

# DEMYSTIFYING GPT: UNLOCKING AI AS A COMPETITIVE EDGE IN 2024

**ODED RAN, CLUE**



# What's in it for me?

**1 SAVE TIME**

**2 CUT COSTS**

**3 GET MORE DONE**

**4 LEARN FASTER**

**5 SPARK CREATIVITY**

**6 STAY AHEAD**



# Once upon a time..

1994



# Once upon a time...

**2007**





Once upon a time..

2022



# Meet your virtual assistant



← ↻ 🔒 https://chat.openai.com 🔊 🔍 ☆ 🗨️ 2 ⚙️ | 📄 (👤 + Invite) 👤

📄

⚡ GPT-3.5 ✨ GPT-4

ChatGPT PLUS

**Recommend a dish**  
to bring to a potluck

**Make up a story**  
about Sharky, a tooth-brushing shark superhero

**Come up with concepts**  
for a retro-style arcade game

**Suggest some names**  
for my cafe-by-day, bar-by-night business

📎 Send a message ➤

?

ChatGPT may produce inaccurate information about people, places, or facts. [ChatGPT September 25 Version](#)

# **TOP 10**

## **IDEAS HOW TO LEVERAGE GPT IN CONSTRUCTION TECHNOLOGY**

1

# Write this for me

OD

Create a job post for a heavy construction equipment mechanic for Clue Constructors, a 250 person contractor in South Dakota.





# Write this for me



Title: Heavy Construction Equipment Mechanic



Company: Clue Constructors

Location: South Dakota

About Us:

Clue Constructors is a reputable contractor in South Dakota with a team of 250 dedicated professionals. We take pride in our ability to deliver exceptional construction services on time and within budget. Our commitment to maintaining a safe and reliable fleet of heavy construction equipment is paramount to our success.

Job Summary:

We are seeking a skilled Heavy Construction Equipment Mechanic to join our dynamic team. The successful candidate will be responsible for maintaining, repairing, and ensuring the reliable operation of our fleet of heavy construction equipment.

Responsibilities:

- Perform routine maintenance checks and services on heavy construction equipment to ensure they remain in optimal working condition.
- Diagnose and repair mechanical, hydraulic, and electrical faults in heavy construction equipment.
- Conduct thorough inspections to identify worn or damaged parts, and carry out necessary repairs or replacements.
- Maintain accurate and up-to-date maintenance logs.
- Collaborate with the equipment management team


2

# Summarize this document



AEM September Advocacy Report External Inbox x  

Kip Eideberg <updates@aem.org> Uns... + Add to HubSpot 9:01AM (7 minutes ago) ☆ ↶ ⋮  
to me ▾

 Log email to HubSpot ▾  Save email as template

[Click here](#) to view this message in a browser window.



**September 29, 2023**

Good morning from a cloudy and gray Washington, D.C. where the weather pretty much mirrors the mood on Capitol Hill (more on that below).

It has been a busy month for the AEM Advocacy Team, as we help shape critical outcomes for the competitiveness of equipment manufacturing in the United States. Last week we brought in the reinforcements...as 55 CEOs and senior executives joined us in for the **2023 AEM Washington Fly-in** to advocate for pro-manufacturing policies. Keep scrolling to read more about this year's record-breaking event.

House Speaker Kevin McCarthy's (R-Calif.) calculus has not changed,

2

# Summarize this document

OD

summarize the 3 most important points of this email



- House Speaker Kevin McCarthy's stance is leading towards a government shutdown by Sunday morning, with discussions now focusing on the duration of the shutdown.
- McCarthy is struggling to unite the House GOP, with a minority against him and resistant to passing a continuing resolution (CR), especially with provisions like Ukraine funding.
- If McCarthy cannot garner enough GOP support, he will need Democratic backing to pass a CR and prevent the shutdown, putting him at risk from both hardliners and moderates within his own party.



# Review contracts



OD

Read this legal contract. Anything I should be worried about before signing?



## CONFIDENTIALITY AGREEMENT

CONFIDENTIALITY AGREEMENT, dated \_\_\_\_\_ (this “Agreement”), between  
10/17/2023

OMG RENTALS (NORTH AMERICA), INC. (“OMG RENTALS”), located at 100 First

Stamford Place, Suite 700, Stamford, Connecticut 06902,  
CLUE Construction, Inc.

, located at (“Customer”)

27th Place Los Angeles, CA 90027

and \_\_\_\_\_, located at  
 (“Customer Vendor”).

WHEREAS, OMG RENTALS provides equipment rentals, tool rentals, sales, service and  
contractor supplies to Customer on various Customer job sites, properties and locations (the  
“Services”); and

WHEREAS, Customer Vendor will be tracking and monitoring equipment information.



# Review contracts



I am not a lawyer, but there are several points in this contract that you may want to consider or discuss with a legal professional before signing. Some of these points include:

1. **Confidentiality Obligations:**

- The contract outlines strict confidentiality obligations regarding the handling of Confidential Information. It's important to ensure that you and your representatives can adhere to these obligations to avoid any breach of contract.

2. **Liability and Indemnification:**

- Clause 5 mentions that you and the Customer Vendor assume full responsibility and liability for any access to OMG RENTALS' systems, including adherence to certain security standards. This clause also contains an indemnification provision which could potentially expose you to significant liability in the event of a breach or other issue.

3. **No Warranty on Information Accuracy:**

- Clause 11 states that the Disclosing Party makes no representations or warranties as to the accuracy or completeness of the Confidential Information. This could potentially be a risk if you're relying on the accuracy of this information for critical decisions.

4. **Termination and Return/Destruction of Confidential Information:**

- Clauses 10 and 11 mention the process of returning or destroying confidential information upon request or termination of discussions. Ensure you have the means to comply with these provisions.

5. **Equitable Relief:**

- Clause 12 mentions that in the event of a breach, the Disclosing Party may seek equitable relief, including injunctive relief and specific performance, in addition to any other remedies at law or in equity. This could potentially have significant implications.

6. **Governing Law:**

- Clause 16 mentions that the Agreement shall be governed by the laws of the State of New York. Depending on your location, this could have implications for how disputes are resolved.

7. **Survival of Obligations:**

- Clause 18 mentions that the obligations regarding Confidential Information shall survive indefinitely, which could have long-term implications.



# 4 Conduct regulatory research



OD

From the <https://www.osha.gov/> website - can you summarize whether Cranes can be inspected digitally?

# Conduct regulatory research



Finished browsing



According to the information retrieved from the Occupational Safety and Health Administration (OSHA) website, crane inspections can indeed be facilitated digitally to some extent. A document on the OSHA website mentions that an electronic system can be used to plan, schedule, and track equipment maintenance activities for overhead and gantry cranes. It further elaborates that if such a system identifies the person who performed the inspection, even in the absence of a signature, it could be considered an acceptable method of complying with the record-keeping requirements stipulated in 29 CFR 1910.179. The document describes a scenario where if an electronic system is used for monthly inspection record-keeping, and does not include the person's signature as required, it would be seen as a de minimis violation, which means a violation that has no direct or immediate relationship to safety and health and will not be included in citations<sup>1</sup>.

The OSHA mandates that all active cranes must be inspected at least annually, though more frequent inspections may be required depending on the usage of the cranes. These inspections fall under two general categories based on the intervals between inspections<sup>2</sup>. Before their initial use, cranes should undergo an inspection to ensure workplace safety. Once in service, cranes should adhere to a routine inspection schedule, which includes frequent and periodic inspections<sup>3</sup>.

Crane inspections are crucial for complying with legal regulations and standards, such as OSHA Standard 1910.179, and help mitigate risks associated with crane usage, including costly fines, repairs, and workplace incidents<sup>4</sup>. OSHA Standard 1926.1412 further establishes crane inspection requirements and mandates that inspections be conducted by a "competent individual"<sup>5</sup>. Whether a crane is new or altered, an initial inspection is necessary, and once overhead cranes are placed into service, they require periodic inspections to

# ... and market research



OD

I need to purchase 3 new 40 ton haul trucks in North Carolina.  
Who are the 5 leading makes, models and dealers I should consider?



Finished browsing



Based on the information obtained, here are the five leading makes, models, and dealers for 40 ton haul trucks in North Carolina:

## 1. Caterpillar:

- Model: **740 GC Articulated Haul Truck** with a rated payload of 40 tons<sup>1</sup>.
- Dealers:
  - **Gregory Poole Equipment Company** in eastern North Carolina<sup>2</sup>.
  - **Carolina CAT** with multiple locations in North Carolina<sup>3 4</sup>.

## 2. Volvo:

- Models: **A40G and A45G Articulated Haulers**, and **A40F Haul Truck**<sup>5 6 7</sup>.
- Dealers:
  - **Vanguard Truck Centers** located at 3880 Jeff Adams Drive, Charlotte, NC 28206<sup>8</sup>.
  - You can also find additional Volvo truck dealers in North Carolina through **Commercial Truck Trader**<sup>8</sup>.

## 3. John Deere:

- Models: **410 P-Tier** and **460 P-Tier Articulated Dump Trucks** with payloads close to or exceeding 40 tons<sup>9</sup>.
- Dealers:
  - **James River Equipment** with over 40 locations in Virginia, North & South Carolina<sup>10</sup>.
  - John Deere dealers can also be located in North Carolina via MachineFinder **【40**

# 5 Write up meeting notes

The screenshot displays a Microsoft Teams meeting interface for a meeting titled "Sales Analysis Review". The interface includes a sidebar on the left with navigation options like Activity, Chat, Teams, Calendar, Calls, Files, and Apps. The main area shows a grid of six video feeds of participants: Serena Davis, Aadi Kapoor, Ray Tanaka, Danielle Booker, Charlotte de Crum, and Krystal McNamee. Below the video feeds is a "Speakers" section with a progress bar for each participant. On the right side, there is a "Meeting content" section with links to "Sales report Q4...", "Capacity stats list...", and "VanArsdelPitchDe...". Below this is a "Notes" section with tabs for "Notes", "AI Notes", "@ Mentions", "Transcript", and "Chat". The "AI Notes" tab is selected, showing "Your personal AI suggested notes and tasks". The notes are organized into "Suggested notes" and "Suggested tasks".

**Suggested notes**

- ▶ **Serena** wants to look at the sales report before she and **Beth** spend more budget on the campaign. 5:00
- ▶ **Beth** explains that they are on track for new product release in December. But they will need to keep an eye on advertisement budget. She will follow up on that. 5:05
- ▶ **Beth** explains that they are managing the capacity well. They could be a problem if they get more popular. **Babak** is going to double check on that. 5:34

**Suggested tasks**

- ▶ Beth will follow up on advertisement budget.
- ▶ **Jon Shammass** will double check with **Amanda** regarding the ETA for the release of the new product.



# Company-wide encyclopedia



what is the average cfm of air flow required per 100tph of asphalt production,

The following documents and pages were referenced when writing this message:

- **Applying IS-52: Performance Expectations From Your Facility**
  - Applying IS-52: Performance Expectations From Your Facility - Page 18 86%
  - Applying IS-52: Performance Expectations From Your Facility - Page 19 85%
  - Applying IS-52: Performance Expectations From Your Facility - Page 20 84%
  - Applying IS-52: Performance Expectations From Your Facility - Page 38 84%
  - Applying IS-52: Performance Expectations From Your Facility - Page 25 84%
- **The Fundamentals of the Operation and Maintenance of the Exhaust Gas System in a Hot Mix Asphalt Facility, 2nd Edition**
  - The Fundamentals of the Operation and Maintenance of the Exhaust Gas System in a Hot Mix Asphalt Facility, 2nd Edition - Page 103 84%

The average cubic feet per minute (CFM) of airflow required per 100 tons per hour (TPH) of asphalt production depends on the amount of excess air used in the combustion process.



# Company-wide encyclopedia



 Constructable

Mike Edmonson

[Edit Profile](#)



Projects

[+ New Project](#)

West Pointe

The Promenade

**Highline**

Glen View

Noveno Community

Pine Grove

Office Park

**Highline**

340 E Broadway  
San Luis Obispo, CA  
United States - 93401

Planning/Design



Can you pull up all the plumbing bids

Sure, here's all the plumbing bids in a table format. Click a Contractor's name to pull up the full bid document.



Contractor	Bid Date	Bid Price	Scope of Work	Inclusions	Exclusions
<a href="#">Abbott Plumbing</a>	2/14/2023	\$148,400	Plumbing, gas lines	Fixtures, drainage, water heater, 1-year warranty	Permit fees, excavation, insulation
<a href="#">ACME Plumbing</a>	2/20/2023	\$203,500	Plumbing, gas lines, fire suppression	Fixtures, drainage, water heater, fire sprinklers, 5-year warranty	Permit fees, excavation, insulation
<a href="#">City Plumbing</a>	2/24/2023	\$179,850	Plumbing, gas lines	Fixtures, drainage, water heater, 3-year warranty on parts	Permit fees, excavation, insulation, no labor warranty
<a href="#">Burke Plumbing</a>	3/1/2023	\$197,000	Plumbing, gas lines, solar water heating	Fixtures, drainage, solar water heating system, 10-year warranty	Permit fees, excavation, insulation, gas line warranty only 1 year

What would you like to know about **Highline**?

Can you pull up all the plumbing bids

[Send](#)

abbott-plumbing-highline-bid-2.14.2023.pdf

[+ Zoom In](#)

[- Zoom Out](#)



Via: Email

Project: Highline  
Contractor: Jem Contracting  
Date: 02.14.23

## PROPOSAL

I propose to provide all labor and materials necessary to complete above referenced project as drawn on approved plans. This proposal includes PVC pipe and fittings for all underground waste and vent piping. This proposal includes cast iron pipe and fittings for all waste risers and roof drain down spouts. This proposal includes aqua pex and type L copper pipe and pro-press fittings for all hot and cold water. All hot water piping will be insulated. This proposal includes all digging and backfill. This proposal includes heating loops and associated pumps.

This proposal excludes all fixtures.

All addendums are recognized in this proposal.

Total \$148,400.00

Alt #2 Supply and install Sterling tub/shower units. \$1,825.00 each (15) \$ 27,375.00



# Automate finance tasks



Description	Make	Model	Year	Price	Engine Size	Avg MPG
1988 Chev Suburban 4×4						
1997 Chevrolet Suburban						
2004 Toyota Land Cruiser						
2012 Chevrolet Suburban						
2015 Ford Edge						
2018 Chevy Suburban						
2007 Ford F150 Pickup						
2008 Ford F150 Pickup						
2011 Ford F150 Pickup						
2016 Ford F250 Pickup						



# Automate finance tasks



```
=GPT("return the estimated original price of a standard configuration of this asset, approximation is fine, numeric only e.g. 50000 without any words", $A2, 0, "gpt-4")
```

A	B	C	D	E	F	G	H	I
Description		Make	Model	Year	Price	Engine Size	Avg MPG	
1988 Chev Suburban 4×4		Chevrolet	Suburban	1988	\$15,000	5700	15.5	
1997 Chevrolet Suburban		Chevrolet	Suburban	1997	\$25,000	5700	13.0	
2004 Toyota Land Cruiser		Toyota	Land Cruiser	2004	\$55,000	4500	13.0	
2012 Chevrolet Suburban		Chevrolet	Suburban	2012	\$41,000	5300	15.0	
2015 Ford Edge		Ford	Edge	2015	\$28,000	2000	20.8	
2018 Chevy Suburban		Chevrolet	Suburban	2018	\$50,000	5300	15.5	
2007 Ford F150 Pickup		Ford	F150	2007	\$33,000	4600	15.0	
2008 Ford F150 Pickup		Ford	F150	2008	\$25,000	4600	14.0	
2011 Ford F150 Pickup		Ford	F150	2011	\$22,000	5000	17.0	
2016 Ford F250 Pickup		Ford	F250	2016	\$33,000	6200	15.5	
2017 Ford F250 Pickup								















8

# Clean my data-lake

[Clear Filter](#)

## Select Asset Type

[Sort](#)

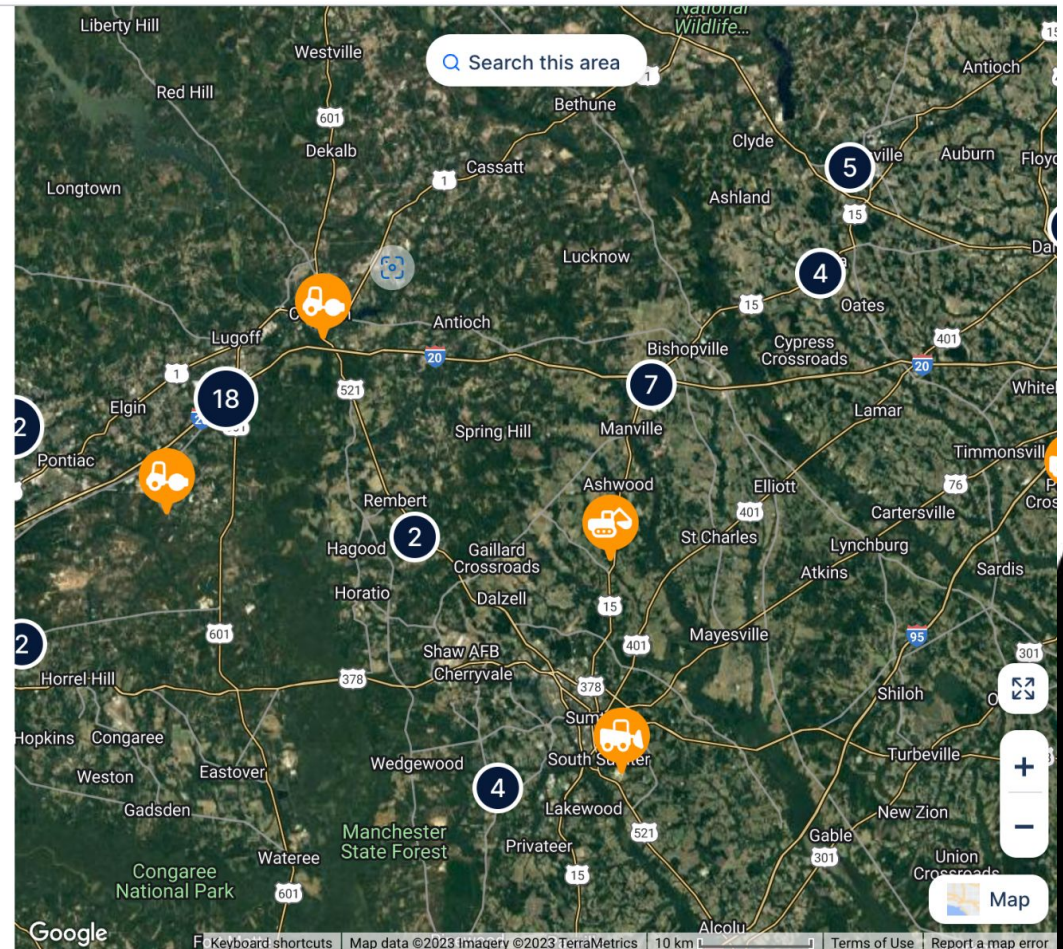
- ☐ Off-road / Heavy
- ☐  Dozer (Crawler)
- ☐  Mini Dozer
- ☐  Excavator
- ☐  Mini Excavator
- ☐  Wheeled Excavator
- ☐  Wheel Loader
- ☐  Compact Track Loader
- ☐  Skid Steer Loader
- ☐  Backhoe Loader
- ☐  Paver / Asphalt Finisher
- ☐  Curb machine
- ☐  Motor Grader

## Track Everything

[All](#) [Assets](#) [People](#) [Projects](#)[Filters](#) [Sort](#)[+ Add Project](#)

Assets

-  **0904 Curb Machine**  
5700C  
Last seen 14h ago
-  **29168 Marshall Skid steer**  
SVL75-2  
Last seen 4d ago
-  **BD258 Crushing**  
D61PX-15E0  
3 open issues
-  **BD259 Crushing**  
750 KLGP  
5 open issues
-  **BD261 Upstate Grading**  
D5K2LGP  
1 open issue
-  **BD262 Coastal Grading**  
450 J  
2 open issues
-  **BD264 Midlands Grading**  
450J



9

# Analyze site imagery



OD ODED



What's the damage here?



## 9 Analyze site imagery



Based on the images provided, it appears there is some visible wear and tear on the equipment:

1. The yellow paint on the equipment has some dirt, specks, and minor scratches.
2. There is a visible crack or tear in the gray/black section of the material. This damage seems to have resulted in a piece chipping off from the edge.
3. Some bolts or rivets are visible, suggesting a possible area where materials join or where reinforcement was needed.
4. There are several scuff marks and scratches on the gray/black surface.

It's important to have any significant damage evaluated by a professional to determine if it impacts the functionality or safety of the equipment.

# Analyze quantitative data



## Clue usage and production load analysis ▾

I'm going to share with you data showing the number of times project managers used Clue every day, and the production volume (load count) that day.

Please analyze it for me, and tell me what insights you can find.

Summary by day total visits loads

2023-05-19 49 67

2023-05-20 30 79

2023-05-21 54 88

2023-05-22 72 93

# Analyze quantitative data



Here are a few insights I can gather from the data:

- There seems to be a general upward trend in the number of project manager visits to Clue over time, indicating increased adoption/usage.
- Production volume doesn't appear strongly correlated with number of visits. For example, on 2023-05-27 there were only 24 visits but a production volume of 138, while on 2023-06-01 there were 21 visits but just 9 units produced.
- The highest number of visits was on 2023-08-18 with 132 visits. This was also one of the higher production days with 288 units.
- The lowest number of visits was on multiple days with 6-7 visits. The lowest production day was 2023-06-01 with just 9 units.
- There seem to be some weekly trends - visits tend to dip on weekends, especially Sundays. Production also seems lower Saturday-Monday.
- Visits peaked in August, with several days over 50 visits. Production also hit peaks in late July/August.
- The most recent data shows visits and production decreasing in October, possibly indicating seasonal trends. More data points would help confirm if this is a consistent pattern.

In summary, visits and usage of Clue seem directly related to project manager activity rather than production volumes. Monitoring visits over time can provide insight into tool adoption and engagement.



# Bonus: Create my AGC presentation



Certainly! Here's a proposed slide deck for your 45-minute presentation titled "ChatGPT & AI in Equipment Management: All You Need to Know."

## Slide 1: Title Slide

- **Title:** ChatGPT & AI in Equipment Management: All You Need to Know
- **Sub-title:** From Sci-fi to Construction Sites: The Power of AI

## Slide 2: The Setting

- **Title:** Once Upon a Time in the World of Construction...
- **Content:** A humor-infused narrative about the daily challenges in equipment management and how AI could come to the rescue. Perhaps illustrated with a cartoon bulldozer dreaming of a digital brain.

## Slide 3: What is AI?

- **Title:** AI: Not Just Robots Taking Over!
- **Content:** A simple, non-technical definition of AI. Use analogies like "computer brains" learning from patterns.

## Slide 4: Introducing ChatGPT

- **Title:** Meet ChatGPT: Your Virtual Construction Assistant!
- **Content:** A brief explanation of ChatGPT. Fun Fact: "It's like Siri or Alexa, but it doesn't play music or tell you the weather!"

## Slide 5: The Big Question

# Going beyond OpenAI / GPT

- Claude.ai
- Google Bard – bard.google.com
- There's an AI for that – <https://theresanaiforthat.com/>
- CoPilot
- Autodesk AI
- Adobe Generative Fill

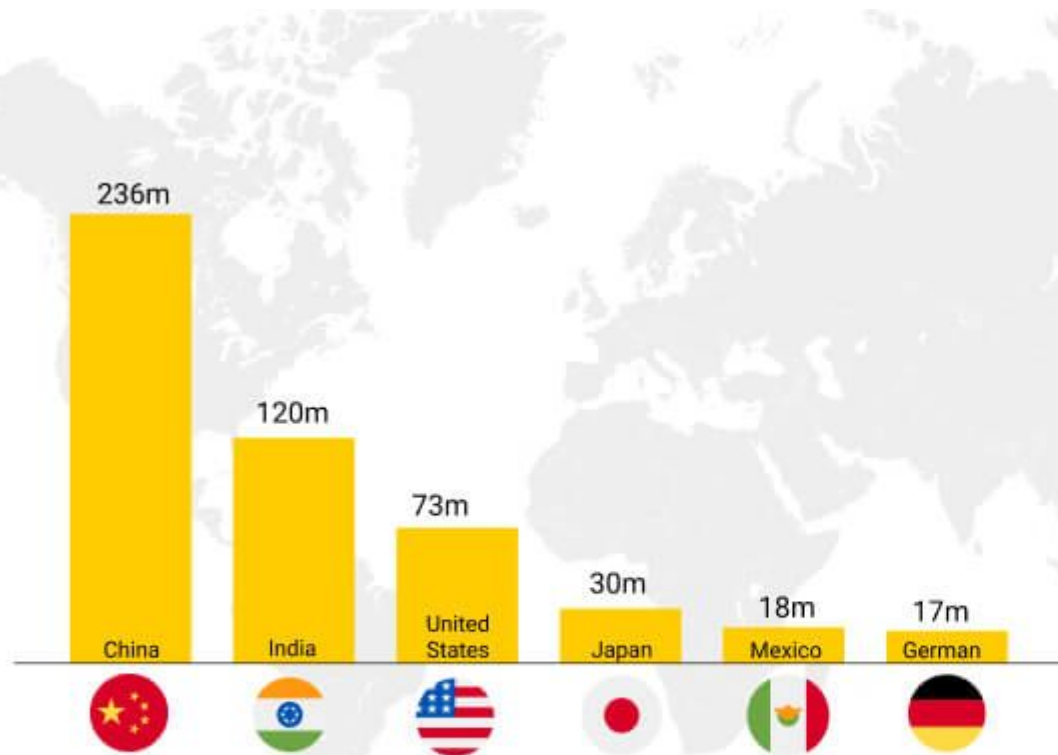




# **YOUR TURN**

## **TALES FROM THE FRONTLINES – AUDIENCE Q&A**

# Why should you care?



**BY 2030,  
AUTOMATION  
COULD ELIMINATE  
73 MILLION JOBS  
IN THE U.S.**

Number of jobs at risk  
of being displaced by  
automation by 2030

# What's in it for me?

**1 SAVE TIME**

**2 CUT COSTS**

**3 GET MORE DONE**

**4 LEARN FASTER**

**5 SPARK CREATIVITY**

**6 STAY AHEAD**





# THANK YOU

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**linkedin.com/in/odedran**



# About the Speaker

Oded Ran is Chief Executive Officer at Clue (getclue.com), a next-generation software for equipment management, which he co-founded in 2019. Clue's customers include dozens of leading contractors such as the Walsh Group, Sundt, Primoris, Miller Bros, Palmetto Corp & other AGC members.

Oded has had over 20 years leadership experience at software companies, with startups and enterprises (Microsoft, NCR). He has graduated from Harvard Business School and The Hebrew University.

