

Digital Transformation for the Built Environment

Deepak Aatresh
Co-Founder & CEO

CCI CONFERENCE 2017: CONSTRUCTION ON THE PRECIPICE OF MASSIVE CHANGE

November, 2017

 $\Lambda DIT\Lambda ZZ$

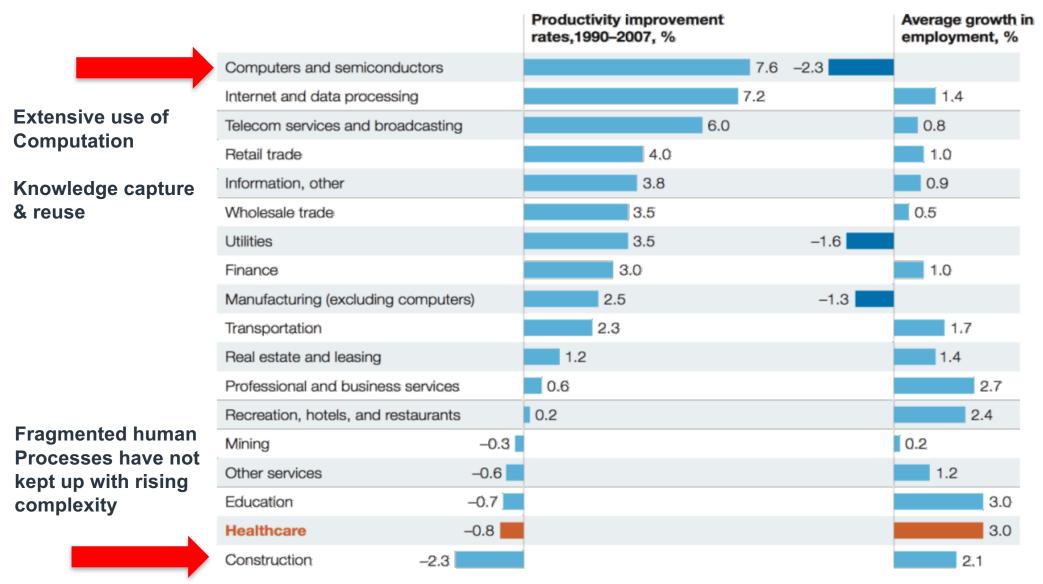
What intersects the \$10 **Trillion**Construction Industry and Computation?

What intersects the \$10 Trillion Construction Industry and Computation?

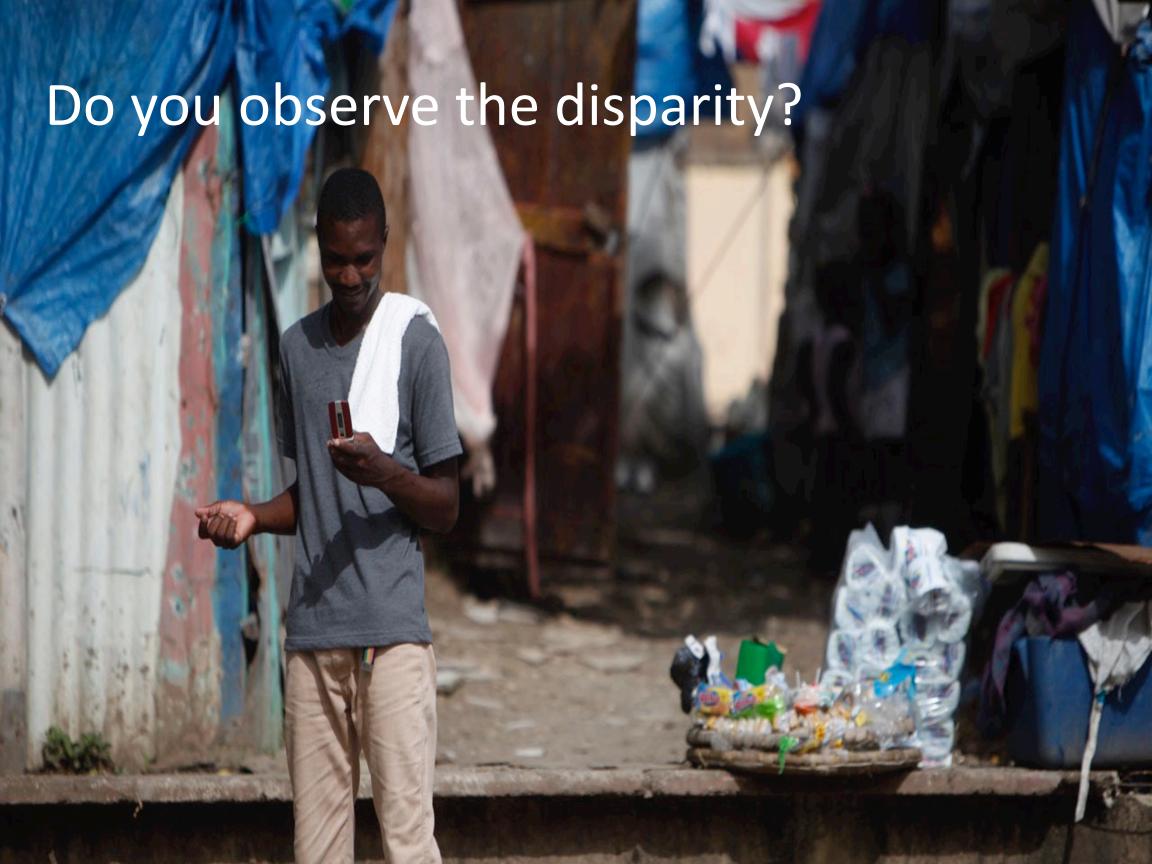
Line Drawings, Occasionally in 3D

Now, can you name the industry at the bottom of the productivity Chart?

Comparing Productivity: US Industries

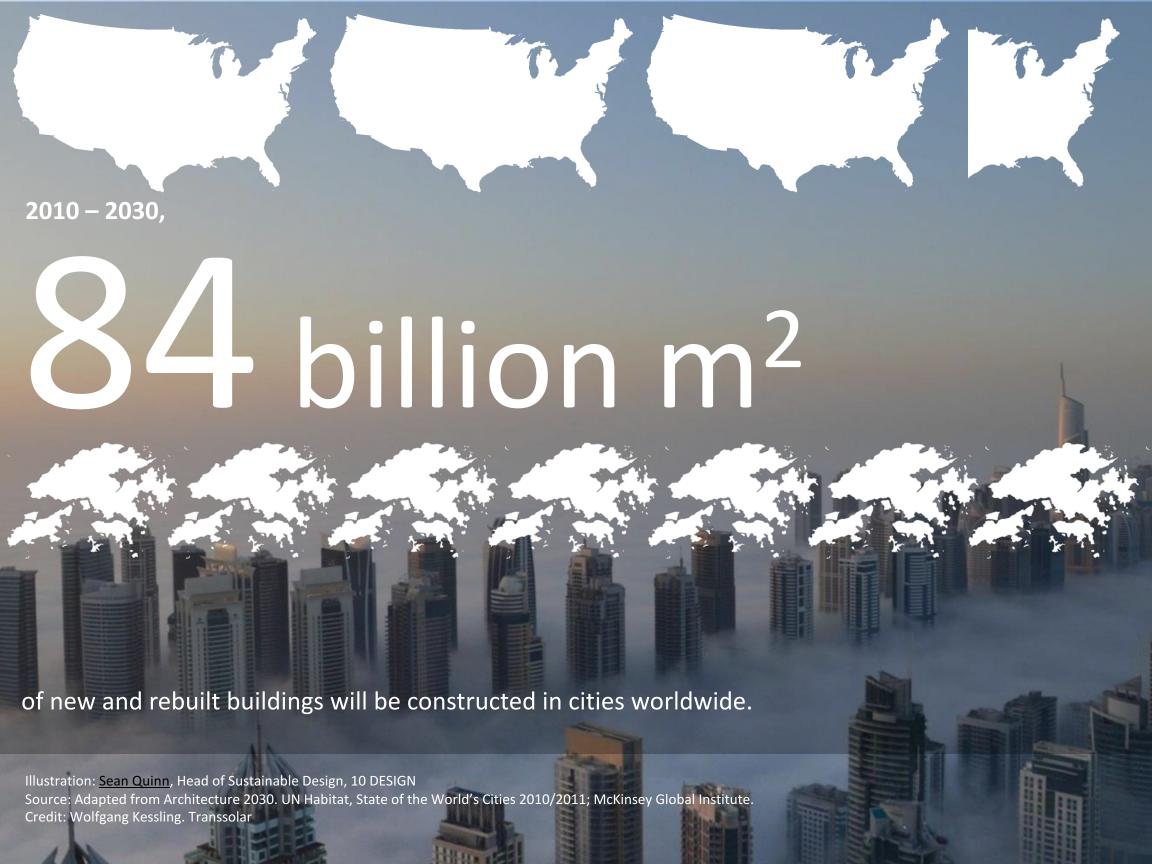


Source: Bureau of Economic Analysis; Centers for Medicare and Medicaid Services; Haver Analytics; McKinsey analysis









WEF: Global attention

Sustainable Development Goals



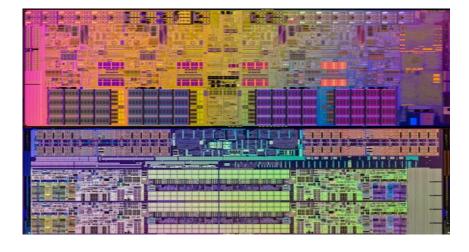
Source: UN https://sustainabledevelopment.un.org/sdgs

Digital Transformation: we've seen it before

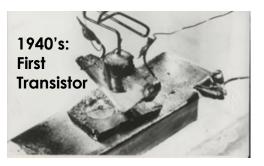




2015: 5.6BN transistors



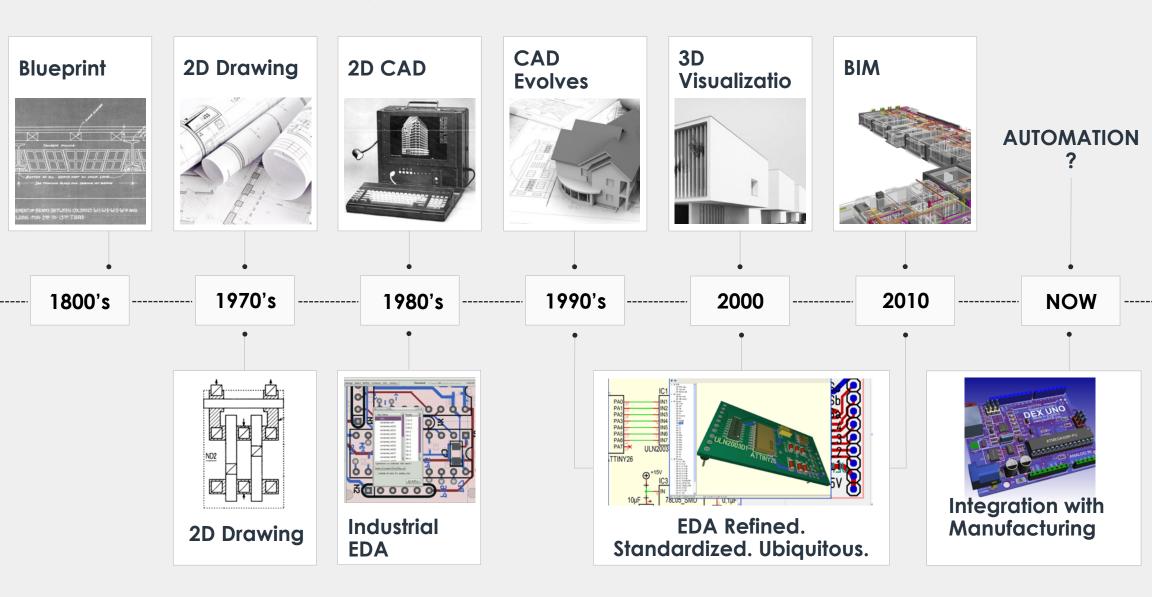
Electronic
Design
Automation
(EDA)



- Simulation & Optimization
- Rule based Design Synthesis
- Analysis & Verification
- Design linked directly to Manufacturing & Supply Chain



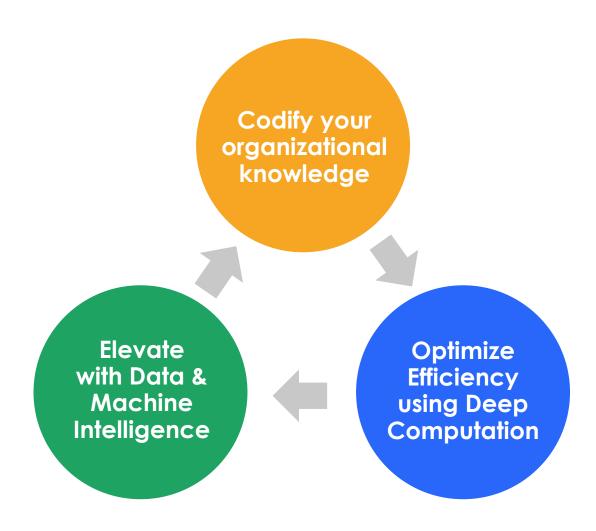
Architecture, Engineering, Construction



SEMI-CONDUCTORS

12

The Digital Transformation





What is at the core of our digitization?

3D Objects arranged by Spatial Rules using Computation

Reusable Libraries

Design directly integrated with Supply Chain & Fabrication



The Product: (Objects + Rules) Applied

Applications



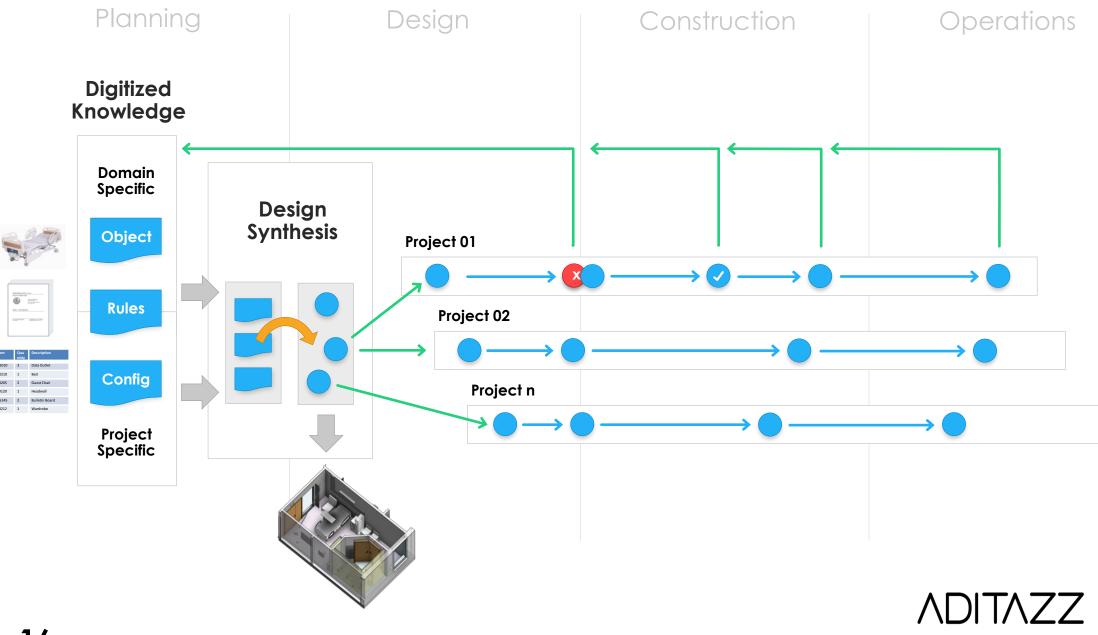
Aditazz Middleware (Objects, Rules, Configuration)



Aditazz Core Software (Simulation, Optimization, Spatial Arrangement etc.)

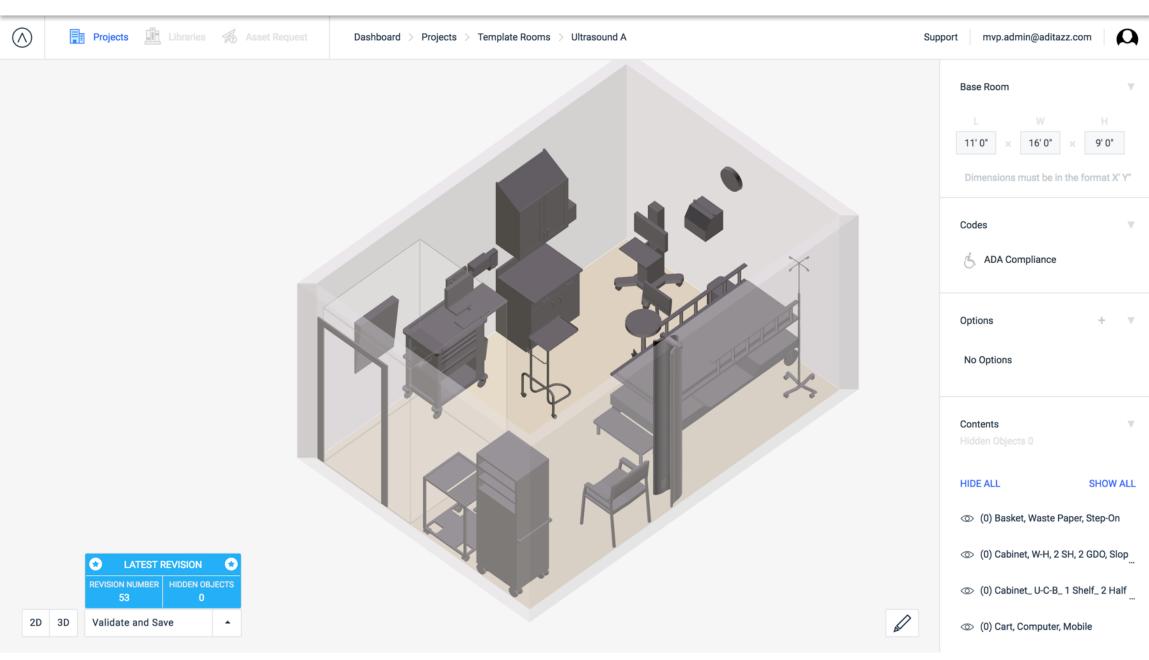


The Aditazz Design Synthesis Application



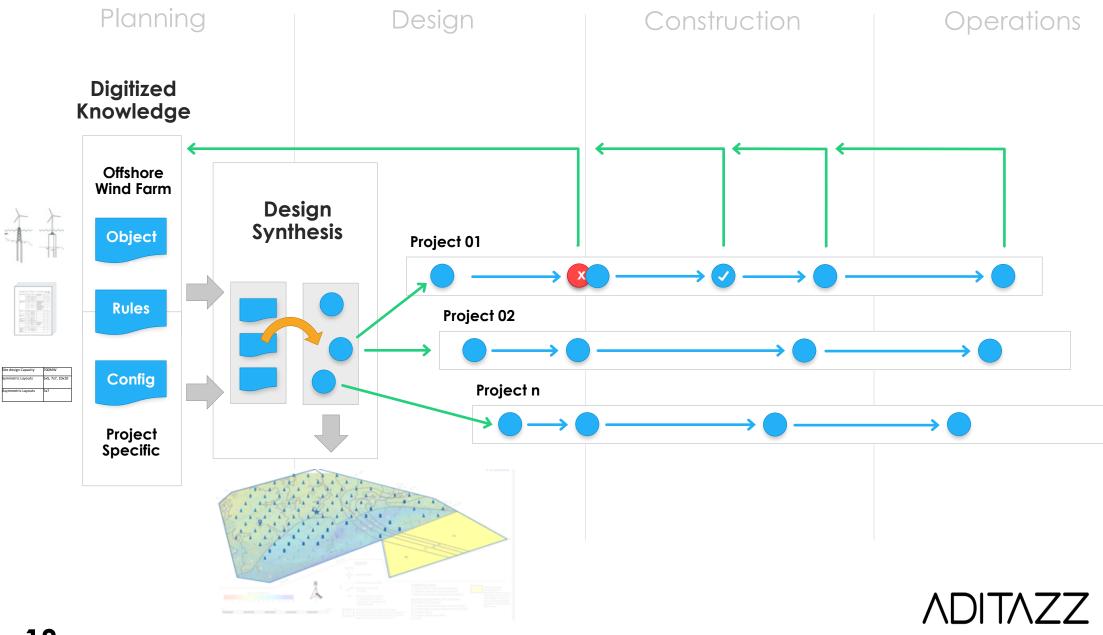
PROPRIETARY

Objects & Rules: Healthcare Room



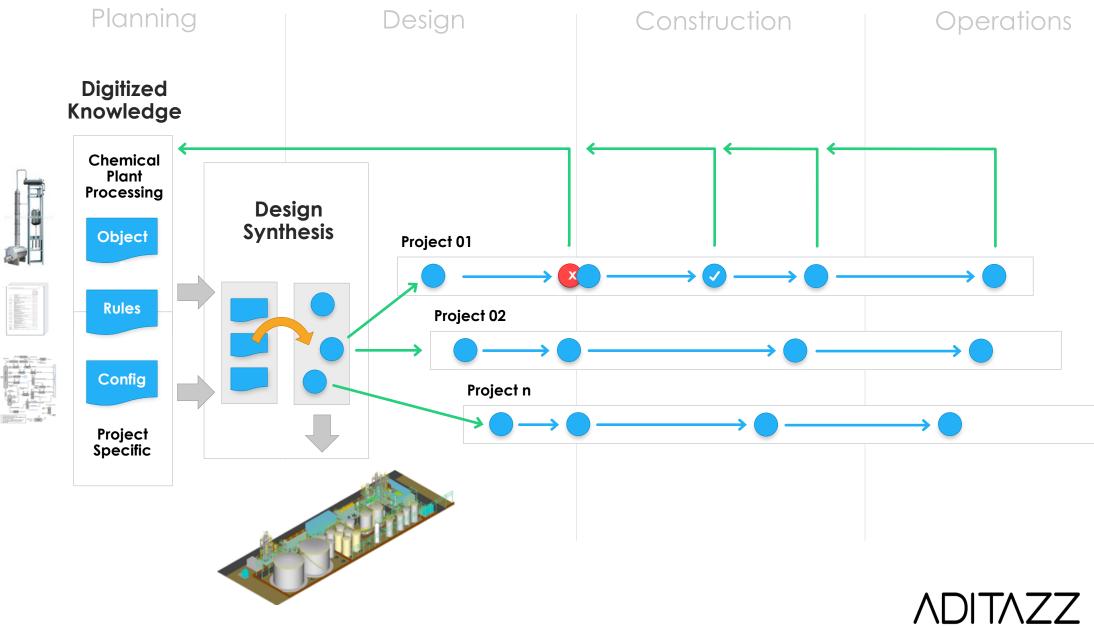


The Aditazz Design Synthesis Application



PROPRIETARY

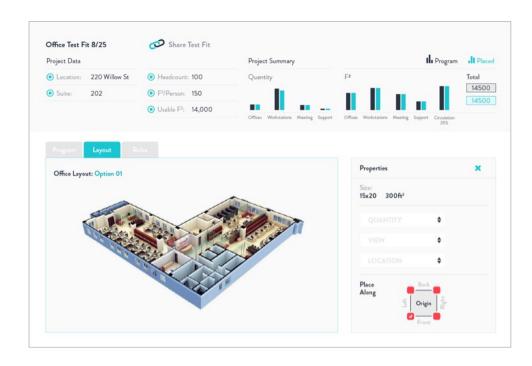
The Aditazz Design Synthesis Application

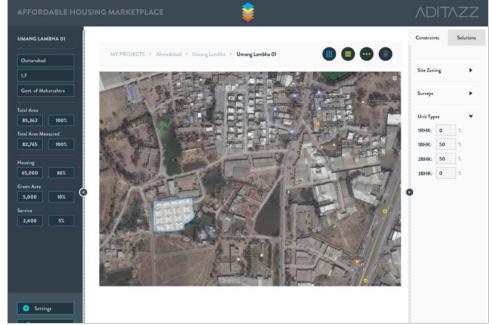


PROPRIETARY

Test Fit and Site Fit Application

Plan, design & deliver your requirements quicker & at lower cost

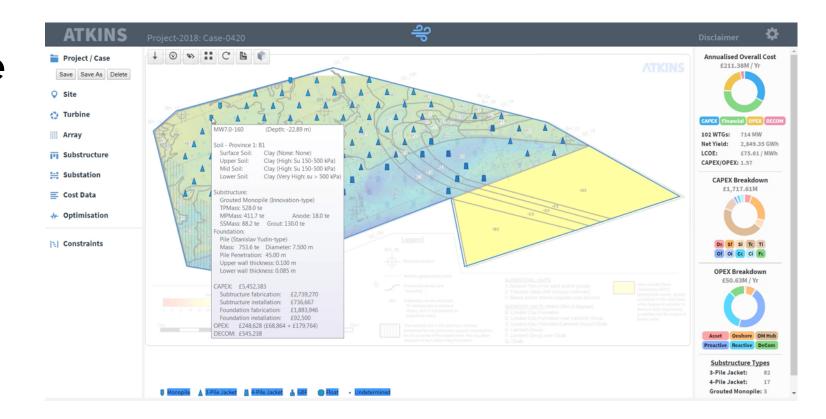






Offshore Wind Energy Application

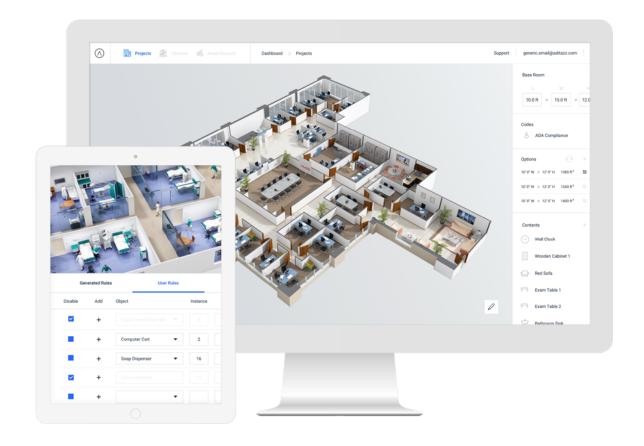
An innovative new tool developed by Aditazz with Atkins





Your Application on our Platform

Create transformative software applications to meet unique customer needs leveraging the Aditazz platform





Aditazz Software Enables

Capture and Reuse Knowledge

Capture, improve and reuse institutional knowledge: across projects and throughout the organization.

Improved Margins for Service Providers

Use deep computational power to optimize designs and eliminate human error which improves efficiency, quality and reduces cost.

Faster, Cheaper and with higher quality for Owners

This allows for new business models by offering strategic client services.



Summary

- Aditazz has developed a technology platform to digitally transform the built environment
- No line drawings, Objects & Rules instead
- Demonstrated on projects worldwide
- Libraries & rules codify organizational knowledge;
 Optimize its application; and Elevates services for clients
- Agile development is fundamental to working with us



THANK YOU!

Deepak Aatresh http://www.aditazz.com

