

University of Maryland

Project Management Symposium

NEXT SESSION

Project Management in the Age of Artificial Intelligence

Tim Jaques

Author

Founder & CEO, Teaming Worldwide

President, International Project Management Association, USA Member Association
(IPMA USA)



PROJECT MANAGEMENT
CENTER FOR EXCELLENCE

A.J. CLARK SCHOOL OF ENGINEERING
Civil & Environmental Engineering Department

This session will be recorded.

Project Management Symposium

Project Management In The Age of Artificial Intelligence

Tim Jaques

President

International Project Management Association, United States



PROJECT MANAGEMENT
CENTER FOR EXCELLENCE

A.J. CLARK SCHOOL OF ENGINEERING
Civil & Environmental Engineering Department





PROJECT MANAGEMENT
CENTER FOR EXCELLENCE

A.J. CLARK SCHOOL OF ENGINEERING
Civil & Environmental Engineering Department

Tim Jaques

Project Management
— in the Age of —
Artificial Intelligence

College Park, Maryland
USA

April 19-21
2024

ipma-research-conference.world 
rc2024@ipma.world

The banner features a dark blue background with a red fingerprint pattern. The text is white and red. The event details are in a dark grey box at the bottom.

Right Here At The Stamp!

A decorative graphic consisting of three overlapping, stylized arrow shapes pointing to the right, colored red, yellow, and black.

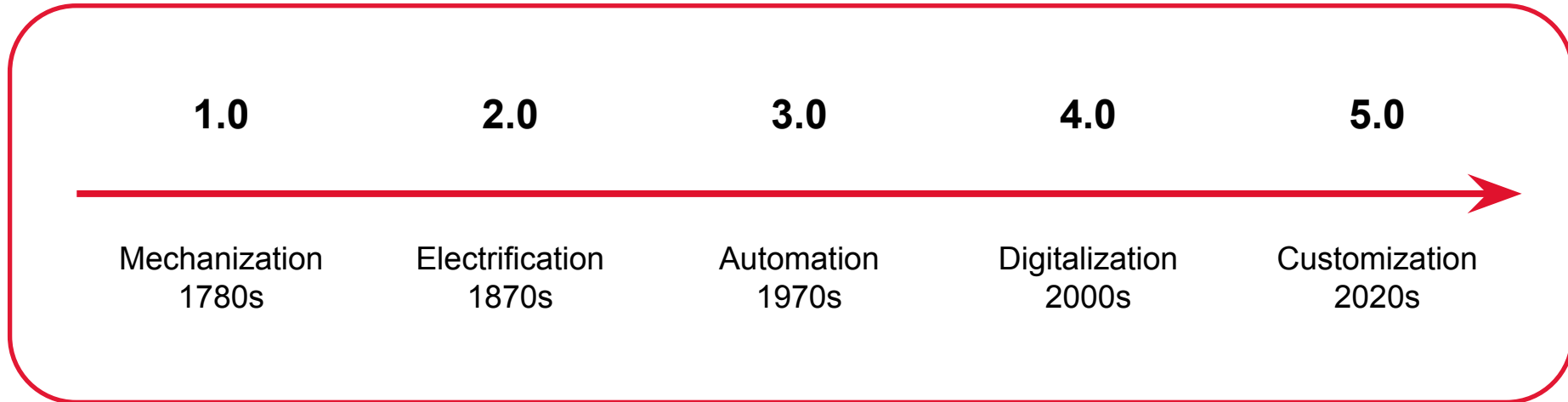
Our Roadmap

- Where Are We Now?
- Where Are We Going?
- How Will We Get There?
- What Decisions Do We Need To Make?
- Takeaways





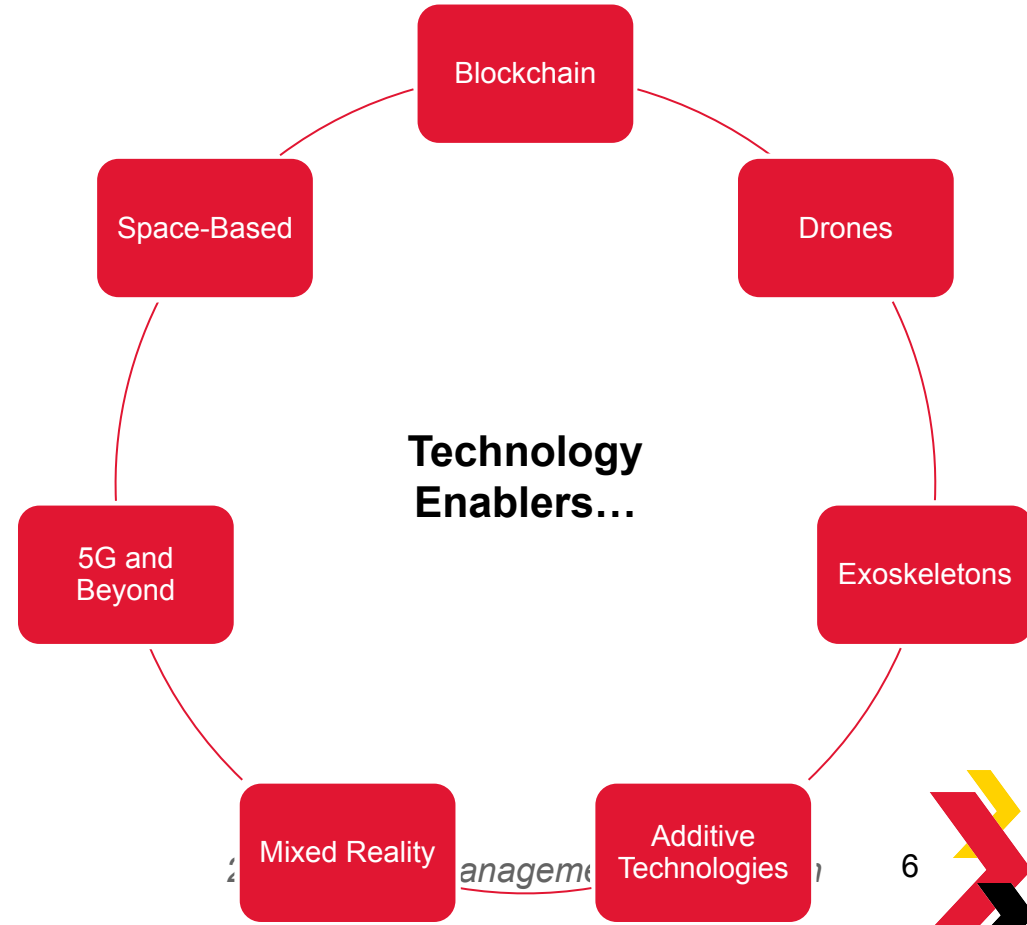
Where Are We Now?



Industry 5.0

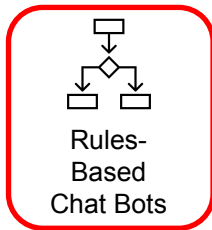
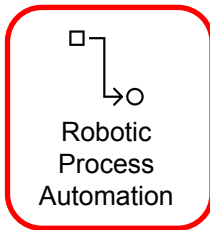
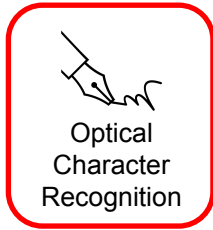
Human Consciousness and Machine Learning

- Humans and robots side-by-side
- Intelligent devices
- Hyper-customization
- Responsive supply chains
- Experience-activated products
- Early extra-planetary production



The AI Evolution

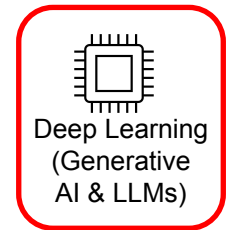
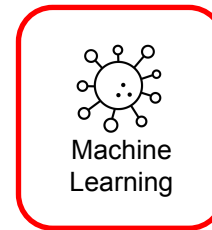
Recognition



Comprehension



Generation



Low Complexity / Low Innovation

High Complexity / High Innovation



Diagnosis, automated care journeys, hyper-personalization of medicine, payor optimization.

Healthcare

Personalized learning journeys and materials, automated grading, professional development.

Education

AI Industry Front Runners

Drug development and formulations, regulatory support, approvals and testing optimization

Pharma

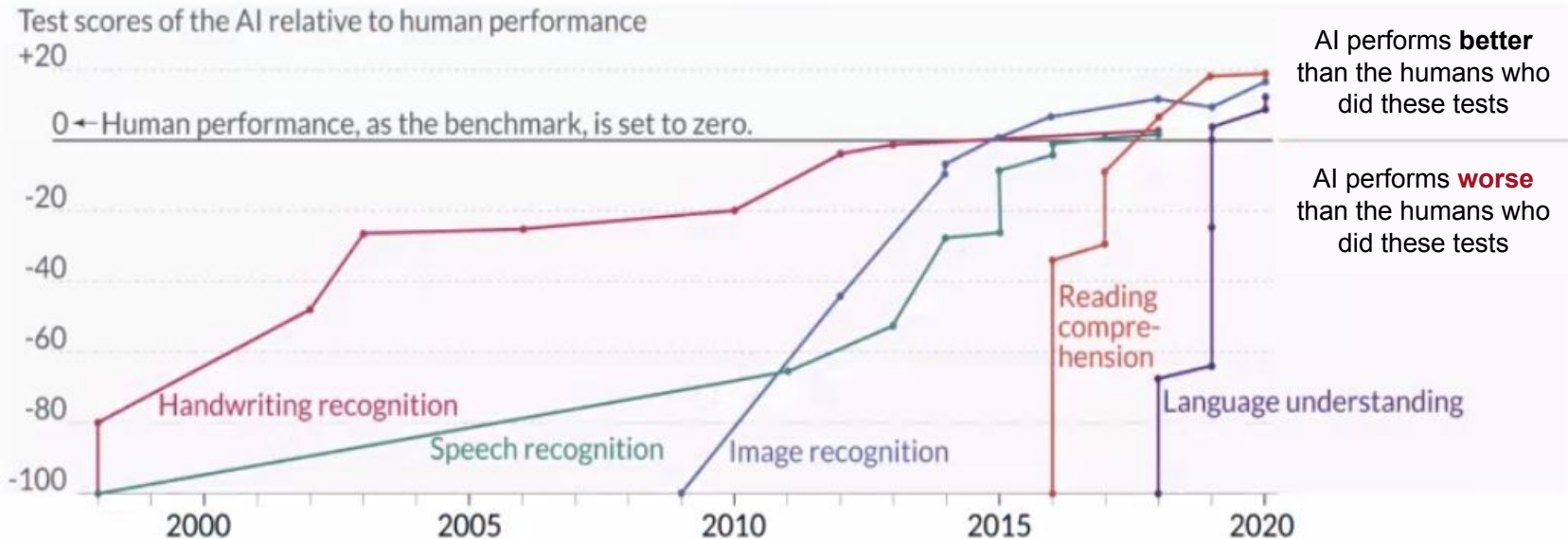
Create ideas, scripts, music, video, and translations.

**Media and
Entertainment**

Fraud detection and transaction analysis, investment analysis.

**Finance and
Banking**





Current AI Strengths And Challenges

<p>AI</p>	<p>In general, AI is better than humans at operating in stable environments, with static well-defined rules and consistent inputs.</p>	<p>AI is increasingly good at meeting our materials needs, optimizing</p>	<p>AI is good at handling big work like data crunching, large user bases, and global-scale systems</p>
<p>Humans</p>	<p>Humans are better at handling surprises, filling in the gaps, operating in environments with poorly defined rules.</p>	<p>Humans are better at meeting our social needs</p>	<p>Humans are better at one-off, multi-disciplinary, and/or high-stakes work</p>

Adapted from Kevin Roose, Futureproof - 9 Rules for Surviving the Age of AI



Disruption is Underway: Examples

Insurance companies leverage AI to sell policies, calculate quotes and highly accurate actuarial data

Optimization



Logistics companies have AI route optimizers making deliveries more efficient and reducing the need for staff

Automation



Predictive software is enabling circular economic models, and lengthening the lifespan of large, complex assets like airplanes and bridges

Predictive





The Duality of Modern Projects

We Are Building the Most Advanced Solutions Ever

- Construction
- Robotic factories
- Advanced logistics
- Personalized medicine

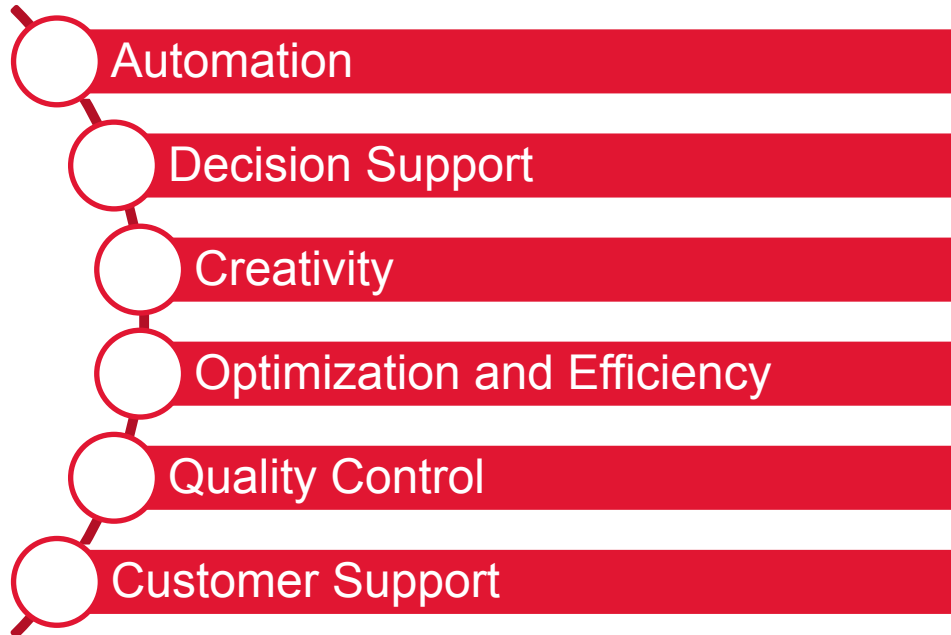
Using 100-Year-Old Toolsets and Skillsets

- Gantt charts and activity sequenced schedules
- Risk registers
- PDF contracts
- Meetings and minutes

PM's risk becoming the meeting makers and note takers of the next wave of technologies.

A decorative graphic consisting of three overlapping arrows pointing to the right, colored red, yellow, and black.

A Different Path Forward



We must be conversant in the emerging tech stacks.

We must understand blockchain solutions that will drive optimized contracting and agreement setting.

A decorative graphic consisting of three overlapping arrows pointing to the right, colored red, yellow, and black.

Scope Management Challenges

- What are the limits of the system? Chatbots may be more clear, machine-learned processing systems may be less clear.
- How do we implement data governance in an AI system to ensure a high-confidence system?



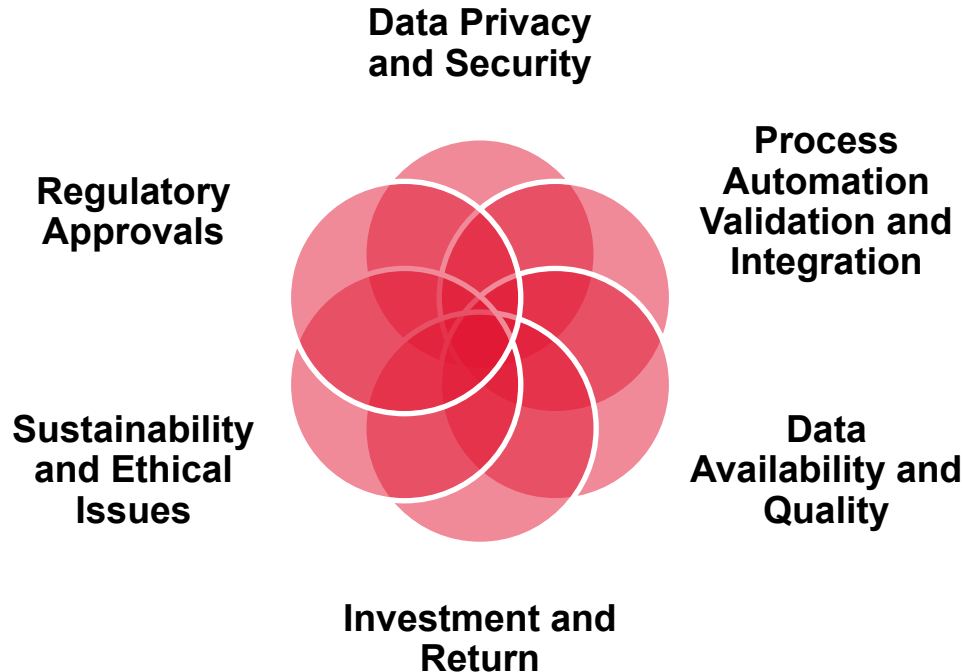
Stakeholder Management Challenges

- How do we create a clear powerful vision of the changes that a new AI-driven environment will enable?
- How do we build solutions around job replacement fears, inadequate skills, and unlearning of today's roles?
- How do we build familiarity and comfort with these new systems for maximum uptake?





Risk Management Challenges





New Functions in a LLM World

- **LLM Trainer.** This role would be assigned early in the project, and the individual would be responsible for working with the AI platform to build the context-sensitive use cases. This role will prove to be critical for the translation of neural algorithms into actual user inputs and outputs.
- **Prompt Engineer.** This would be a customer-facing role that would help your users to get the right types of responses from the system, especially early on. These resources should be assigned at the outset and ramped up before testing begins, so they can understand the strengths and weaknesses of the system.





Where to begin?

- Gather Appropriate Stakeholders
- Build Literacy around AI
- Take Inventory of Current Uses of AI
- Align AI with Strategy
- Determine Your AI North Star





PROJECT MANAGEMENT
CENTER FOR EXCELLENCE

A.J. CLARK SCHOOL OF ENGINEERING
Civil & Environmental Engineering Department

**Join
Us!**

Project Management
— in the Age of —
Artificial Intelligence

College Park, Maryland
USA

April 19-21
2024

ipma-research-conference.world 
rc2024@ipma.world

The banner features a dark blue background with a red fingerprint pattern. The text is white and red. The location and dates are in a dark grey box. The website and email are at the bottom.

Right Here At The Stamp!



Questions?

Tim Jaques

President, IPMA-USA

General Chair, 12th IPMA Research
Conference

tim.jaques@ipma.world

IPMA[®]

international
project
management
association

www.ipma-usa.org





Evaluate Session

