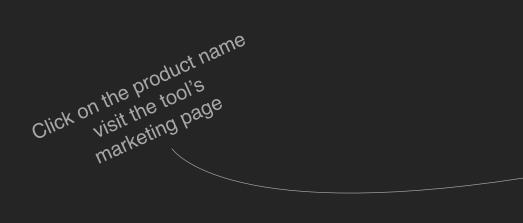**Project Management Institute**®

Generative AI for Project Managers

Suggested GenAI Tools for Project Work v1.0

The gen AI tools recommended in this training are provided for informational purposes and do not constitute an endorsement by the Project Management Institute (PMI). These suggestions have been curated by field experts based on their assessment of available options. PMI does not endorse any specific tool. Users are advised to exercise their own discretion, considering factors such as compatibility, security, and functionality, before adopting any tool. The dynamic nature of technology warrants continuous evaluation to ensure alignment with project management goals.

PLANNING

Generative AI (GenAI) offers project practitioners significant support during the project planning phase by automating tasks, analyzing historical data, and providing valuable insights. Through its ability to generate preliminary project plans, optimize resource allocation, assess risks, and predict outcomes, GenAI streamlines the planning process and enhances decision-making.

Click on the product name to visit the tool's marketing page

Show Me Diagrams (a ChatGPT Plugin)
— Generates diagrams (Gantt charts and network diagrams)
— Generates project timelines, dependencies, and progress visualisation

PROTOTYPING

GenAI design automates and produces multiple prototype options based on project requirements, helping you explore various possibilities quickly, fostering creativity, and identifying innovative solutions. Aerospace, automotive, architecture, and consumer products are just some of the industries already using GenAI.

Autodesk Fusion 360
— Generates 3D designs
— Streamlines product development
— Supports sketching, freeform modeling, surface modelling

Catia
— 3D modeling and simulation
— Generative Shape Design
— Interaction with the product

Ansys Discovery
— Enables interactive software models
— Simulation-driven design tool and more

TIME AND COST MANAGEMENT

GenAI supports efficiencies in time and cost management by automating calculations, optimizing schedules, and predicting risks. It ensures better estimations, cost savings, and on-time project delivery through data analysis and forecasting capabilities.

Smartsheet
— Generates clear explanations and recommendations
— Offers business insights
— Generates advanced formulas to streamline the work

CONTROL MANAGEMENT

In the project control phase, GenAI can help you continuously monitor progress, analyze real-time data, identify risks, optimize resource allocation, and provide actionable insights for data-driven decision-making to facilitate efficient project management and successful delivery.

WebPilot
(a ChatGPT Plugin)
— Analyzes and collates relevant information
— Generates improved accurate project-related data

RISK MANAGEMENT

Generative AI tools offer several advantages for risk management in project management by processing and analyzing large volumes of data, identifying patterns and correlations, and generating accurate risk assessments. These tools help project managers identify known and unknown risks, quantify their potential impact, and develop proactive effective risk mitigation strategies.

ChatGPT AI
Assistant for Jira
— Intelligent issue tracking
— Predictive analysis
— Automating tasks
— Risk identification
— Efficient resource management

WORKFLOW MANAGEMENT AND AUTOMATION

GenAI tools provide valuable advantages for workflow management and automation. These tools automate repetitive tasks, generate intelligent recommendations, and facilitate decision-making, allowing you to focus on higher-value activities and deliver project outcomes.

ClickUp AI
— Generates dependency reports from project plans
— Tracks progress on dependencies
— Identifies potential risks
— Ensures properly formatted and structured content
— Predicts project data
— Generates action items and insights

Dart (Plugin)
— Helps in developing PM tools and software

IMAGE, TEXT, CODE GENERATION

Generative image, text, and code generation tools are valuable assets if you want to improve productivity, creativity, and communication. These tools are not specific to project management, but the value they bring to the profession is notable.

Midjourney
— Creates images and videos for construction
— Tracks progress and controls performance

Azure AI (Microsoft cloud platform)
— Builds intelligent applications such as chatbots, content generators, data augmentation services, and fraud detection services

Autodesk Revit
— Generates design solutions based on constraints and objectives set by the user
— Optimizes designs
— Generates design alternatives

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| GitHub Copilot | — Writes code |
| | — Suggests lines or blocks of code to increase efficiency |

| Synthesia | — Generates synthetic videos |

| VEED | — Automates video editing tasks |
| | — Generates images from text |

WRITING ASSISTANT

Generative writing assistants help save time and effort and produce high-quality documents. They increase productivity by automating tasks such as writing, editing, and translating; they find errors and inconsistencies and improve communication and document quality.

Microsoft 365 Copilot	— Assists with spelling and grammar, clarity, and readability
	— Generates text in a variety of styles, including technical, creative, and conversational
	— Generates code in various programming languages

READING ASSISTANT

Generative reading assistants efficiently process and summarize large volumes of project-related documents, research papers, and reports. These AI tools can extract relevant information, generate concise summaries, and highlight key insights, enabling you quickly grasp essential details, make informed decisions, and stay updated on project progress without spending excessive time on reading and analysis.

| Access PDFs and Docs (Plugin) | — Retrieves and organizes essential project-related documents and data |

| LinkReader (a ChatGPT Plugin) | — Extracts relevant information, data and insights |
| | — Analyzes linked content |

CREATIVE WRITING

Chatbots can help you automate tasks such as creating status reports, sending email, answering questions, generating ideas, and translating documents. Although not strictly a project management tool, these popular AI tools kickstart productivity, save time, and generate ideas.

Google Bard

— Generates text
— Translates languages
— Writes creative content
— Answers questions in an informative way

ChatGPT by OpenAI

— Generates human-like text
— Translates languages
— Writes creative content
— Answers questions in an informative way