CONFIDENCE CEAIRVOYANCE

The Expanding Role of Information in Architecture

AlA Technology in Architectural Practice Building Connections Congress 2019 Kyle Martin, Assoc. AlA Digital Design Manager, Gensler

CONFIDENCE

 history of intuition & trust in Architecture

the world is increasingly transparent

 design validation provides confidence in proposed design solutions

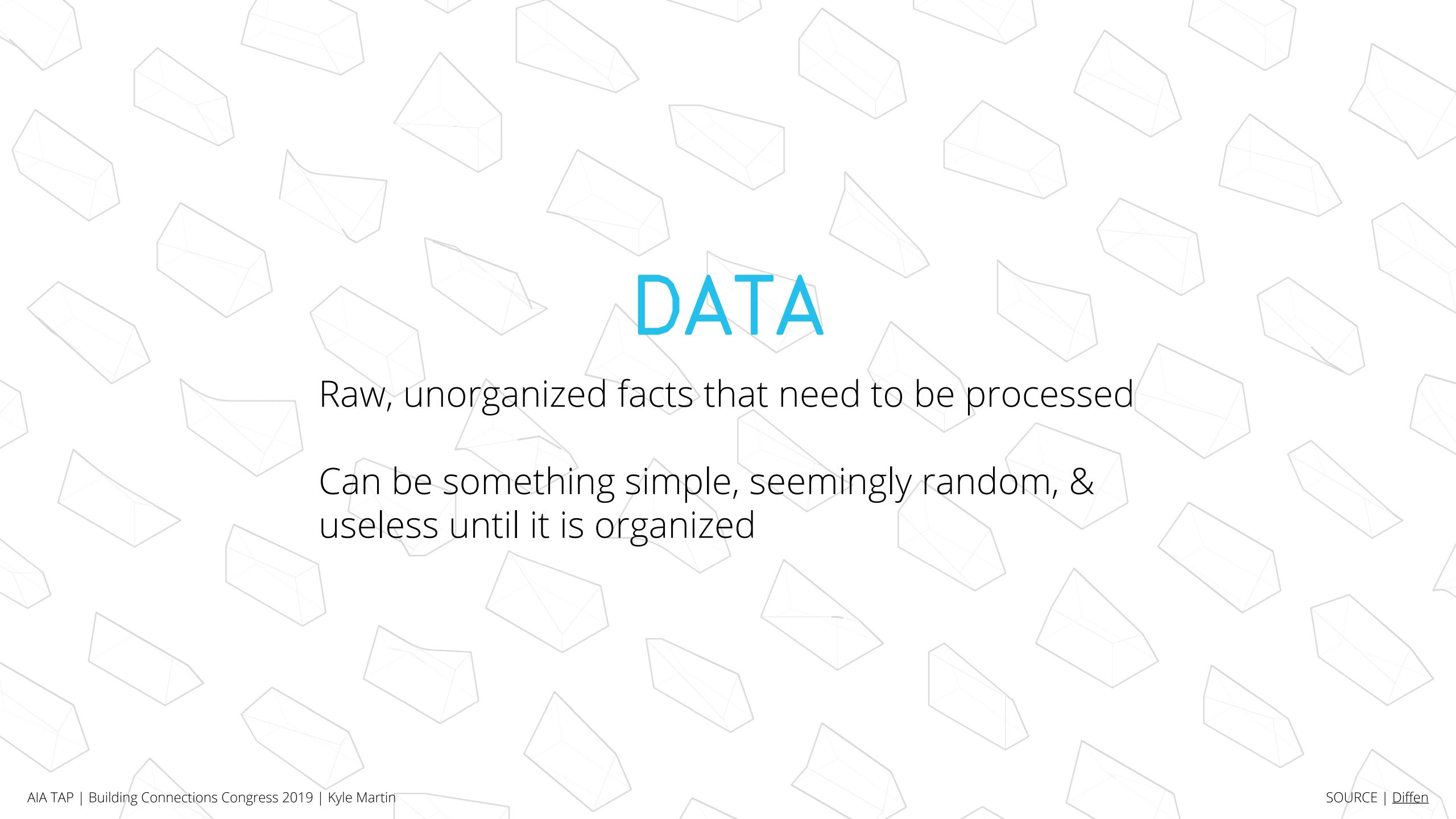
 clear & effective communication of design instills confidence & trust with clients

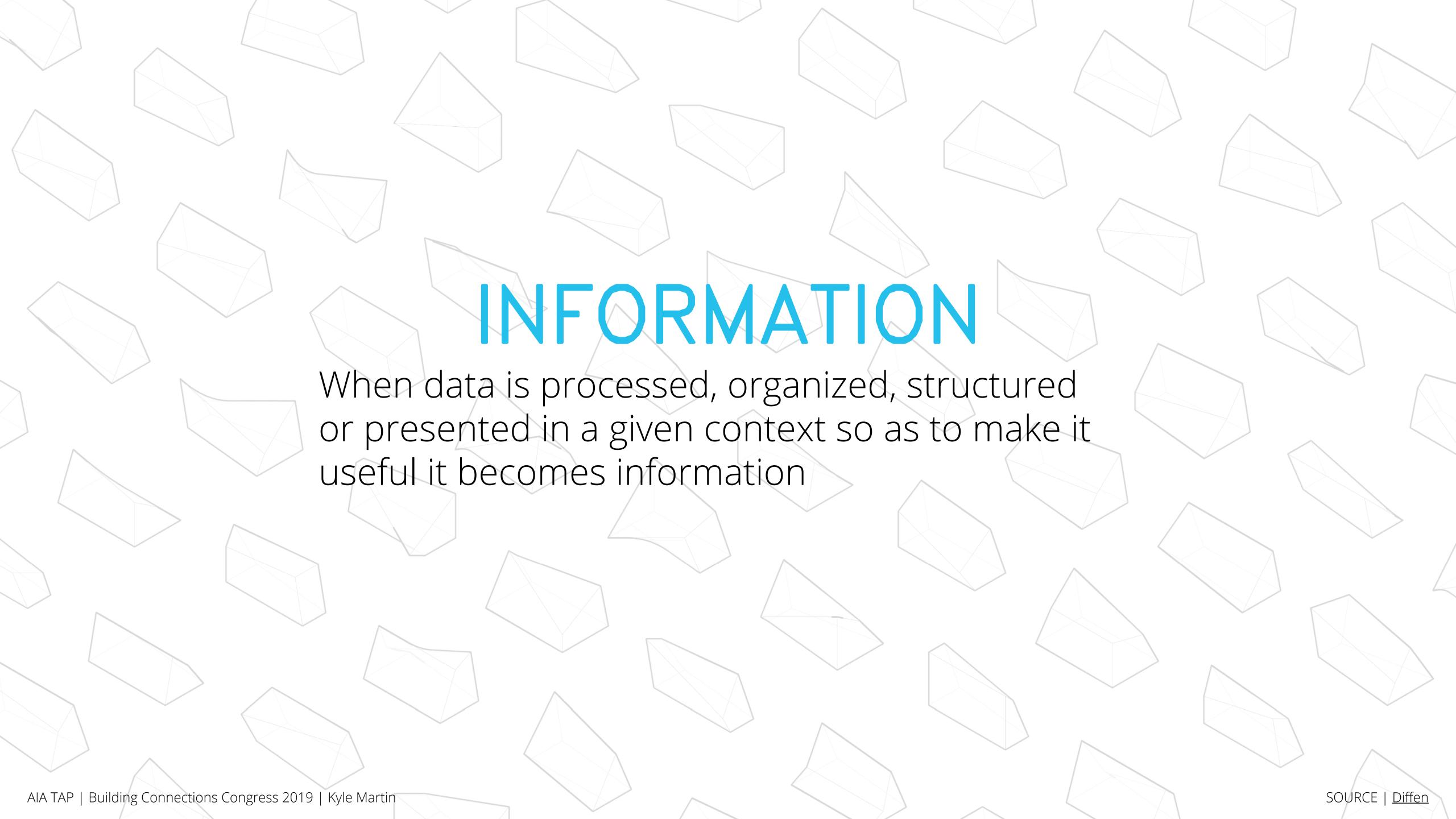


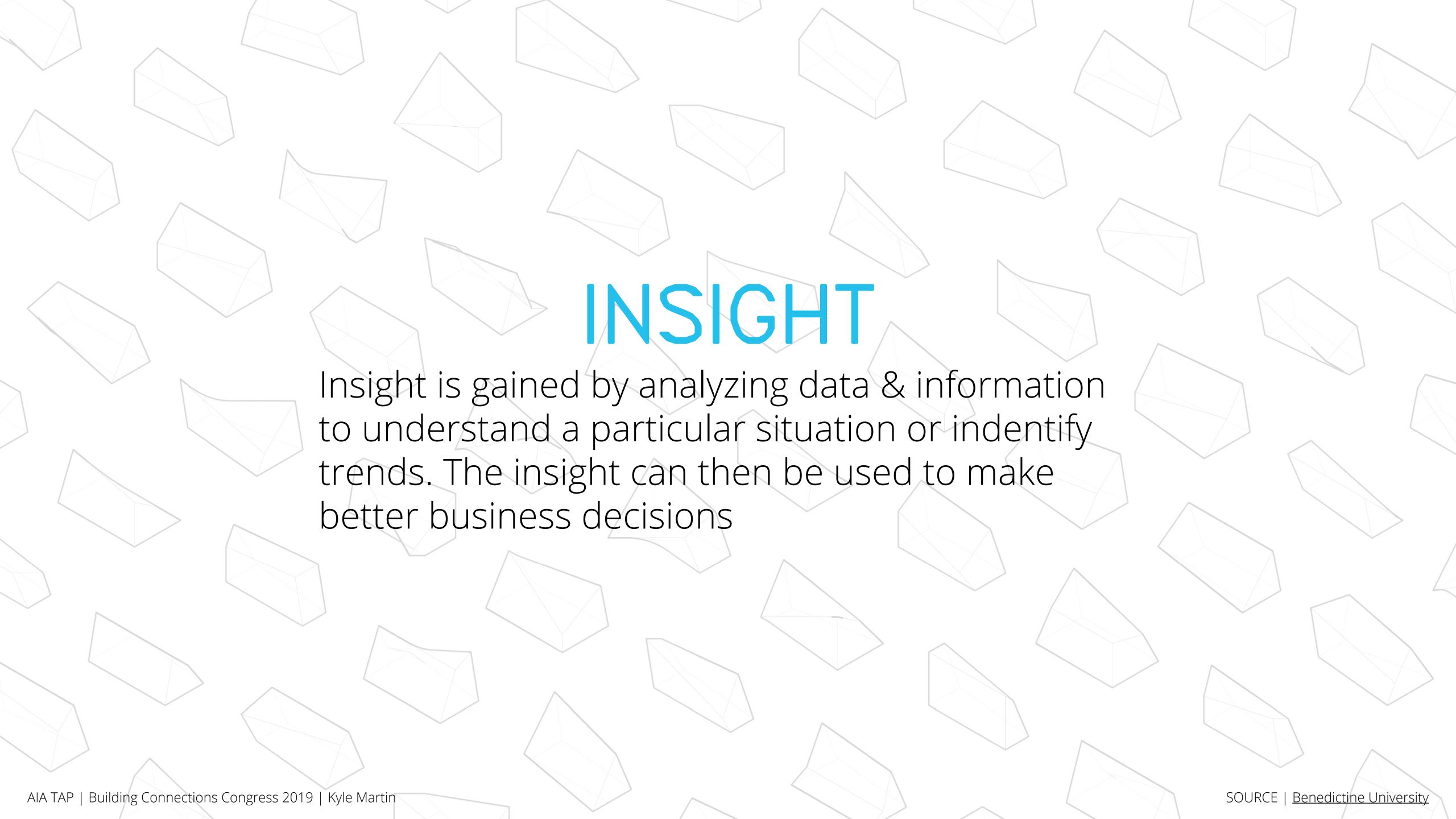
CLAIRVOYANCE

- the creative process of design is often mysterious to the general public
- to Architects, collecting & processing data into useful information is even more mystical
- information has the power to improve communication & story telling
- increasing design understanding & justifying why & how decisions are made









ABOUT ME

CURRENT:

 Digital Design manager
 Gensler - Boston, MA

PREVIOUS EXPERIENCE:
 VDC Specialist
 Tocci Building Co. - Woburn, MA

Architecture & Application Support Shepley Bulfinch - Boston, MA

Intern Architect CBT Architects - Boston, MA

EDUCATION:
 M.Arch, 2015
 Boston Architectural College



ABOUT ME

• COMMUNITY:

Dynamo-litia Boston ENCODE(Boston) beyondAEC Hackathon Design Tech Throwdown at ABX

• SPEAKING & TEACHING:

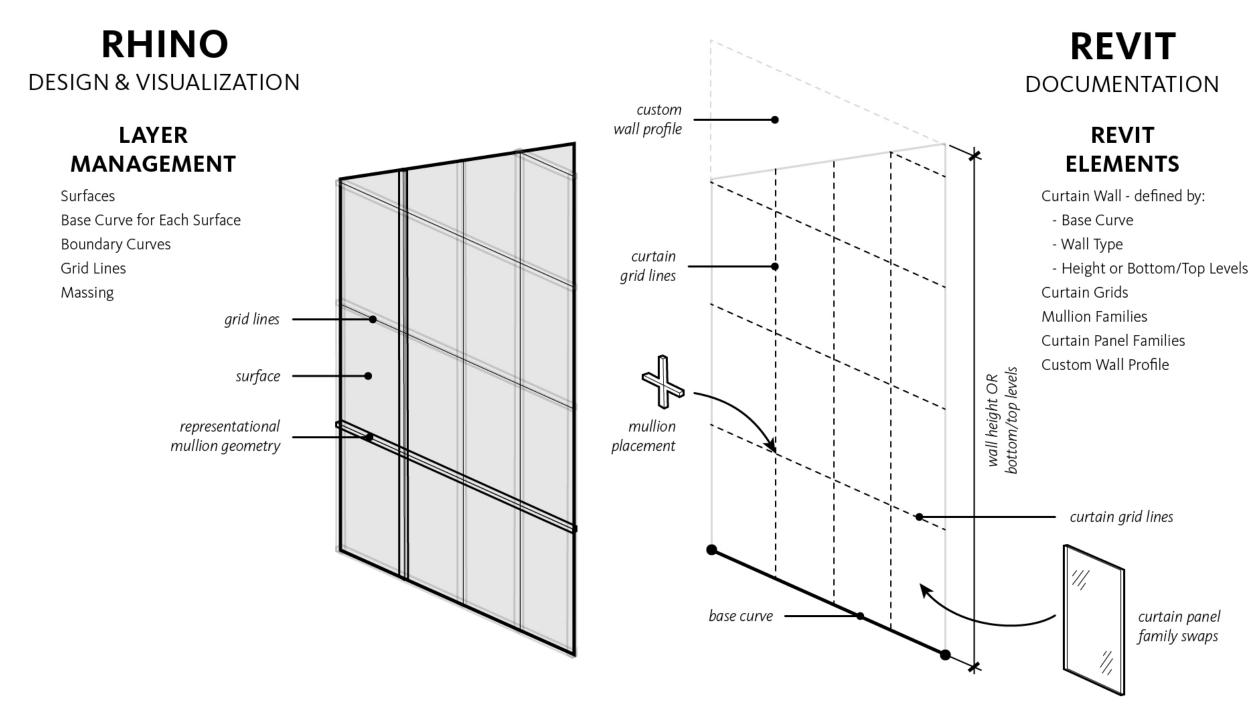
Boston Architectural College Autodesk University BiLT NA various Dynamo User Groups TT AEC Tech Hackathon



INTERNAL

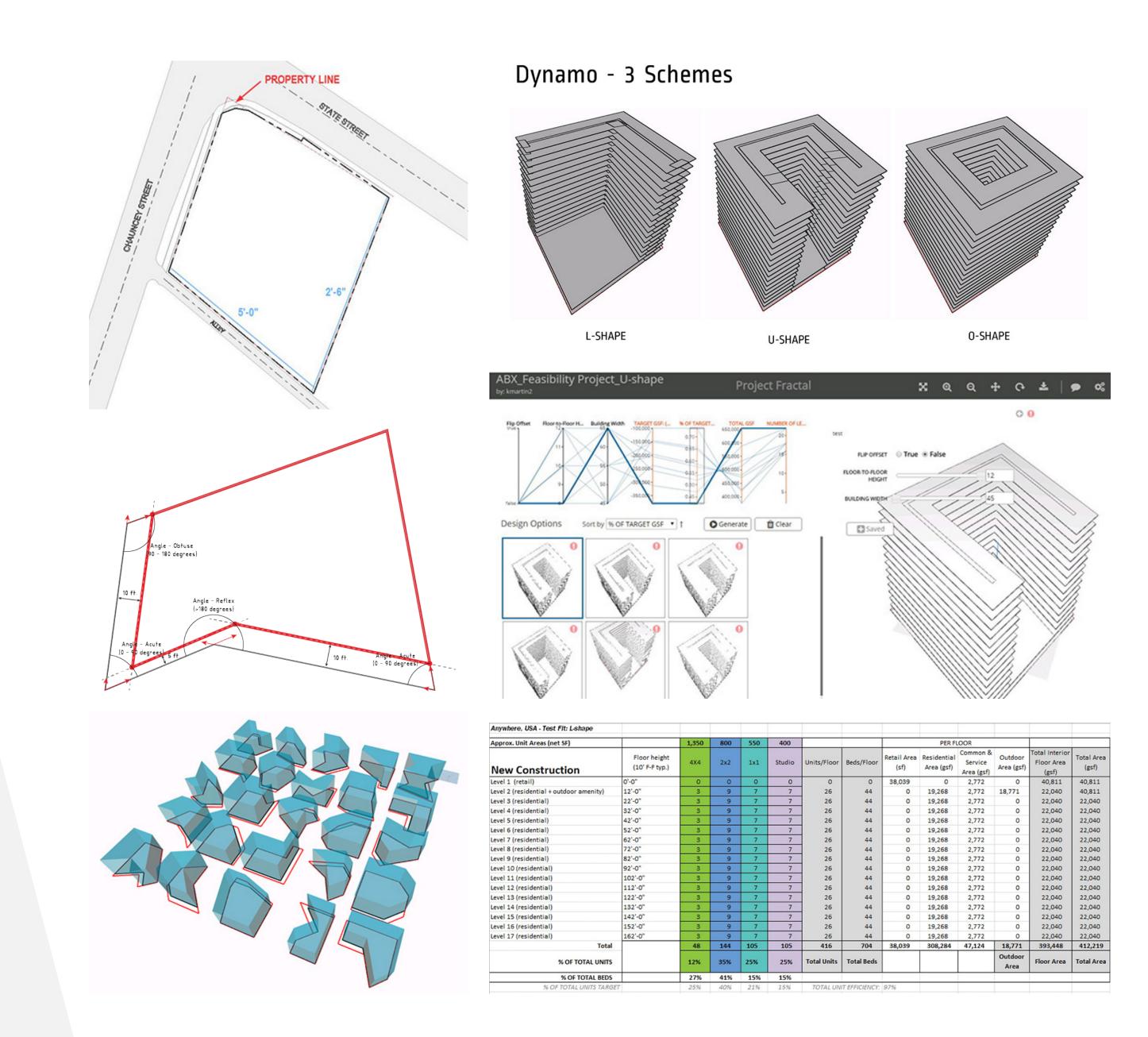
- collecting Revit model metrics
 across projects for indication of
 performance, routine maintenance,
 & staff modeling tendencies
- capturing data exhaust that can later be utilized to streamline the design process
- interoperability between disparate software platforms





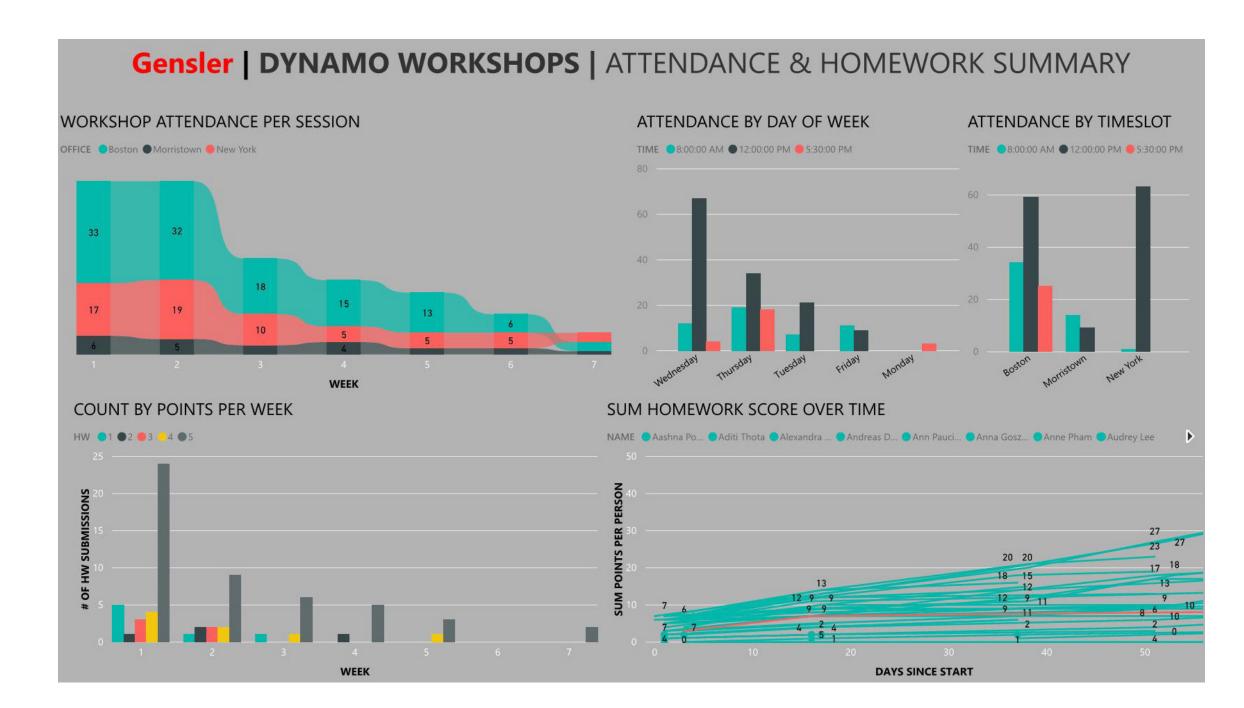
INTERNAL

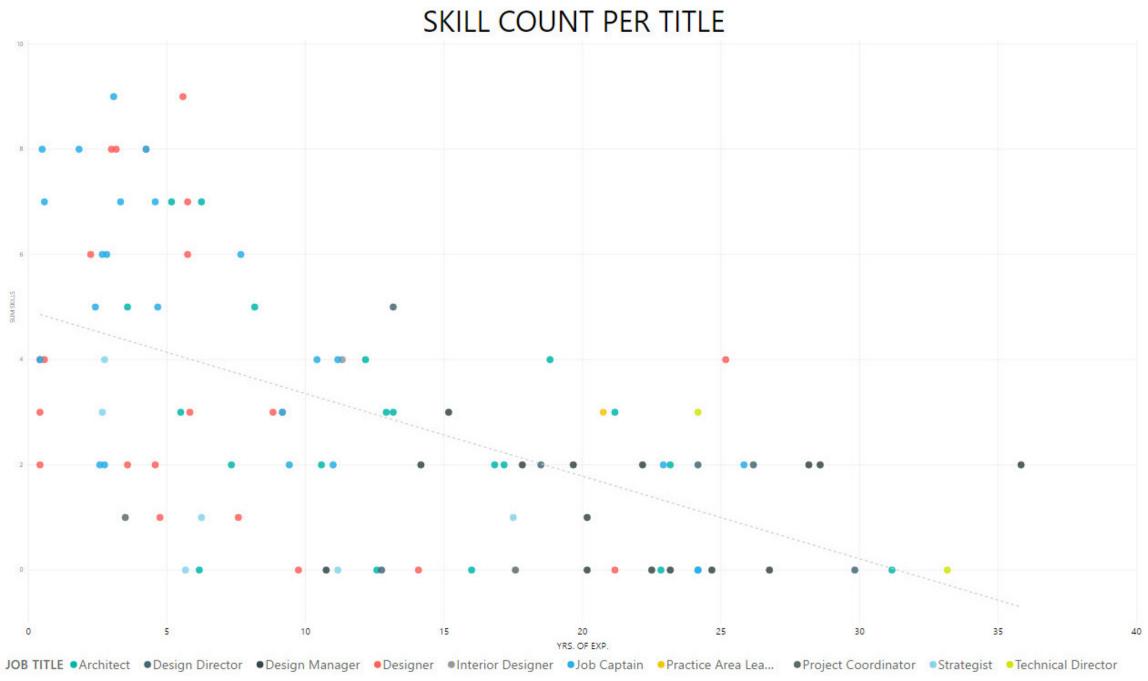
- incorporating tools like generative design & environmental simulation to increase efficiency & accuracy
- demonstrating expertise through the validation of design solutions
- demystifying design by using information & technology to provide a deeper understanding of the design process



INTERNAL

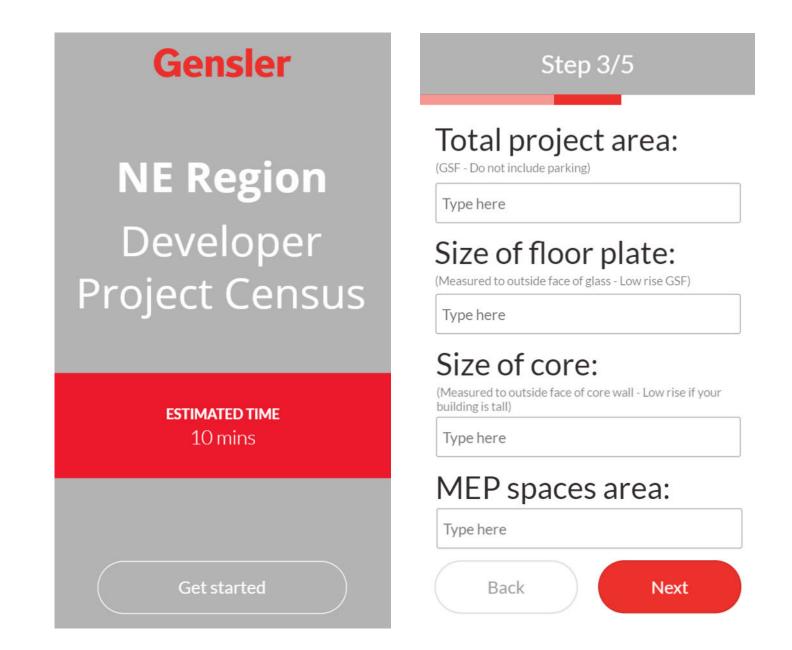
- information is not just used for project work but helps improve the business side of the practice
- consistent awareness of skill composition helps inform training & implementation of software across the office



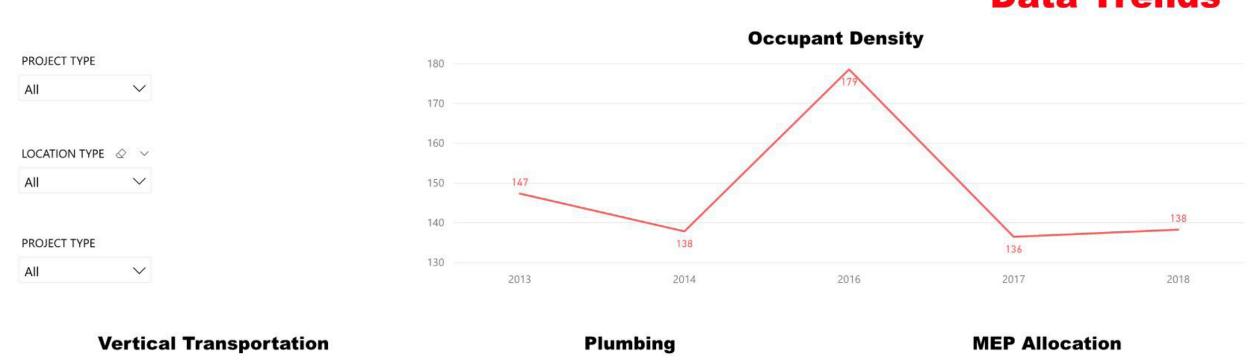


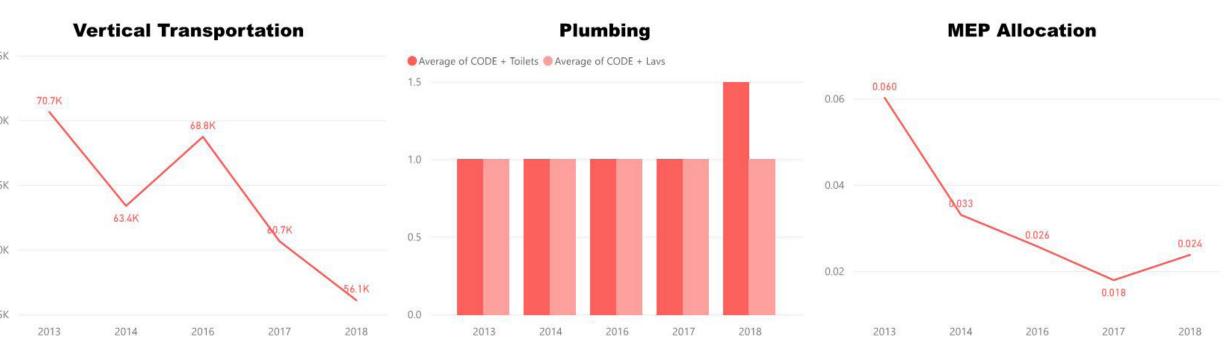
EXTERNAL

- speaking the client's language & communication of ideas
- better external collaboration through information exchange
- spotting trends, gaining insight, & providing better solutions



Data Trends



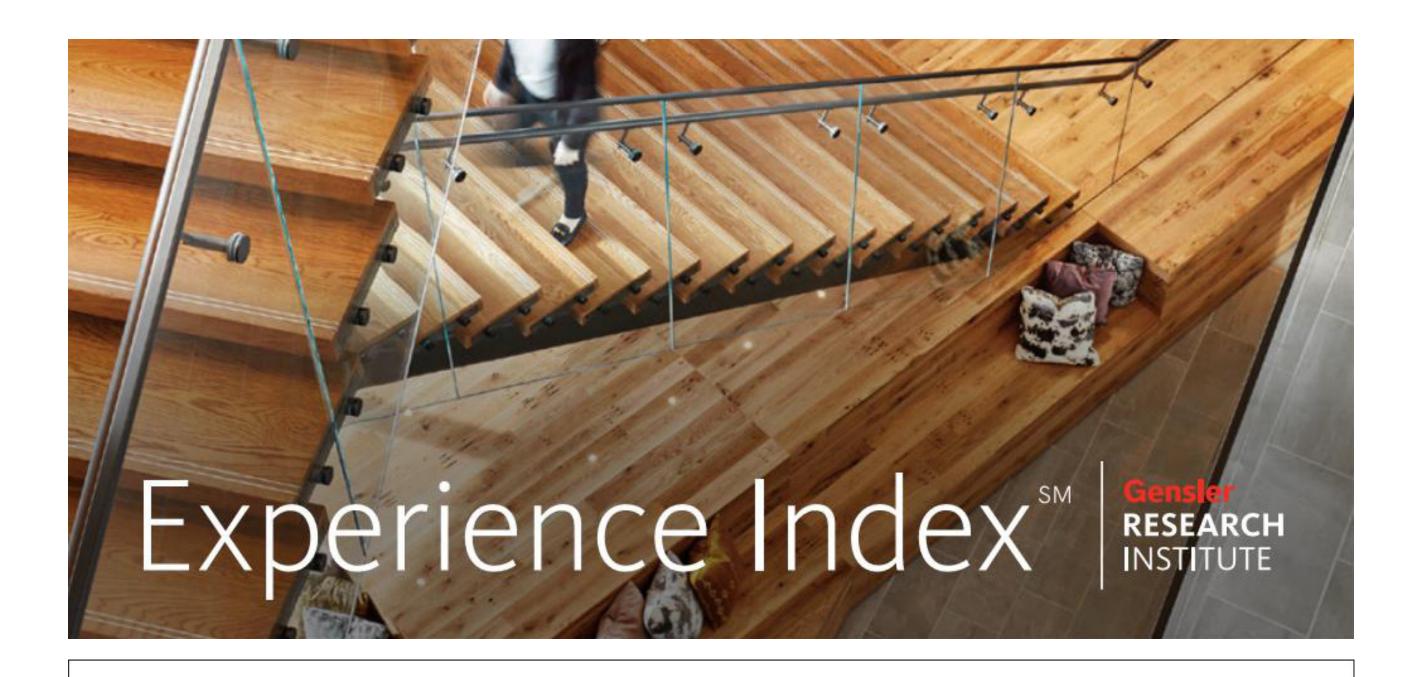


EXTERNAL

- building on a foundation of workplace design, Gensler conducts significant research into the world of workplace
- we believe the resulting insight is important enough to publicly share our findings

Gensler - Experience Index identifying & quantifying the factors of design that impact the human experience

Gensler - US Workplace Survey 2016 provides critical insights on how and where work is happening today, how effectively the workplace supports that work, & how the workplace environment impacts overall employee experience



EVOLUTION OF THE WORKPLACE SURVEYS





KEY FINDINGS

Employees see a clear link between the physical work environment and personal productivity.



2006
U.S. WORKPLACE SURVEY

KEY FINDINGS

The link is confirmed between the physical work environment and productivity in the minds of workers.



2008
U.S. & U.K.
WORKPLACE SURV

KEY FINDINGS

Four work modes—focus, collaborate, learn, and socialize—emerge as the framework through which to understand time at the office.



2013 U.S. WORKPLACE SURVE

KEY FINDINGS

rn, and in the workplace emerge as key drivers of satisfaction, performance and innovation.



2016 U.S.,U.K. & ASIA WORKPLACE SURVEY

KEY FINDINGS

Tactical strategies to use the workplace to drive organizational creativity and innovation.

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CONSIDERATIONS

What does the future look like?

there are currently too many tools in our current process to the detriment of efficiency: software interoperability, middleware, collaboration, the internet of things, & more

• What does this mean for the practice of Architecture?

we are still architects, some people don't naturally think about data or don't want to

 Data is cheap but what Information is important?

companies are trying to figure out where to invest time & effort. We still don't know as an industry what is the right amount of data use



