BENCHMARKING SURVEY AND ANALYSIS Material Procurement & Equipment Rental Processes June 2025

NEW HORIZONS

FOUNDATION
A Chance to Grow





FIELD MATERIALS

Leading Al Procurement Platform in Construction

90%

of PO & Invoice Processing Time Saved 5-10%

costs saved by auto-verifying invoices against POs





Materials/equipment are key elements in construction. The objective of this survey and analysis is to understand best practices in procurement to help provide major competitive advantage and identify opportunities for productivity gains to contractors.



Summary



First of its kind industry survey in the HVAC & sheet metal trade



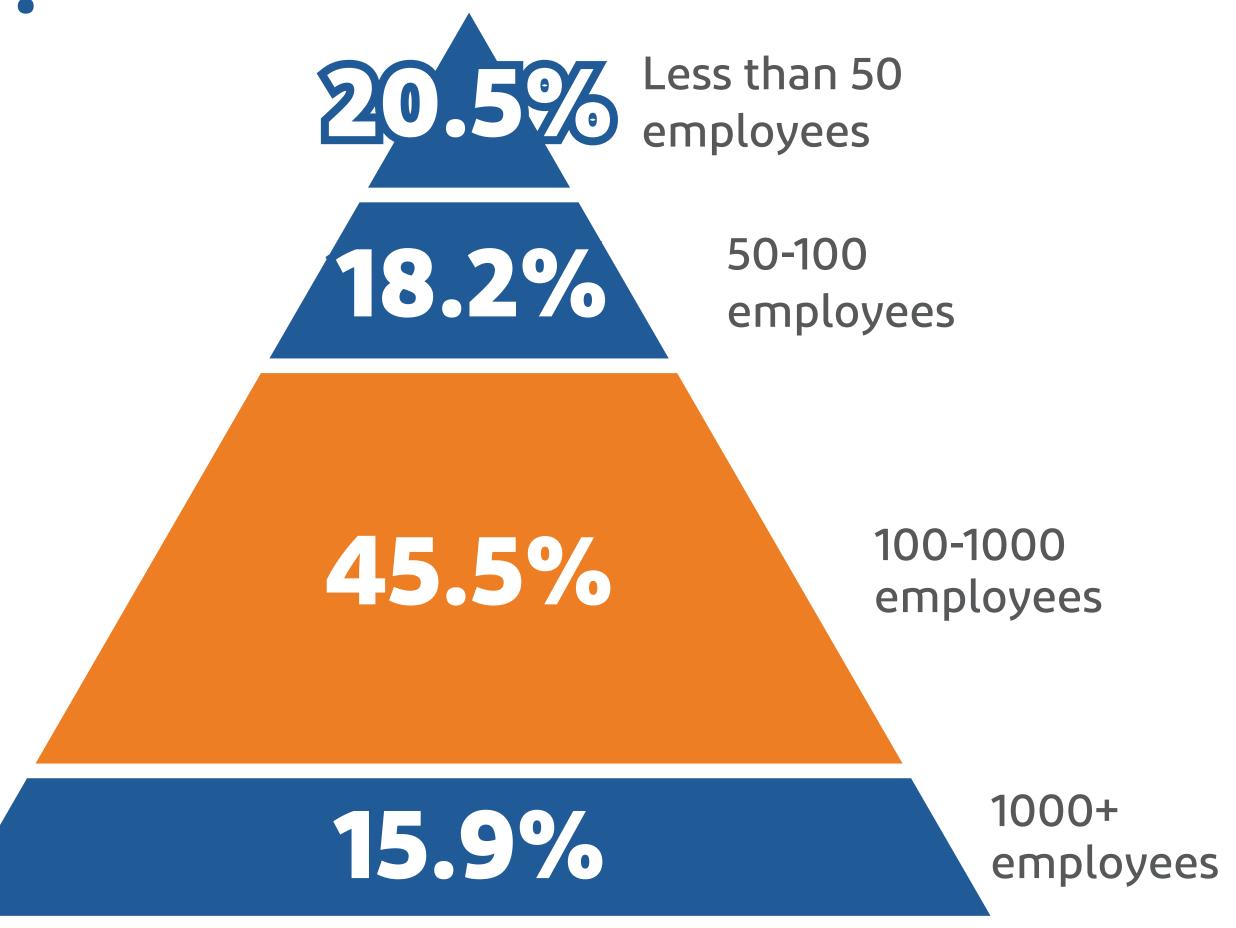
~50 organizations (SMACNA members)

How many people does your company employ?



Most respondents are from medium to large companies (100-1000 employees) – consistent with SMACNA membership.

There are fewer respondents from either extreme of the spectrum (small and very large companies).





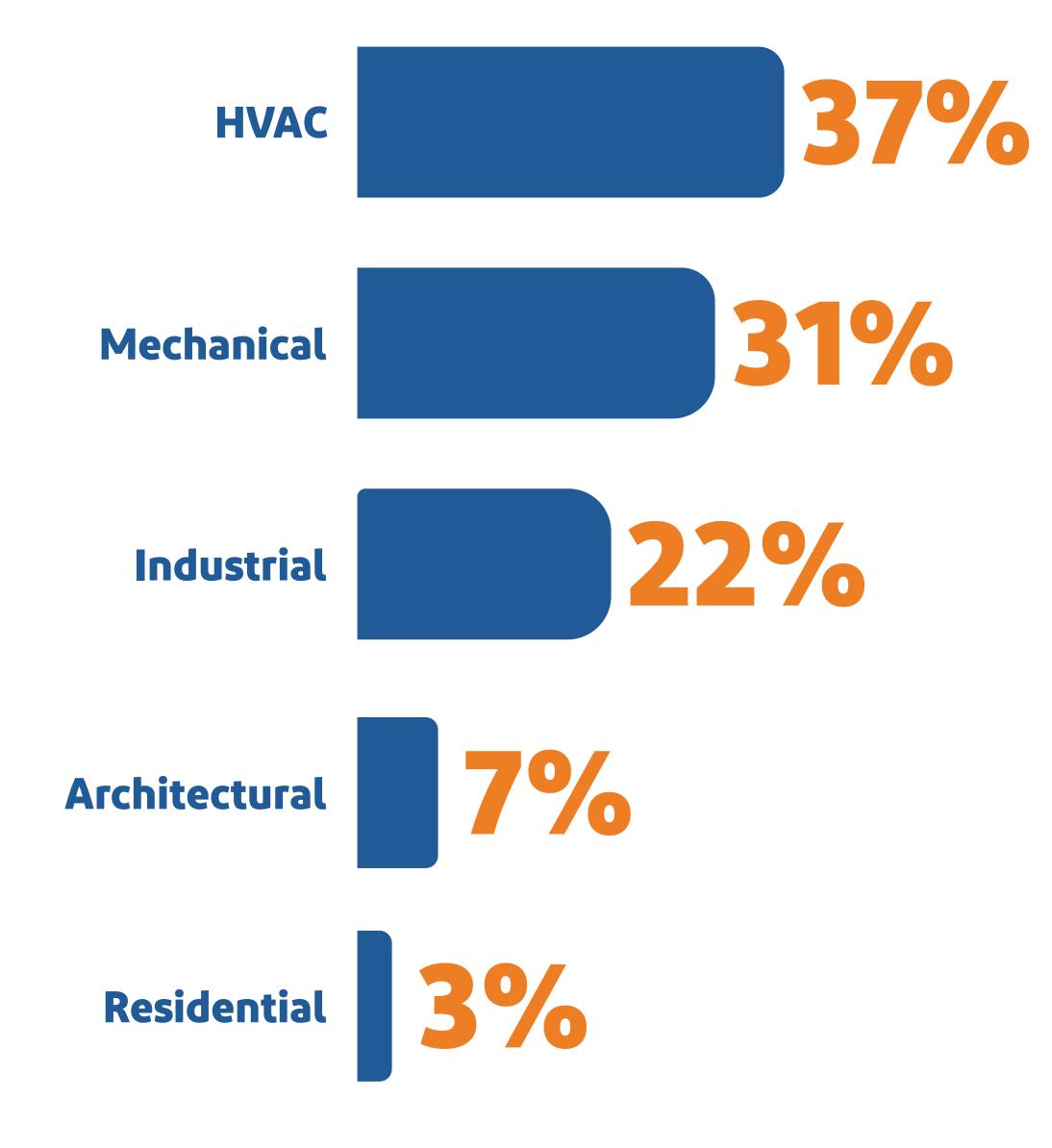


What area does your company focus on?



Data shows a clear majority falls into the HVAC and Mechanical areas, with less emphasis on Architectural and Residential focus areas.

> This is in line with the SMACNA membership distribution.



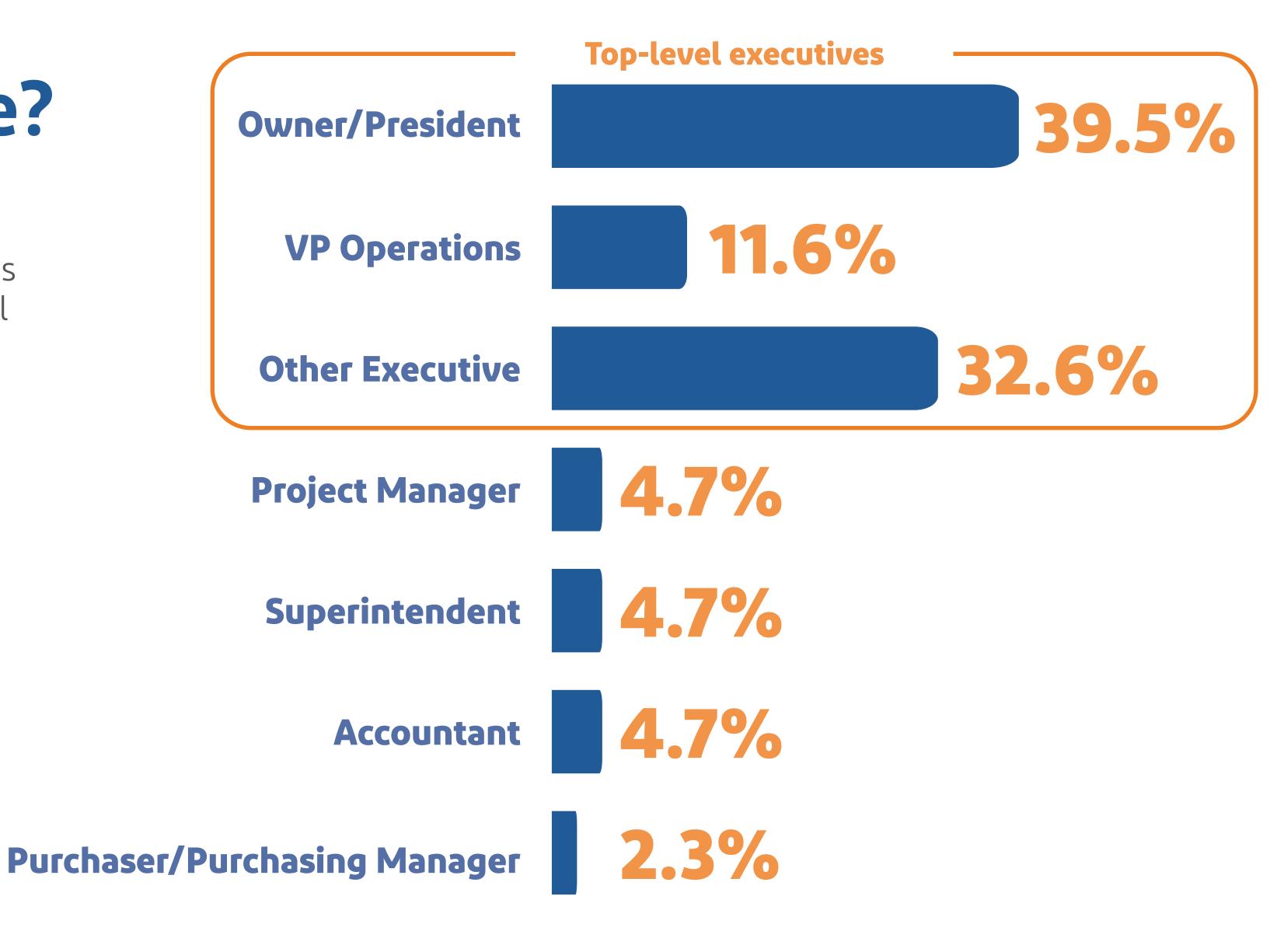




What is your role?



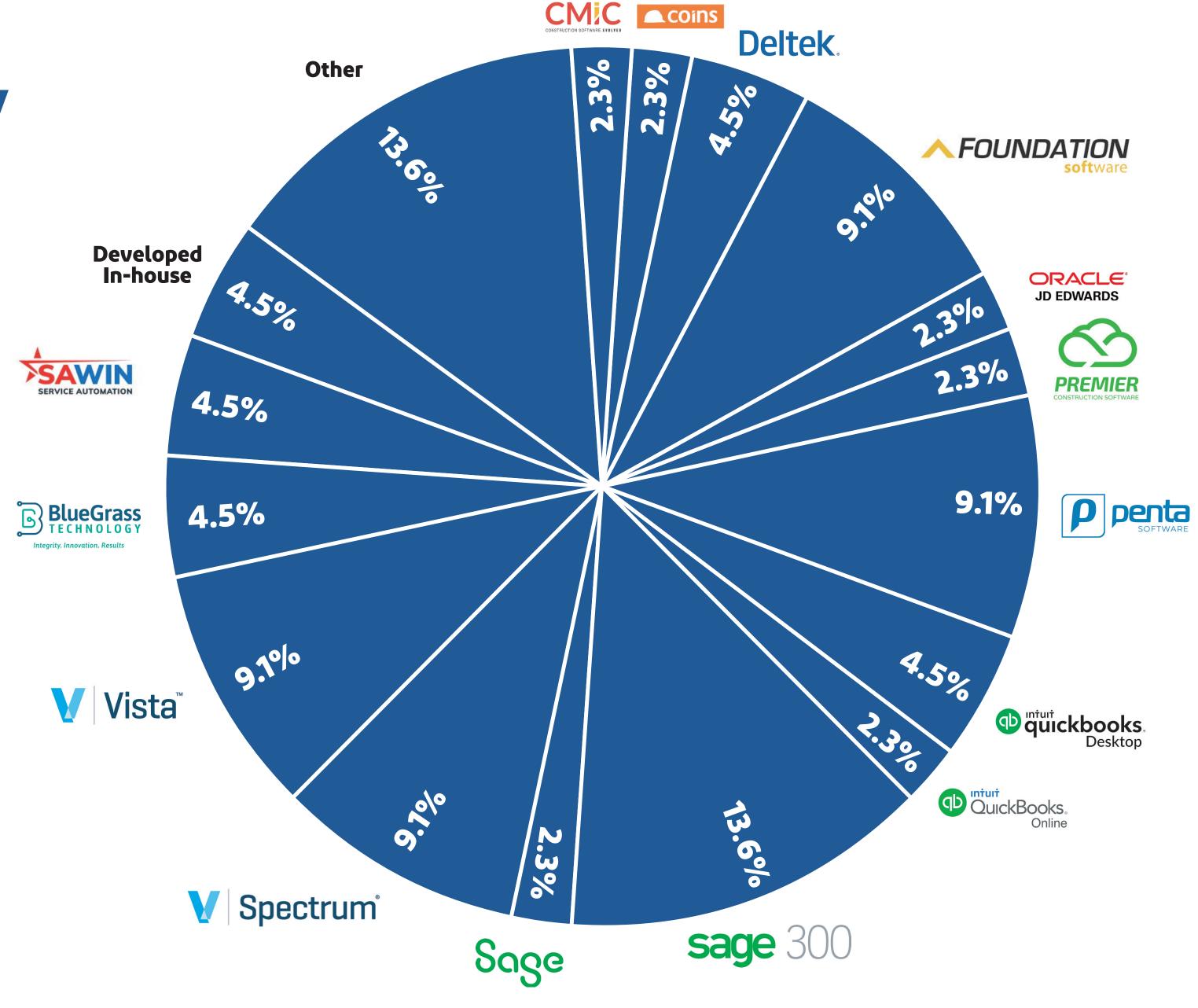
Most survey participants were top-level executives. There was a notable absence of mid-level management.







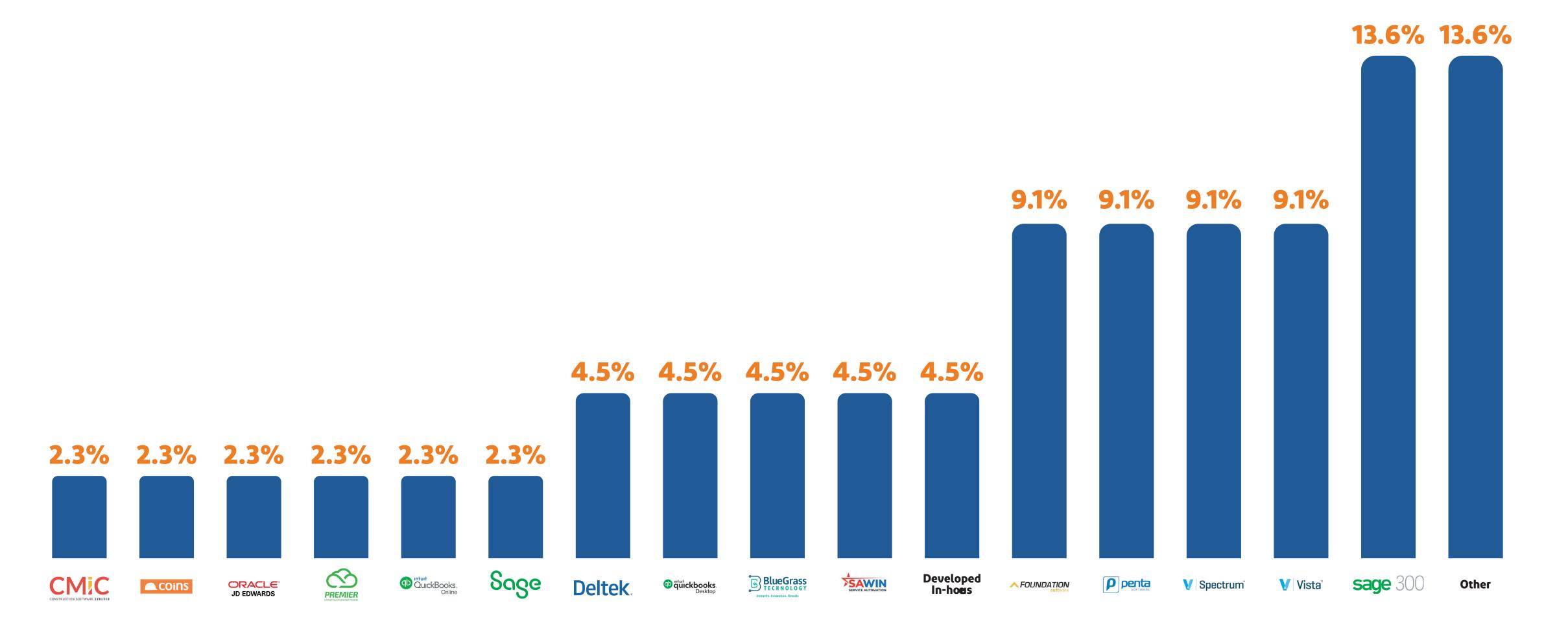
What accounting/ ERP software do you use?







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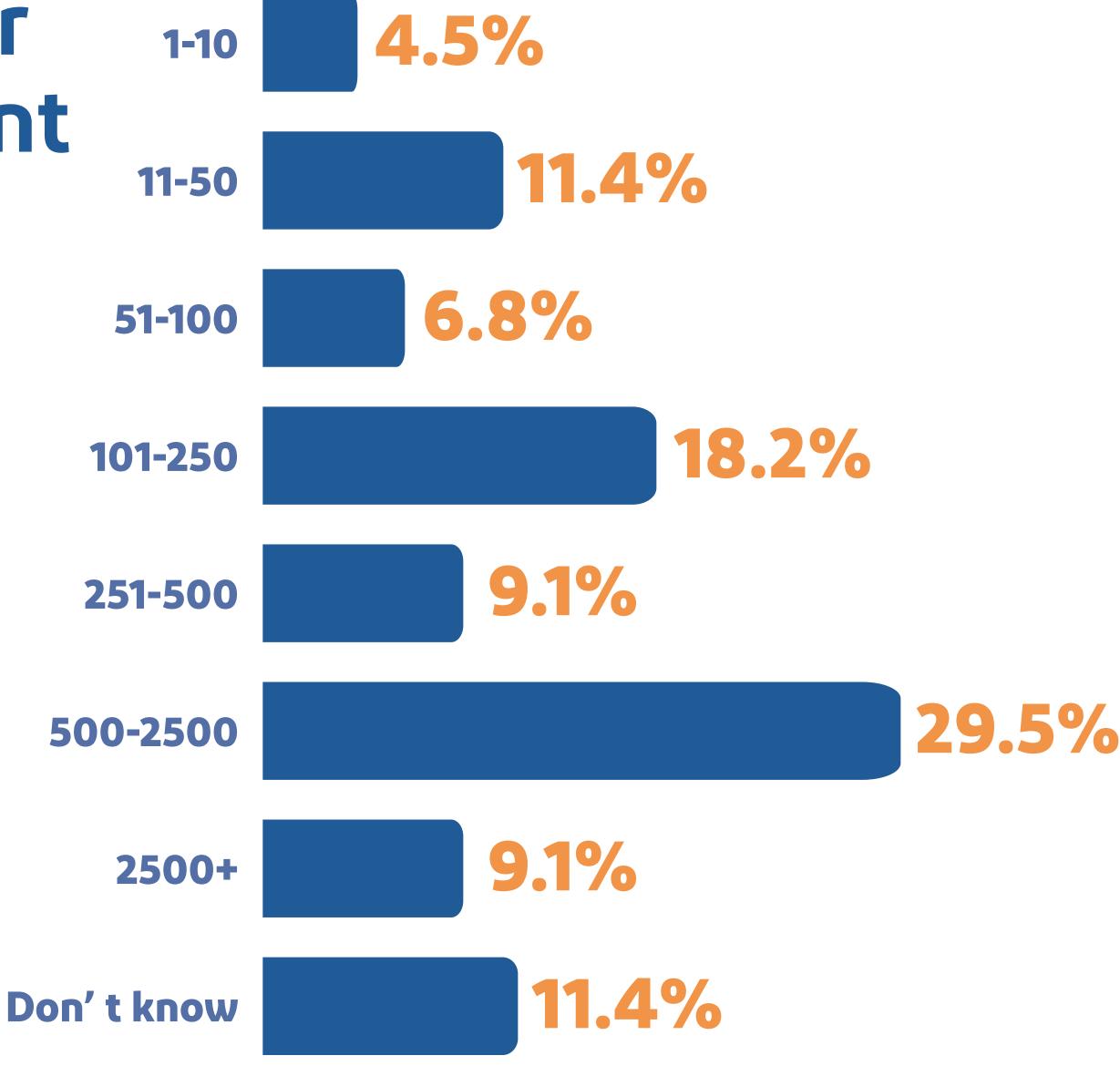


How many AP invoices for material orders/equipment rentals do you receive each month?



Data shows a diverse range of invoicing volumes, with a significant concentration in the higher volume category (500-2500 invoices).

Presence of respondents who don't know their invoice volume could suggest a lack of tracking or reporting processes in some organizations.







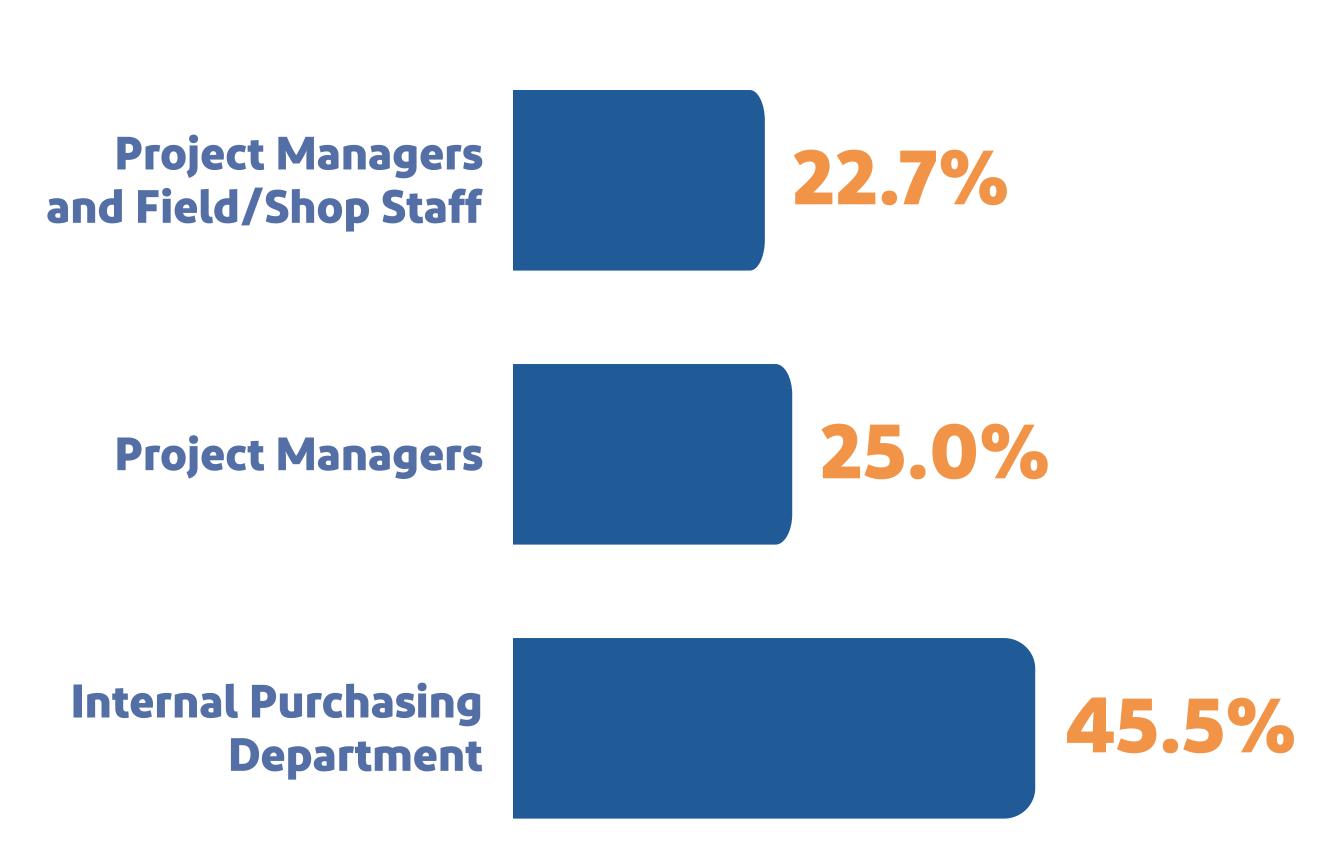
Who places material and equipment orders?





Larger, more structured organizations rely on purchasing teams for order management.

In smaller or more decentralized teams, PMs or field/shop staff take on more responsibility.







How do you handle packing slips for received materials?

We use an app to collect packing slips and correlates them with the right purchase order

9.1%



Most organizations still rely on physical packing slip handling. Very few use digital solutions like apps for packing slip management.

Organizations adopting digital tools may have greater efficiency and accuracy in their processes compared to those relying on manual methods.









Collected at job site/shop and physically sent to the office







Do you set up a separate PO for each material delivery?





The majority of organizations surveyed rely on POs to procure materials. This creates a lot of overhead work, which is why ~37% rely on blanket POs.

There is a need for technology to automate/streamline the process to reserve POs and digitally capture what gets purchased in the field.





Yes, separate PO
46.3%





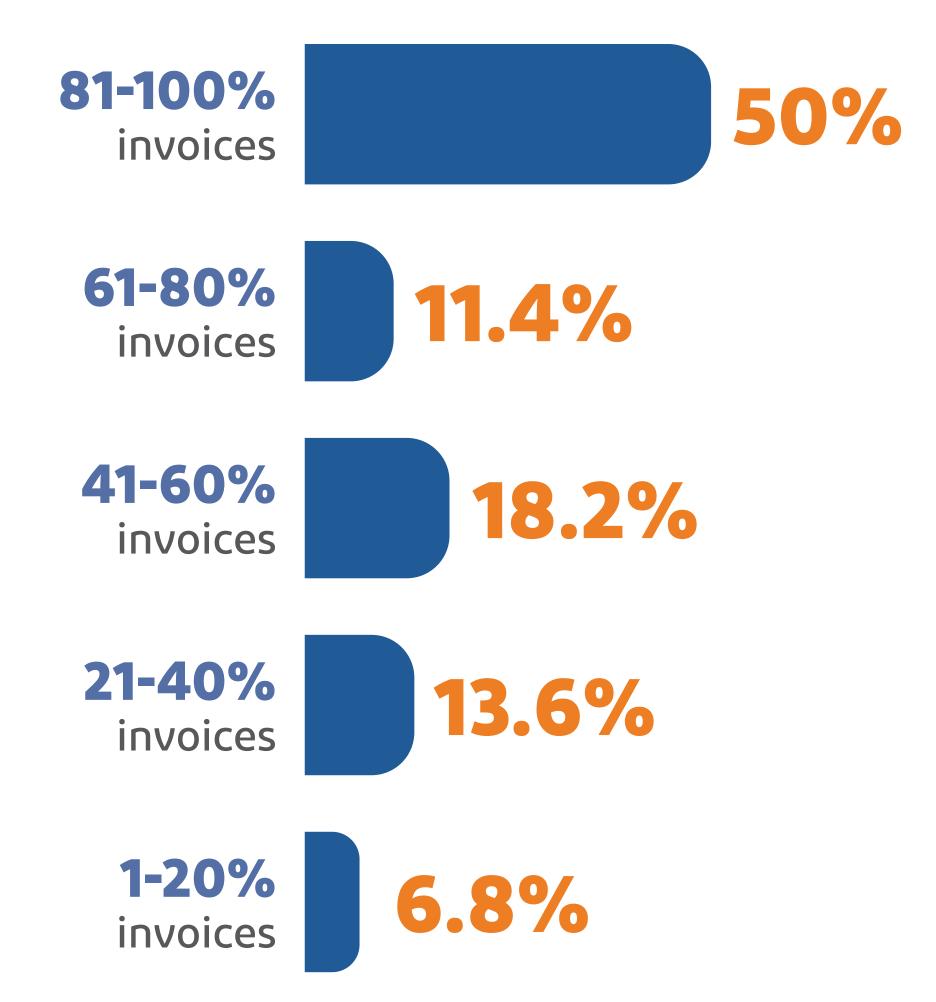
What percentage of your material and equipment invoices are received by email (vs snail mail)?



Half of organizations receive most invoices electronically.

About 20% receive majority of their invoices via snail mail - a major opportunity for improving operations.

Electronic delivery of invoices allows for automating processing of invoices - a major productivity gain for contractors.







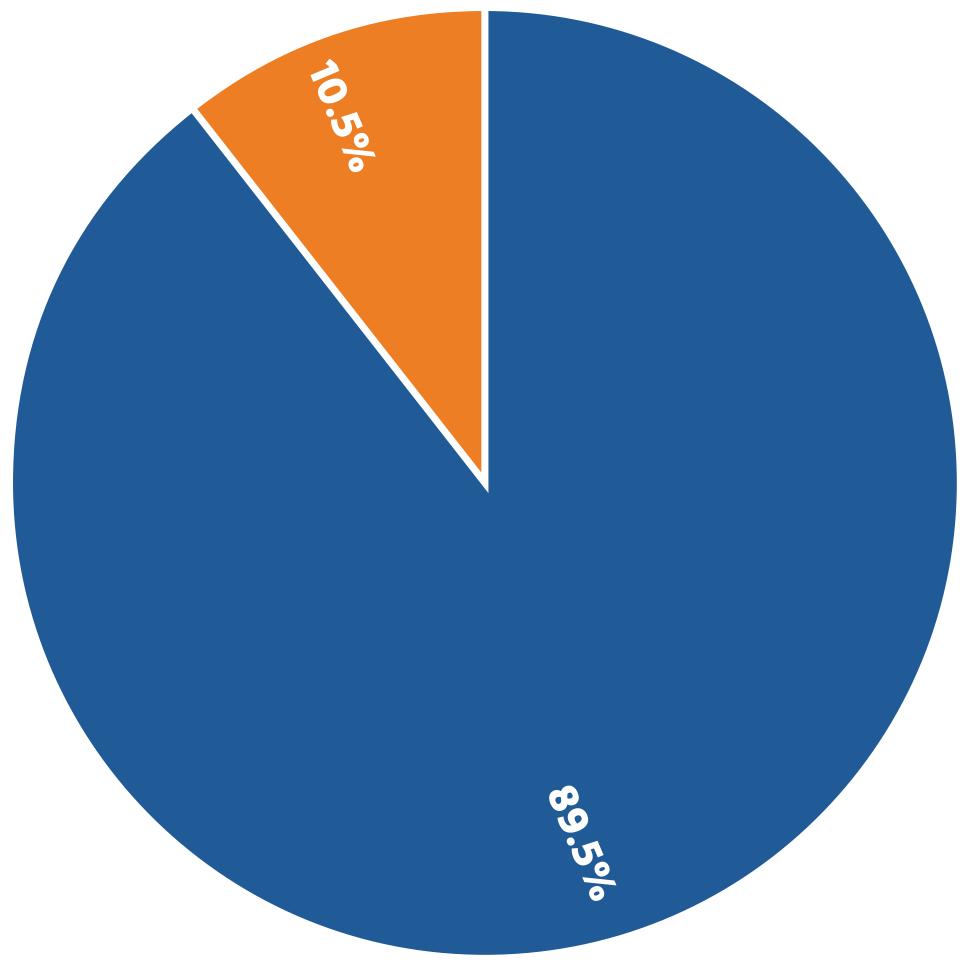
What's your process for handling invoices for materials and equipment?



The majority of organizations surveyed enter invoices into their accounting software and rely on an approval process from the project managers (PMs).

Automating the AP entry of invoices and approval processes is a major opportunity for productivity gains for contractors.





AP staff enters the invoices into accounting software; PMs review and approve





How do you track credits with material and equipment vendors?



The majority of organizations surveyed rely on accounting software to track credit memos. ~20% either don't track credits or rely on PMs.

Automating capturing of vendor credits and auto-applying credits to AP invoices can lead to significant cost savings for contractors.







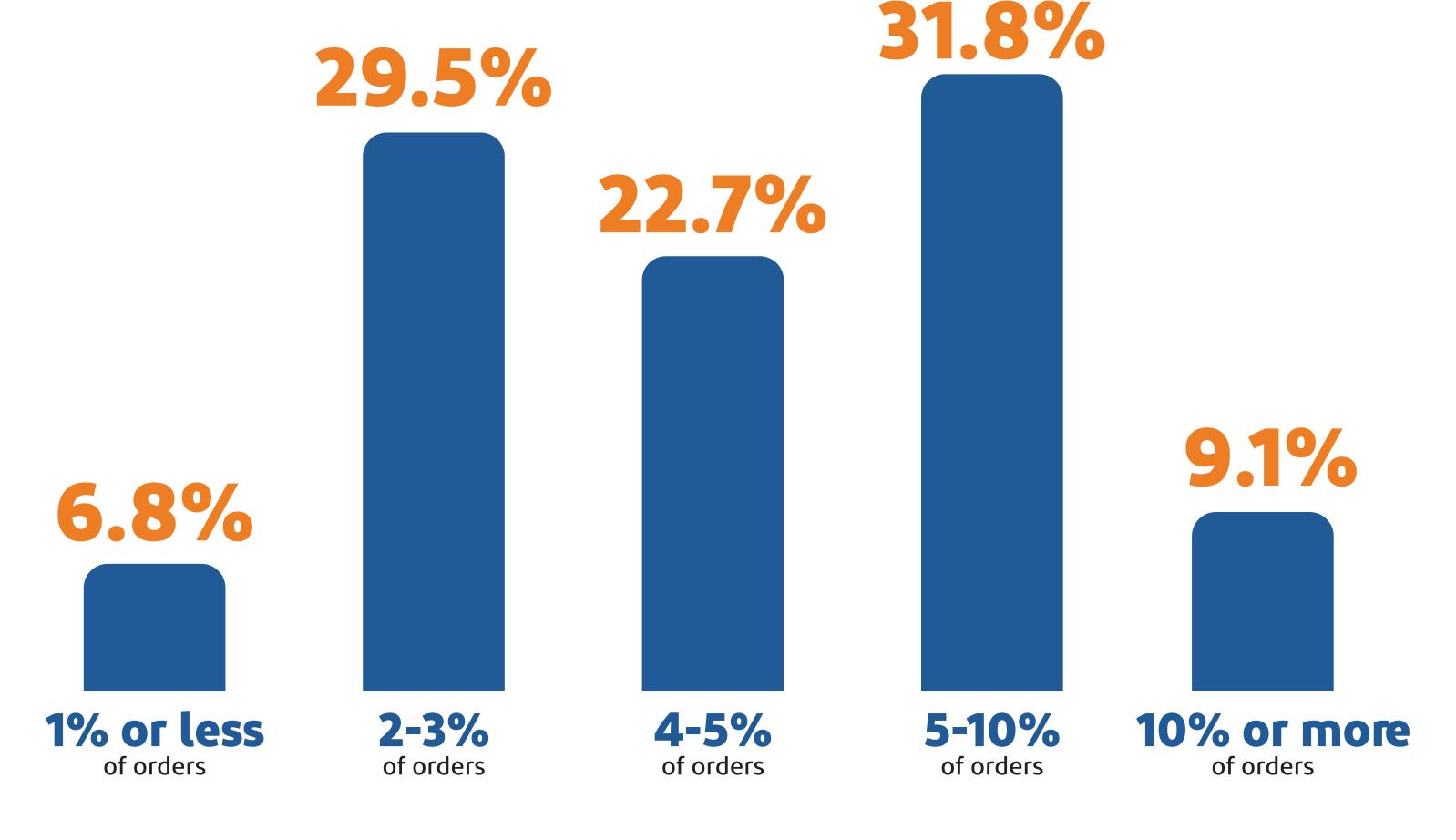
What percentage of orders have issues?

(e.g., missing items, damaged items, wrong qualities, etc.)



Over 40% of organizations experience issues with >5% of orders.

Solving order issues is time consuming. There is a need to digitally capture order issues and track their resolution.







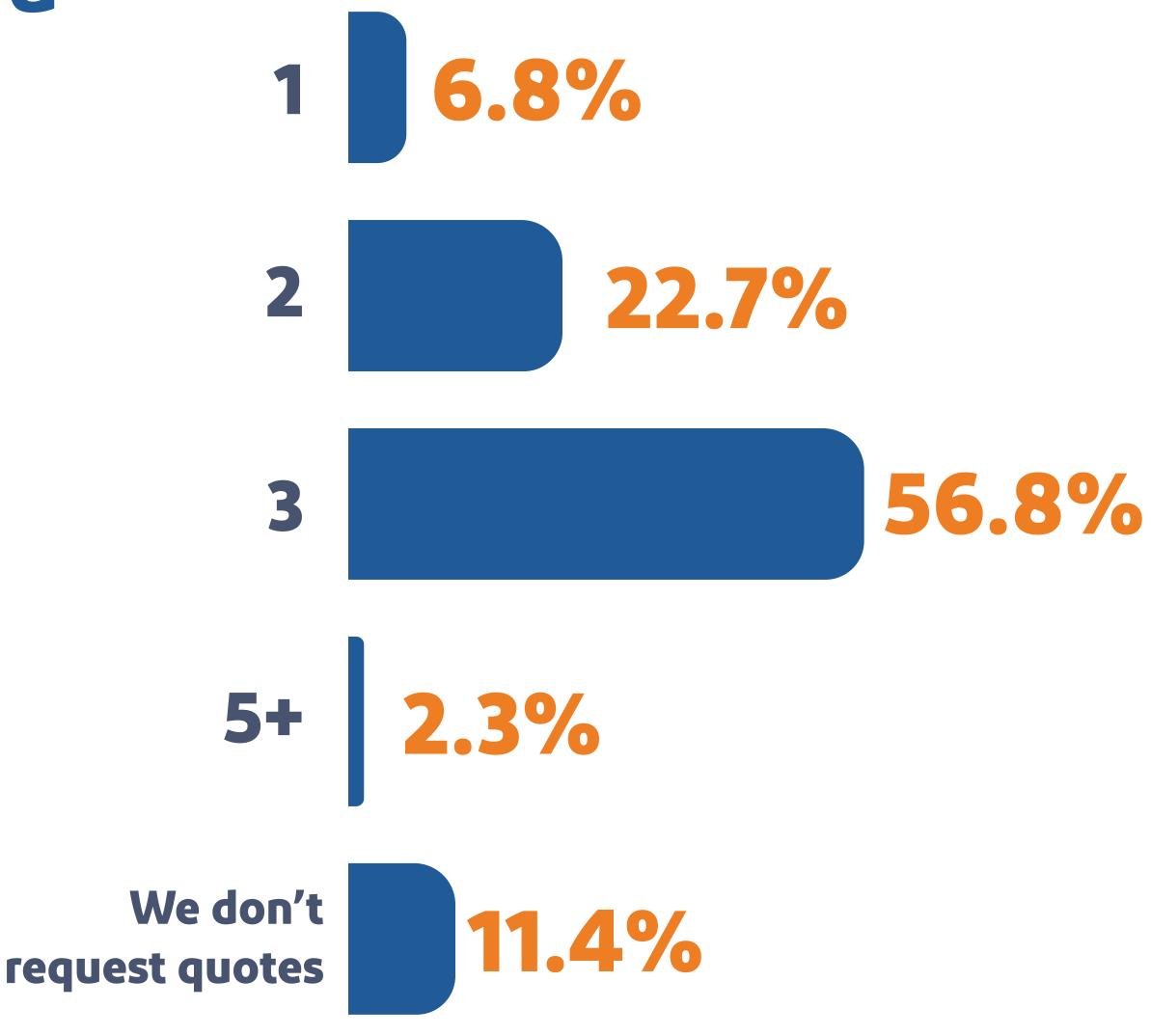
How many vendors do you get quotes from before deciding on a buyout (committed quote)?

For orders above 500



Almost 60% of organizations surveyed request at least three quotes before deciding on a vendor. This provides more choices for pricing or material availability.

Technology can help automate the quote analysis.







What percentage of material orders/equipment rentals are placed without a pre-authorization from the office

(e.g., foreman uses a corporate card to buy something for the job and does not inform the office about the purchase)



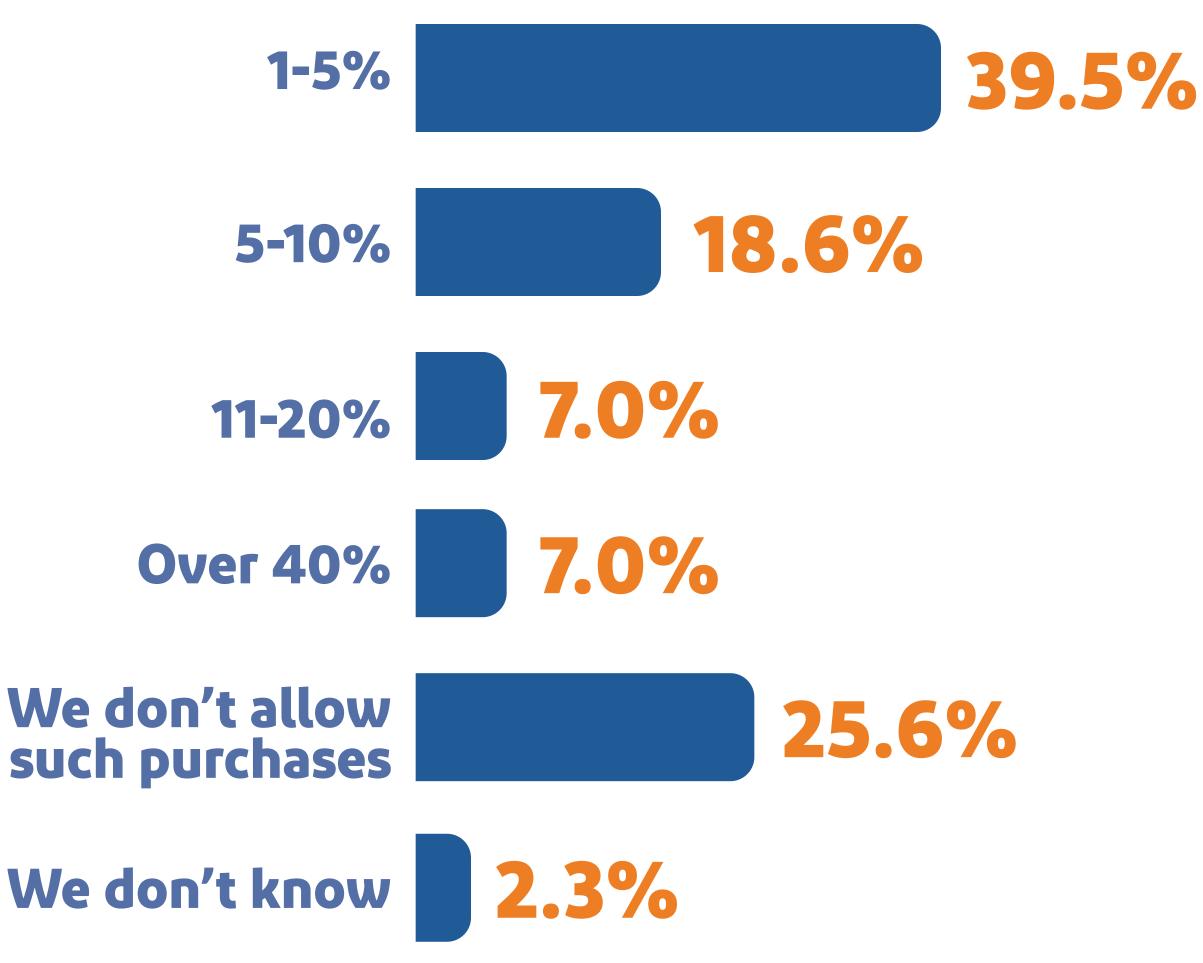
One in four respondents have strict policies against rogue spending.

Majority (58%) allow low to moderate levels of unauthorized orders to provide flexibility to the field staff.

Technology can help streamline field requisitions as well as reserving POs.







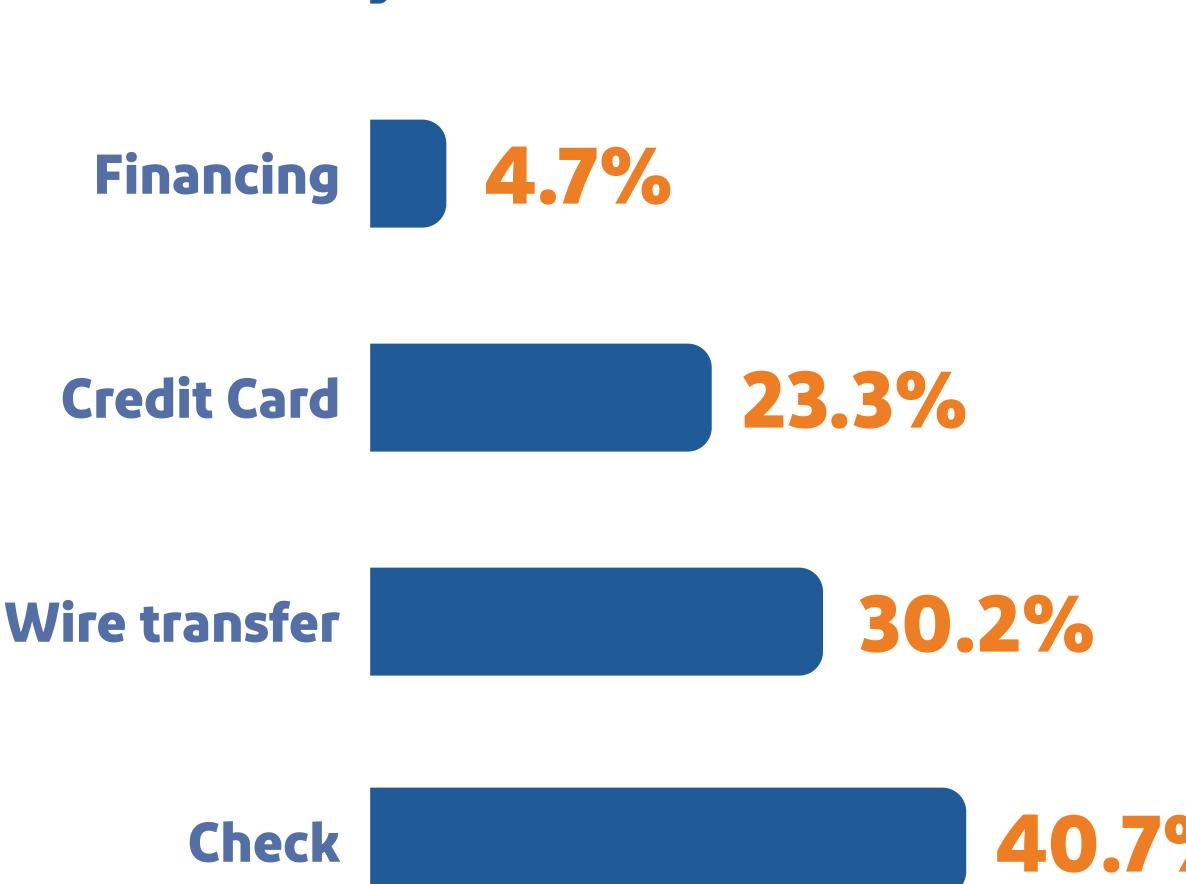
What payment method(s) do you use to pay vendors?

Cash 1.2%



The high use of wire transfers and credit cards suggests a shift in construction towards electronic payments. However, 40% of organizations are still using checks, which is a less cost effective method than electronic payments.

Technology can help automate payments and reduce operational costs.





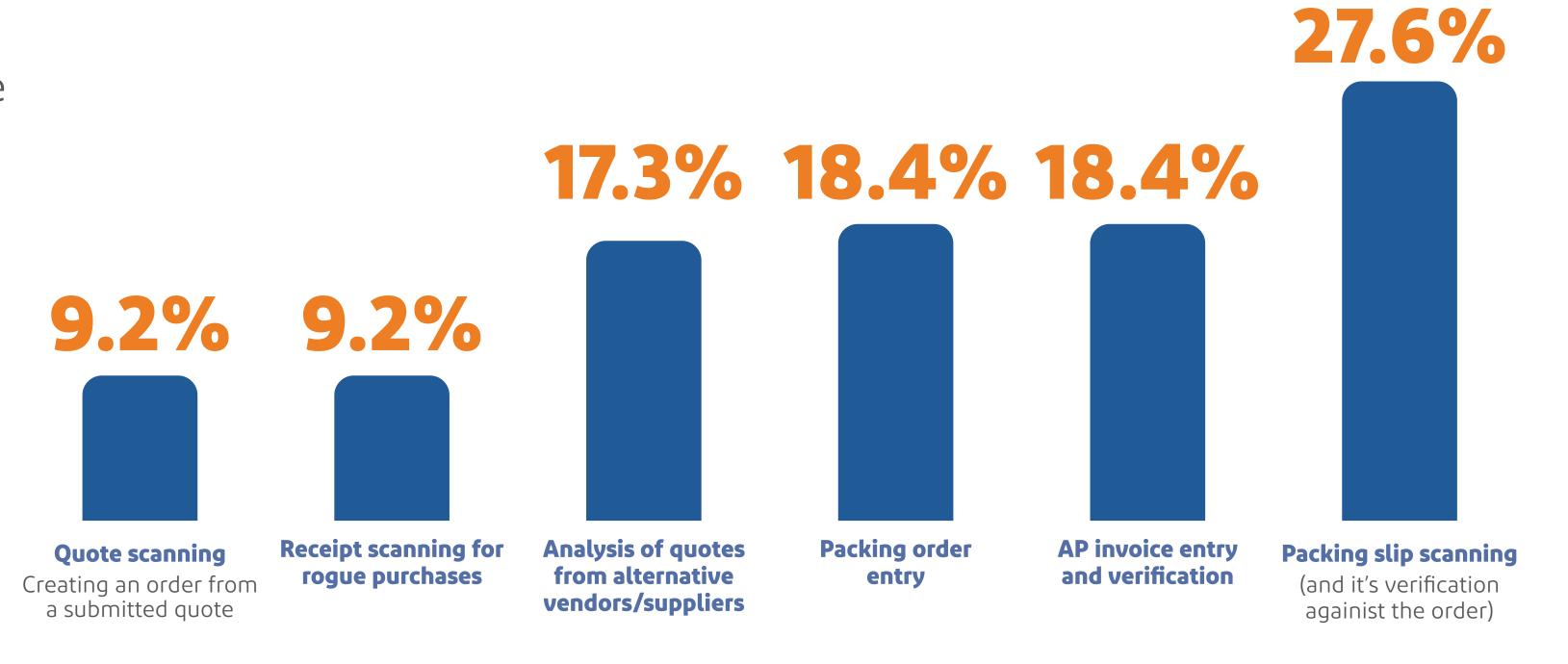


What would you automate in material & equipment procurement?



There is a clear need to reduce manual data entry and improve tracking and verification across the entire procurement life cycle, from analyzing quotes to capturing rogue spending.

Al can efficiently address these needs and provide a major competitive advantage to early adopters.







What's causing inefficiencies in procurement?

Contractors spend hours manually entering and checking these documents.

- Costly office staff
- Revenue loss due to billing errors



Field Requisitions



Quotes



Packing Slips



Invoices

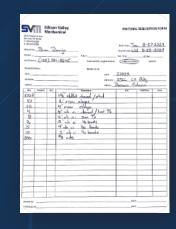


Receipts





How AI can solve these inefficiencies in procurement



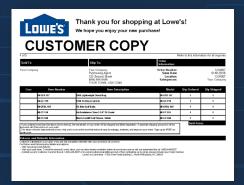
Field Requisitions

- Al reads scribbled notes or requisition forms
- Requisitions can be split into vendor orders and pushed as POs into ERP



Quotes

- Al reads UOMs, quantities, prices
- POs are pushed into ERP
- Al validates line items when you receive invoices



Packing Slips

- Scans packing slips to track what was received
- Verifies a packing slip against PO and Invoice



Invoices

- Al automates three-way match
- Al automates cost coding
- Eliminates invoice data entry into ERP



Receipts

 Al reads receipts and automates cost coding and job coding

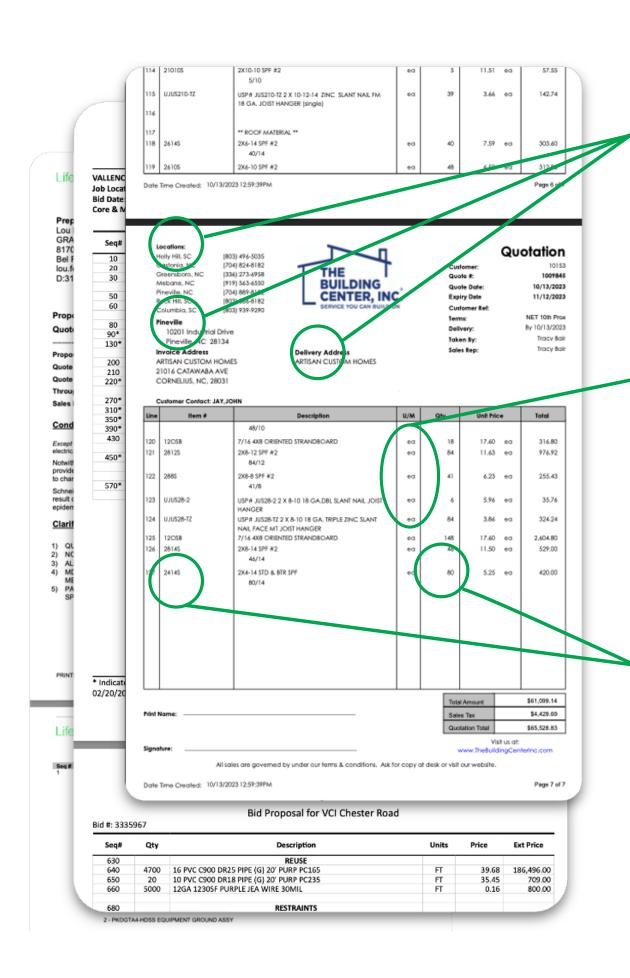




What makes generative Al

Generative AI/LLM

Interprets OCR scanned text



Trained on thousands of quote docs to generalize patterns of how text fields relate to each other.

Designed to handle sequences of data. Understands how one row relates to the other or that all values in a particular column are numbers.

Interprets the text in relation to other elements. U/M column with "ea" values signifies UOM and the date next to "Delivery" signifies delivery time.

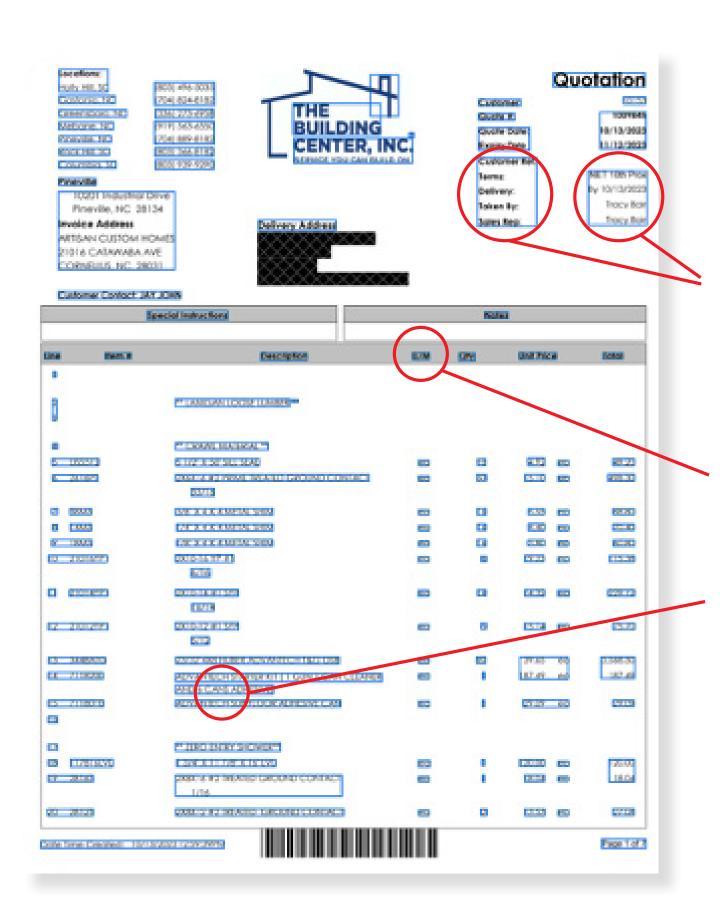




What makes generative Al

OCR

Recognizes characters without interpreting them



Looks at everything in isolation:

doesn't understand that these two pieces of text are related

Doesn't interpret data. "U/M" are just characters.

Doesn't understand that this set of rows represents the same item.





NEW HORIZONS

F O U N D A T I O N

A Chance to Grow

An HVAC and Sheet Metal Industry Initiative

www.newhorizonsfoundation.org

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