

Broadening the Perspective of Technology in Architectural Practice

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Stanford University Center for Integrated Facility Engineering

Unprecedented Value

An in-depth look at what building data can do for us

Federico Negro
Partner
CASE Design Inc.



Broadening the Perspective of Technology in Architectural Practice is registered with AIA CES.

Online + Components: **TAP101912W**

Stanford CIFE Live Event: **TAP101912S**

Questions? Contact tap@aia.org

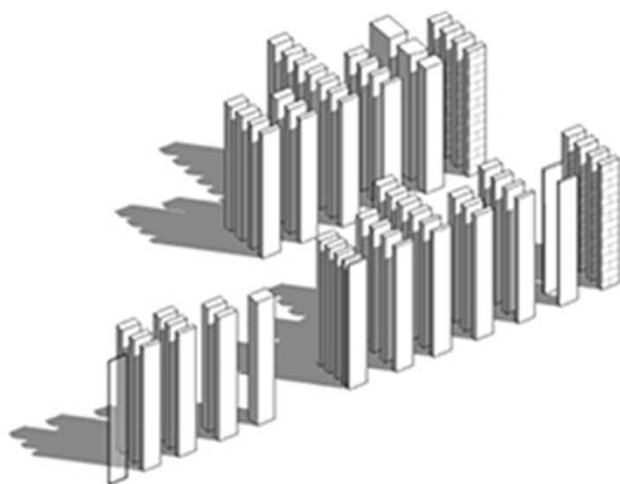
Unprecedented **Value**

An in-depth look at what building information can
do for us.

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Partner

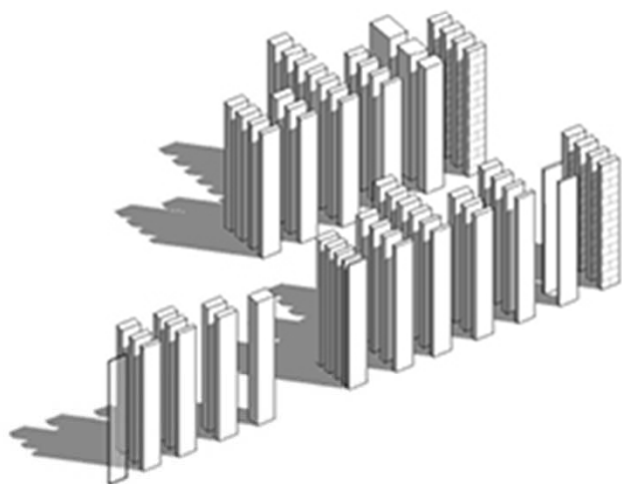
If these walls could talk...

hint: they can :)



Premise
Opportunity

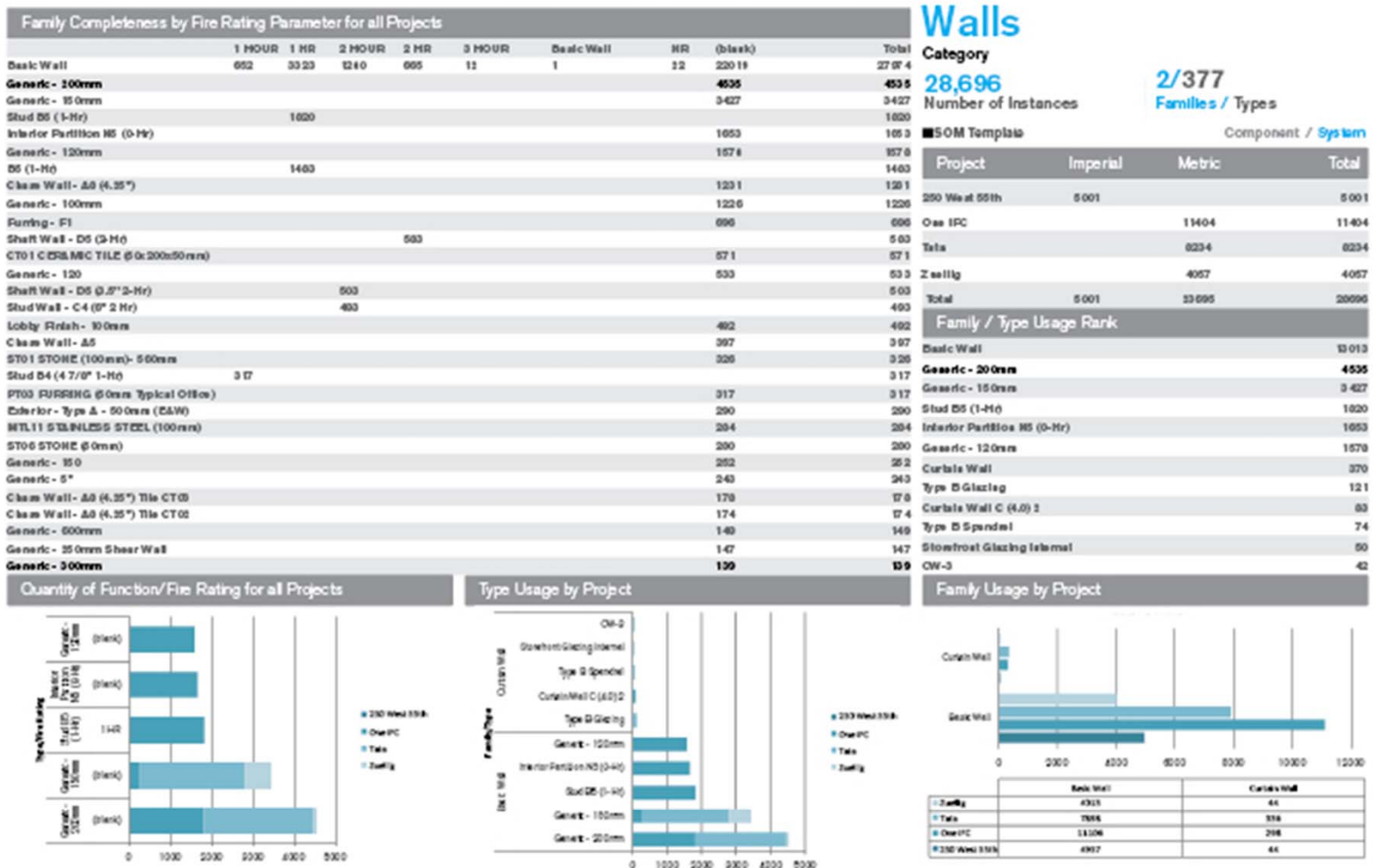
What would we ask?



Premise
Opportunity

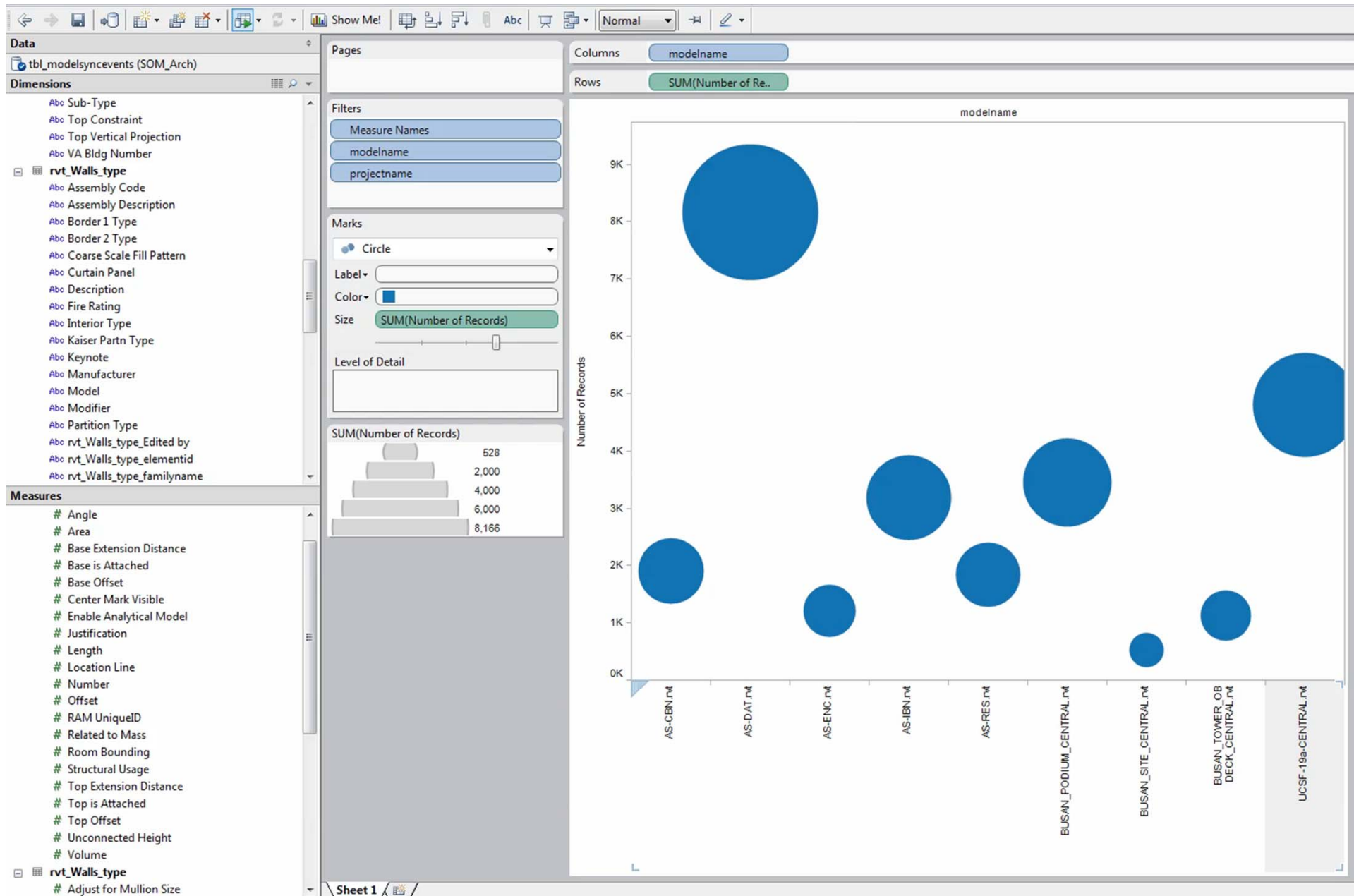
On that one hospital?
On all hospitals?
On all hospitals between 400k & 600k sf?
On all hospitals for this client?
On all hospitals in this region?
Etc...

What wall types were used?
As a Project Manager



Historic Content Analysis

As a Project Manager



How do these walls compare against our standard
or library?

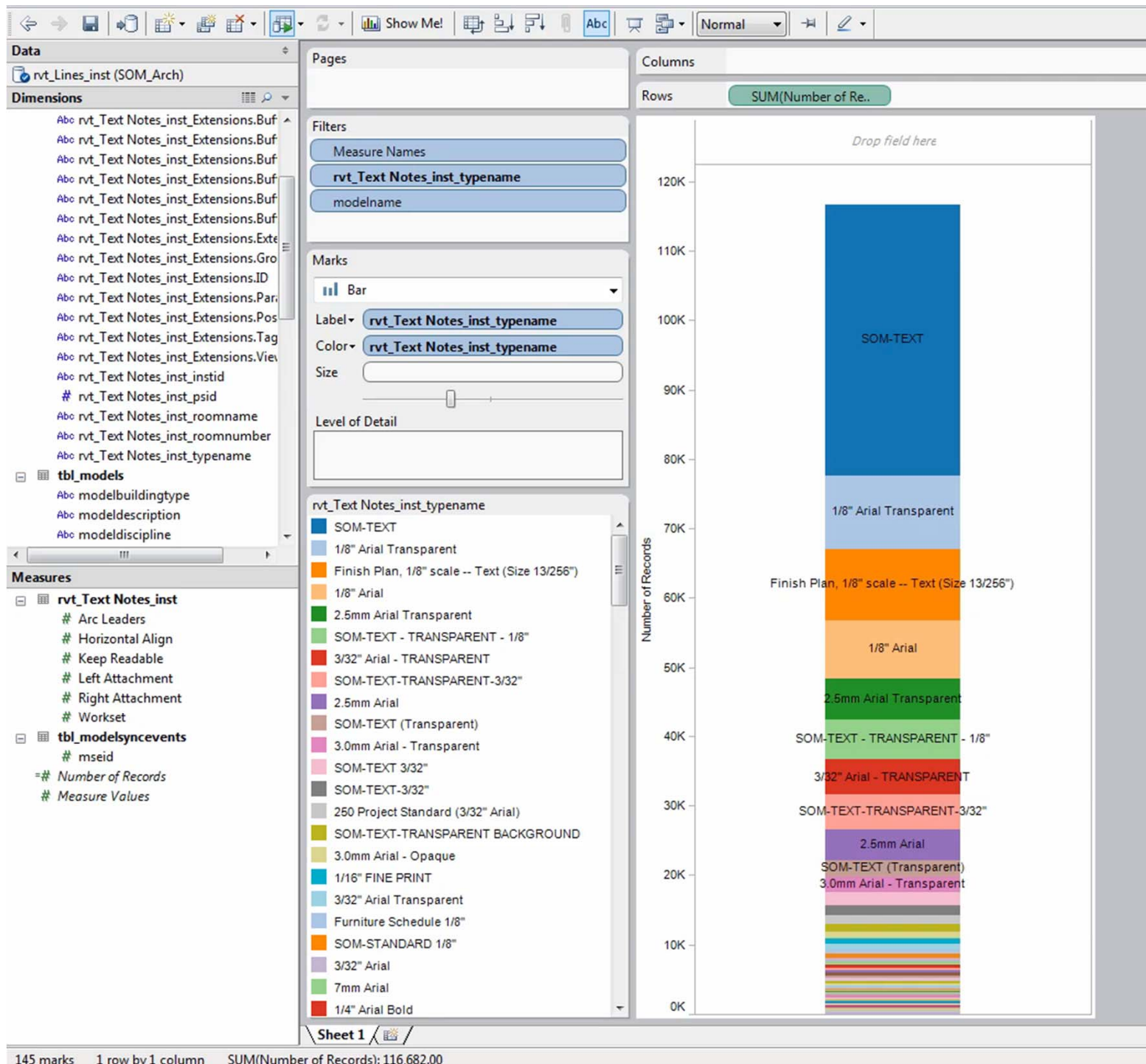
What meta data do these include?

How much information are we providing at this
stage?

Is the information we are providing correct?

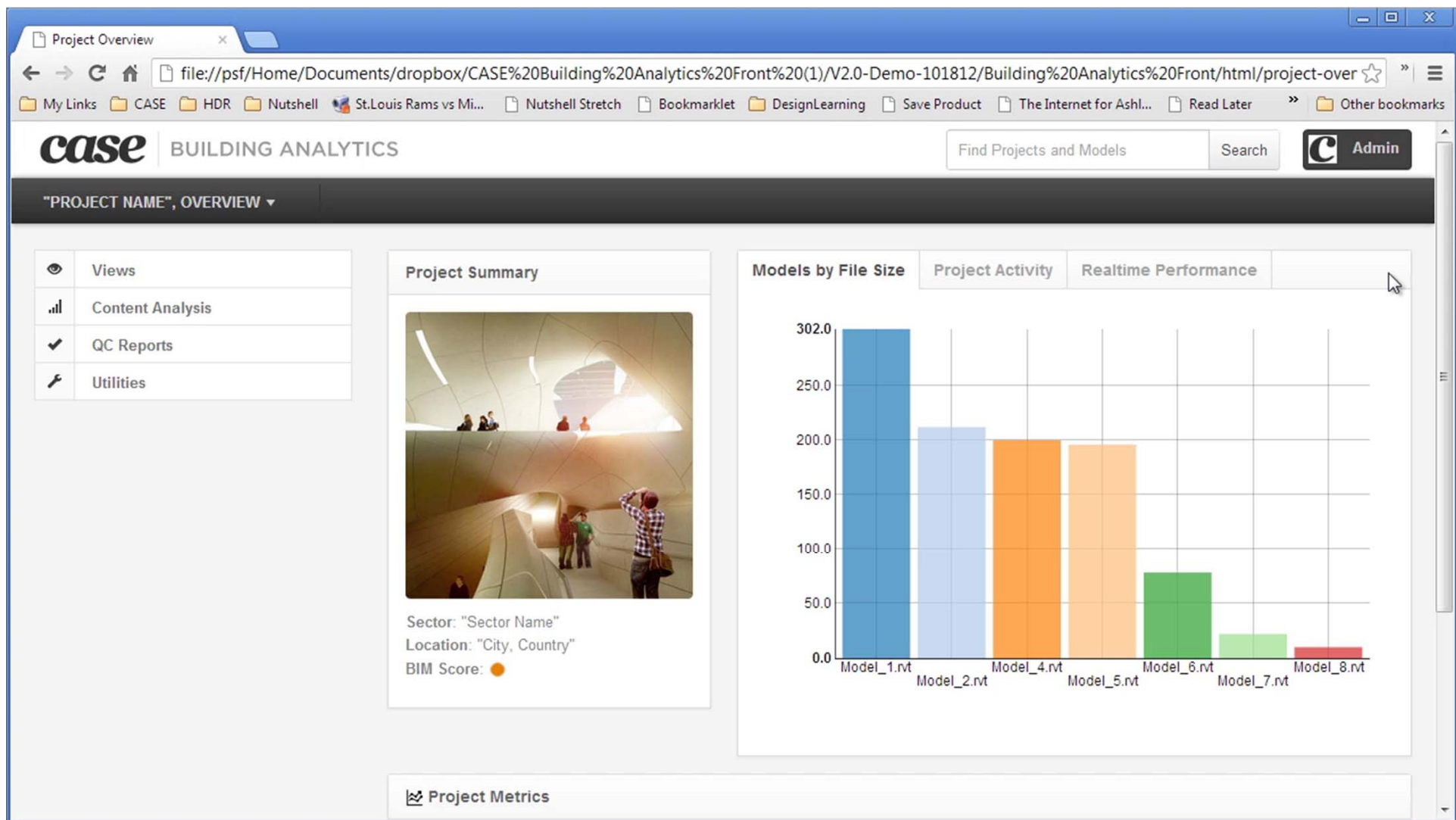
Does this meet our standard?

As a Quality Control Manager



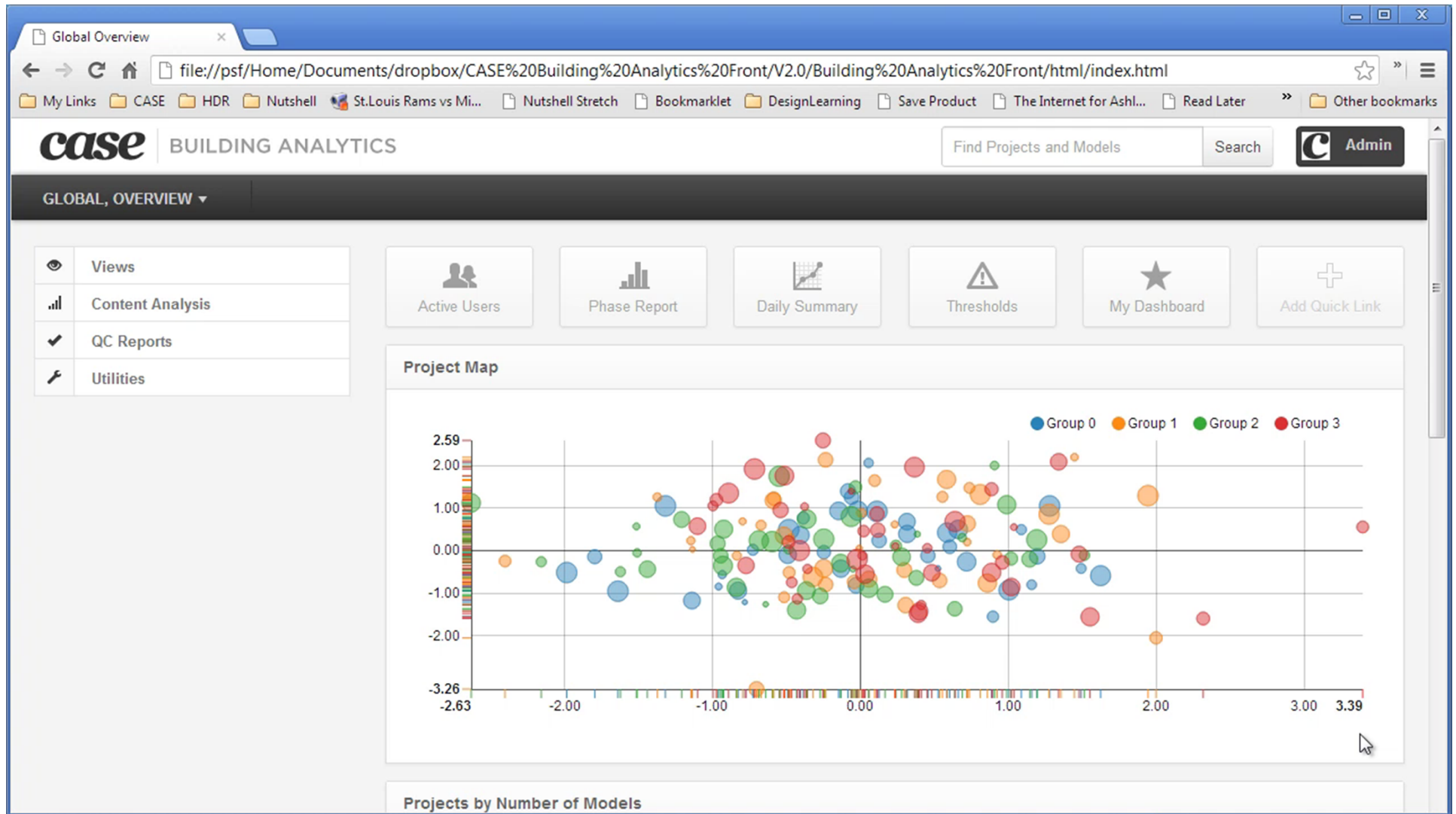
Who is working on these models, right now?
Where are they working from?
How long does it take them to save to central?
How does that compare against others?

Who's working on this today?
As an BIM Manager



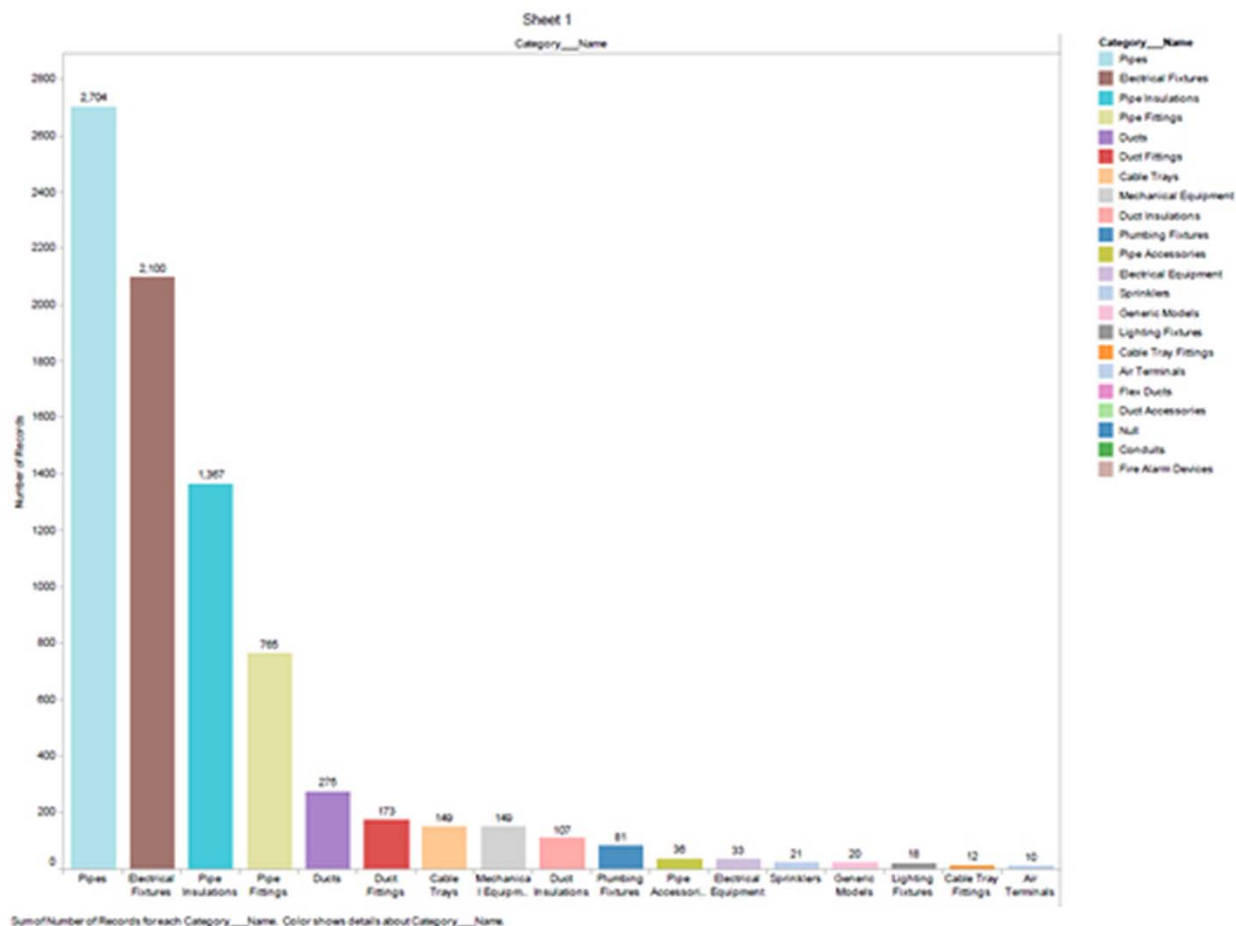
How many projects do we have in BIM?
What phases are these projects in?
Who is working on these projects?
What % of projects are in BIM?
Etc...

How are projects performing?
As a Firm-wide Manager or Exec



Where are the majority of the issues?
How do we identify the bottlenecks?
Is our team succeeding in collaborating?
How are their models performing?

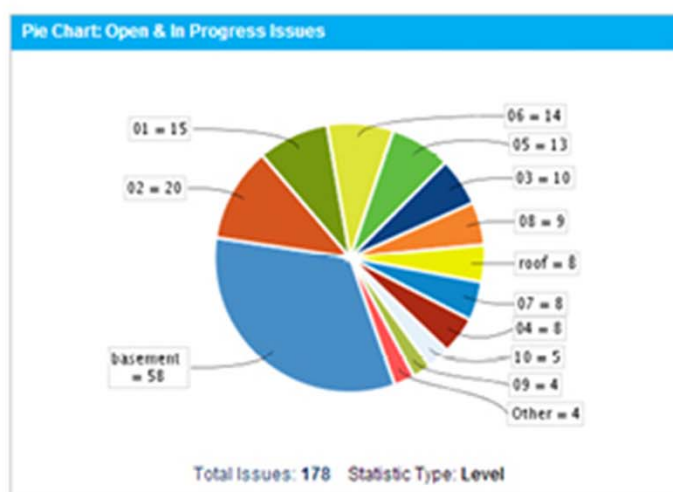
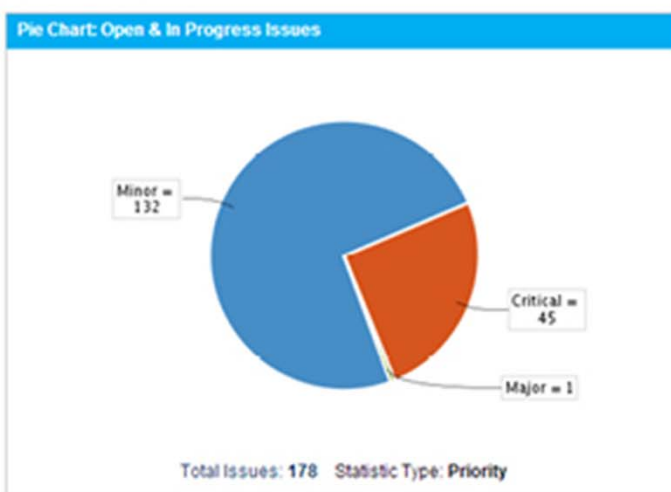
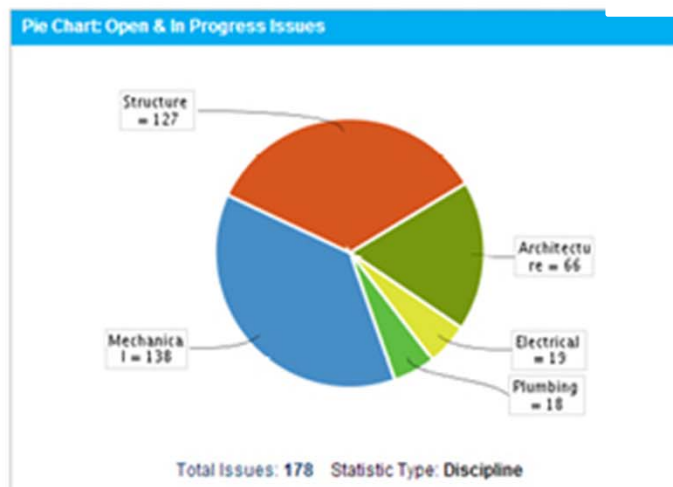
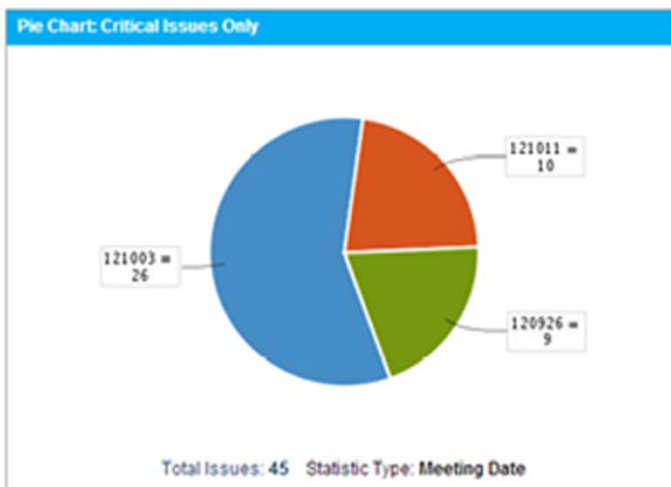
How is our team doing?
As a Construction Manager



Change Tracking As a Construction Manager

What disciplines does it involve?
How long is it taking to solve each issue?
How has this version changed versus the last?

How should we focus our time?
As a Construction Manager



Project Issue Tracking

As a Construction Manager

What do we know about this VAV?
What model number is it?
How many of these do we have?
Who makes it?
What are the design assumptions?
Do we have training videos, maintenance
manuals?
What areas does it serve?

What about this VAV?
As a Facility Manager

Home

Search

In order to add information to, or edit information within a building element, we first need to find it. Use one of the two search mechanisms below to find the elements you're interested in. You can either run a simple text search, or use the preset Filters to drive down into the elements you're looking for.

DB Search

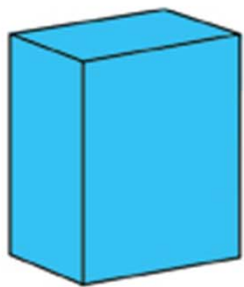
BIM Search

Search Term



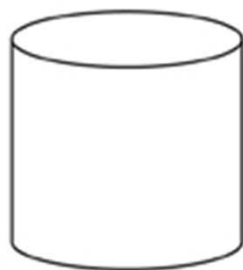
"A Children's Joint Venture"

**Building
Models**



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Data



Premise
Opportunity

*The automatic extraction of useful, often **previously unknown information** from large databases or data sets.*

Source: <http://www.thefreedictionary.com/data+mining>

*The extraction of **hidden predictive information** from large databases...*

Source: <http://www.theartling.com/text/dmwhite/dmwhite.htm>

*Data Mining is a generic term that describes people looking at **large amounts** of data and **find relations** and patterns in the data that **prove to be useful**.*

Source: <http://kschang.hubpages.com/hub/How-Data-Mining-Affects-You>

Data Mining
It's what we do

1. Data Cleaning
2. Data Integration
3. Data Selection
4. Data Transformation
5. Data Mining
6. Pattern Evaluation
7. Knowledge Presentation

Data Mining Process
How it's supposed to work

**Are you taking
advantage of your
data?**

Thanks

www.case-inc.com