CS473421 – What is Autodesk Construction Cloud?

Brandon Lacourciere
Director, Customer Success | @bcourse
Safe Harbor

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Brandon Lacourciere

Brandon grew up in the construction industry, joining his first framing crew at age 16. After receiving his degree in Architecture from Lawrence Technological University, he returned to the construction industry as an estimator and project manager. Noticing an opportunity to improve construction processes through BIM, he founded RevCore Construction Services, specializing in virtual construction and high definition laser scanning. Brandon has spent most of his career partnering with General contractors, union trades, and specialty contractors to solve complex problems on hundreds of projects. Today he is the Director of Customer Success for Autodesk Construction Solutions. He and his team are committed to solving industry challenges and helping customers optimize their workflows using the Autodesk Construction Cloud.
Agenda

1. Autodesk’s journey in construction
2. Where we’re going
CONSTRUCTIONS NOT EASY

Winning work
Broken Processes
Project Delays
Low Margins
Avoidable Rework
Rising Complexity
Technology can make a bad process worse.
Construction Technology Ecosystem

Source: McKinsey Analysis

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Autodesk’s Journey in Construction
Autodesk’s Journey in Construction

- Design & Coordination
- Field Execution
- Project Lifecycle
- Connected Construction
Guiding principles along the Journey

Listen to the customers

Seek solutions to address your pain points

Know our own limits
Autodesk’s Journey in Construction
SOCIAL MEDIA ARRIVES
Autodesk’s Journey in Construction
Autodesk’s Journey in Construction

- Project Lifecycle
- Field Execution
- Design & Coordination

Timeline:
- 2006
- 2008
- 2010
- 2012
- 2014
- 2016
- 2018

Logos:
- Revit
- Buzzsaw.com
- Autodesk Navisworks
- Autodesk Constructware
- Horizontal
- Vela Systems
- GTP
- Graitec
- OurPlan
- Autodesk BIM 360
- Forge
Construction is Collaborative, Yet Fragmented

>70% of the global construction industry is still working from traditional paper-based processes
Autodesk’s Journey in Construction

- **Project Lifecycle**
  - **Field Execution**
  - **Design & Coordination**

- Timeline from 2006 to 2018 with various Autodesk products and partnerships.

- Autodesk’s Connected Construction initiative.

- Logos and product names include Revit, Buzzsaw, Navisworks, Constructware, Vela Systems, GTP, FORGE, Autodesk BIM 360, PlanGrid, Graitec, and ourPlan.
Skanska UK Connects the Field and Office
Autodesk’s Journey in Construction

2020
Construction is **Collaborative, Yet Fragmented**
Connected construction technology can transform the business

<table>
<thead>
<tr>
<th>Capabilities</th>
<th>Design</th>
<th>Plan</th>
<th>Build</th>
<th>Operate</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Design Authoring</td>
<td>Model Coordination</td>
<td>Project Management</td>
<td>Facilities Maintenance</td>
</tr>
<tr>
<td></td>
<td>Design Collaboration</td>
<td>Model Conditioning</td>
<td>Cost Control</td>
<td>Asset Lifecycle</td>
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<tr>
<td></td>
<td></td>
<td>Quantification</td>
<td>Field Collaboration</td>
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<tr>
<td></td>
<td></td>
<td>Bid Management</td>
<td>Quality &amp; Safety</td>
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<tr>
<td></td>
<td></td>
<td>Qualification</td>
<td>Commissioning</td>
<td></td>
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</tbody>
</table>

| Shared Data | Models · Drawings · Issues · Specifications · RFIs · Cost · Assets · As-Builts |
| Insight     | Predictive Analytics · Benchmark Reports · Mitigation Strategies |
| Network     | Builders Network |
AUTODESK CONSTRUCTION CLOUD™

DESIGN
- AUTODESK BIM COLLABORATE
- AEC COLLECTION

PLAN
- AUTODESK QUANTIFY
- AUTODESK COORDINATE

BUILD
- AUTODESK BUILD
- PYPE

OPERATE
- BUILDING OPS

AUTODESK DOCS
- Models · Drawings · Issues · Specifications · RFIs · Cost · Assets · As-Builts · Photos · Videos

INSIGHTS
- Dashboards · Reports · Construction IQ · Data Connector

ADMINISTRATION
- User Management · Autodesk ID · Project Administration

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### Capabilities

<table>
<thead>
<tr>
<th>Design Collaboration</th>
<th>Coordination</th>
<th>Quantification</th>
<th>Project Management</th>
<th>Cost Management</th>
<th>Quality</th>
<th>Safety</th>
<th>Project Closeout</th>
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</thead>
<tbody>
<tr>
<td>Workflows</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>• Constructability Review</td>
<td>• Model Coordination</td>
<td>• Scope Analysis</td>
<td>• RFIs</td>
<td>• Contract Creation / Administration</td>
<td>• Quality Planning</td>
<td>• Safety Planning</td>
<td>• Commissioning</td>
</tr>
<tr>
<td>• Change Visualization</td>
<td>• Constructability Review</td>
<td>• 2D/3D Take Off</td>
<td>• Submittals</td>
<td>• Quality Checking</td>
<td>• Safety Training</td>
<td>• Turnover Documentation</td>
<td>• Warranty Mgmt.</td>
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<tr>
<td>• Revit Collaboration</td>
<td>• Quality Planning</td>
<td>• Meeting Minutes</td>
<td>• Meeting Minutes</td>
<td>• Change Orders</td>
<td>• Punchlists</td>
<td>• Safety Observations</td>
<td>• Final Completion</td>
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<tr>
<td></td>
<td>• Issue Management</td>
<td>• Daily Reports</td>
<td>• Payment Applications</td>
<td>• Payment Applications</td>
<td>• Issue/Task Management</td>
<td>• Safety Inspections</td>
<td>• As-Built Survey</td>
</tr>
</tbody>
</table>

### Document Management

| Document Control · Document Versioning · Document Approvals |

### Unified Data

| Models · Drawings · Documents · Cost Items · Assets · As-Builds · Photos · Videos |

### Insights

| Dashboards · Reports · Construction IQ · Data Connector |

### Admin

| Admin Console · Permissions · Project Setup · Templates · Notifications |

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# Project Directory

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Project Type</th>
<th>Project Code</th>
<th>Last Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF MoMa Museum</td>
<td>ACC</td>
<td>XXXXXXXXXX</td>
<td>6 hours ago</td>
</tr>
<tr>
<td>Main St, Houston, Texas</td>
<td></td>
<td></td>
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<tr>
<td>15550 Banner Behavior Health Hospital (BBHH)</td>
<td>ACC</td>
<td>XXXXXXXXXX</td>
<td>Feb 10, 2019</td>
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<tr>
<td>Main St, Scottsdale, Arizona</td>
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<tr>
<td>15592-SJHMC Absorption Chiller Replacement</td>
<td>BIM360</td>
<td>XXXXXXXXXX</td>
<td>Nov 24, 2018</td>
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<tr>
<td>18600 - SOMC Vacuum Pump Replacement</td>
<td>PlanGrid</td>
<td>XXXXXXXXXX</td>
<td>Sept 14, 2019</td>
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<tr>
<td>Main St, Phoenix, Arizona</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>19628 - ADC Tiberius - Chiller Cooler Expansion</td>
<td>ACC</td>
<td>XXXXXXXXXX</td>
<td>Feb 10, 2019</td>
</tr>
</tbody>
</table>
Progress Tracking
The Next Phase of the Journey
Autodesk Acquires Pype
Listen to our customers

Seek solutions to your pain points

Know our own limits
120 Improvements