# Next-Gen PM: Integrating AI into Your Project Toolkit

*Project managers rejoice and computerize your chaos!*

- "The Future Won't Manage Itself—But AI Can Help"
- "Putting the 'Pro' in Project Management with AI Power"
- "From Gantt Charts to Chatbots: AI is Your New Team Member"
- "Less Busywork, More Brilliance: Elevate Your PM Game"
- "Turning Deadlines into Lifelines with AI on Your Side"
- "Because Managing Chaos is Easier with Artificial Intelligence"

# Summit 2024: Navigating Tomorrow: Employing Virtual, AI & Remote Project Management Approaches

**Project Management Institute. Southwest Ohio**

**Project Management Institute. Dayton/Miami Valley Ohio**

**UC CINCINNATI**
**CARL H. LINDNER COLLEGE OF BUSINESS**

Summit 2024:
- Date: November 16th, 2024
- Hour: 8:00AM to 5:00PM
- # of PDUs: 14.0



**PMI Southwest Ohio Chapter**
721 followers
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Speaker Spotlight: Andy Burns, PMP, PMI-ACP, DAC

We're thrilled to introduce Andrew Burns, a transformative leader at Siemens Digital Industries, as one of our featured speakers for Summit 2024! With over a decade of experience in agile methodologies and digital innovation, Andrew heads the Agile PMO and oversees the development of numerous PLM products, including Teamcenter, utilizing cutting-edge AI technologies. He's also a member of the PMI AI Standards Team and has served as a PMI Region Mentor for the Northeast USA and Chapter President Emeritus.

Join Andrew for his highly anticipated session, "Next-Gen PM: Integrating AI into Your Project Toolkit," and discover how AI is revolutionizing project management by enhancing decision-making, automating tasks, and providing predictive insights.

Key Takeaways:

Seamlessly incorporate AI tools into your project management to improve outcomes.
Learn how to optimize team performance by automating routine tasks and mitigating risks.
Gain insights into future-proofing your PM toolkit with the latest AI trends.

Don't miss out on this opportunity to learn from a true industry expert! Register today and join us for Summit 2024 on November 16th at the University of Cincinnati Carl H. Lindner College of Business. Register here: https://lnkd.in/ge8xz5CT

#Summit2024 #PMISouthwestOhio #ProjectManagement #AI #Siemens #Leadership #AgilePMO #FutureOfPM PMI Dayton Chapter

**SUMMIT 2024**
**SPEAKER SPOTLIGHT**
**ANDY BURNS**

# Afraid?
# 80% of Today's Jobs Will Disappear.

[(2:21) Simon Sinek's Take on Technology and Jobs: Understanding the Shift, Not the Scare](#)

**Learning - Key Takeaways:**

- **Integrating AI with PM Skills**
- **Optimizing Team Performance**
- **Future-Proofing Your PM Toolkit**

# Welcome and Introduction

- Brief introduction and background
- Overview of the presentation's objectives
    - **Integrating AI with PM Skills**: Learn how to seamlessly incorporate AI tools and techniques into your project management practices to enhance decision-making, streamline processes, and improve project outcomes.

    - **Optimizing Team Performance**: Discover strategies for leveraging AI to automate routine tasks, identify and mitigate risks, and boost overall team productivity and efficiency.

    - **Future-Proofing Your PM Toolkit**: Gain insights into the latest AI trends and technologies in project management, ensuring your skills and methods remain relevant and cutting-edge in a rapidly evolving industry.
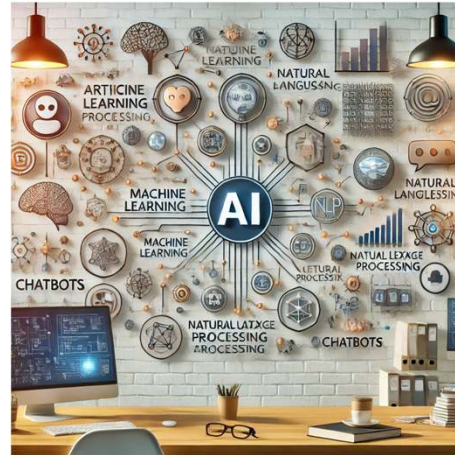
# Setting the Stage

- What is AI
- Key statistics and trends
  - ITPro
    - Gartner says 80% of Project Management Tasks Will Be Automated: By 2030
  - Business 2 Community –
    - AI Adoption Expected to Increase Efficiency by 45-65%
    - AI Reduces Project Failure Rates by 30-50%
    - **56% of Project Managers Use AI Tools Today**
  - RGPM –
    - $2.8 Billion Market Size for AI in Project Management by 2026

# What is AI?

- Definition and basic concepts of AI
- Types of AI relevant to project management (e.g., machine learning, natural language processing)



**Definition and Basic Concepts of AI:**

- **Artificial Intelligence (AI) Definition:** AI simulates human intelligence, enabling machines to perform tasks like decision-making and problem-solving.
- **Core Components of AI:** AI relies on algorithms, data, and computational power to detect patterns and improve through experience.
- **AI Levels:** AI includes Narrow AI (task-specific), General AI (human-like intelligence), and Superintelligent AI (beyond human intelligence).
- **AI Capabilities:** AI powers tasks such as speech recognition, image analysis, and automated decision-making.
- **Learning Methods:** AI systems learn via supervised, unsupervised, or reinforcement learning approaches Business2Community, Epicflow

**Types of AI Relevant to Project Management:**

- **Machine Learning (ML):** ML uses historical data to predict outcomes and optimize resource planning.
- **Natural Language Processing (NLP):** NLP interprets and generates language for tools like chatbots and sentiment analysis.
- **Robotic Process Automation (RPA):** RPA automates routine processes, freeing project teams from repetitive tasks.

•**Predictive Analytics:** Predictive analytics forecasts risks and project outcomes using real-time data.

•**Computer Vision:** Applied in areas like construction, computer vision enables AI to analyze visual data and monitor progressRebel's Guide to Project Management, Business2Community

# Benefits of AI in Project Management

- Enhanced decision-making capabilities
- Predictive analytics for risk management
- Automation of routine tasks



**Enhanced Decision-Making Capabilities**

- **AI-Driven Insights:** AI provides real-time data analysis, allowing project managers to make informed decisions based on trends and patterns.
- **Reduced Human Bias:** AI algorithms reduce cognitive biases by relying on historical data and objective analytics for recommendations.
- **Scenario Analysis:** AI tools enable what-if scenarios to assess potential outcomes before making critical project decisions

**Predictive Analytics for Risk Management**

- **Early Risk Detection:** AI tools identify potential risks early by analyzing project data and highlighting patterns that may indicate future issues.
- **Risk Mitigation Strategies:** Predictive models help develop preemptive strategies to minimize the impact of identified risks.
- **Dynamic Risk Tracking:** AI continuously monitors changing variables and updates risk assessments in real-time

**Automation of Routine Tasks**

- **Automated Reporting:** AI generates reports automatically, saving project managers time for more strategic work.
- **Task Scheduling and Reminders:** AI-powered tools schedule tasks and send reminders, ensuring deadlines are met.

•**Data Entry and Status Updates:** Routine updates are automated, reducing errors and allowing teams to focus on high-value tasks

# Popular AI Tools and Software

- Microsoft Project with AI features, Trello with AI, Asana, Monday.com, PMI Infinity
- Specific use cases and examples of how these tools are used



**Microsoft Project with AI Features:**

> **1.Resource Optimization:** Uses AI to suggest resource allocation, reducing bottlenecks and improving workload distribution.
> **2.Predictive Forecasting:** Offers predictive analytics to project future outcomes, helping with proactive decision-making.
> **3.Automated Scheduling:** Dynamically adjusts timelines based on real-time changes and dependenciesEpicflow, Rebel's Guide to Project Management

**Trello with AI:**

> **1.Smart Recommendations:** Provides AI-powered task recommendations to streamline workflows.
> **2.Automated Butler Commands:** Uses AI to automate repetitive tasks such as sending reminders and assigning tasks.
> **3.Sentiment Analysis:** Analyzes text in comments and discussions to assess team sentiment and suggest interventions if neededBusiness2Community

**Asana with AI:**

> **1.Task Prediction and Automation:** AI predicts task priorities and automates routine workflows to enhance productivity.

2.  **Workload Insights:** Provides real-time insights into team workloads, allowing for better resource management.
    **3.AI-Powered Search and Filtering:** Uses AI to quickly locate relevant tasks, projects, and documents, saving time on manual searching[Business2Community](#)

**Monday.com with AI:**

**1.AI-Driven Dashboards:** Uses predictive analytics to monitor KPIs and offer insights into project health.

**2.Process Automation:** Automates workflows and routine tasks to improve efficiency across multiple teams.

**3.AI-Powered Notifications:** Sends smart alerts based on project status and milestones, ensuring teams stay aligned and on schedule

# Live: Demo/Case Study

- Demonstrate a tool or present a case study showcasing AI in action in a real project
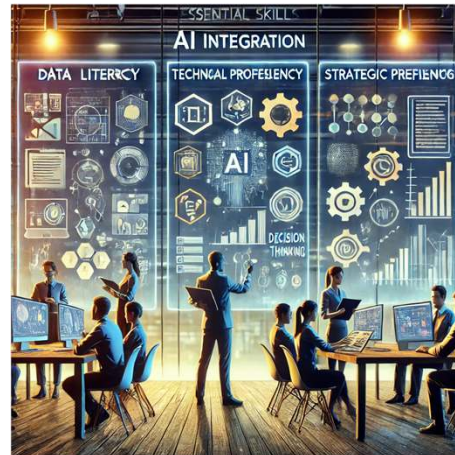


Five primary use cases of **PMI Infinity**:

- **Instant Responses to Queries:** Provides quick answers to project management questions, saving valuable timeThe PM Professional
- **Customizable Solutions:** Adapts to various project methodologies, such as Agile, Waterfall, or Scrum, with tailored recommendationsNTT DATA
- **Access to Vetted Content:** Offers a library of over 14,000 resources vetted by PMI's global community, ensuring reliable insightsPMI North Saskatchewan
- **Document Generation and Automation:** Automates documentation tasks like report creation and project planning through templatesProject Management Institute
- **Real-Time Decision Support:** Enhances decision-making by offering timely prompts and risk forecasts aligned with best practicesNTT DATA, PMI North Saskatchewan

# Essential Skills for AI Integration

- Data literacy: Understanding data analysis and interpretation
- Technical proficiency: Basic understanding of AI tools and software
- Strategic thinking: Leveraging AI insights for better decision-making



**Data Literacy: Understanding Data Analysis and Interpretation**
- **Data-Driven Decision Making:** Enables project managers to interpret trends and metrics to guide project strategiesThe PM Professional, NTT DATA
- **Effective Risk Identification:** Helps analyze data patterns to forecast potential risks and mitigate them earlyNTT DATA
- **Insightful Reporting:** Facilitates the generation of meaningful insights from large datasets to enhance stakeholder communicationThe PM Professional
- **Data Quality Assessment:** Ensures that the data used by AI tools is accurate, reliable, and free from biasPMI North Saskatchewan
- **.Ethical Data Use:** Promotes responsible handling of data, ensuring privacy and compliance with regulationsNTT DATA

**Technical Proficiency: Basic Understanding of AI Tools and Software**
- **AI Tool Utilization:** Empowers project managers to leverage tools like PMI Infinity and other AI-powered platforms efficientlyPMI North Saskatchewan
- **Workflow Automation:** Enables setup and management of automated processes to reduce manual workloadThe PM Professional

- **Data Integration Skills:** Facilitates the connection of various project management tools for seamless AI-driven insights[NTT DATA](#)
- **Configuration of Predictive Models:** Helps fine-tune AI algorithms for better forecasting and planning accuracy[Project Management Institute](#).
- **Problem-Solving with AI Tools:** Assists in troubleshooting issues and identifying opportunities for tool optimization[The PM Professional](#)

**Strategic Thinking: Leveraging AI Insights for Better Decision-Making**

- **AI-Augmented Decision Making:** Uses predictive analytics and real-time insights to make more informed decisions[The PM Professional](#), [NTT DATA](#)
- **Proactive Risk Management:** Leverages AI to identify potential risks and recommend preemptive actions[NTT DATA](#)
- **Strategic Alignment:** Ensures that AI-driven project outcomes align with business goals and objectives[Project Management Institute](#)
- **Resource Optimization:** Uses AI to plan and allocate resources more effectively across multiple projects[PMI North Saskatchewan](#)
- **Continuous Improvement:** Incorporates AI feedback loops to enhance project strategies over time[PMI North Saskatchewan](#)

# Learning and Development

- Recommended courses and certifications (e.g., AI for Project Managers, Data Science for PMs)
- Books, articles, and resources for continuous learning
- PMI Certificates
  - Generative AI Overview for Project Managers
  - Data Landscape of GenAI for Project Managers
  - Talking to AI: Prompt Engineering for Project Managers

**Recommended Courses and Certifications**
- **AI for Project Managers:** Focuses on integrating AI tools in project management to improve decision-making and efficiencyNTT DATA
- **Data Science for PMs:** Teaches project managers how to leverage data analytics for project insights and predictive forecastingPMI North Saskatchewan
- **PMI's Generative AI Overview Course:** Offers an introduction to the impact of generative AI in project environmentsProject Management Institute
- **AI and Machine Learning Certifications:** Provides technical knowledge to develop, deploy, and manage AI solutions in projectsPMI North Saskatchewan.
- **Business Analytics Specialization:** Equips project managers with skills to use AI-driven analytics for strategic project decisionsThe PM Professional

**Books, Articles, and Resources for Continuous Learning**
- **PMBOK Guide & AI Integration Updates:** Offers the latest insights on AI's role in standard project management practicesPMI North

[Saskatchewan](#)

•**AI-Powered Project Management Blogs:** Includes real-world AI use cases and success stories from PMI and industry experts[The PM Professional](#)

•**Project Management Journals:** Publishes academic articles on AI trends and emerging technologies affecting project management[NTT DATA](#)

•**Webinars and eLearning Resources:** PMI webinars provide hands-on experience and discussions on AI topics relevant to project managers[PMI North Saskatchewan](#)

•**Online Communities and Forums:** Engage with other professionals on platforms like PMI Infinity to exchange knowledge and best practices[Project Management Institute](#)

# Steps to Integrate AI

- Identifying areas where AI can add value
- Building a data-driven culture within your team
- Selecting and implementing the right AI tools

**Identifying Areas Where AI Can Add Value**

- **Evaluate Repetitive Tasks:** Identify manual processes, such as scheduling and reporting, that could benefit from automationNTT DATA
- **Analyze Project Data Gaps:** Look for areas where predictive analytics can improve forecasting, such as risk management and resource planningPMI North Saskatchewan
- **Engage Stakeholders:** Collaborate with key stakeholders to understand pain points and how AI tools could address themProject Management Institute
- **Review Historical Performance:** Use past project data to identify bottlenecks where AI could provide optimization opportunitiesThe PM Professional
- **Benchmark with Industry Trends:** Assess how other companies in the industry use AI to uncover potential areas for enhancementProject Management Institute

**Building a Data-Driven Culture within Your Team**

- **Promote Data Literacy:** Offer training to ensure all team members understand how to interpret and leverage data effectivelyProject Management Institute

- **Foster Collaboration around Data:** Encourage open discussions using project data to improve decision-making and transparency[NTT DATA](#)
- **Integrate AI Tools Seamlessly:** Ensure that AI platforms, like PMI Infinity, are incorporated into daily workflows for easier adoption[PMI North Saskatchewan](#)
- **Align Data Practices with Strategy:** Ensure data collection and analysis efforts support the overall project and business strategy[Project Management Institute](#)
- **Reward Data-Driven Decision Making:** Recognize and incentivize team members who effectively use data to enhance project outcomes[Project Management Institute](#)

**Selecting and Implementing the Right AI Tools**

- **Evaluate Tool Compatibility:** Ensure that AI tools integrate seamlessly with your current project management software and workflows[NTT DATA](#)
- **Prioritize User-Friendly Solutions:** Choose tools that are easy to use and accessible to all team members to ensure adoption[The PM Professional](#)
- **Conduct Pilot Programs:** Test selected AI tools on smaller projects to assess their effectiveness before scaling up[Project Management Institute](#)
- **Focus on Scalability:** Select AI tools that can grow with your project needs and future-proof your operations[Project Management Institute](#)
- **Monitor and Iterate:** Continuously evaluate the performance of AI tools and make necessary adjustments based on team feedback[Project Management Institute](#)

# Overcoming Challenges

- Common challenges and how to address them (e.g., resistance to change, data privacy concerns).
- Best practices for successful AI integration.
- AI Project Failure Modalities, Rand Corp[1]
  - **Misaligned goals**: Optimizing for irrelevant business metrics.
  - **Poor data quality**: Inadequate data to train models.
  - **Overengineering:** Using AI for problems solvable with simpler methods.
  - **Infrastructure gaps:** Insufficient systems to support data and models.
  - **Overconfidence in AI:** Unrealistic expectations of AI's abilities.
  - **Talent mismatch:** Teams chasing the latest technologies unnecessarily.
  - **Underestimating timelines:** Expecting rapid AI development and results.



**Common Challenges and How to Address Them**
- **Resistance to Change:** Introduce AI tools gradually, offering training and support to reduce anxiety and promote acceptance among team membersThe PM Professional, NTT DATA
- **Data Privacy Concerns:** Implement robust data governance policies and ensure compliance with industry regulations like GDPR to protect sensitive informationPMI North Saskatchewan, Project Management Institute
- **Lack of Technical Expertise:** Provide continuous education programs and certifications (like PMI's AI badges) to upskill team membersProject Management Institute
- **Integration Complexity:** Choose AI tools that align with existing workflows to minimize disruption during implementationProject Management Institute, PMI North Saskatchewan
- **Algorithmic Bias and Trust Issues:** Monitor AI systems regularly to detect bias, ensuring transparency and fairness in AI-driven decision-makingNTT DATA

**Best Practices for Successful AI Integration**
- **Involve Stakeholders Early:** Engage key stakeholders throughout the AI

adoption process to align expectations and gain buy-in[Project Management Institute](Project Management Institute)

•**Start Small with Pilot Projects:** Test AI tools on smaller projects to refine processes and demonstrate value before scaling across the organization[Project Management Institute](Project Management Institute)

•**Encourage Human-AI Collaboration:** Use a 'Human-in-the-Loop' approach to ensure oversight and accountability, combining AI with human expertise[The PM Professional](The PM Professional)

•**Measure Success Continuously:** Establish KPIs to monitor AI performance and impact, adjusting tools and strategies as needed[Project Management Institute](Project Management Institute), [Project Management Institute](Project Management Institute)

•**Promote a Learning Culture:** Encourage experimentation with AI tools and provide ongoing learning opportunities, such as webinars and certifications[PMI North Saskatchewan](PMI North Saskatchewan)

JAMES RYSEFF, BRANDON DE BRUHL, SYDNE J. NEWBERRY
The Root Causes of Failure for Artificial Intelligence Projects and How They Can Succeed
Avoiding the Anti-Patterns of AI

# Open Floor for Questions

- I have Tchotchkes for questions!

- I have a parking lot for ones I can't answer ☺

## Closing Remarks

**Integrate AI with PM Skills**: Incorporate AI tools and techniques into your project management practices. Enhance decision-making, streamline processes, and improve project outcomes.

**Optimize Team Performance**: Leveraging AI to automate routine tasks, identify and mitigate risks, and boost overall team productivity and efficiency.

**Future-Proof Your PM Toolkit**: Use the latest AI trends and technologies in project management, ensuring your skills and methods remain relevant and cutting-edge in a rapidly evolving industry.

Andy Burns Linked In Feel free to connect for:
- Copy of presentation
- Just to connect
- Help in job searches

# Time to get going!
- **Aristotle:** *"Well begun is half done,"* highlighting the importance of a solid start.
- **Mary Poppins:** *"Well begun is half done,"* motivating children to begin tasks with enthusiasm.
- **Plato:** *"The beginning is the most important part of the work,"* emphasizing the power of a good start.
- **Horace:** *"He has half the deed done who has made a beginning,"* stressing the value of starting.
- **English Proverb:** *"A good start makes a good end,"* linking a strong start to successful outcomes.
- **Chinese Proverb:** *"The journey of a thousand miles begins with a single step,"* underscoring the significance of taking the first step.