

Build Smarter, Win More

Jobs: How Al is Transforming

Construction Management



Background



KonstructIQ
To empower builders with software that streamlines projects and drives financial performance.

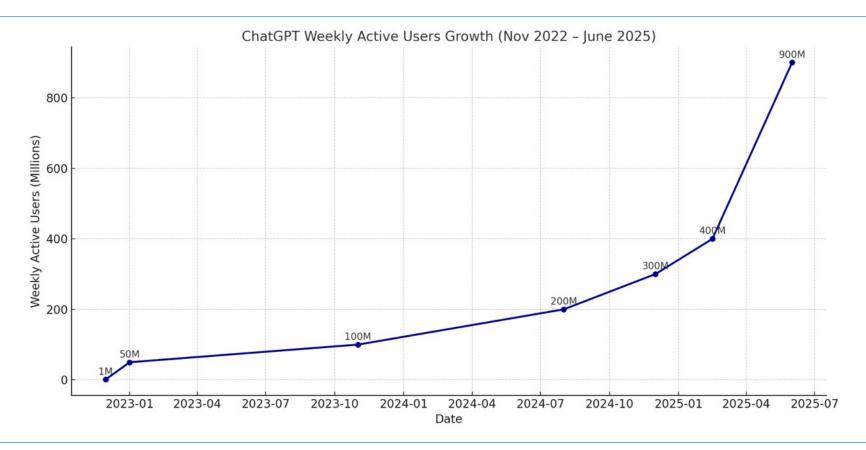


Joy Ghanekar Chief Product Officer, KonstructlQ

U.S. Bank talech Zynga Yahoo! Amazon



Al consumer adoption is unlike anything before it



Al is rapidly rewiring every industry around us

E-commerce



Financial Services



Entertainment









Construction is ripe for AI transformation...

70%

of all construction projects are delayed or above budget

21st

Ranked second last out of all industries in digitization

Where Al Is Already Driving Results in Construction



Extract zoning code conflicts from drawings

Turn unstructured scope into detailed estimates

Simulate schedules and surface early bottlenecks or risks

Conversational Field Assistant Auto-generate pay apps from verified progress

Analyze budget vs. actual performance across trades

How Al Turns Construction Data into Decisions



Understand



Analyze



Act

Understand





Natural language search

"Was the kitchen wall approved for removal?"



Image & video Understanding

"Auto-tag photos showing progress on framing"



Speech to text

"Transcribe a walk-and-talk site meeting into a punch list"



Document and data extraction

"Find workers comp policy number for my sub"

Analyze





Summarization

"Send a summary of this week's activity"



Anomaly Detection

"Hours logged on a phase that hasn't started yet"



Classification

"Auto-tag invoice line items to cost codes"



Prediction

"Week 6 cash shortfall due to slow invoice payments"

Act





Multi-modal output (voice, text, image, video)
"Create an executive summary of this proposal"



Trigger Workflows
"Automatically close
to-dos based on daily
logs"



Suggest and Recommend "Crew size is too low for this job"

Highlighting 3 use cases

Estimating

Daily Logs

COI





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Build Estimates in Hours, Not Days



X The Problem

- Manual, time-Consuming
- Errors lead to lost profit or blown budgets
- Hard to delegate requires experience

1 Technical Challenges

- Every project is unique
- Customer inputs are vague or incomplete
- Lack of cost breakdown information
- Lack of common structure
- Varying assumptions

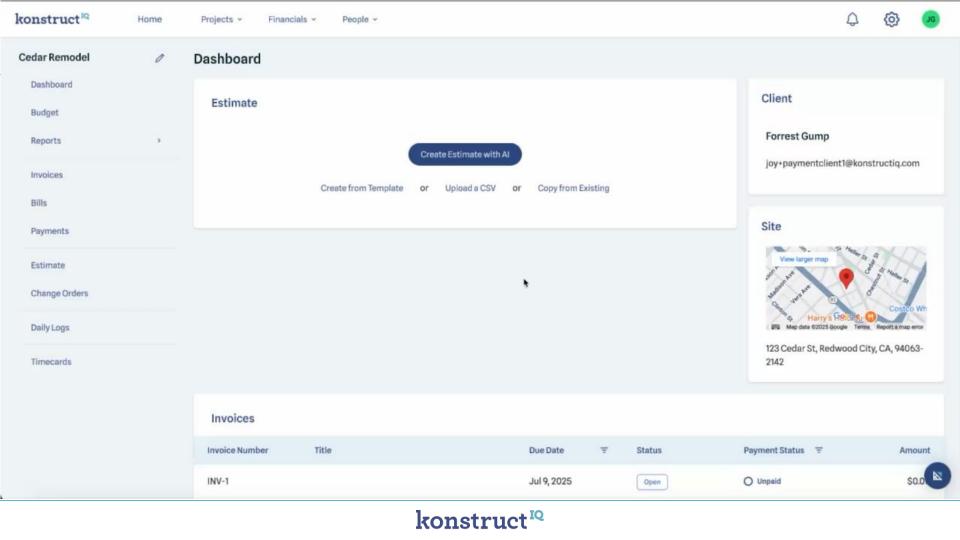
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Build Estimates in Hours, Not Days

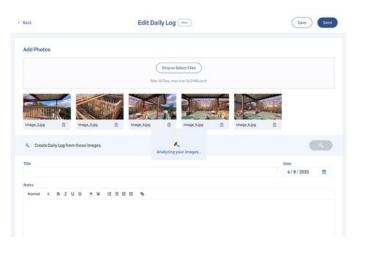




- Natural Language Input
- Support in multiple languages
- · Localized, Margin-Aware Pricing
- Conversational Adjustments via Al
- Formatted Using Historical Preferences



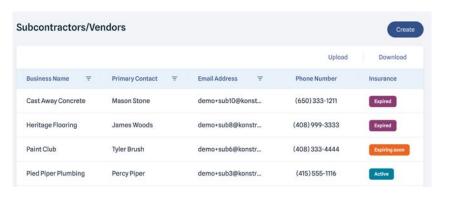
Turn Photos and Notes into a Professional Updates



- Detect site progress using image analysis
- Summarize logs, notes, and voice memos into clean updates
- Generate and share daily or weekly reports automatically
- Flag missing data or unusual activity with anomaly detection
- Sync with schedule to highlight delays and sequencing issues

Speed up communication, reduce delays

Stay Ahead of Risk with Al-Tracked Certificates of Insurance



- Identify and extract key info from uploaded COIs
- Track expiration dates and required coverage terms
- Send alerts before coverage lapses to stay compliant

Stay compliant, reduce risk

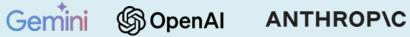
Al isn't perfect. Some things to be aware of...

- Model Drift & Evolving Behavior
- Inconsistent Outputs Without Guardrails
- Garbage In, Garbage Out
- **M** Struggles with Edge Cases & Complex Workflows

Why can't I just use chatGPT

- "Build an estimate"
- "Summarize these daily logs"
- "Why are we over budget?"







CONSTRUCTION SYSTEM OF RECORD									
Sales and Estimating	Project Management	Financials	Staff	Partner Management	Integrations				
CRM	Selections	Invoicing	Staff Roles and Permissions	Client Portal	Accounting				
Estimates	Change Orders	Bill Payment	Approval Workflows	Subcontractor Portal	Time clock				
Proposals	Scheduling	Lien Releases	Timesheets	Digital Signatures and Approvals	Payroll				
Templates	Daily Logs	POs	Payroll	Compliance Tracking	Takeoffs				
Takeoffs	To-dos	Expense Management							
Bid Management	Messaging	Financing							
Cost Catalog	Document management	Reporting							

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So where next?

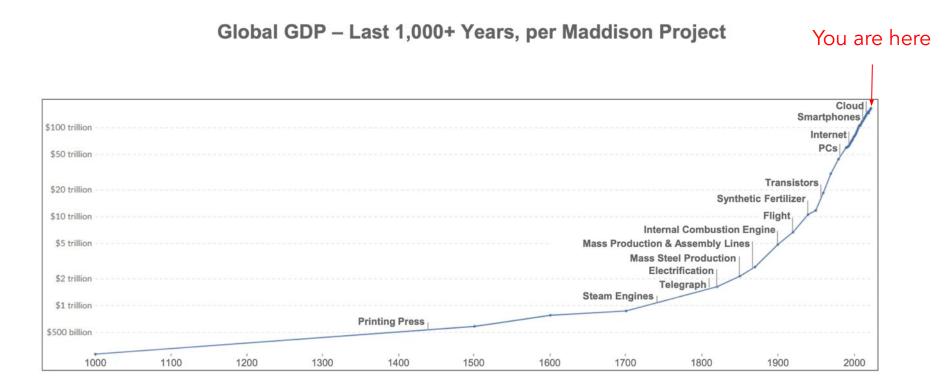
- Standardize & Digitize Your Core Systems
- **©** Start with One Use Case That Hurts
- 👱 Treat Al Like an Apprentice, Not an Expert
- **X** Use Purpose Built Tools in Conjunction with LLMs



THANK YOU



AI: The next industrial revolution or even bigger?



OK, so why can't I just use ChatGPT?

- Write an estimate
- Summarize a daily log
- Draft a client message
- Why are we over budget?

- Staff roles, permissions, time tracking
- Estimates & change orders
- Invoicing, billing, lien waivers
- Budget, cost tracking, analytics
- Payments, banking, payroll, expenses
- Subcontractor & vendor tracking
- Scheduling and site logs
- Catalogs and pricing logs
- CRM and customer communication



...but construction is messy and complex

Project differences



Unstructured Data



Multiple Stakeholders



Low margin for error



The Core Technologies Behind Construction Al



Natural language search

"Was the kitchen wall approved for removal?"



Image & video Understanding

"Auto-tag photos showing progress on framing"



Anomaly Detection

"Hours logged on a phase that hasn't started yet"



Summarization

"Send a summary of this week's activity"



Speech to text

"Transcribe a walk-and-talk site meeting into a punch list"



Classification

"Auto-tag invoice line items to cost codes"



Generation

"Create a project schedule from my estimate"



Interactive Chat

"What's the status of the garage foundation pour?"



Prediction

"Week 6 cash shortfall due to slow invoice payments"

and many more...

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