

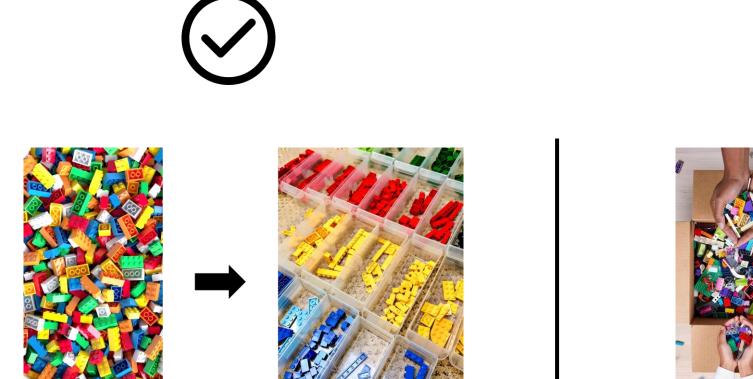
# Why your Data Science Teams need to build <u>experiences</u> – not models

Jorge Lozano Steelcase

March 2021

# About Steelcase...

"We know how many Lego pieces we sell but we don't know what Lego sets our customers buy..."





### **Individual Products**

### **Product Application**



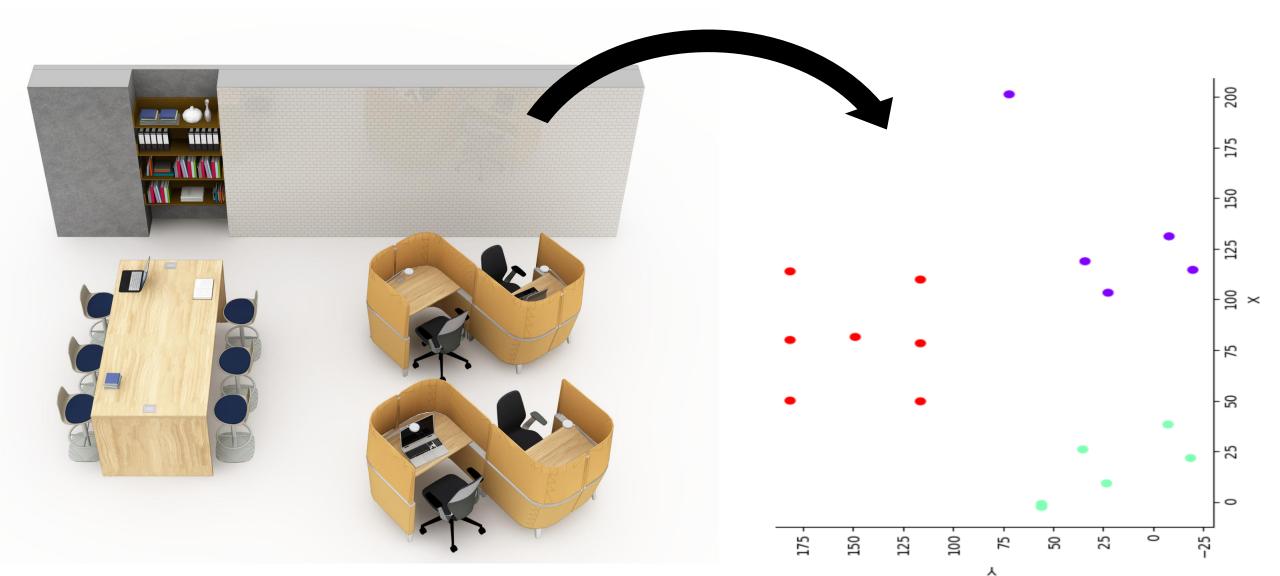


Individual workstations – 6 pack. Benching System designed for the open plan.

To tackle this problem, we needed to go after a different data source.

### Exploring new valuable sources of data

Can we extract the [X, Y, Z] coordinates of products in a drawing?

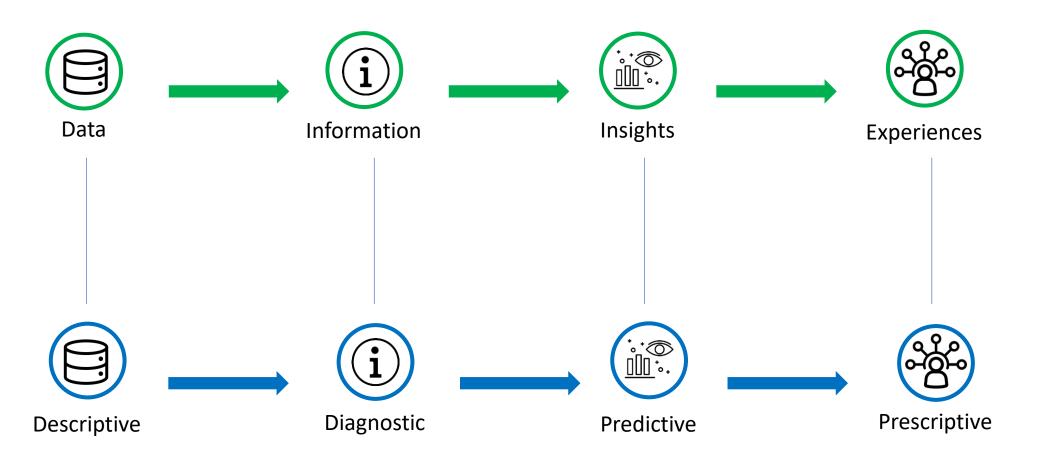


We need to be constantly pushing the value we get out of our information if we want to be transformational.



To transform our data into a competitive experience, we need to envision the experiences we may deliver and how that will set us apart.



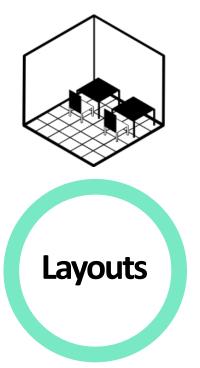




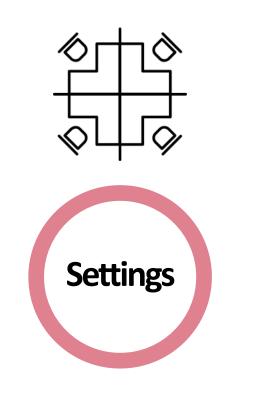


# "In God we trust, all others must bring data."

W. Edwards Deming



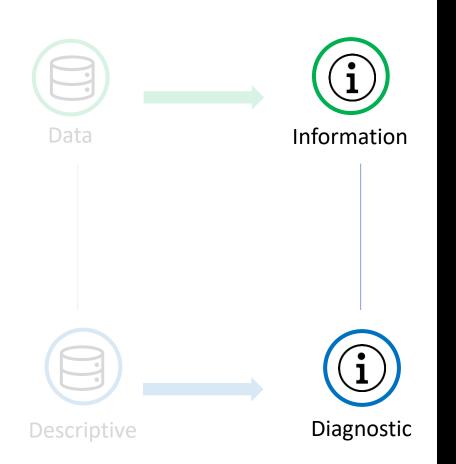
Can be an entire floor or a simple application.



Objects

Workspaces, meeting spaces, classrooms, social spaces, etc. But also 'noise' that we're learning how to filter out. Individual components that make-up an application

\*Data expected to grow 700% by end of 2021.



"As a general rule, the most successful person in life is the one who has the best information"

- Benjamin Disraeli



Data-driven starting point that best reflects the current state of the North American office to guide our design retrofitting strategies.



What is the range of distances between workers?

- What is the typical size of space divisions and level of enclosure for workstations? 8 % 8
- Can we provide a new way to think about "application level density"?
- What do we know about the orientation of workspaces?

#### ↔ ħ 1 Distance between workers

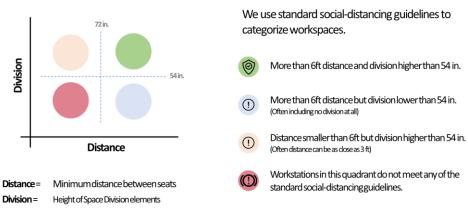
Measured as the minimum distance between the center of one seat and the center of the next closest seat in the specified direction.



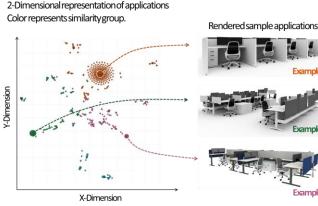
\*Only possible if we have a Steelcase Seating product specified

\*Algorithm looks for seats in front, to the sides and back in straight directions. Radial analysis is possible, but can take a little more time to develop.

We developed frameworks that helped us prioritize the needs of our customers.



We developed models to group applications that are similar. This allows us to obtain relevant samples to use as starting points.



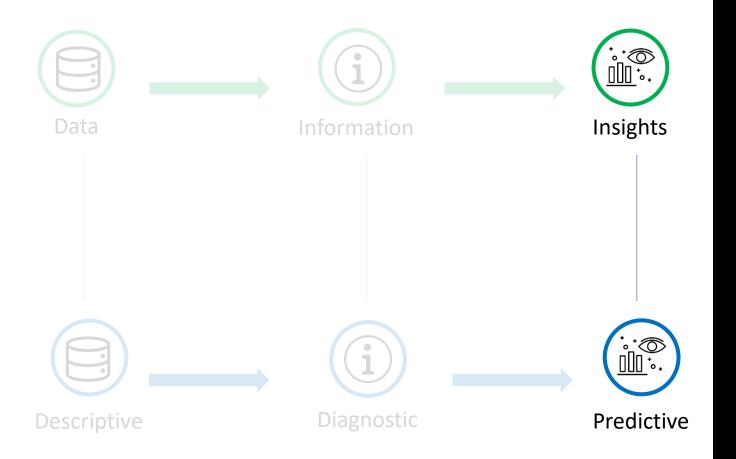
These examples will be an accurate reflection of the most common type of applications being used.

Example 1

Example 2

Example 3

We focus our retrofitting strategies around these type of settings to reach a large share of our customers.

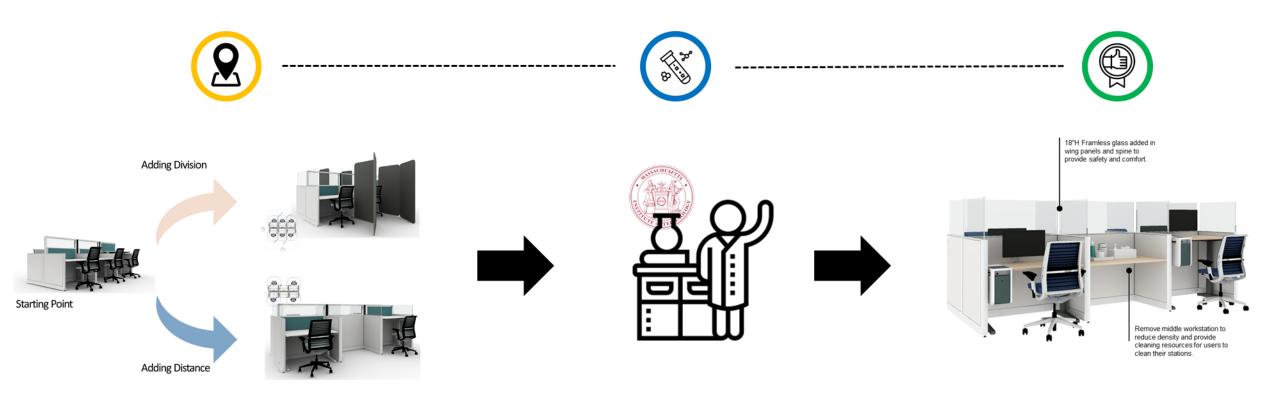


*"We are drowning in information but starved for knowledge"* 

- John Naisbitt



Goal: Data-driven and scientifically tested solutions. Each optimized for safety, product compatibility and price.



Data-driven starting point

State-of-the-art scientific testing performed by renowned experts.

Optimized retrofitting strategies.

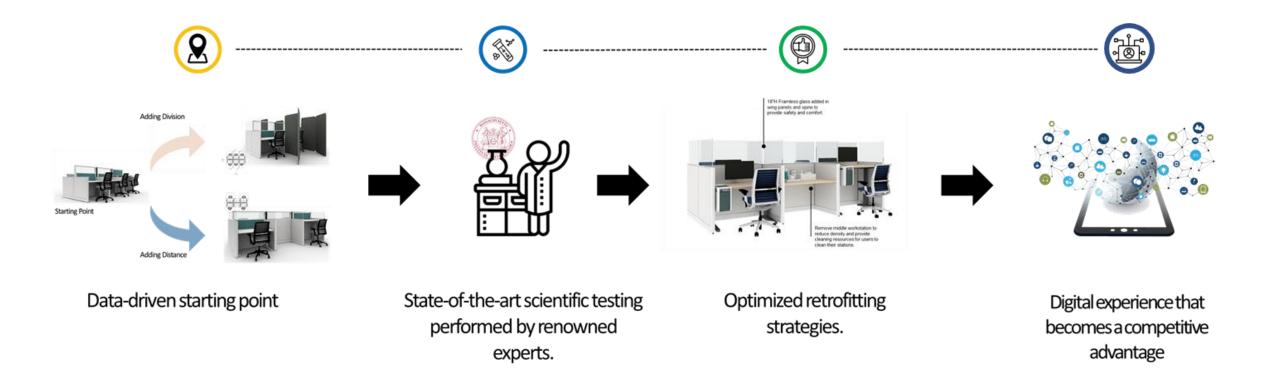


"Nothing ever becomes real until we experience it"

- John Keats



## Success comes from building experiences, not models.





#### INTRODUCING SPACE SCAN BY STEELCASE for the world's workforce will

A strategic return-to-office

require a change in mindset,

approach, behavior, and

space. Despite a flurry of

ever-changing rules and

regulations, employees are

workplace. Business leaders

ready to get back into the

are seeking best practices.

And we're uniquely

equipped to help.

Steelcase

Space Scan is a diagnostic service for existing Steelcase customers that leverages advanced analytical floorplan scanning to identify vulnerabilities in office densification and division. Its science-based analysis generates space-specific action steps and strategic solutions, laying the foundation for a confident return to the office.

SCAN: Existing customer floorplan data is scanned for analysis O based on current guidelines and best practices for distance, division, and geometry.

ASSESS: Input data is measured against distance, division, and ব্য geometry criteria based on known COVID-19 best practices. Each floorplan is graded and problem areas identified. Workspace modification options are generated, giving space-specific recommendations.

ACT: The Space Scan report acts as a roadmap for your customer, 0 allowing them to pivot as needed and confidently invite their employees back to office. Ø

\*Note: Space Scan requires applications that are designed with Steelcase furniture within SmartTools.

#### SPACE SCAN IS RIGHT FOR CUSTOMERS WHO ...

0

- are an existing Steelcase customer and currently have Steelcase product (i.e. workstations).
- want to see their employees back in the office by summer 2021.
- have a dense floorplan (i.e. less than 6' distance; lower than 54"H division).
- have worked with a Steelcase dealer and their floorplan is available in SmartTools/CET.

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#### **Distance/Division Analysis**

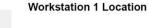
Project

Current

Capacity

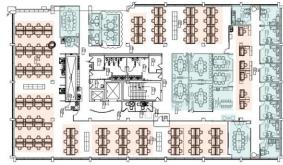
44% of seats of all settings scanned comply with standard social distancing measures in the office.





moliance

Project





Workstation 1 Solution by Geometry

Recommendations

Updates



Division Compliance At least one side with peers has either no division or division less than 54 inches. Distance Compliance At least one side has peers close than 6 feet.

Reconfiguring workstations so users are back-to-back can provide even more privacy and safety

2 Added Acrylic Privacy and Side Screens (Using Existing Braciato from Cableway for Privacy Screen)



Data is not information, Information is not knowledge, Knowledge is not understanding, Understanding is not wisdom."

-Clifford Stoll

# Thanks!

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