

The Future of Making Things - Infrastructure Creating the Digital Mirror of the Physical World



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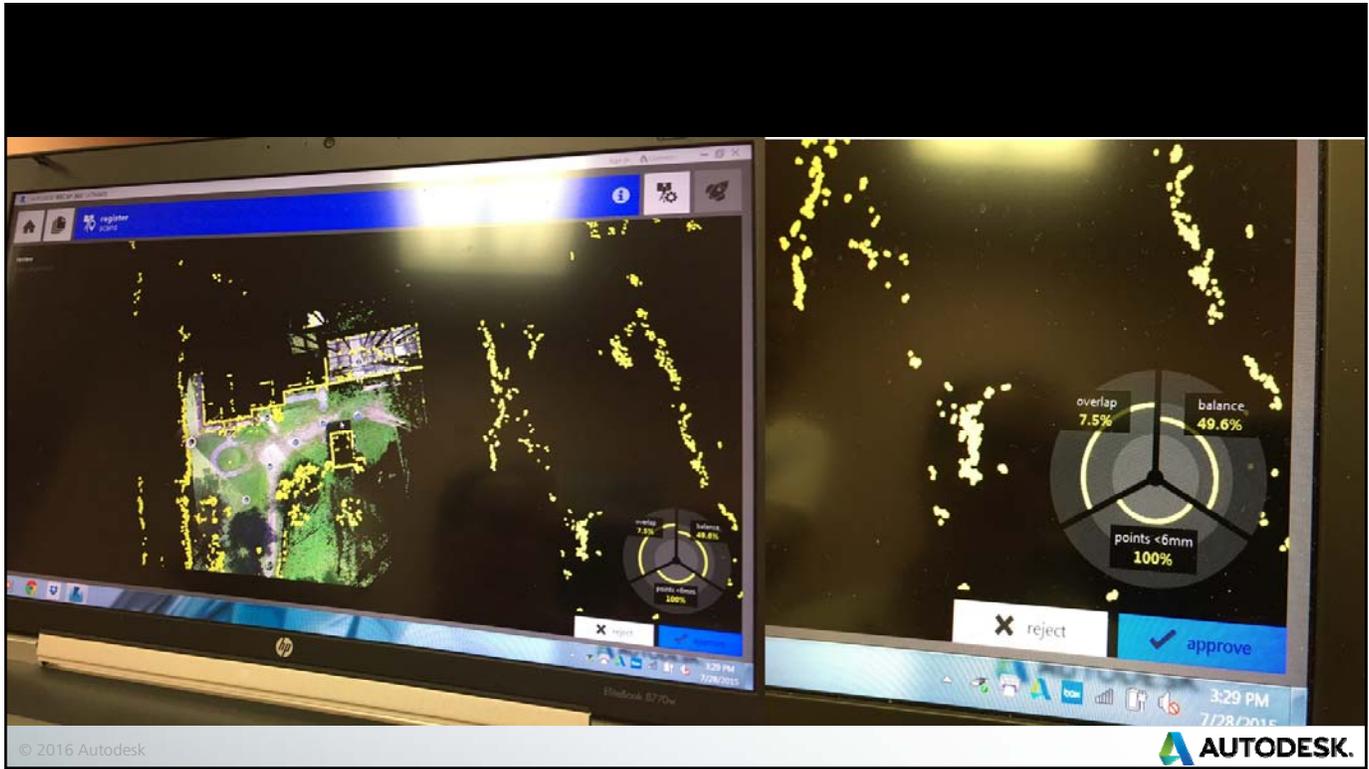




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Marriage of Technology & Human Ambition



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Nature of Disruptions



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Intellectual Production



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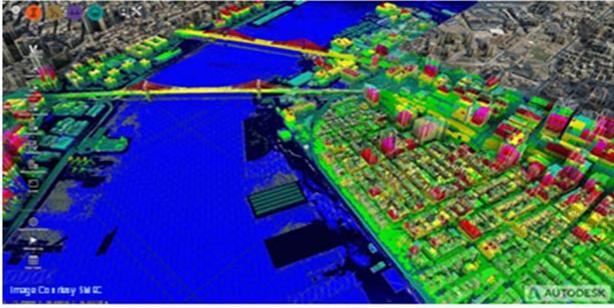


Physical Production

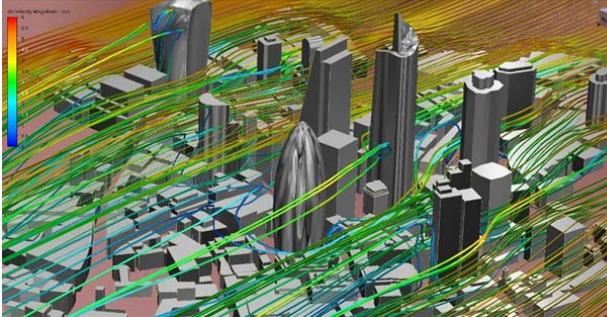




Demand



Products



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IMPLICATIONS OF DISRUPTION



MANAGING DISRUPTION

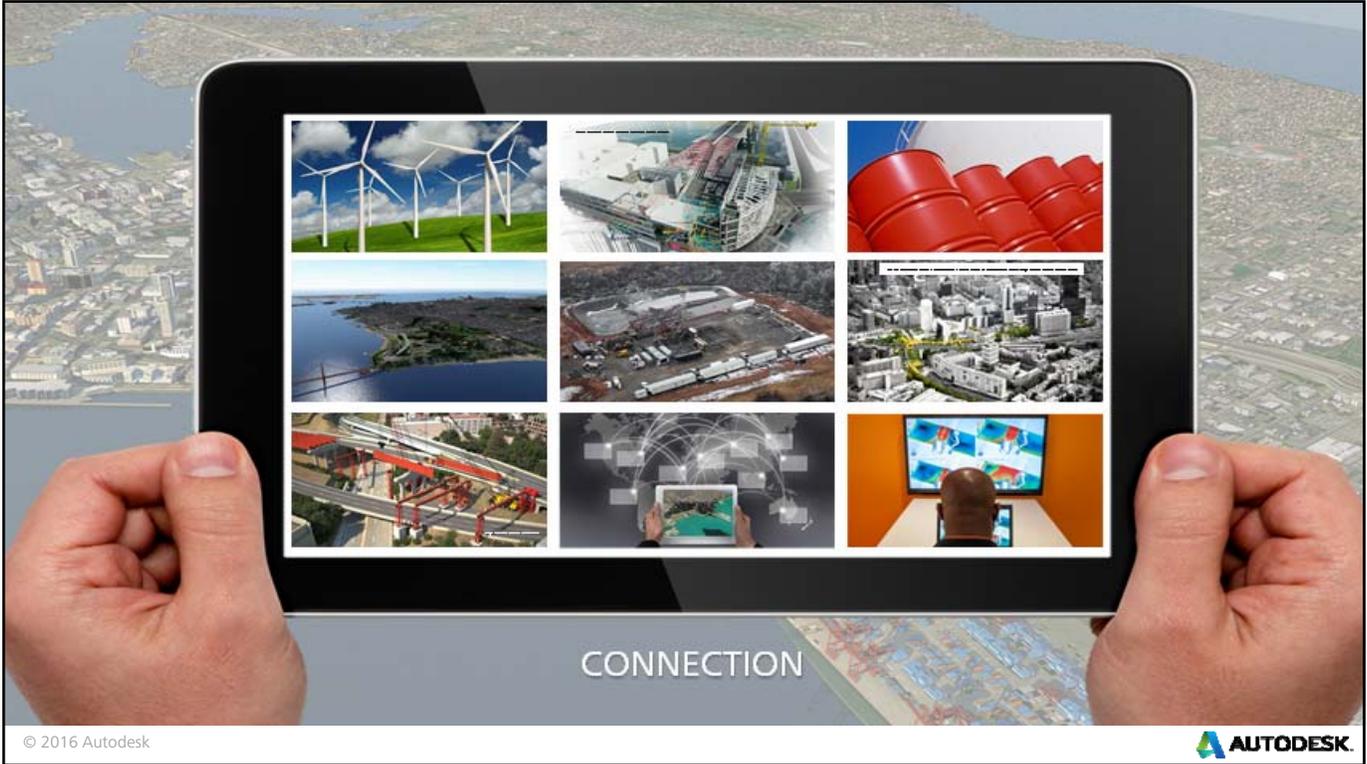


DOCUMENTATION



OPTIMIZATION





Next Generation BIM

Reality Computing (Big Data)

In Context Large Scale Modeling

Simulation, Visualization, & Analysis

Complexity & Uniqueness no longer have a cost premium!

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Physical to Digital – No Drama Modeling

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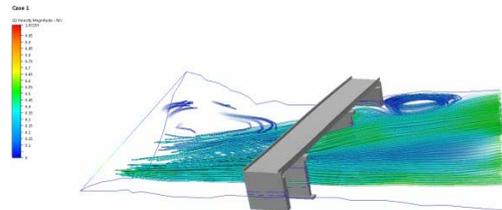
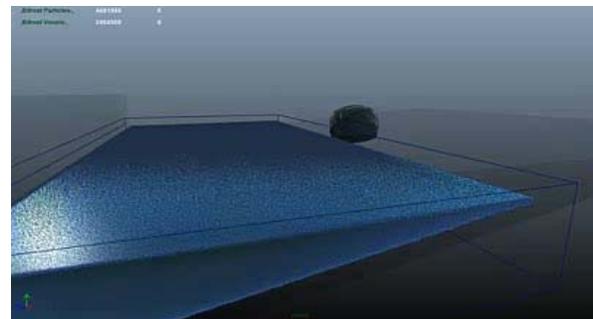
Redefining Teams & Work



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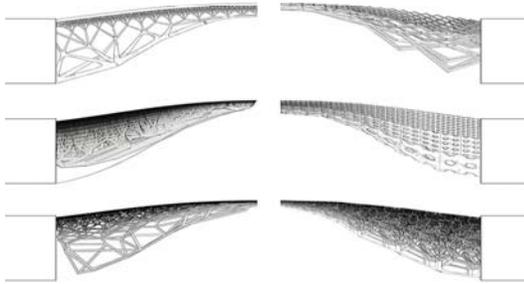
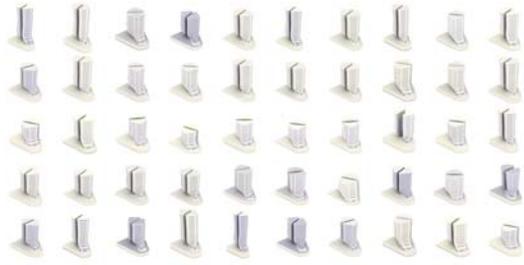
Optimized Designs + Real Time Analytics via Big Data



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Generative Design + 3D Printing + Era of Connection

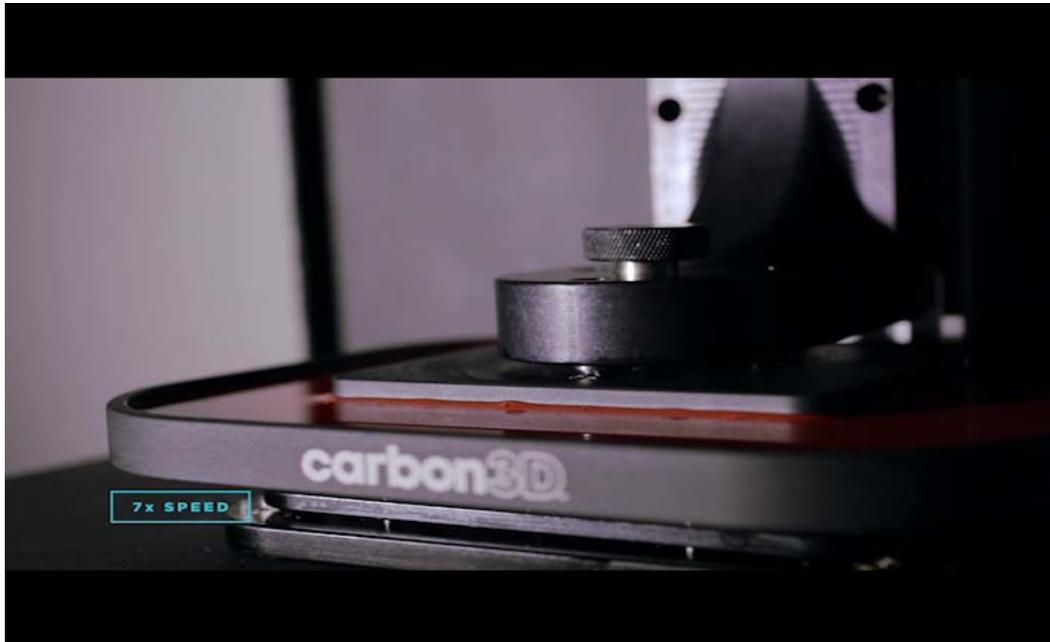


= Construction becoming AEC Manufacturing

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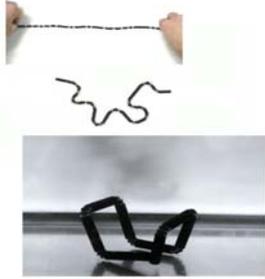
4D Printing + Programmable Materials



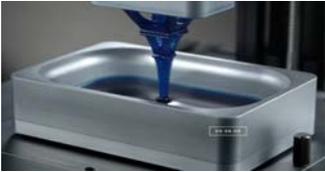
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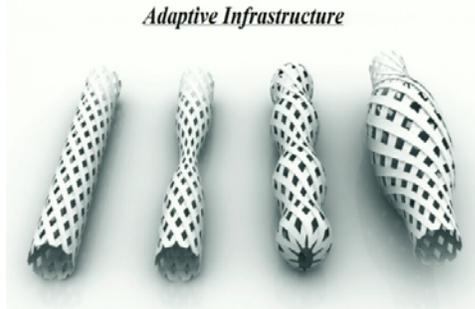
Next Disruption?



New Materials - Programmable Matter



Generative Design +
Goal Directed Design +
4D Printing



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Thank You!

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