

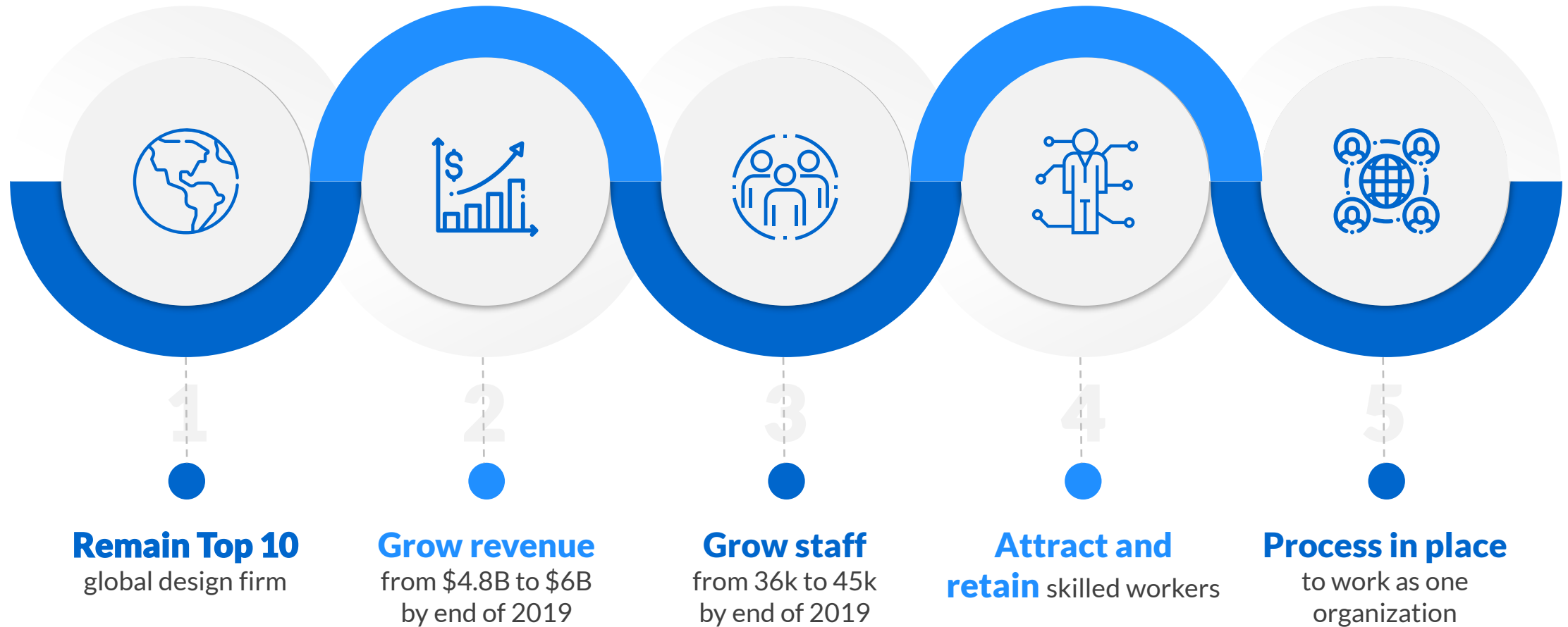


Transformative Change thru BIM

**End to End Solution for Design, Planning, Construction,
Commissioning and Facilities management**

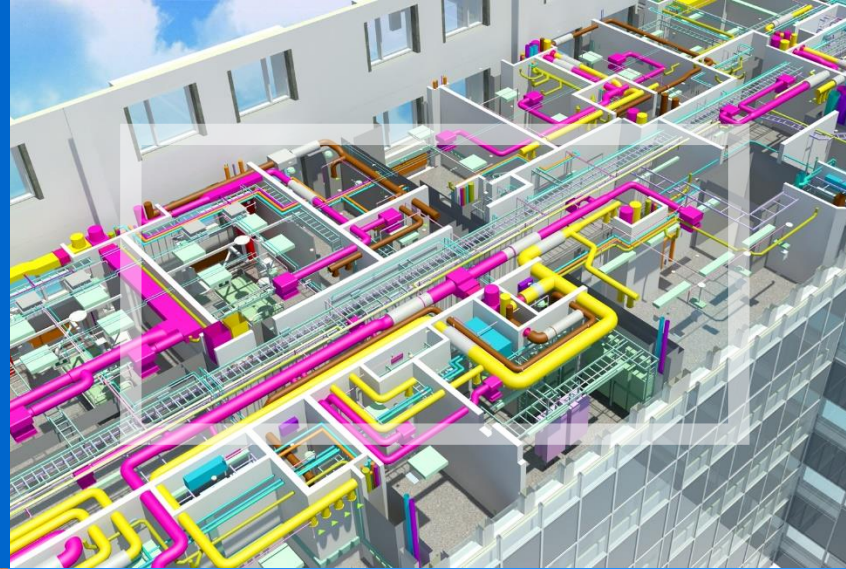
March 6, 2018

Business Objectives



Desired Business Outcomes

Increase staff collaboration and
reduce duplication efforts



Increase graduate applicants by
50% by 2019

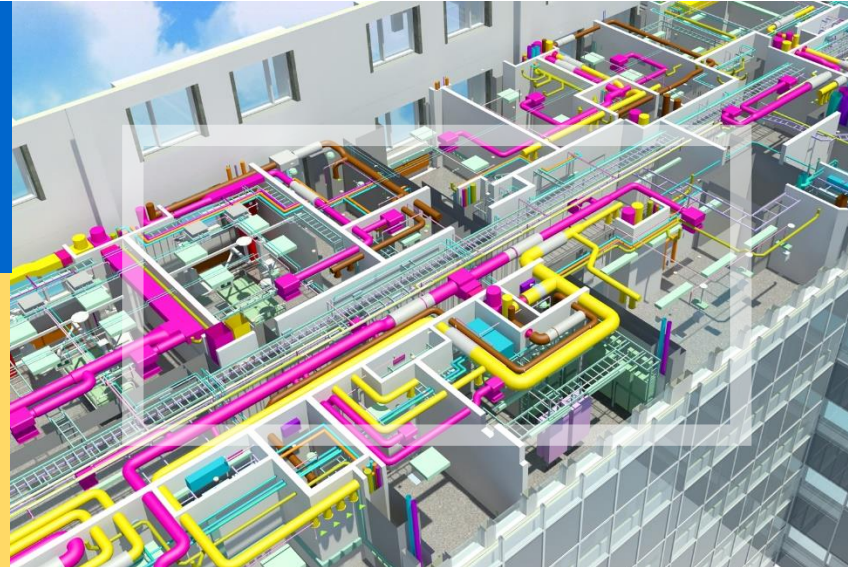
Improve efficiency in MEP
design thru reduction of 4000+
man hours by end of 2019



Desired Business Outcomes

Increase staff collaboration and
reduce duplication efforts

Improved project
collaboration and setup
time by 50% using C4R



Increase graduate applicants by
50% by 2019

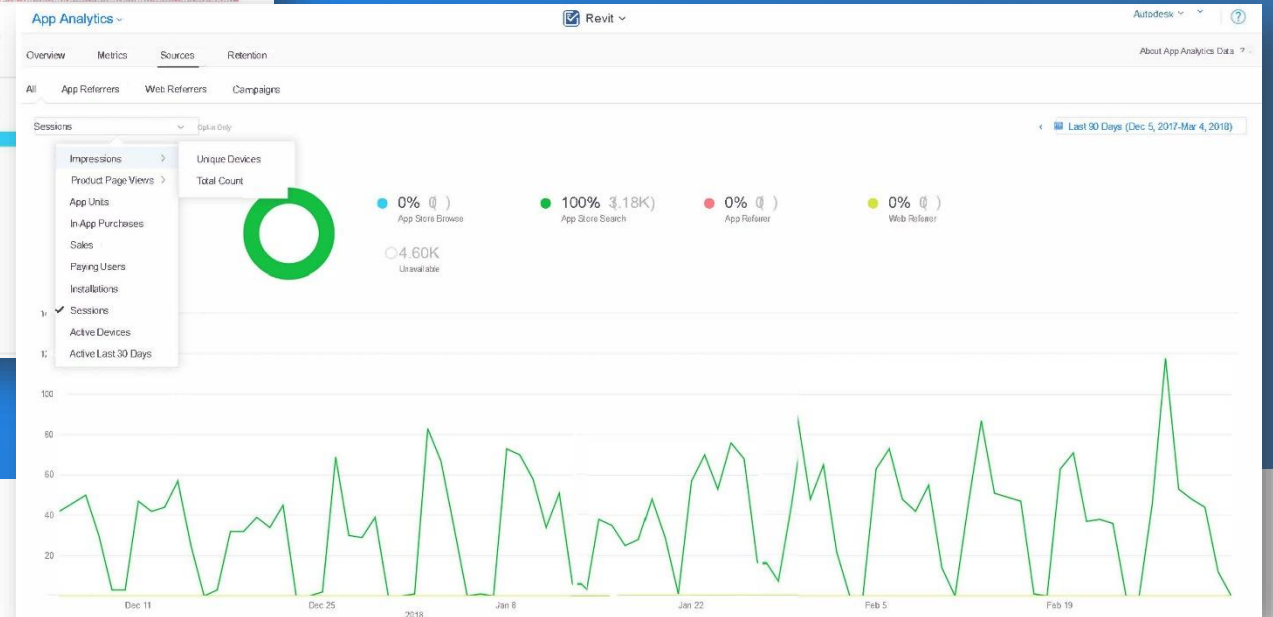
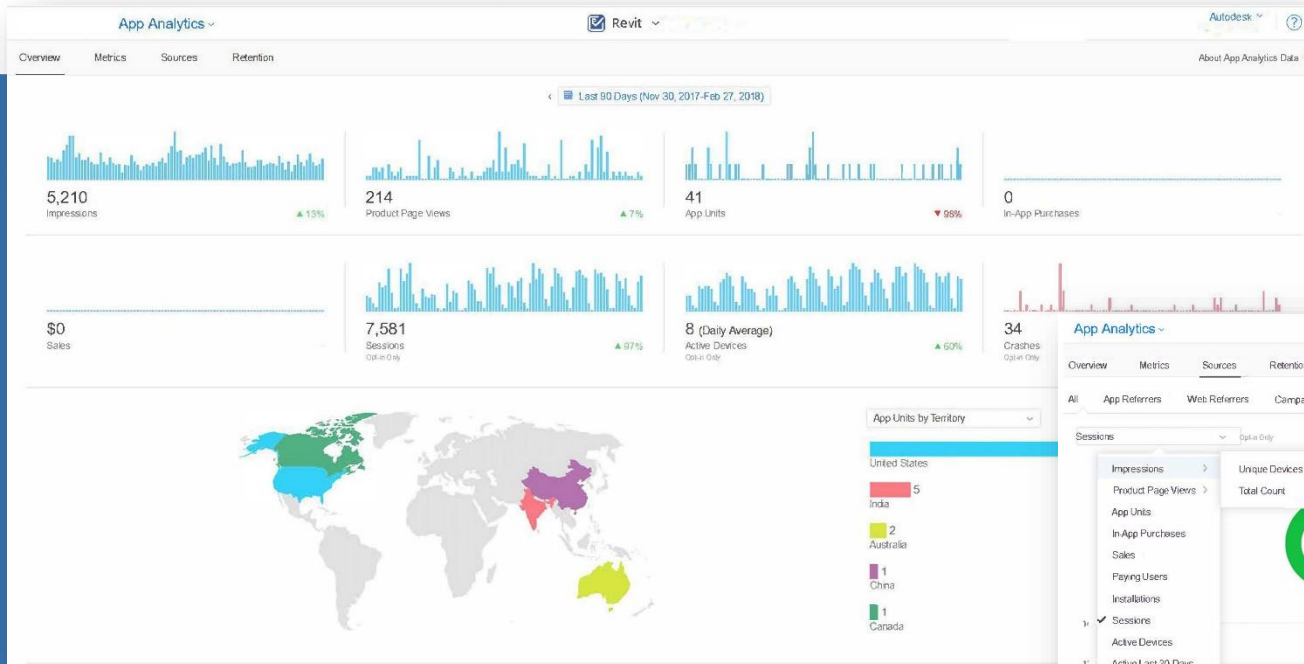
Make early Connections

Improve efficiency in MEP
design thru reduction of 4000+
man hours by end of 2019

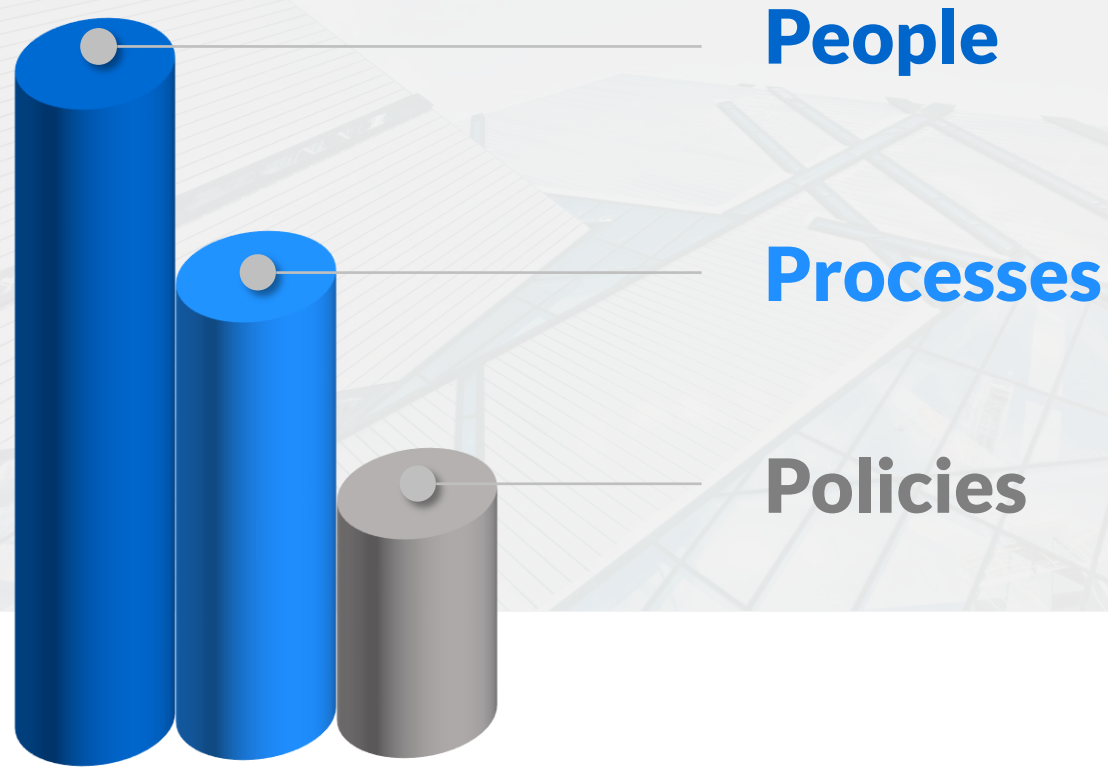
Already reduced by 2500
man hours



Product Usage Dashboard



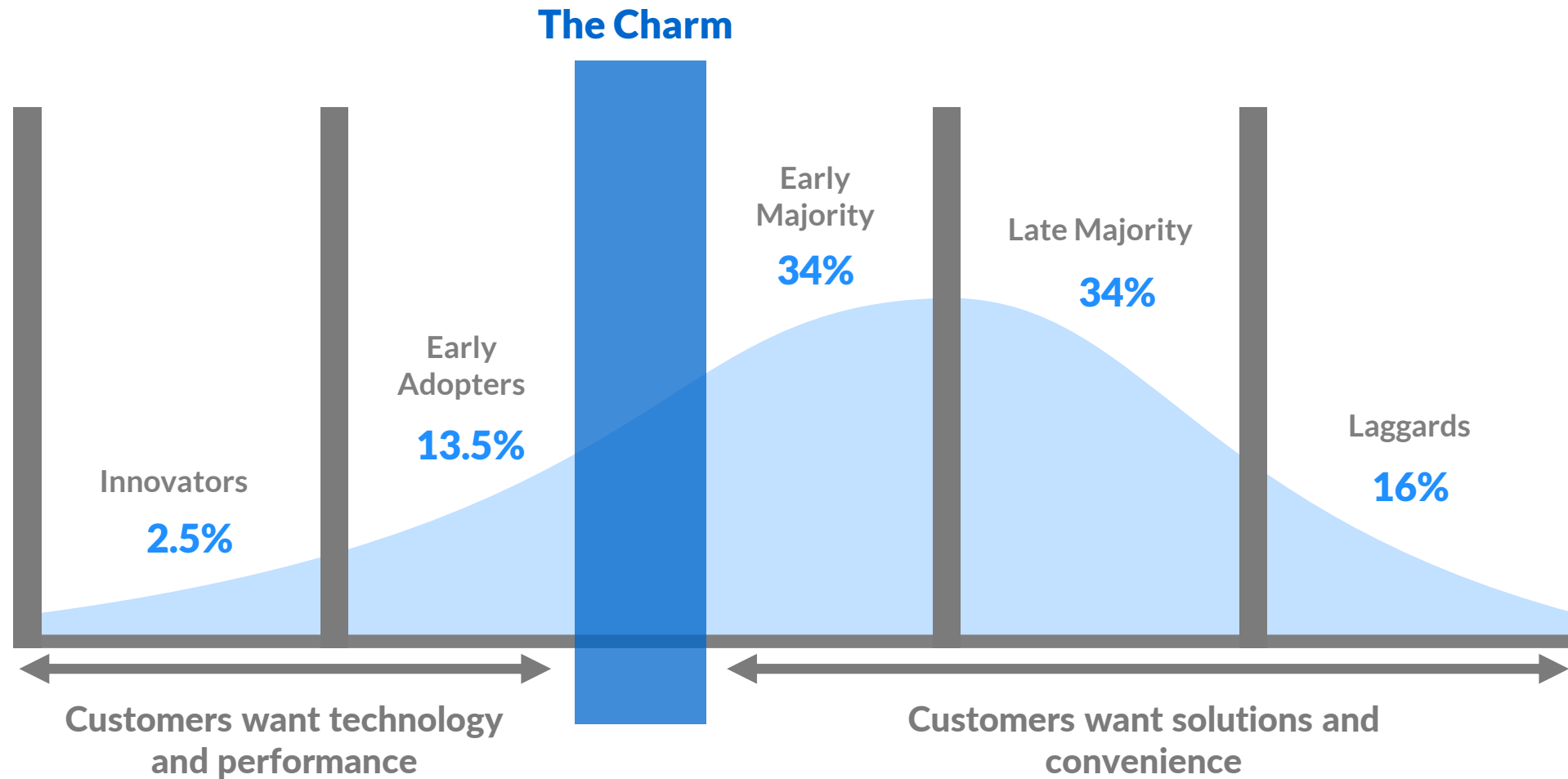
Key to BIM Implementation



3 “Ps” of BIM

that will make tomorrow's
buildings look a lot different
than today

Technology Adoption Curve



Doing More, Better with Less



Transformative Change Through C4R & BIM 360

Time = 4+ Days



Time = 1 Day

Accelerated Adoption



Pilot C4R on a project



Train users



Lunch & Learns



Create personal success



From dashboard find out First time vs return – how much time between drop off



Have a internal champion



Share Success stories



Survey to understand problem



Prove Value - Taking out barriers to use

Value for Investment

Tangible Benefits

Direct Cost savings:

Reduced design time
Ideas for Pre-fabrication
Schedule

Intangible Benefits

Improved collaboration leading to less rework
Class detection
Less Change Orders
Less RFIs
Safety
Better quality

Desired Business Outcomes

Increase graduate applicants by 50% by 2019 - By way of differentiation



Tie-up with university
to introduce courses
using BIM Products



Industry sessions /
speaking arrangement
with Universities



Awareness / educate
students about BIM
products and get them
using it as part of their
curriculum



Offer BIM online
certification courses



Internship programs

How Success Could Be Measured

**Compare Similar
Projects**



**Compare Phase
Efforts**



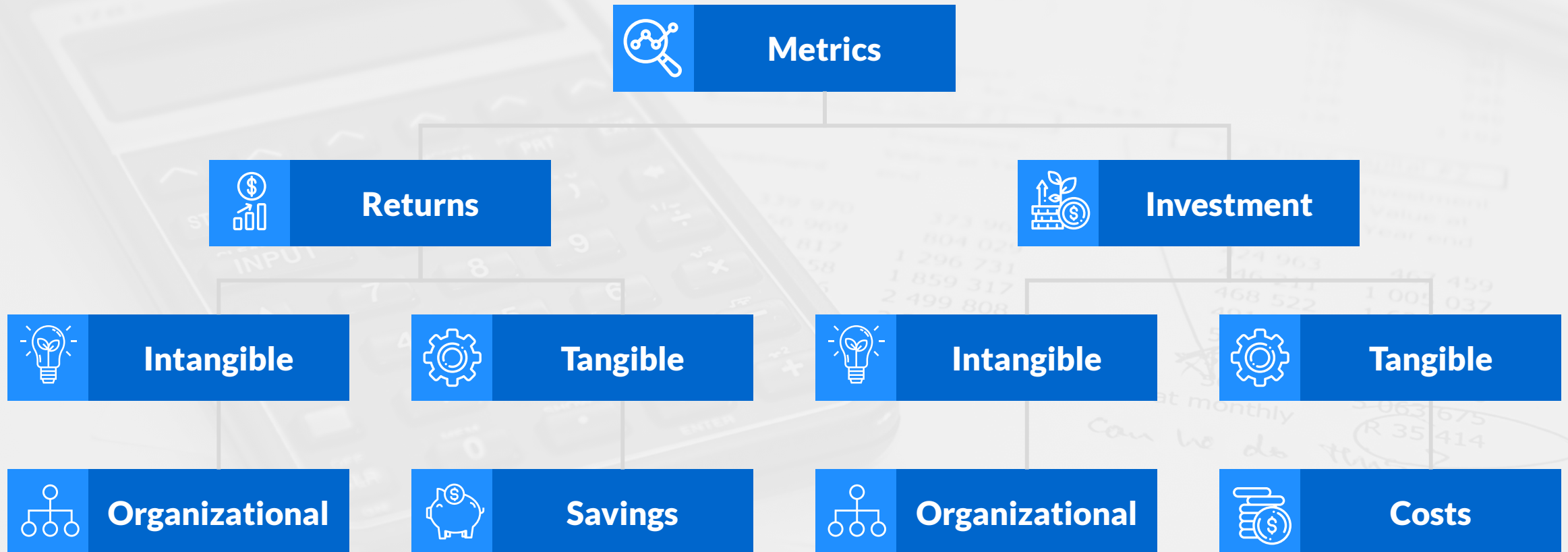
**Compared Drafting
vs. Design Hours**




Go to the Source



Value for Investment



Enhance Profit Margins

- 
- Reduce project error minimize data friction
 - Finish projects faster
 - Work from anywhere
 - Spend less on IT
 - Co-locate virtually
 - Spend less time coordinating, more time designing
 - Win more work
 - Create project transparency and clarify approval lines
 - Recruitment – attract and retain the best talent

Increase Graduate Applications by 50% by 2019



Catch Up or Be Doom!

BIM adoption and implementation around the world: Initiatives by major nations

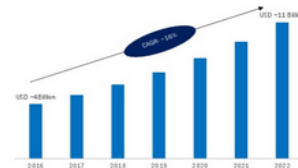
How loud is the BIM buzz in some of the major nations of the world, we find out...

Press Release

[More press releases](#)

Building Information Modelling (BIM) Market 2018 Global Size, Growth, Profit Analysis, Segments and Trends by Forecast to 2022

Building Information Modelling Market, End User (Government, Architects, Engineers), By Industry (Residential, Commercial, Healthcare, Entertainment) - Forecast 2016-2022



BRIEF

Los Angeles college district sets BIM mandate for \$9.5B construction program

BIM Mandate and BIM in legislation: There is a BIM Mandate, how does it work?

In this briefing sheet, author Barry Tuckwood, on behalf of the BIM Action Group, provides an explanation of the UK Government's BIM Mandate. This includes an in-depth analysis of each step of the mandate.

Failure to adopt BIM could affect consultants' ability to work internationally

February 2014

The first International BIM Survey, carried out by NBS and international partners, has revealed that UK consultants who do not adopt Building Information Modelling (BIM) could struggle to secure overseas work.

Investing in the future? It's best to invest in BIM!

Jeffrey Heimgartner posted on February 09, 2018 | Comment 5933 views

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THE WORLD'S LARGEST MARKET RESEARCH STORE

Building Information Modeling (BIM) Market, 2022 - Government Mandates Regarding Using this Model

Payoff from BIM Workflow

