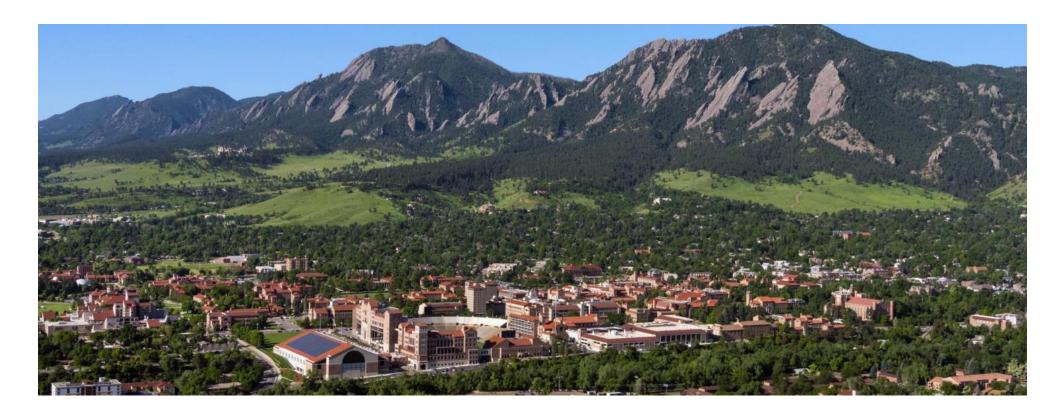
SMART Building Consulting

SBIoT

November 9th, 2018

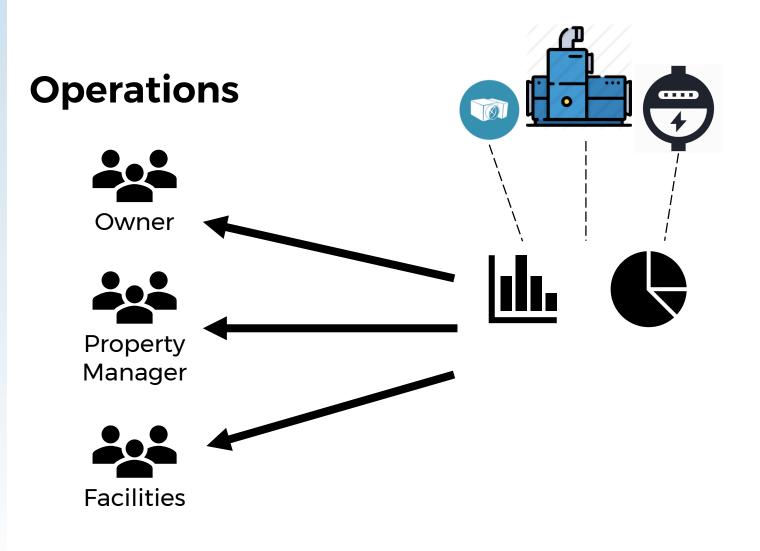
Background





M.S. Architectural Engineering – Building Systems (Aug. 2017) Gregor Henze

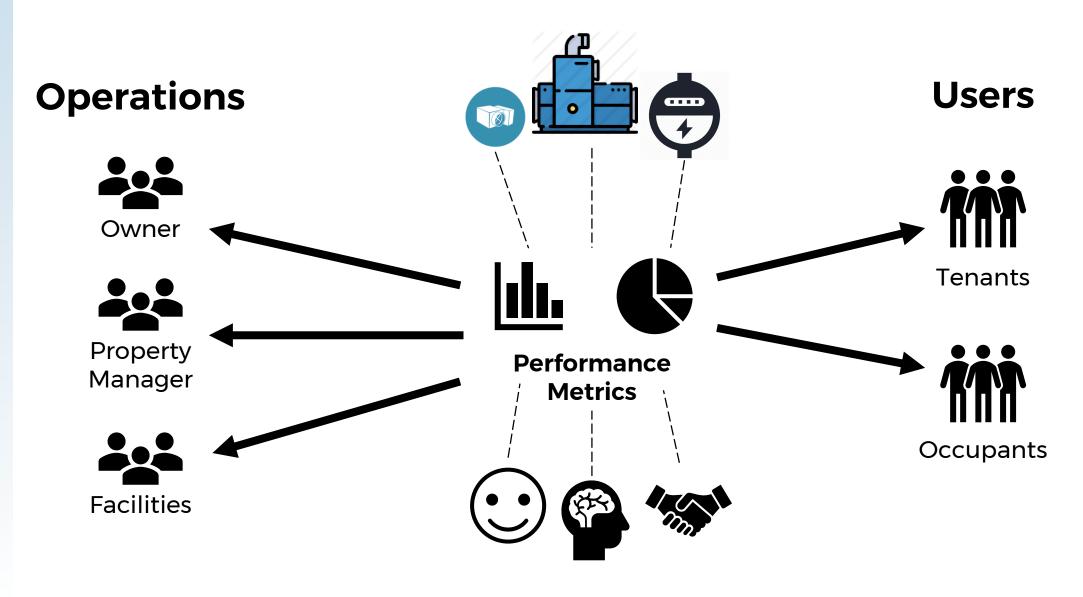
Building Performance Evaluation



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Building Performance Evaluation

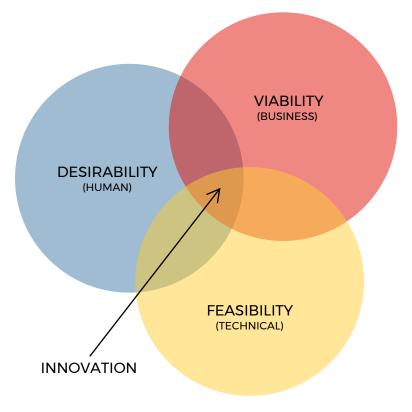


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Our SMART Mission

- Develop expertise in digital consulting and delivery
- Research and test data-driven solutions for the built environment (HANDS ON!)
- Nurture a culture of crossdisciplinary thinking

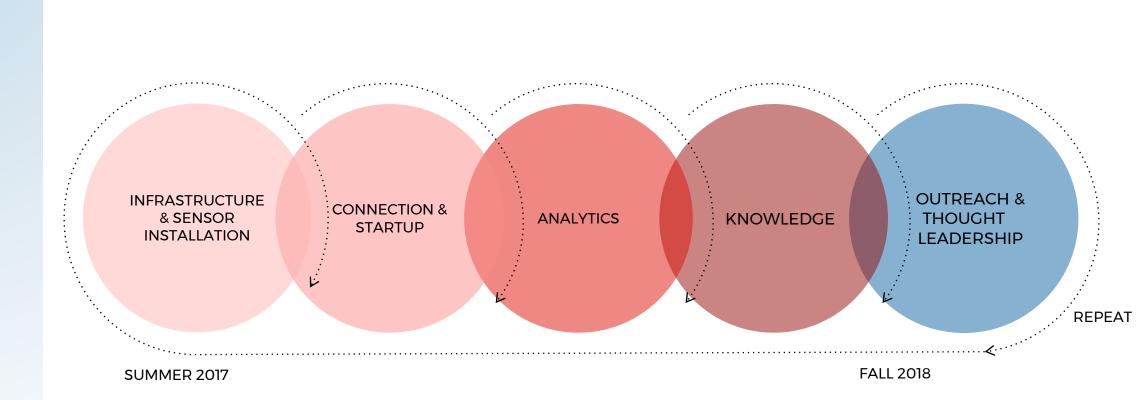


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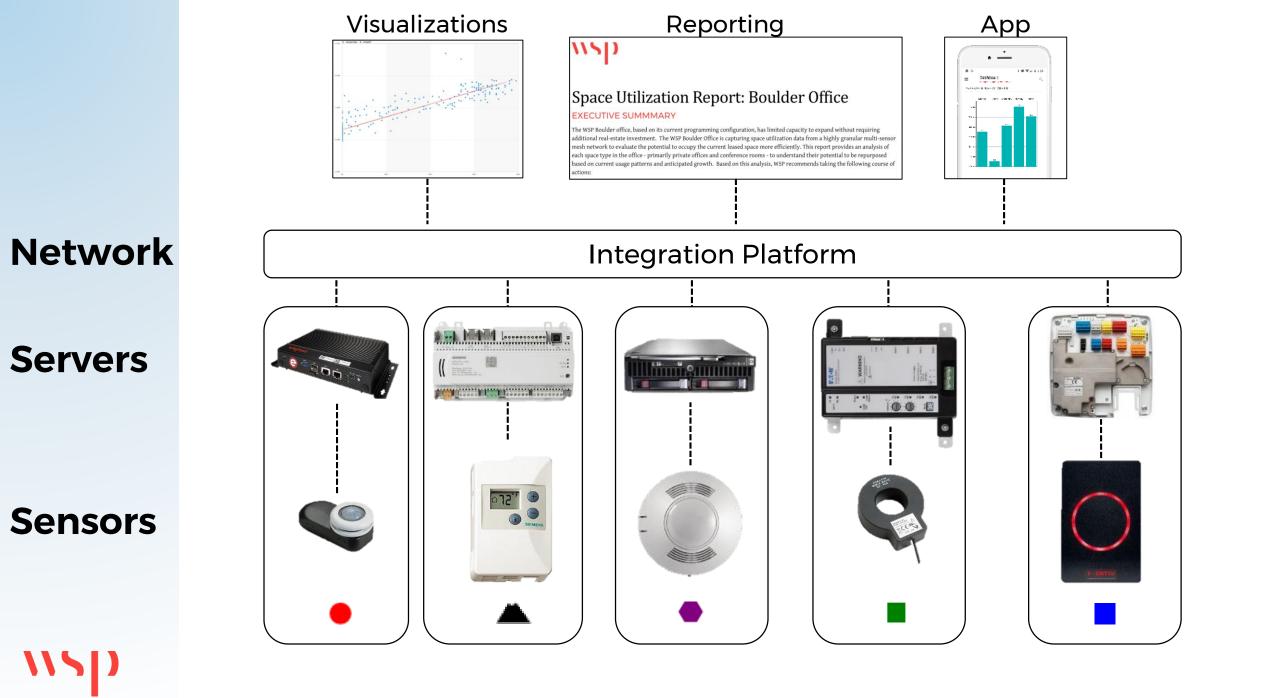
ThinkBOLDR INNOVATION CENTER

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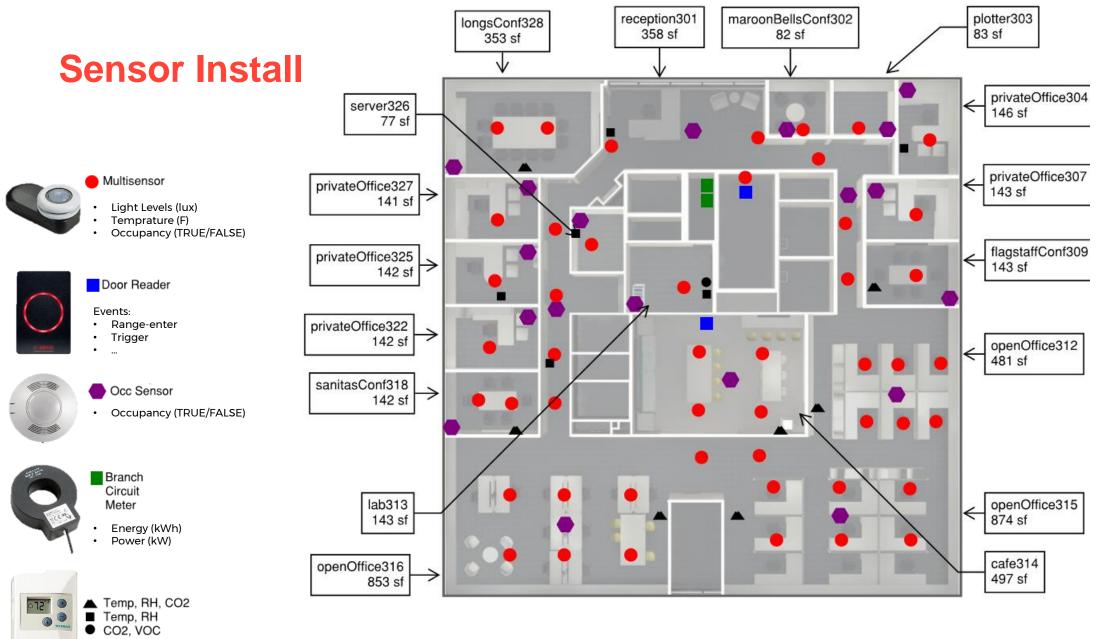
ThinkBOLDR Lab Timeline



wsp





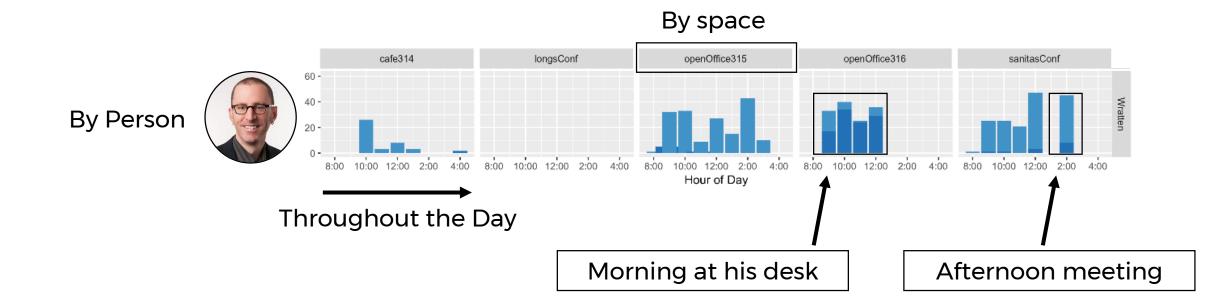


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What can we actually learn from it?



Where do employees spend their time?



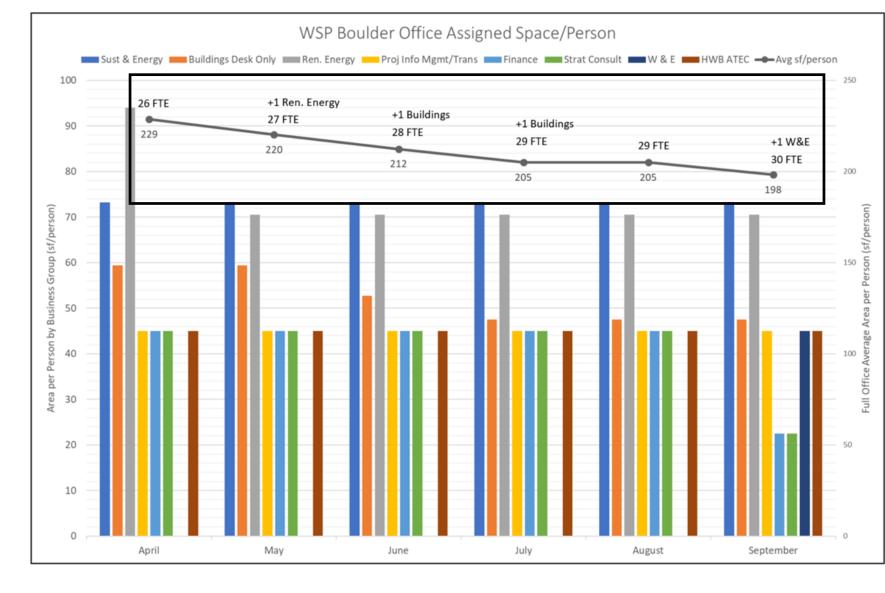
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Traditional space planning

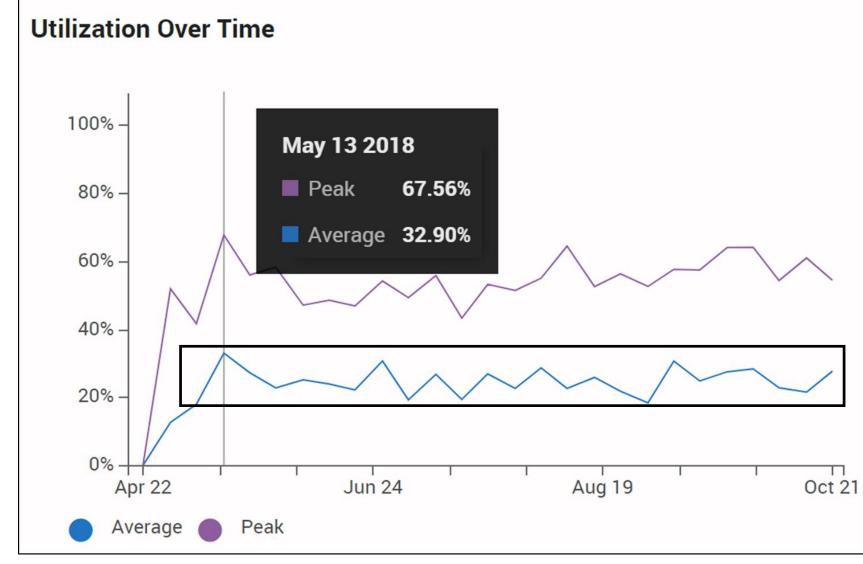
Space allocation per person decreases from:

229 sf/person 198 sf/person

over the previous 6 months.

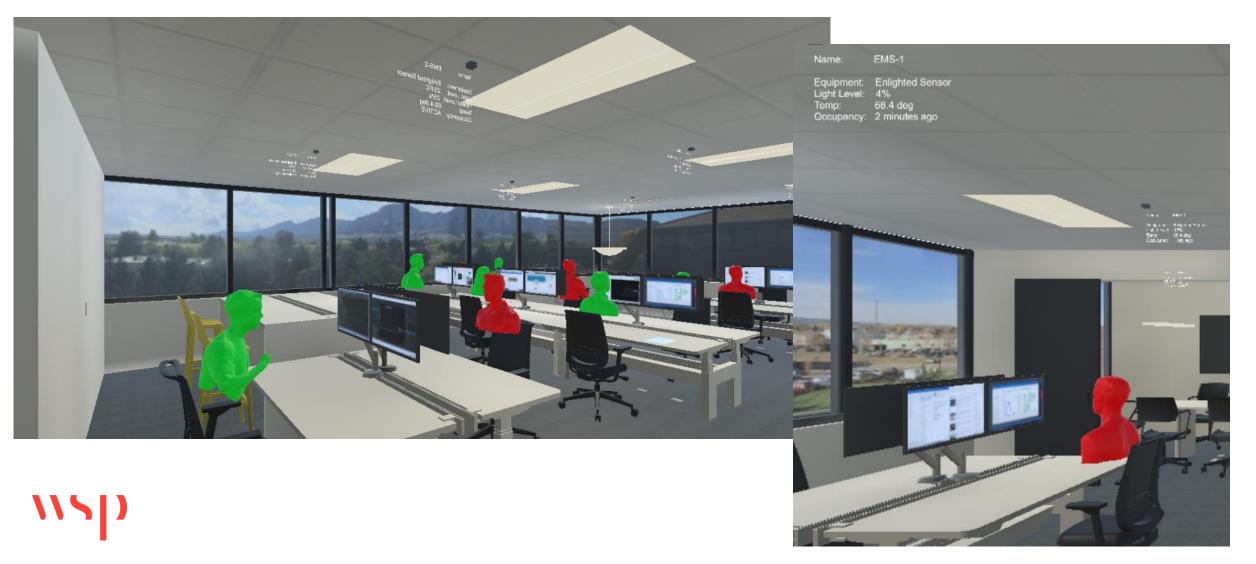


Data driven space planning

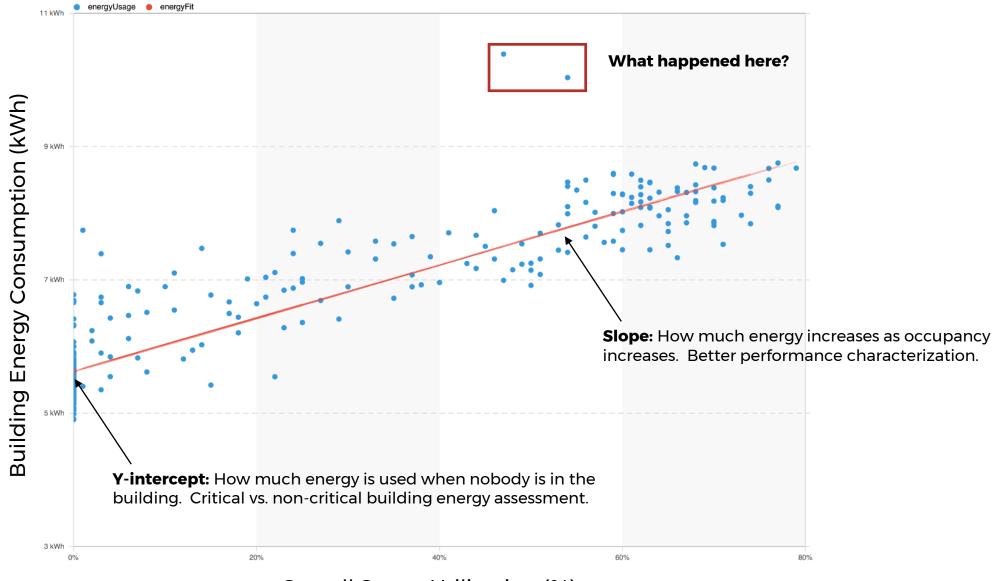


Utilization remains consistent.

Data Driven Facilities Management

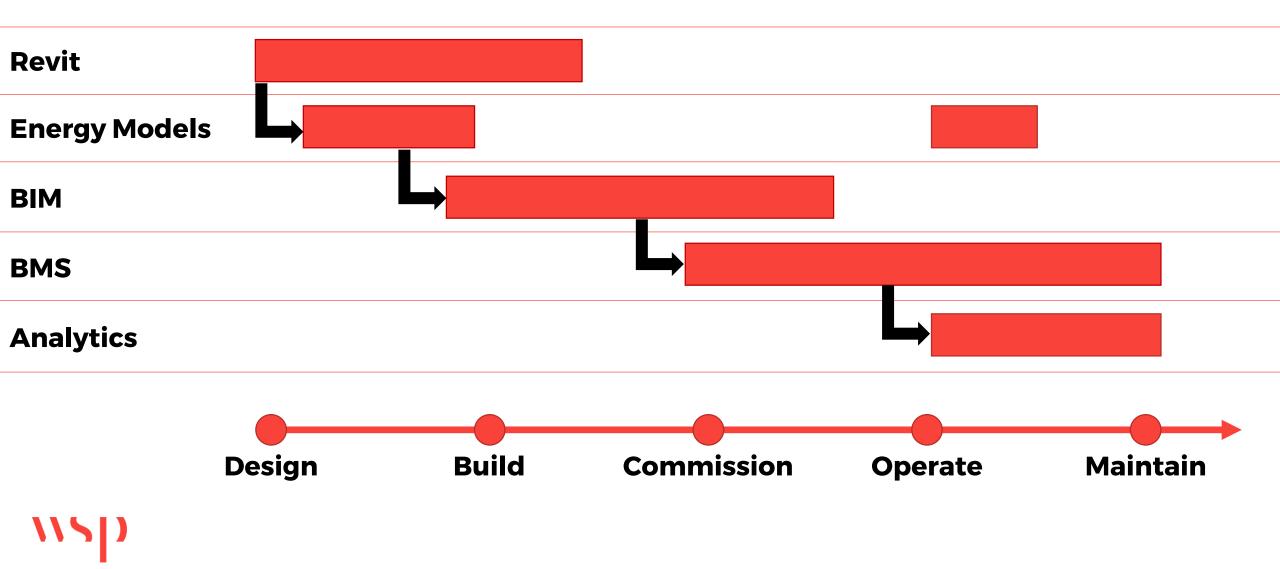


EUI the best we can do?

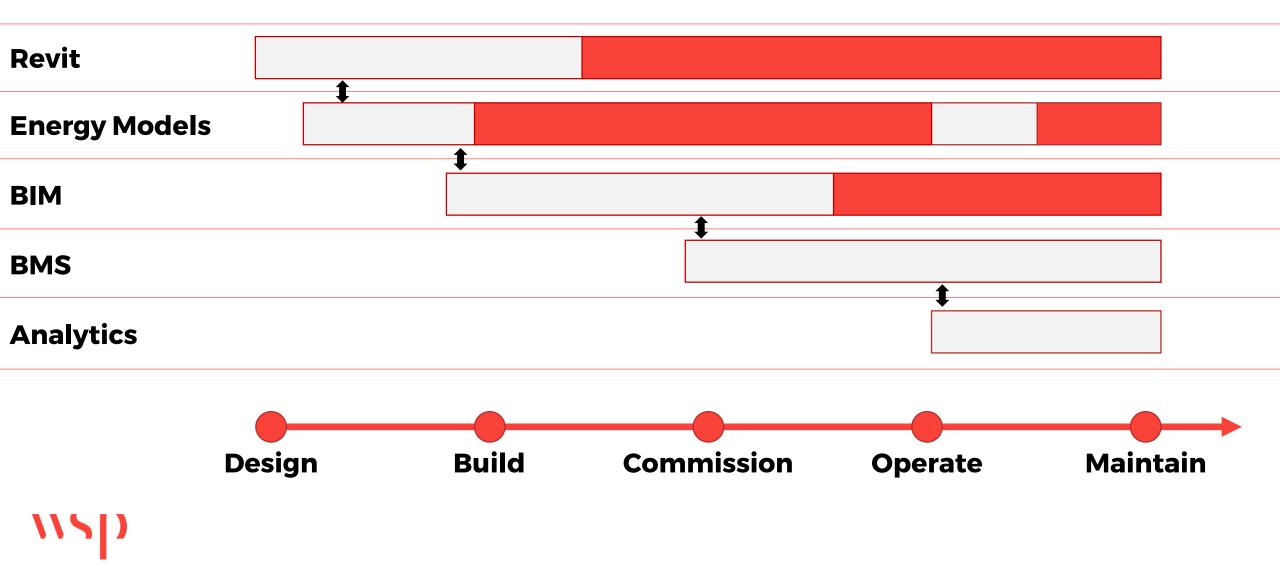


Overall Space Utilization (%)

Next Steps - Tool Lifecycle



Next Steps - Tool Lifecycle



Key Takeaways

- The power of show and tell brainstorm (with developers)!!!
- SMART Building Consulting = Architectural Engineering + Network Engineering + Software Architecture + Data Analysis...?
- Consulting Engineers need to be doing R&D and gain hands-on experience with IoT

Questions?



Cory Mosiman

NSD