



Scandinavian AEC Digital Forum

Construction Trends & Vision of the Future

Rob Matheson

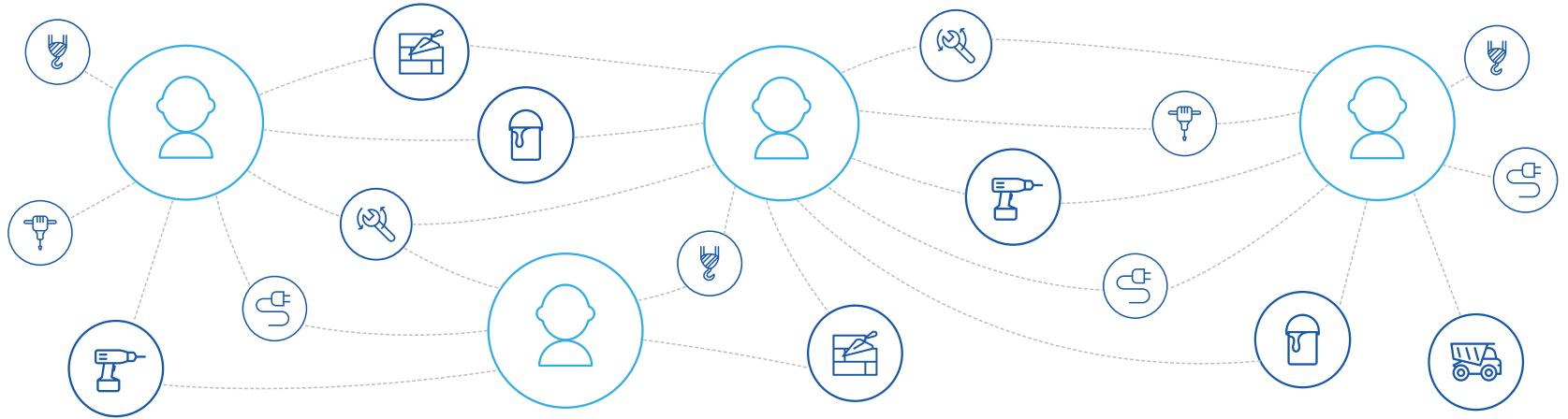
Snr Manager, Regional Sales, EMEA | Autodesk Construction Solutions



Construction is Collaborative, Yet Fragmented



Construction can be Collaborative, and **Connected.**





**Flat
productivity**



**Attracting and
retaining talent**



Effective collaboration



Managing innovation



**Rising
complexity**



**Reducing environmental
impact**



Digitisation

Moving from analogue processes to digital processes

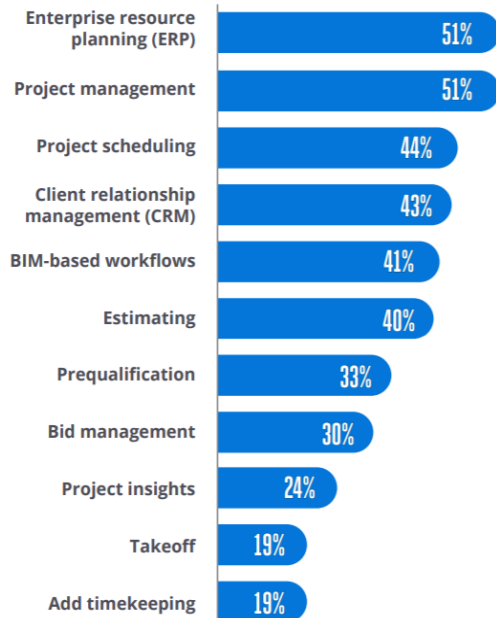
Digitalisation

Utilising digital to transform how we operate

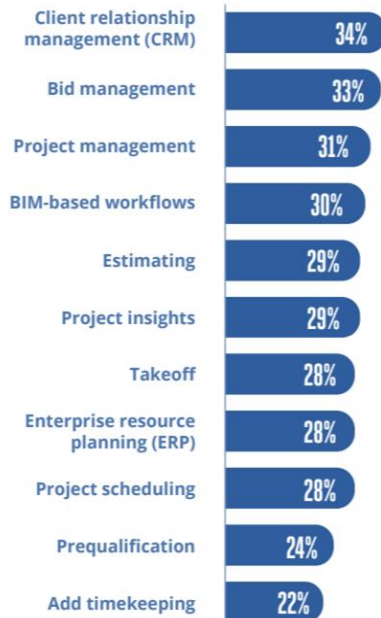


Where are the investments being made?

Current investments



Planned software investments



Top 3 innovative technology investments construction companies planned in the next 18 months



**Predictive analytics/
big data**



**Internet of Things
(IoT)**



Drones

Source: IDC-Autodesk DX Construction Maturity Pulse, n = 835



Increase Revenue



Reduce Cost



Minimise Risk / Compliance



Focusing on the right level to drive value

Prioritising outcomes to realise business results



BIM - The future of school infrastructure for Sweden

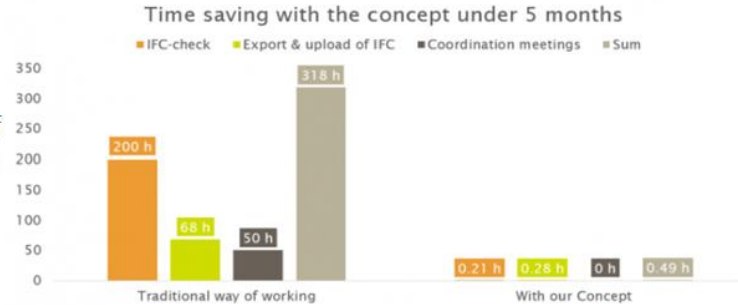


Tyréns and Swedish school body use BIM 360 to build a template for sustainable future

Tyréns are a leading Swedish consultancy in the field of community building, and work closely with educational institutions (SISAB in this case, who own, develop and manage the majority of schools in Stockholm).

Working together they developed the **BIM Future School Starter Package** – a reusable digital model that enables the best technical and spatial solutions. Using BIM 360 as their primary collaboration they set clear time, cost and quality goals. This resulted in:

- The removal of barriers & siloed approach
- Huge reduction in errors
- **648% TIME savings vs 'traditional' ways' in the activities identified on the right alone** (49 hours vs 318 hours)
- **473% COST savings** (SEK 60.45k vs SEK 286.2k)



Why is measuring adoption is so important?



**BASIC
ADOPTION**
Who is using it?
When are they using it?

**EFFECTIVE
ADOPTION**
What are they doing?
Are they doing it right?

IMPACTFUL ADOPTION
Is it driving efficiency?
Is it driving business value?

The Covid-19 Challenge

..and the construction industry's
response



COVID-19



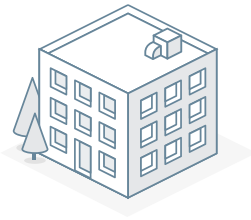
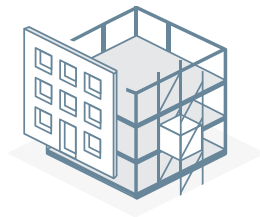
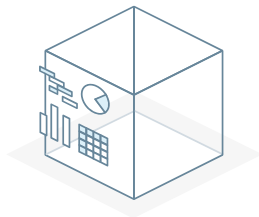
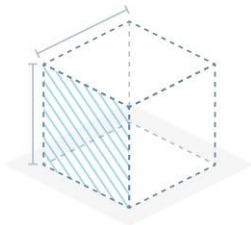


AUTODESK **CONSTRUCTION CLOUD**™





AUTODESK CONSTRUCTION CLOUD™



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

The Autodesk Advantage



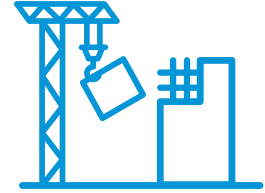
Leadership in Design
and BIM



Breadth of
Portfolio



Global Presence and
Support



Enabling Convergence of
Manufacturing and
Construction



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