

DUBAI INTERNATIONAL PROJECT MANAGEMENT FORUM

5th EDITION

الدورة الخامسة

8 - 11 December 2018 • MADINAT JUMEIRAH • DUBAI



PARALLEL 1 - Artificial Intelligence

Personalized Project Management through Bots and Artificial Intelligence



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PMOTTO.ai ProActive.dk

www.dipmf.ae

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I M ALLAN ROCHA

SENIOR MANAGER, AUTHOR, SPEAKER & DATA CURIOUS

PROACTIVE





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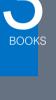


DEDICATED TO DELIVER
PROJECT & PORTFOLIO
MANAGEMENT SOLUTIONS
TO ALL SIZES OF COMPANIES













ALLANROCHA.com
PROACTIVE.dk





Ricardo Vargas

Managing Partner









22 years of Experience



5' PM Podcast



+4 million views ricardo-vargas.com

(In 6 lang.)















Former Global Director of the Infrastructure and **Project Management Group (United Nations)**

Past Chairman PMI

Agenda

Personalized Project Management through Project Online, Bots and Artificial Intelligence

1. Session takeaways

2. Modern Work Management

☐ Problems, ecosystem, strategy and vision

3. Overview of a Project Management Chat-Bot

4. How a PM Chat-bot interact with users and systems

5. Leveraging Machine learning inside a PM Chat-bot

1. Conversational AI tools like intelligent bots

6. The future of project work

7. Demo of a PM Chat-bot

8. Benefits of using a PM Chat-bot











Session takeaways:

Learn how to drive more adoption among your users with a personalized project management chat-bot assistant

Understand how to take advantage of available cutting-edge technologies to drive business transformation

Sense how artificial intelligence is changing the way we work with projects

Experience the future of project work allowing users to interact with

their project and portfolio management tool using natural language

Get inspired by several different applications of machine learning in project & portfolio management

See a demo of a REAL case about a chat-bot made exclusively for project and portfolio management.

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Work is happening everywhere all the time—and we end up losing track





Transparent

Get the big picture: all work, from tasks to portfolios, across multiple services

Our teams choose their own tools to work the way they want



Versatile

Collaborate on projects with flexible methodologies and familiar Microsoft tools

Modern problems

Our accidental PMs and millennials want simple, visual tools for work





Intuitive

Start fast with simple interfaces and modern web experiences

Our business processes cross functions and systems





Integrated

Run your end-toend business processes on a single platform A single compliance, security, or platform issue can disrupt business





Compliant

Innovate with confidence on a highly compliant, secure, scalable platform

Modern solutions

















Get the big picture

Gain visibility across the enterprise into all work, no matter the size or complexity, from tasks to portfolios, across multiple services





Work how you want

Collaborate on work using the right methodologies and tools to match project type and preferred work style





Start fast

Get started quickly with easy-to-use tools for all types of work, modern web experiences, and familiar Office 365 apps





Model your processes across functions and systems

Integrate workflows, business processes, sales, and financials on one platform

Run your business your way



Focus on business, not technology

Minimize business risks with a cloud platform that helps meet rigid compliance, security, performance, and scalability needs Innovate with confidence













Platform









Cloud



Teams work the way they want Executives get the results they need











Al for Project and Portfolio Management

 Personal Project Management Assistants

Cognitive Services, Chat-Bots and Machine Learning

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I'm an idea that will completely change the way you manage your projects



Experienced

I'm a combination of different profiles with more several years of experience and a common goal: "make your work easier!"



Multi-platform

I'm fully functional on your favorite project and portfolio management tool or communication channel



Adaptive

I'm smart enough to connect and understand your processes and guidelines.



Chat-bot

Like chatting with a friend, but one who makes you smarter, more productive and knows everything about your processes.



Machine Learning

I can learn with you and others to help make the right decisions on the right time.

Chat-Bots

Connecting the dots



USERS

Will ask questions in natural language to a chat bot



Chat-Bot

Listen, understand and translate your questions into actions in the tool



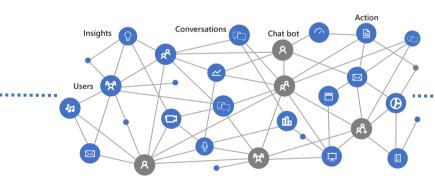
PROJECT ONLINE

Will store your data and your processes based on your organization needs



Instant Messaging













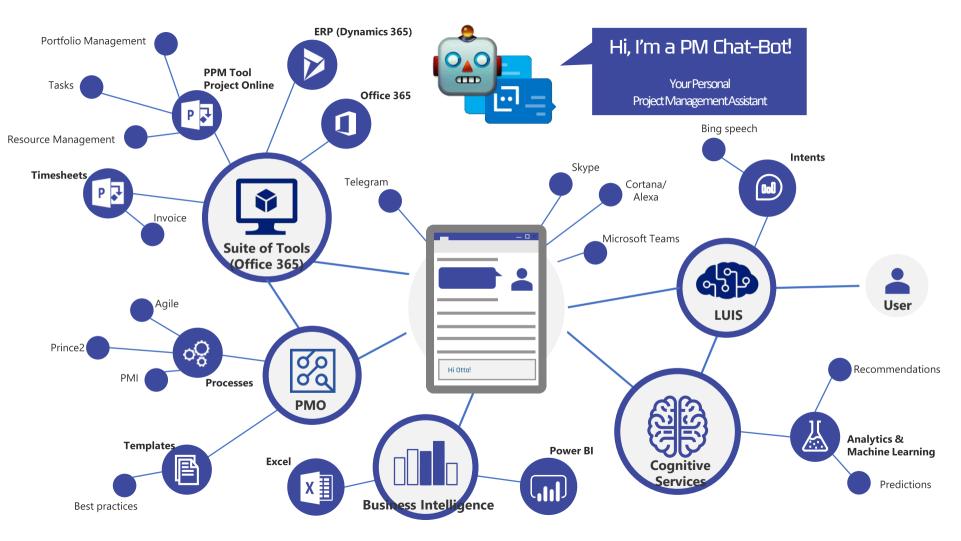




Chat-Bots

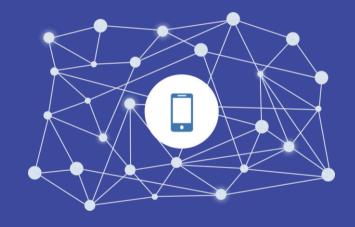
How a PM chat-bot works





Chat-Bots

Machine Learning Algorithms For Microsoft Project Online





Data Collection



Processing



Analyzing



Training and Learning



Prediction

Machine Learning



Performance

Predicting project global performance based on progress and status KPIs



Budget

Predicting budget forecast and variance according to current stage of the project



Risks*

Recommend risks based on previous projects and external factors, like weather or stock market



Estimates

Recommending accurate estimates to tasks based on key phrases



Precise predictions, better recommendations and fraud detection

Identify anomalies on your portfolio of projects and resource pool

Right time, your time: Proactive and reactive

Supporting the **Project Managers** and PMO











Chat-botsConversational Al tools



Project Personality Chat

Intent Type	Sample queries
Greeting	Hi Good morning What's up How are you feeling Goodbye
Feedback (Compliments, Criticism)	That's a good one Ha ha you're funny You are smart You're not helpful
User sentiments (Positive, Neutral)	I'm hungry I want to go to sleep I really like talking I love rain!
Bot Opinions	Who are you? Do you like music? What is your favorite food? Can you fly? What do you think about me?
Conversation request	Talk to me Let's chat about something say something funny I'm bored
Conversation continuation	Thanks Ok cool Why not? You're welcome

► Enhance chat conversations: Personality Chat makes intelligent agents such as chatbots more conversational by adding small talk in a consistent tone and minimizing fallback responses such as

"I don't understand."

Personality Chat uses a chat intent classifier to identify appropriate small talk queries and deep learning models to generate contextual responses in a consistent tone.

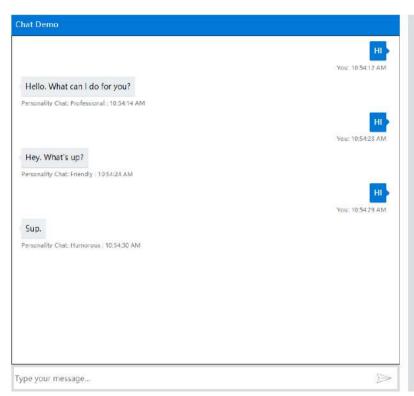


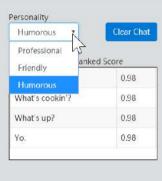






SAMPLE





- Disclaimer:
- By using this demo, you agree that Microsoft may store and use what you type to improve Microsoft services. To help protect your privacy, we take steps to de-identify your data and keep it secure. We won't publish your data or let other people use it.
- https://labs.cognitive.microsoft.com/enus/project-personality-chat





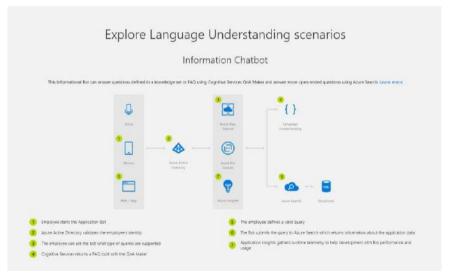


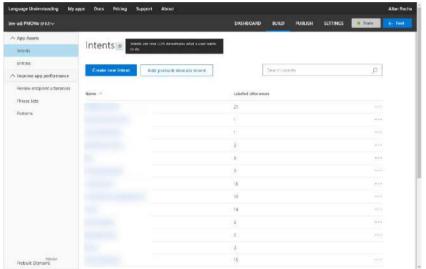




Machine Learning – LUIS (Language Understanding Intelligent Services

- A machine learning-based service to build natural language into apps, bots, and IoT devices.
- Quickly create enterprise-ready, custom models that continuously improve.







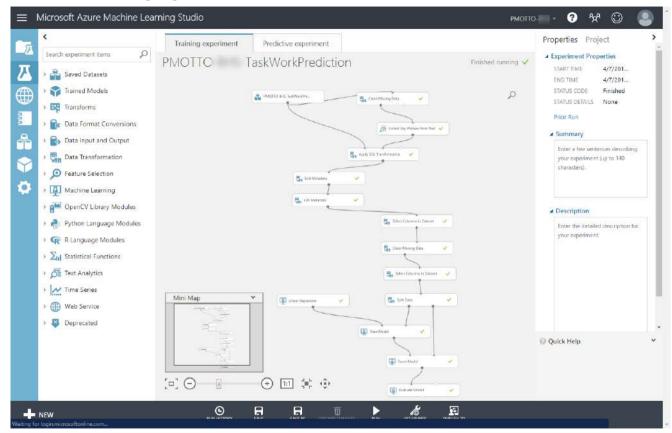








Machine Learning Algorithms – Work Prediction





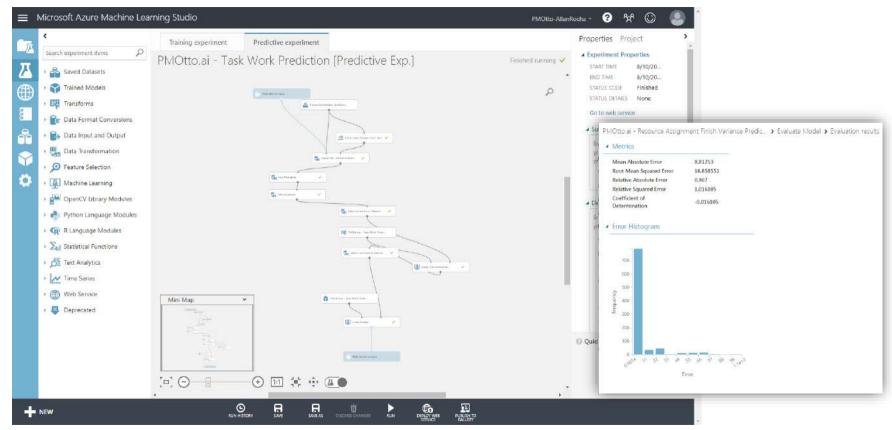








Machine Learning Algorithms – Work Prediction





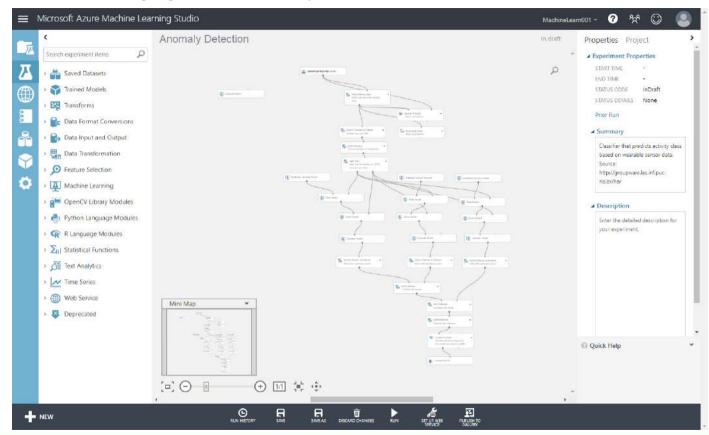








Machine Learning Algorithms – Anomaly detection





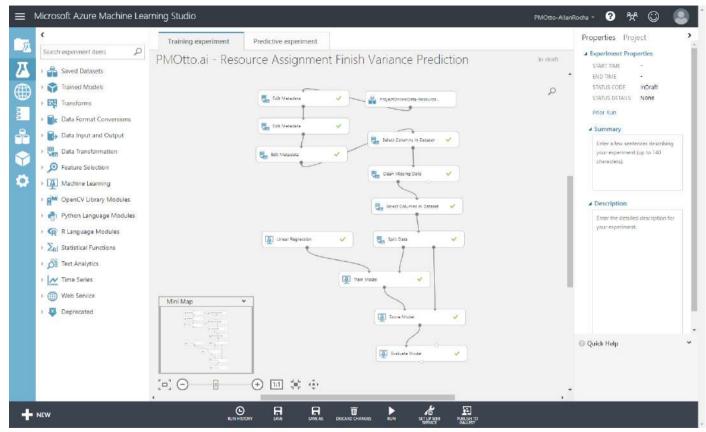








Machine Learning Algorithms – Finish Variance Prediction





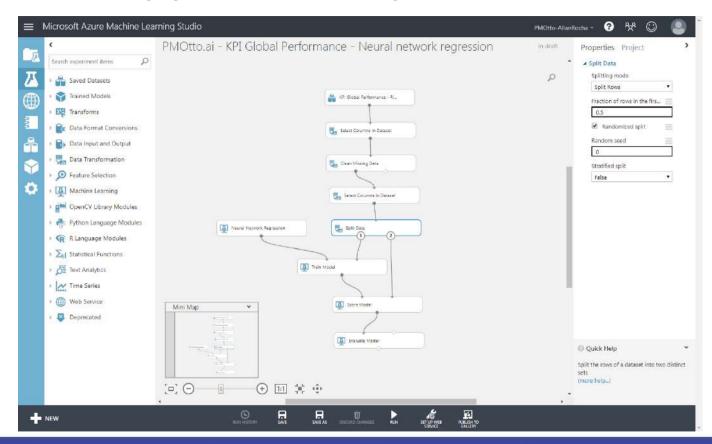








Machine Learning Algorithms – Neural network Regression







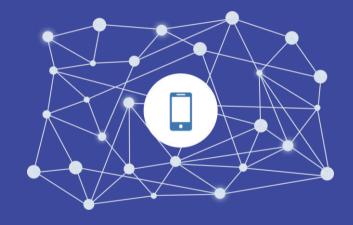






Chat-Bots

The future of project work



Future of Project Work - Execute tasks with natural interaction







Planning, Tracking and Collaboration



Reporting and Analyzing

LOCAL PERSONALIZED RECOMMENDATIONS



Create new ideas or projects



Submit for approval or next stage



Approve or reject projects or ideas



Update project information



Check project requirements



Save snapshots of your projects data



Keeping project KPIs updated



Request resources based on roles



Manage risks, issues and deliverables



Formalize change requests*



Create tasks and assign to resources



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Update your timesheet and tasks



Generate documents based on templates



Quick insights based on dynamic reports



Share project status reports



Receive relevant project recommendations



Review project information



Get instant help and support









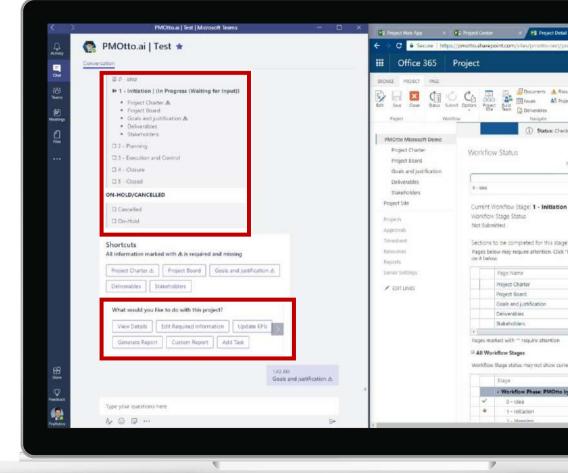


How it look-like PMOTTO.ai



100% of methodology adoption

- Understand your processes and translate them into natural language
- Help the users by using "smart talks"







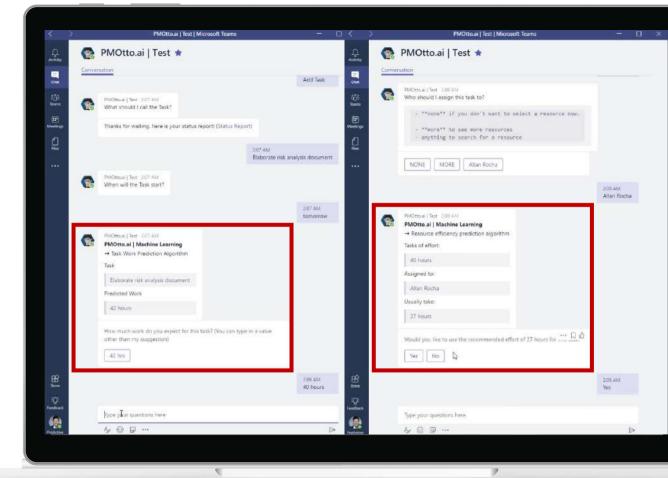






Create tasks and assign to resources

- Create tasks directly into your project plan
- Assign tasks to resources from the resource pool
- Get recommendations from Machine Learning Algorithms
- Task Work Prediction Algorithm
- Resource Efficiency Prediction Algorithm







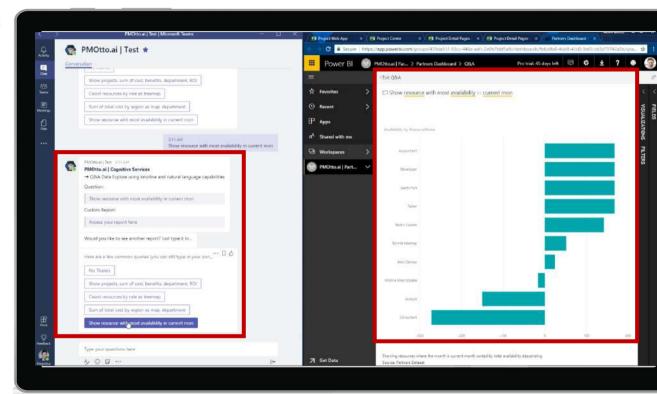






Business Intelligence Integration

- Ask any question about your project and portfolio dat
- Transform your business questions into live charts
- Get recommendations of the most used questions
- Q&A Data Explore using intuitive and natural language capabilities







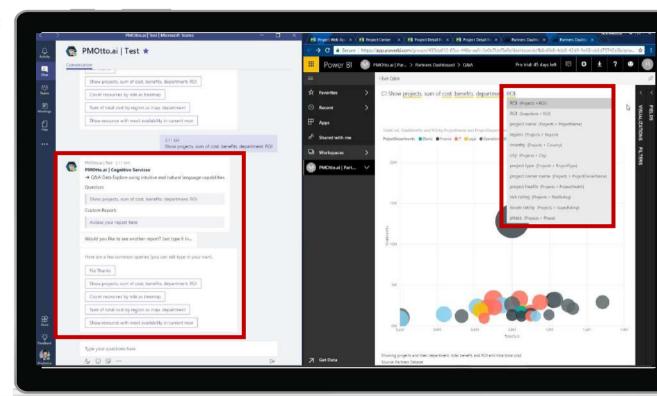






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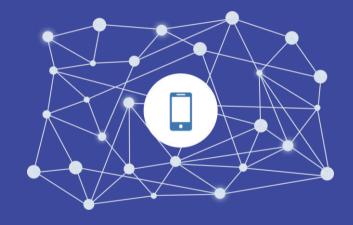






The pioneers

Rockwool International





Bots & Artificial Intelligence

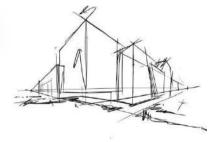
The challenges and learnings of being a pioneer



Keith Bollington
Director, Digital Transformation



Angela Daniel
Global PMO Lead





How to introduce PMOTTO.ai to your organization

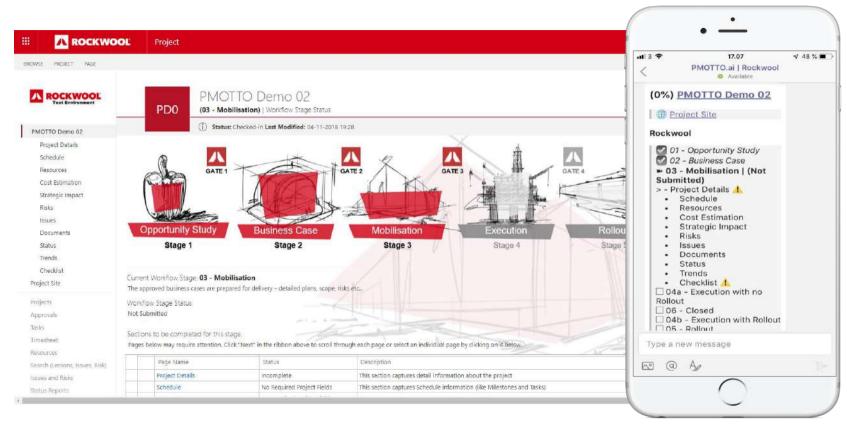


- New way to interact with your projects
- Powered by machine learning
- Works with any device
- Helps new users learn your process



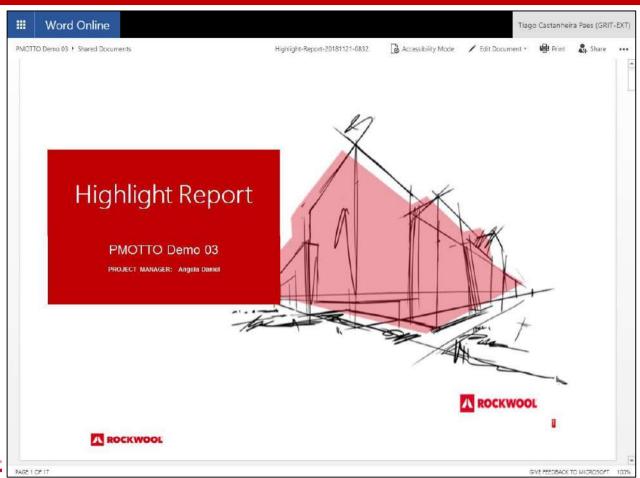


How PMOTTO.ai fits to Rockwool





How its helping our users





Who is innovating in the market



"We are testing Otto at the moment, and will look to roll it out to all users next year as a supporter for initiatives like the time registration, project management adoption and predictive analytics. We are always trying to innovate to do better and PMOTTO.ai supports this vision."

Keith Bollington, Director, Digital Transformation .

"Leading a Global PMO has several responsibilities and one of them is to empower our users. We want PMOTTO to be the users' personal project management assistant who supports them with usual or critical tasks."

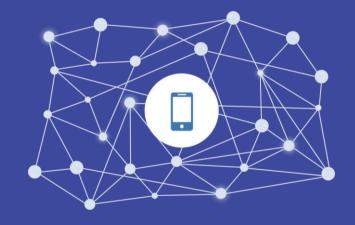






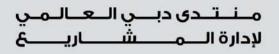
The benefits

What are the benefits of using Al



for Project and Portfolio Management @DIPMF

Help organizations drive more and better adoption to PPM tools Benefits of Al Reduce resistance from the users by allowing them to use natural language to interact with the system Improve users productivity by automating the execution of common or frequent tasks Improve project data quality by ensuring 100% of project governance Improve project collaboration by providing access anywhere on any device Reduce investments on training by allowing users to interact with the system independently of interface Save users time by allowing them to work on something else while the task is being processed in the background Improve users safety by providing a verified knowledge base of the system via secure Help websites Increase tool usage by unifying several systems in one place Improve data trust and project accuracy by providing assertive recommendations using machine learning Reduce project failure by helping organizations to identify and predict issues within its projects DIPMF DIPME DIPMF



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Thank you!

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Blog: www.ppm4all.com

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