

# Connect

*noun*

1. the action of linking one thing to another

# Collaborate

*noun*

1. the action of working with someone to produce something

# #Connect2Collaborate

MATT KEEN  
SR. INDUSTRY STRATEGIST  
AUTODESK

# About Me



## **Matt Keen MCIQB**



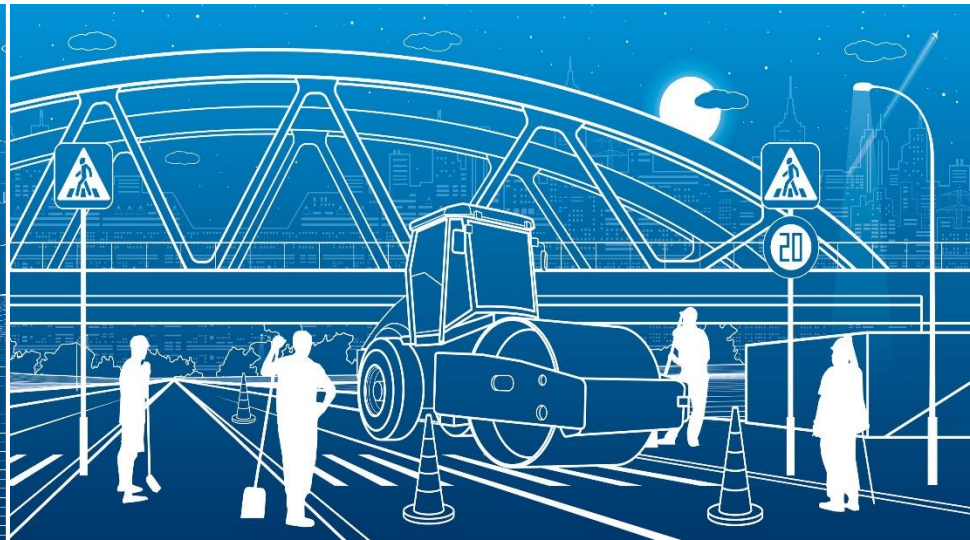
Senior Industry Strategist @ Autodesk  
Construction Solutions

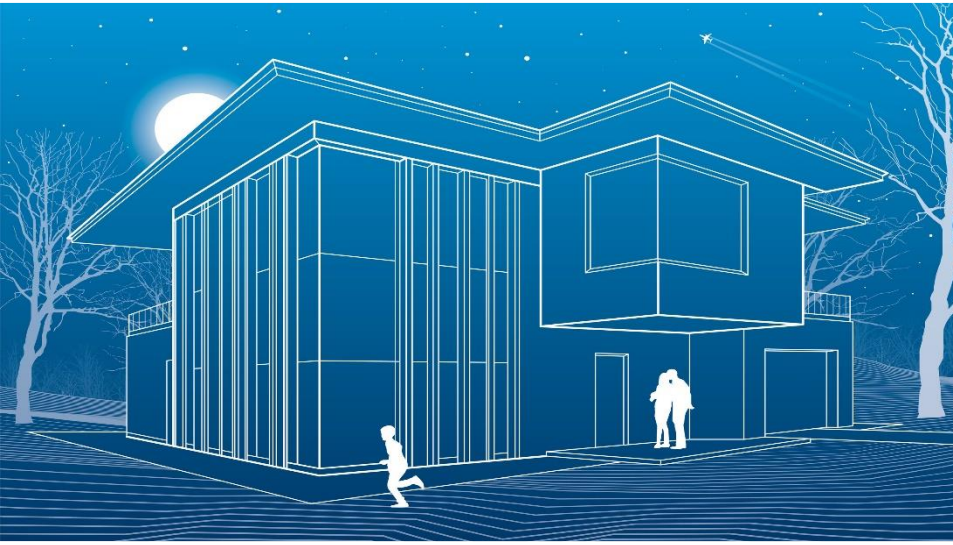


Responsible for developing Autodesk's  
Global Construction Strategy



15+ years experience in the Construction  
Industry and a Chartered Builder











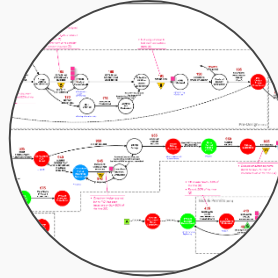


# Connected Construction



## Teams

Connecting project stakeholders to deliver project outcomes



## Workflows

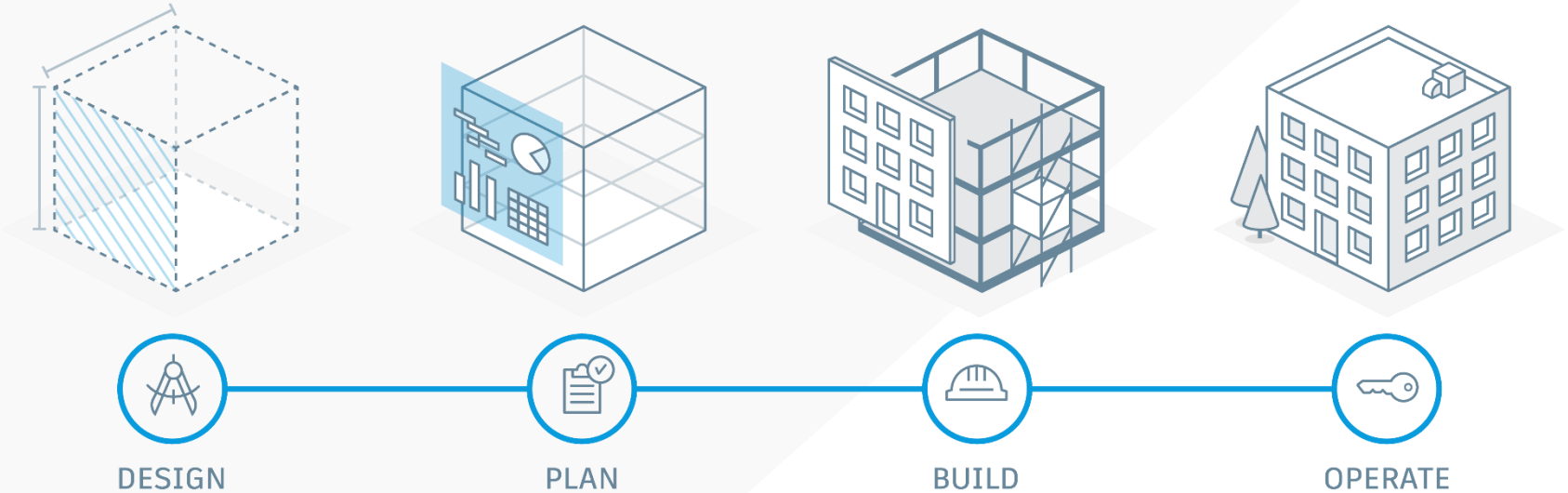
Connecting workflows to remove redundancy from process execution



## Data

Connecting data to provide insight into where the industry can improve

# Connected Teams



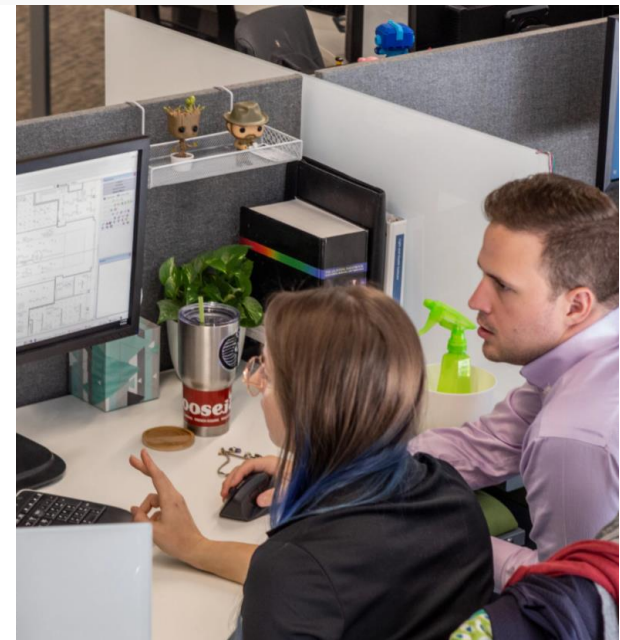
# Connected Teams



Field



Site Office



Office



# ARCHITECTURE & PRE-CONSTRUCTION (3<sup>rd</sup> PARTY)

ACTION>RESULT™ MAP Created: 5/12/2015 Last modified or saved: 5/18/2015

The Subject Matter Expert(s) for this map include Matt Prigmo, Debbie Hughes, Chris Taylor, Debbie Dominga, Jason Mullins, Todd Lehman, Kelly Cole, Sean (?), Jeff Ratloff (Host), Bryce Morrow (Sponsor)

Proof Copy #2  
2/3/2015

- 50% of the time we close the wrong thing (propose instead of claim) (1)
- 75% lack of definition of pursuit budget for project team (7)

• Proposal legal review not completed 75% of the time (15)

• Time delay on getting a good contract 30% of the time (20)

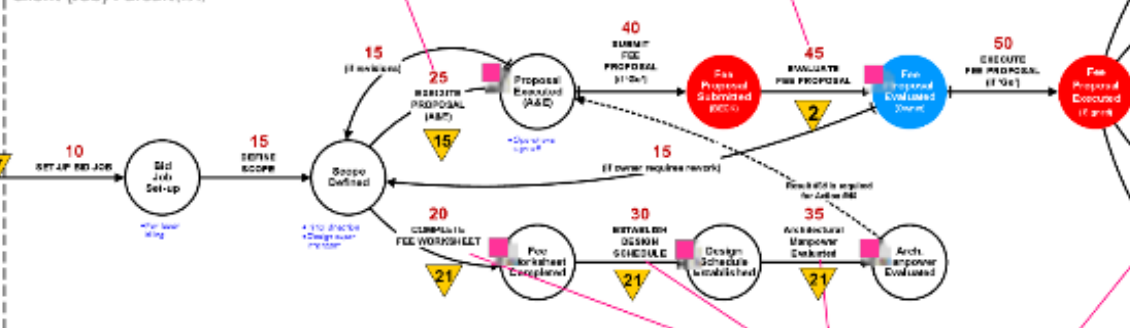
- 50% of the time we have to rework less capable people's work (2)
- Construction PDM's not part of the team communication w/ diff. language between Design vs. Construction; Add Service's/Charge Orders (3)

• 100% 75% too slow, not enough info or RFI (7)

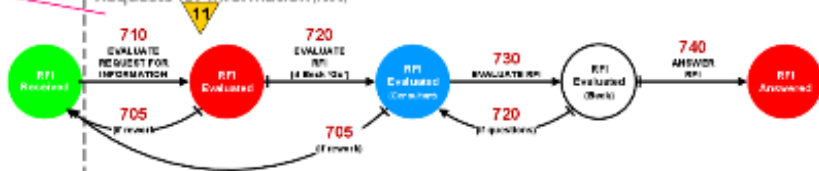
• The budget, schedule, manpower needed to match client \$ and not to perform the work 25% of the time (2)

• SLA's not issued and executed before a P.C. has been issued in CMC 50% of the time (3)

## Client (Job) Pursuit (100%)



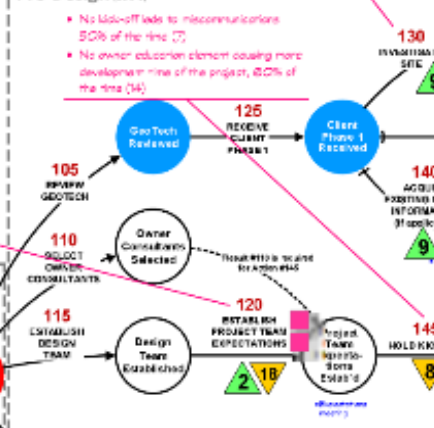
## Requests for Information (100%)



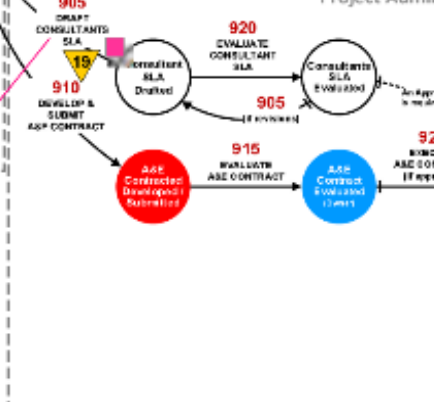
## Submittals (100%)



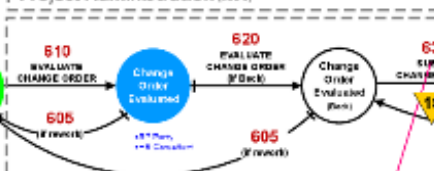
## Pre-Design (100%)



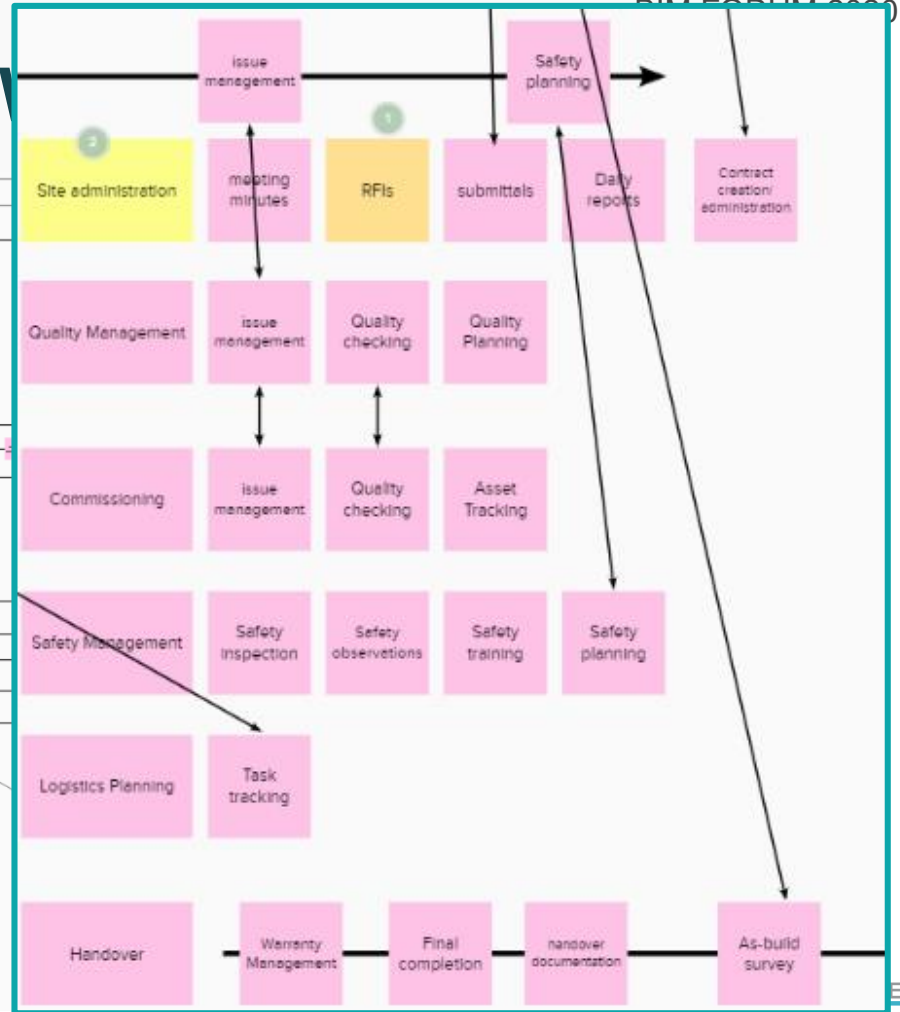
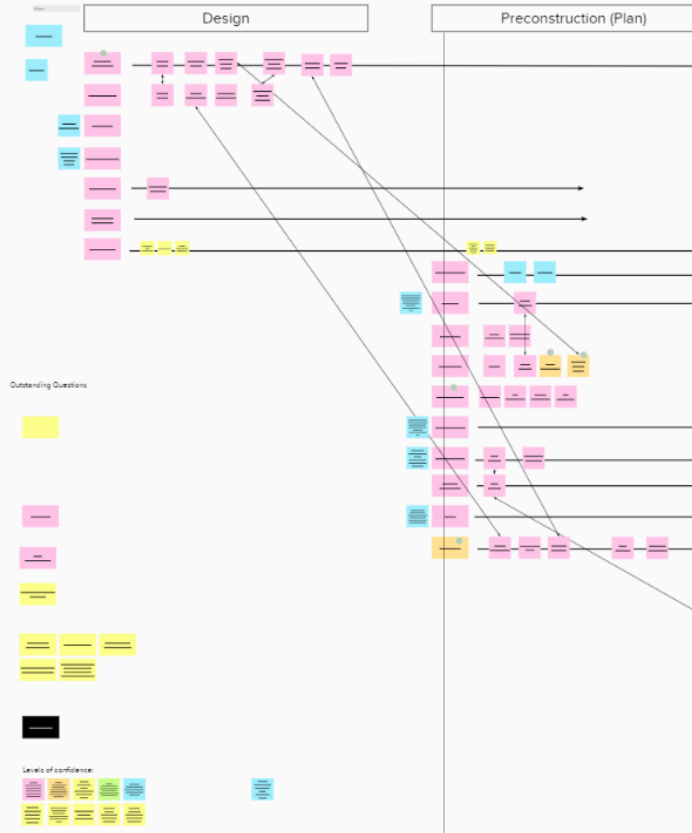
## Project Administration (100%)



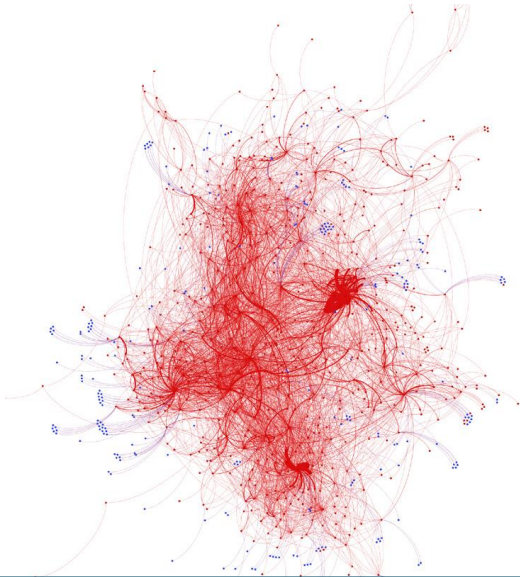
## Project Administration (100%)



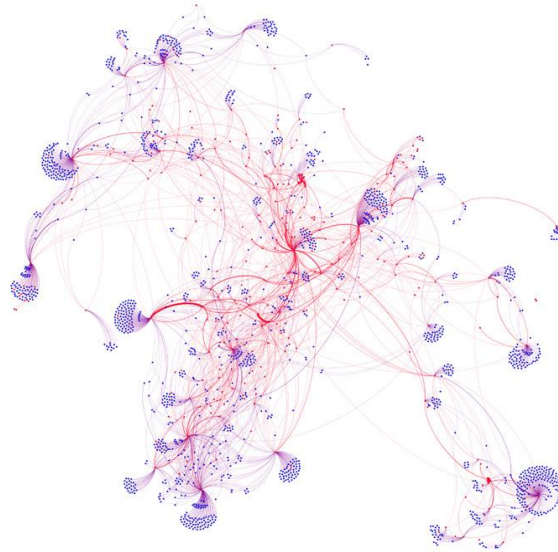
# Connected



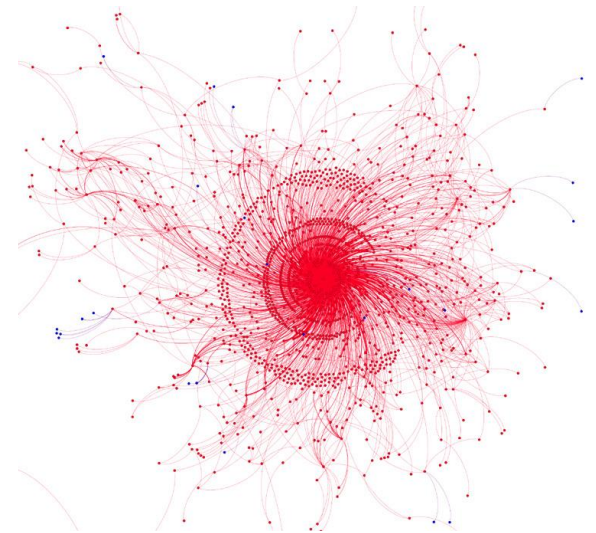
# Connected Data



Manufacturing



Construction



Finance

Models & Drawings

RFIs

Issues

Cost

Milestones





# Insight

## United Construction Bayfront Arena

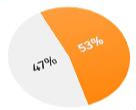
### Safety Risk Today



High Risk Today

The safety risk for this project is high, and has been trending upward for the past week.

Housekeeping Issues



### Subcontractors

- 5 Need Assistance
- 100% of submittals
- Nesting Pav., LLC
- Reliant Rebar, LLC
- ProAm Services, Inc.
- Lewis & Clark Services
- Amy Ventilation, Inc.

### Positive Observations



### Fatal Four Safety Issues

● Fatal Four ● Other



### Subcontractor Safety Risk

Name	Total
Nesting Paving Co...	367
Reliant Rebar, LLC	305
ProAm Services, Inc.	272
Gateway Window...	261
Allied Contracting...	236
Utility General Com...	121
O'Bay Interiors	120
Lewis & Clark Ser...	99
Tarhon Construction	96
AMY Ventilation, Inc.	87

	Risk	Caught	Eliminated	Other	Total
Subcontractor	66	54	20	24	124
Subcontractor	32	23	9	5	69
Subcontractor	22	11	8	2	43
Subcontractor	73	31	26	24	154
Subcontractor	5	33	16	24	78
Subcontractor	66	34	11	3	114
Subcontractor	2	54	2	3	61
Subcontractor	5	33	6	11	55
Subcontractor	98	34	6	3	141
Subcontractor	5	14	11	2	33

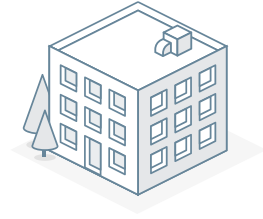
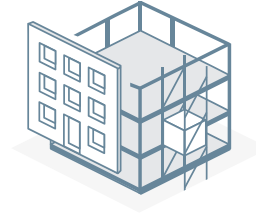
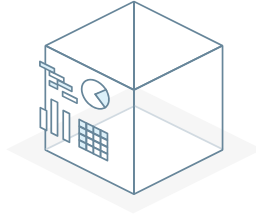
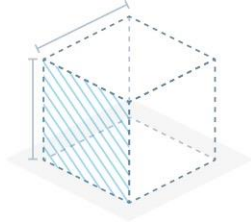
Hazards

Risks





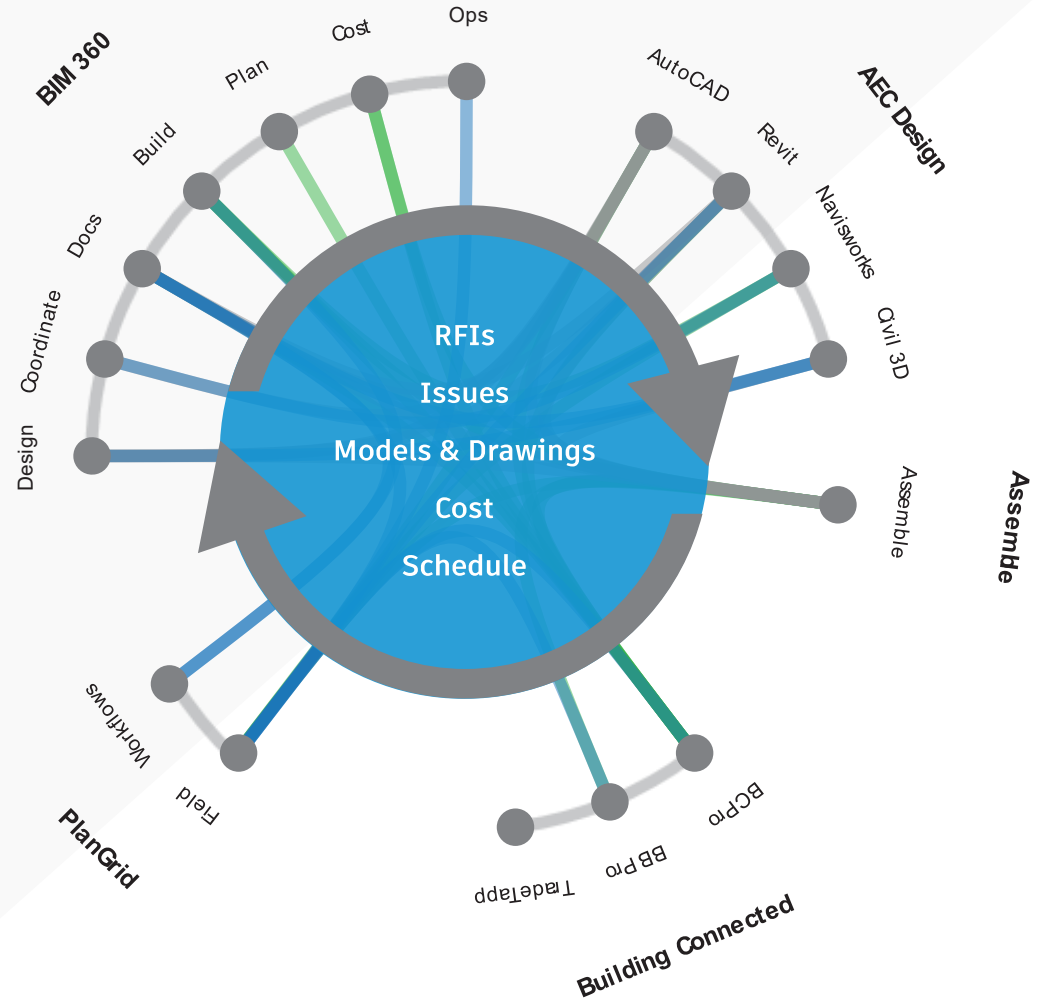
# AUTODESK CONSTRUCTION CLOUD™



	DESIGN	PLAN	BUILD	OPERATE
<b>Capabilities</b>	<ul style="list-style-type: none"> <li>• Design Authoring</li> <li>• Design Collaboration</li> </ul>	<ul style="list-style-type: none"> <li>• Model Conditioning</li> <li>• Model Coordination</li> <li>• Quantification</li> <li>• Bid Management</li> <li>• Qualification</li> </ul>	<ul style="list-style-type: none"> <li>• Project Management</li> <li>• Field Collaboration</li> <li>• Quality &amp; Safety</li> <li>• Cost Control</li> <li>• Commissioning</li> </ul>	<ul style="list-style-type: none"> <li>• Facilities Maintenance</li> <li>• Asset Lifecycle</li> </ul>
<b>Shared Data</b>	<b>Data</b> Models · Drawings · Issues · Specifications · RFIs · Cost · Meeting Minutes · Assets · As-Built			
<b>Insight</b>	<b>Predictive Analytics &amp; Risk Management</b> Predictive Analytics · Benchmark Reports · Mitigation Strategies			
<b>Network</b>	<b>Builders Network</b>			



# AUTODESK CONSTRUCTION CLOUD™



# Inertia

*noun*

1. a tendency to do nothing or remain unchanged



# WE CHALLENGE PEOPLE TO WORK SMARTER

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[#CONNECT2COLLABORATE](#)