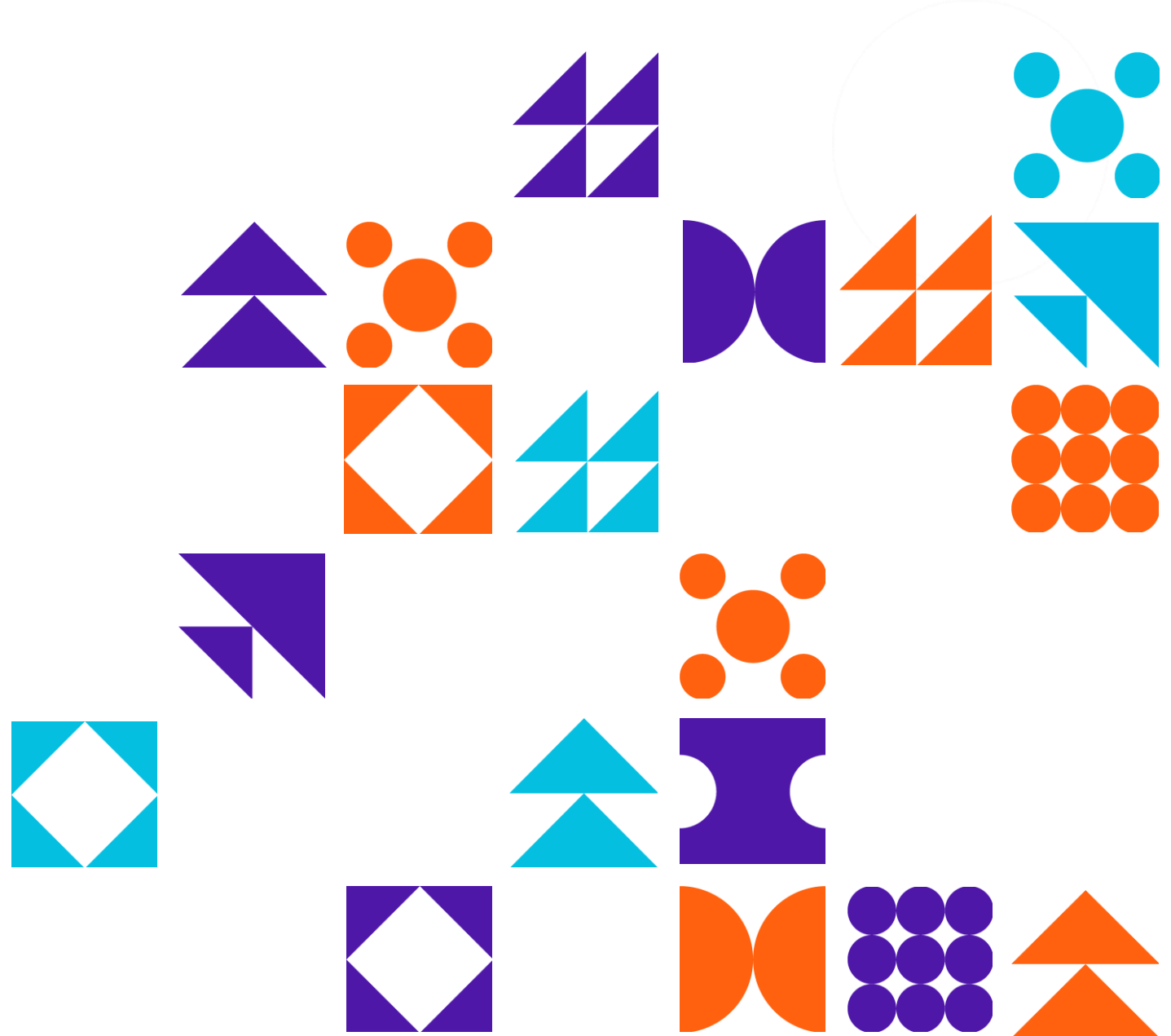


# ENHANCING PROJECT MANAGEMENT WITH AI

Thomas Leffler

PDD 2024 | PMI-OC

02-24-2024



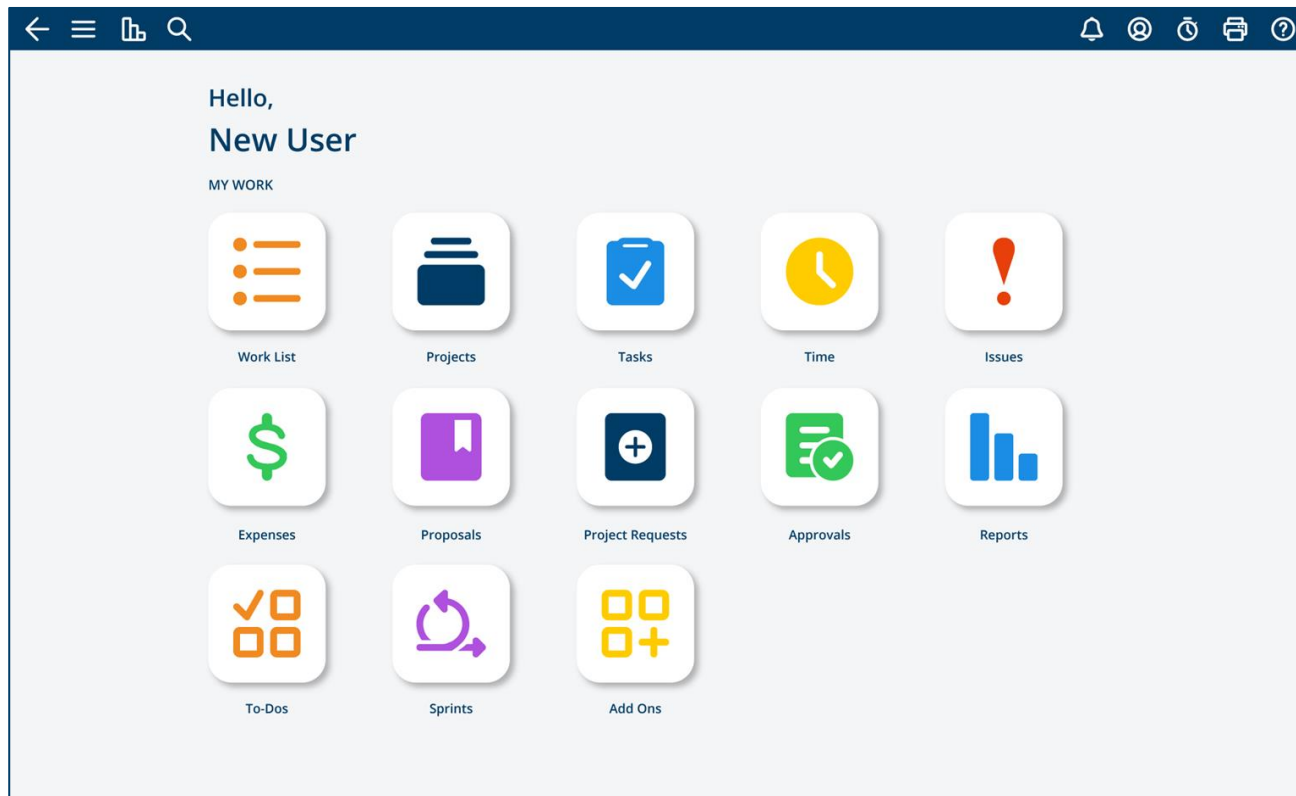
# AGENDA

1. Project Insight
2. Project Management Stats
3. Traditional Algorithmic Systems
4. Capabilities of AI
5. AI in Project Management
6. Benefits and Impacts on Key Features



# VISION

Automate your work. Unify your data.  
Make your life easier.



Named Best Project  
Management Solution  
2019 & 2023

—  
SIIA CODiE  
Awards

CODiE Finalist  
2017- 2018 - 2019 -  
2020 - 2022 - 2023



PROJECT INSIGHT

# BACKGROUND

- Project Insight® is rooted in the industry's foundational PMBOK principles from the Project Management Institute (PMI)
- Sponsor of PMI-OC Chapter
- PMI-OC is a Project Insight user
- Founded in 2001

“

Project Insight not only changed the way we work, it changed the culture of our team.



- Alicia Holk, Senior PM, Lovelace BioMedical



**90%**  
Customer  
retention rate



Over  
**10,000**  
companies &  
**300,000**  
users



**Founded in 2001**  
Our original  
customers were  
PMP-certified PMs

# CUSTOMERS

**Kawasaki**

**BAUSCH+LOMB**

**COX**®

**icu**medical  
human connections

  
**CISCO**™

**J.D. POWER**

**NZX**  
NEW ZEALAND'S EXCHANGE

*Takeda*

**ATM**  
**TEXAS A&M**  
UNIVERSITY®

  
CALIFORNIA  
COAST  
CREDIT  
UNION.

# PROJECT INSIGHT HAS 20 YEARS OF EXPERTISE



Intelligent  
Scheduling



Capacity & Resource  
Allocation



Time-Tracking &  
Time Sheets



Reports & Portfolio  
Management

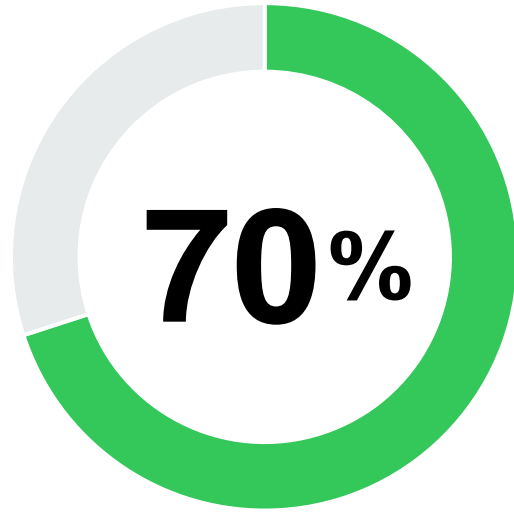


Project Budgets, Billing  
and Invoices



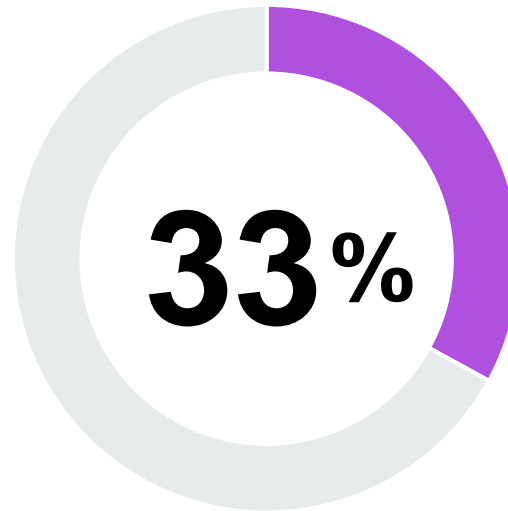
Centralized  
Collaboration

# PROJECT MANAGEMENT STATS



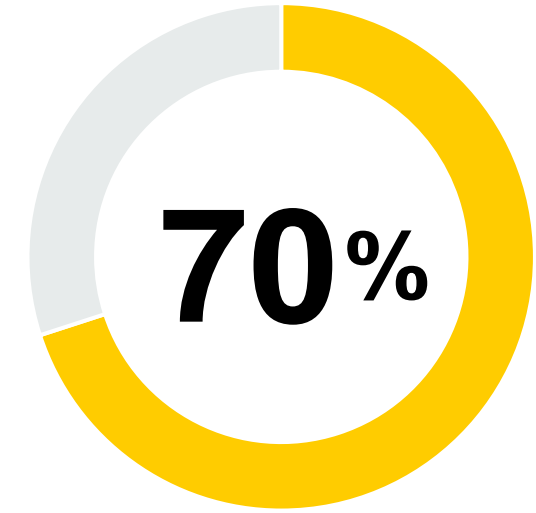
Project Failure Rates

**Of all projects fail, according to project management failure statistics**



Project Failure Reasons

**Of all Projects fail because of a lack of involvement from senior management**

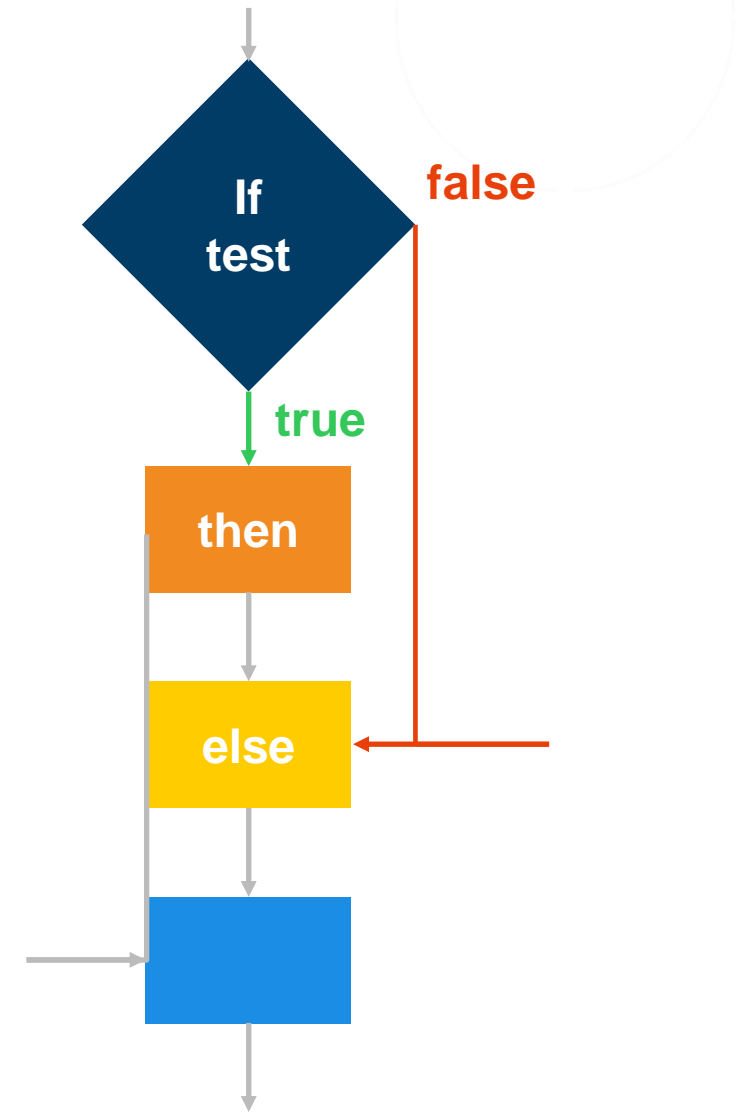


Project Managers say that

**Increased success rate of projects by using PM software**

# ALGORITHMIC SYSTEMS

- **Deterministic:** The output is entirely predictable based solely on its input. Every time the same input is given, the same output is produced.
- **Predefined Logic:** Logic and behaviors are explicitly programmed by developers. There's no "learning" or "adaptation" outside of manual updates.
- **Rule-based Systems:** These systems follow specific if-then-else conditions. For example, if Project A ends on Day 10, then Project B starts on Day 11.

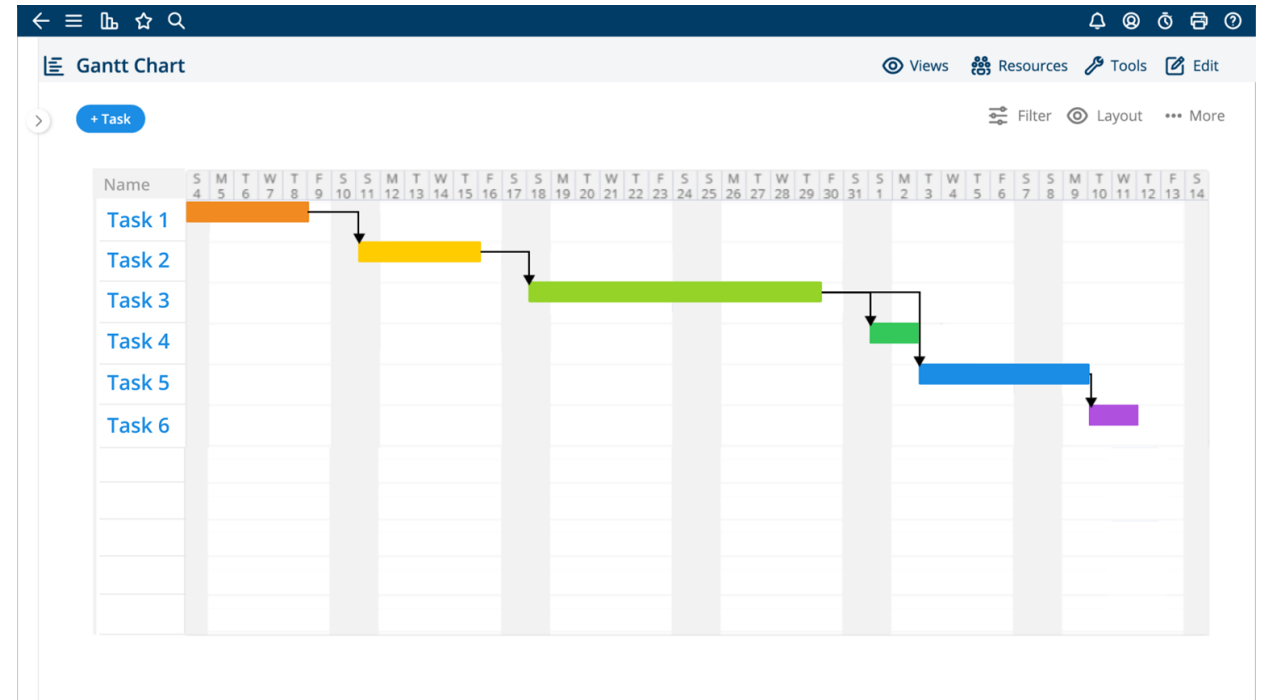




# INTELLIGENT SCHEDULING FEELS LIKE AI.

## Intelligent Scheduling –

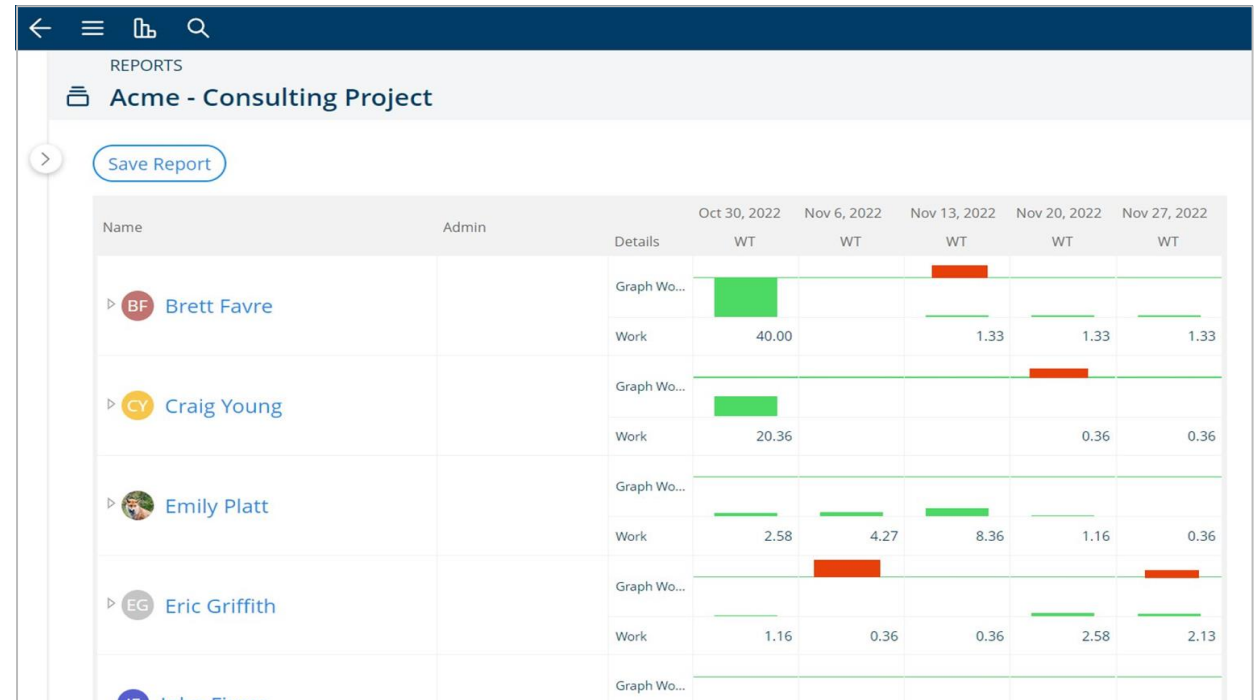
Projects are scheduled based on deterministic logic.



# CAPACITY PLANNING FEELS LIKE AI.

## Capacity Planning—

How resource allocation is done using rule-based logic.



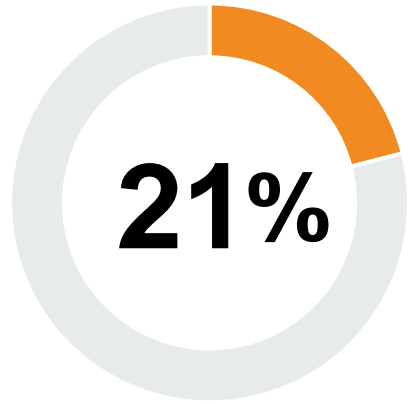
# AI IN PROJECT MANAGEMENT



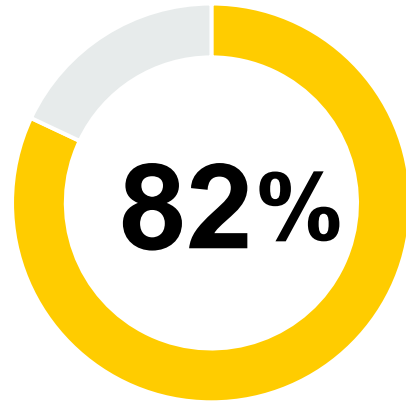
# AI IN PROJECT MANAGEMENT

- Gartner's research predicts by 2030, 80% of project management tasks will be run by AI, powered by big data, machine learning (ML), and natural language processing
- AI in Project Management will bring significant benefits:
  - Automation of administrative and low value tasks
  - Help select, define, and implement projects more successfully
  - Augmenting productivity

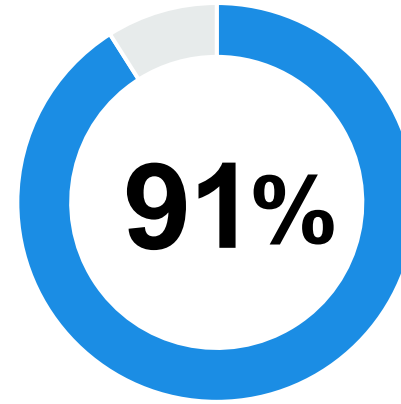
# PROJECT MANAGEMENT AI STATS



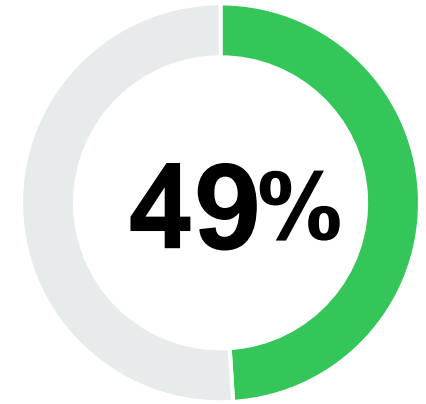
21% of PMI respondents say  
**They are currently using AI**



82% of Senior Leaders say  
**AI will have at least some impact on projects**

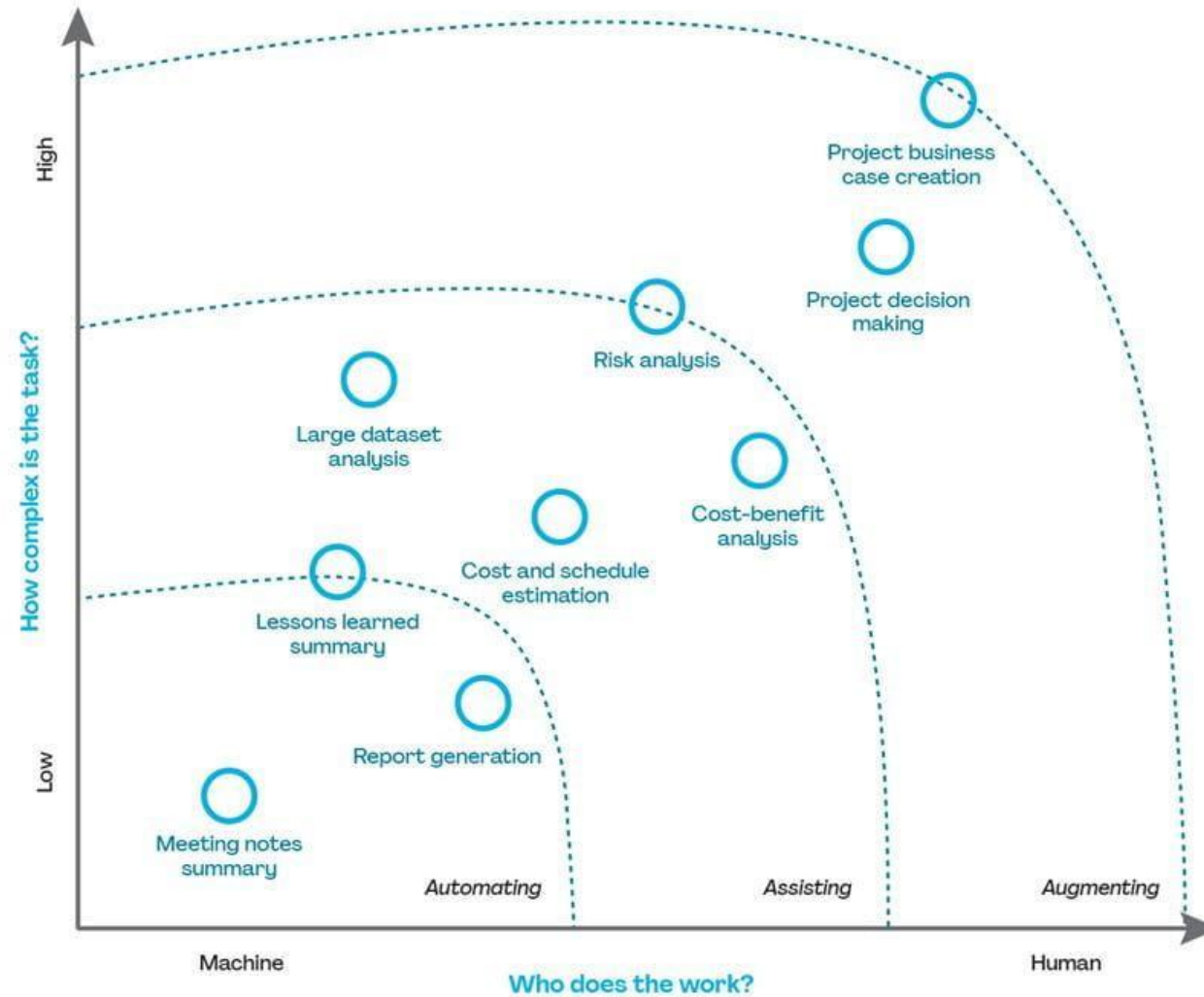


91% believe that  
**AI will have at least a moderate impact on the profession**



49% of Project Managers  
**Have little to no experience with or understanding of AI**

# GEN AI SUPPORT FOR SPECIFIC TASKS



# THE SHIFT TO AI AT PROJECT INSIGHT

**Artificial intelligence (AI)** Allows machines to mimic human-like cognitive functions such as “learning” and “problem solving.” Unlike traditional systems, AI systems can learn and adapt over time.



LEARNING  
FROM DATA



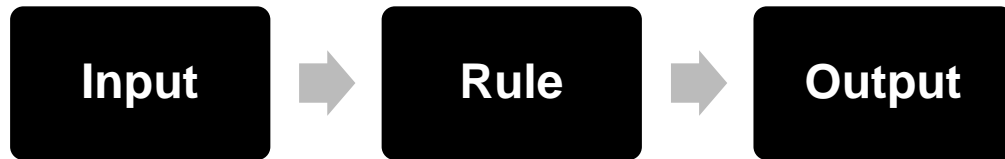
ADAPTABILITY



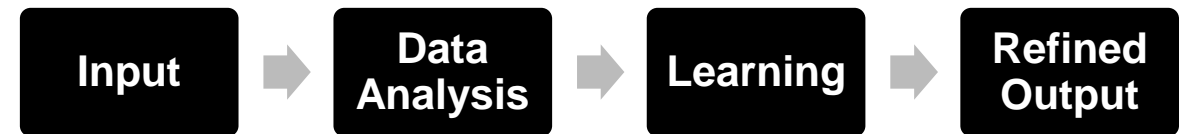
PREDICTION

# AI ADDS LEARNING TO RULES

## Traditional System



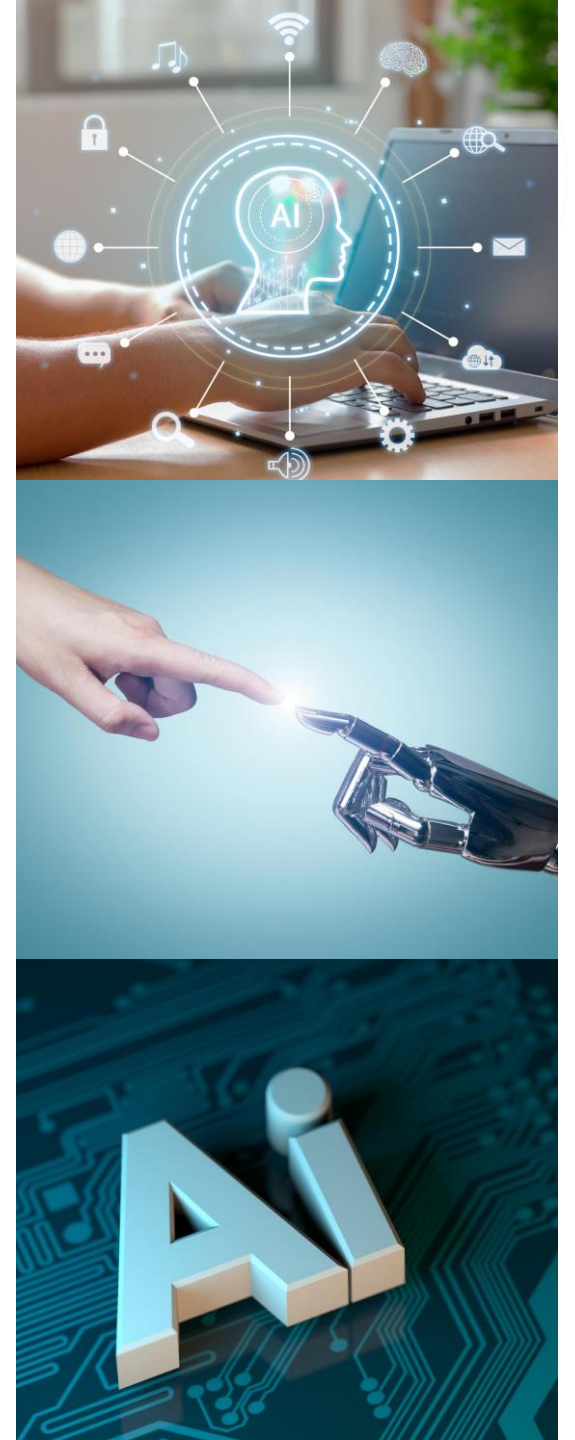
## Artificial Intelligence (AI)





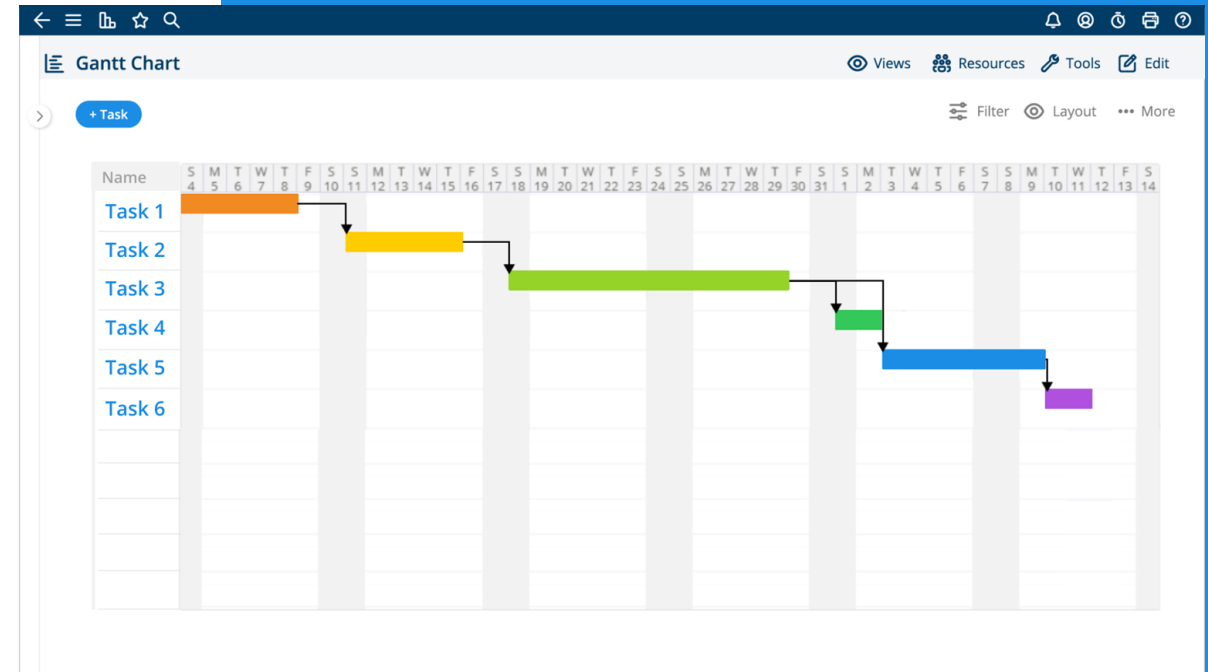
# PREDICTIVE CAPABILITIES OF AI

- **Predicting Delays:** Analyzing patterns in previous projects
- **Understanding Worker Performance:** Predicting potential bottlenecks
- **Forecasting External Impacts:** Using external data to foresee and plan
- **Forecasting Risks**



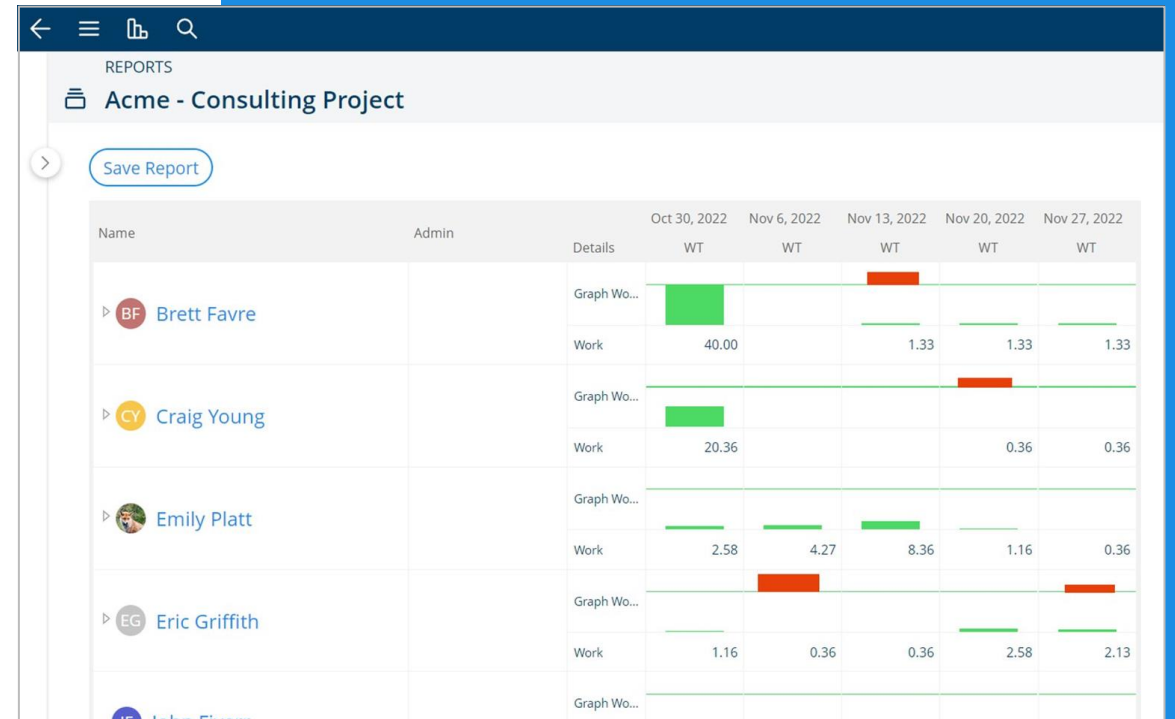
# IMPACT ON INTELLIGENT SCHEDULING

- **Adaptive Rescheduling:** Automatically adjusting schedules based on ongoing data analysis
- **Predictive Start Dates:** Using historical data to suggest optimal start times
- **Risk Analysis:** Highlighting high-risk tasks based on past patterns



# AI DRIVEN RESOURCE & CAPACITY MANAGEMENT

- **Dynamic Allocation:** Allocating resources based on real-time needs and predictions
- **Performance Monitoring:** Analyzing performance trends of resources
- **Capacity Forecasting:** Predicting future resource requirements



# AI TO SUGGEST PROJECT TASKS

- **Automated Task Suggestions:** For different project types based on historical data
- **Adaptive Project Templates:** That change based on ongoing project outcomes
- **Predictive Milestones:** Suggesting when milestones are likely to be achieved



# BENEFITS OF AI INTEGRATION



**IMPROVED  
ACCURACY**

**TIME  
SAVINGS**

**ENHANCED  
RESOURCE  
ALLOCATION**

**PROACTIVE  
RISK  
MANAGEMENT**

# PROJECT MANAGER POWER SKILLS AI CAN'T REPLACE



## Communication

Effective in explaining, writing, and public speaking



## Problem-Solving

Ability to figure out what is wrong and resolve it



## Collaborative Leadership

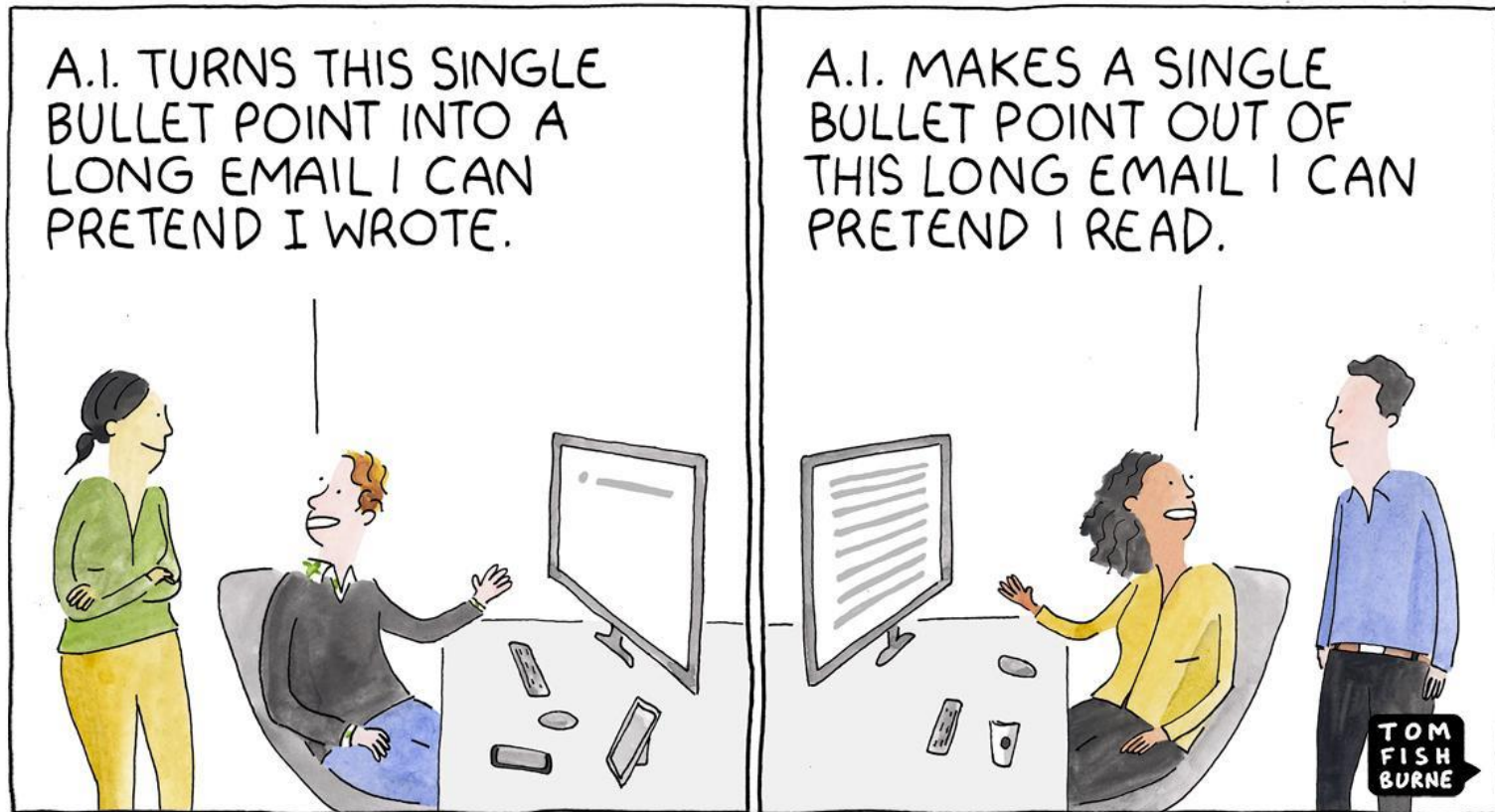
Ability to work with others across boundaries to make decisions



## Strategic Thinking

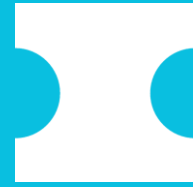
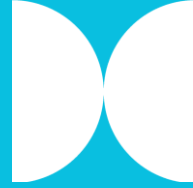
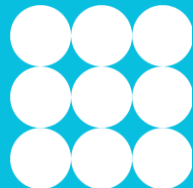
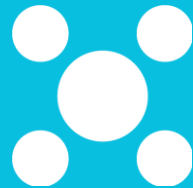
Ability to see patterns and alternative paths rather than complexity

# CONCLUSION





# THANK YOU



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