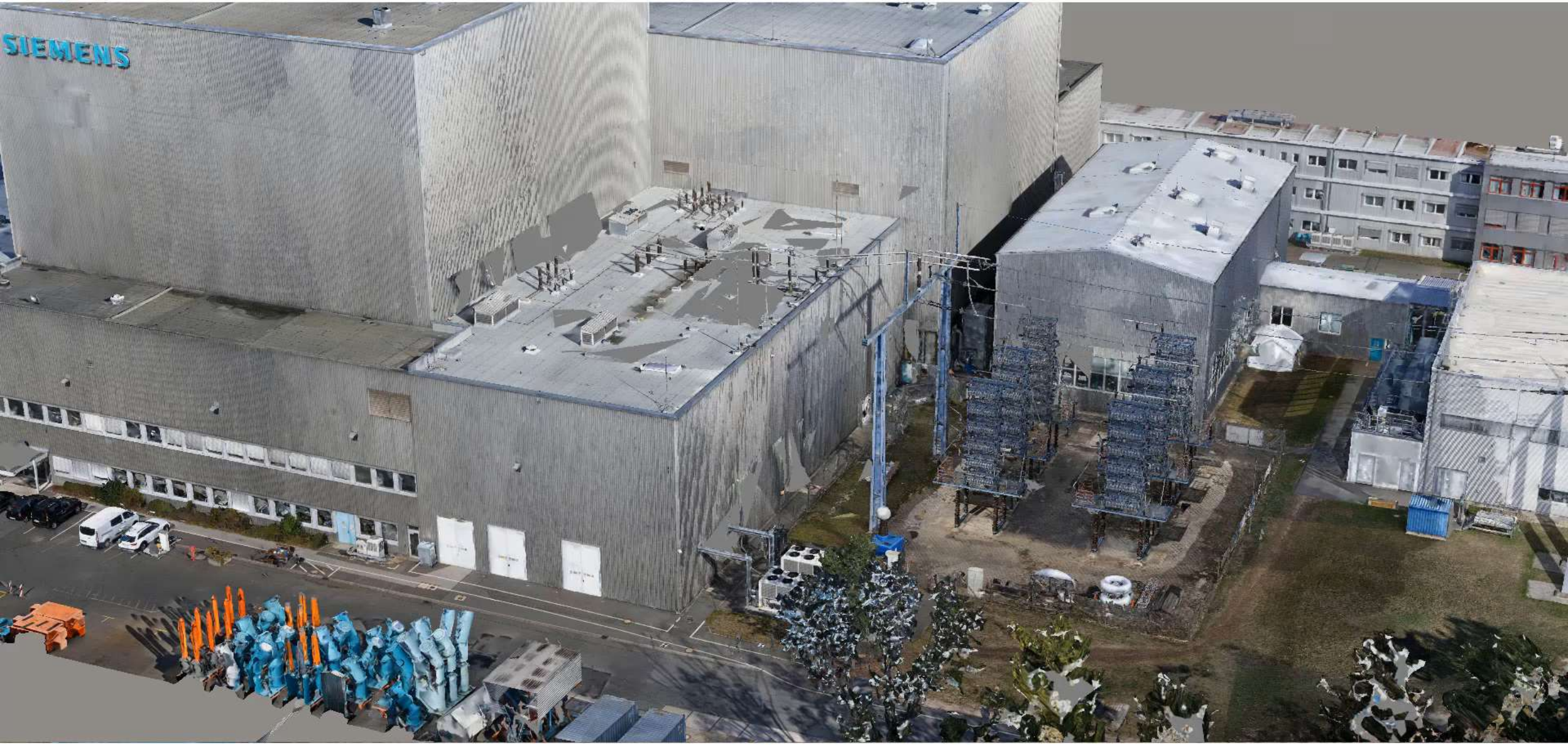
https://asw-demo-aw.bentley.co

https://asw-demo-aw.bentley.com/OpenUtilities/#/visops_show_model?fileId=267%2F

Menu

Scope: Global

Home > Digital Operations > Digital Operations



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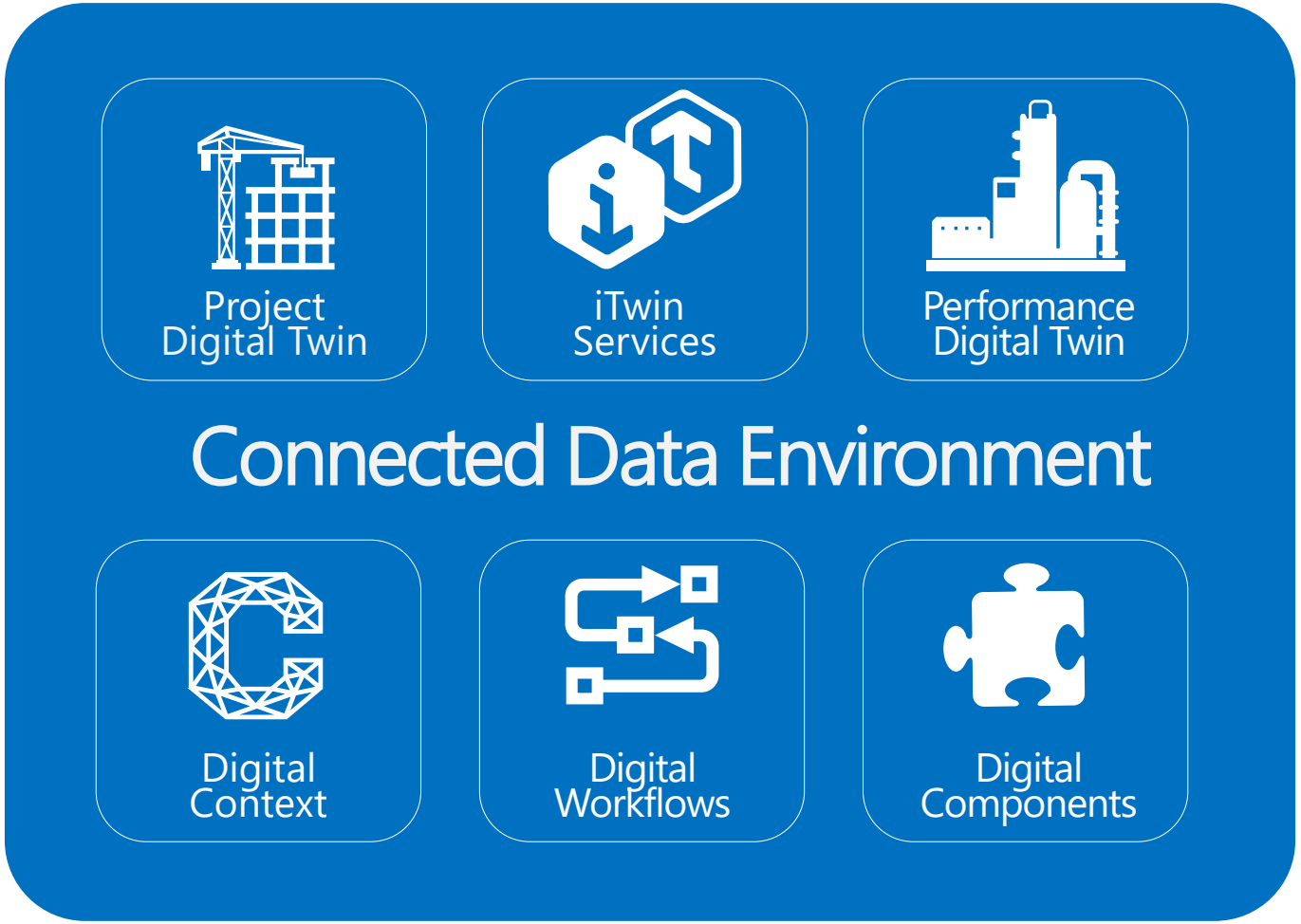
Immersive Visibility

Continuous and Comprehensive Status Review



Analytics Visibility

Reality Modeling

Digital Alignment

Change Synchronization

Engineering and Construction Automation…

- Must be based on digital representation of existing reality
- All steps of the Infrastructure lifecycle involved
- Infrastructure Asset owner involved before and after the construction
- Digital Twin(ning) is a process, not a one time-event
- Process is as strong as it’s weakest link
- Pay-off is biggest when all steps in the process collaborate and benefit:

  Exiting situation => Planning => Design => Construction => Hand Over => Asset Management
- *Go Digital on your Intelligent Infrastructure!*