



What is AI and how can it help my business

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Agenda

- Defining Artificial Intelligence
 - Why Now
 - Printing Industry AI Use Cases
 - Recommendations
-
- Final Thoughts and Tools



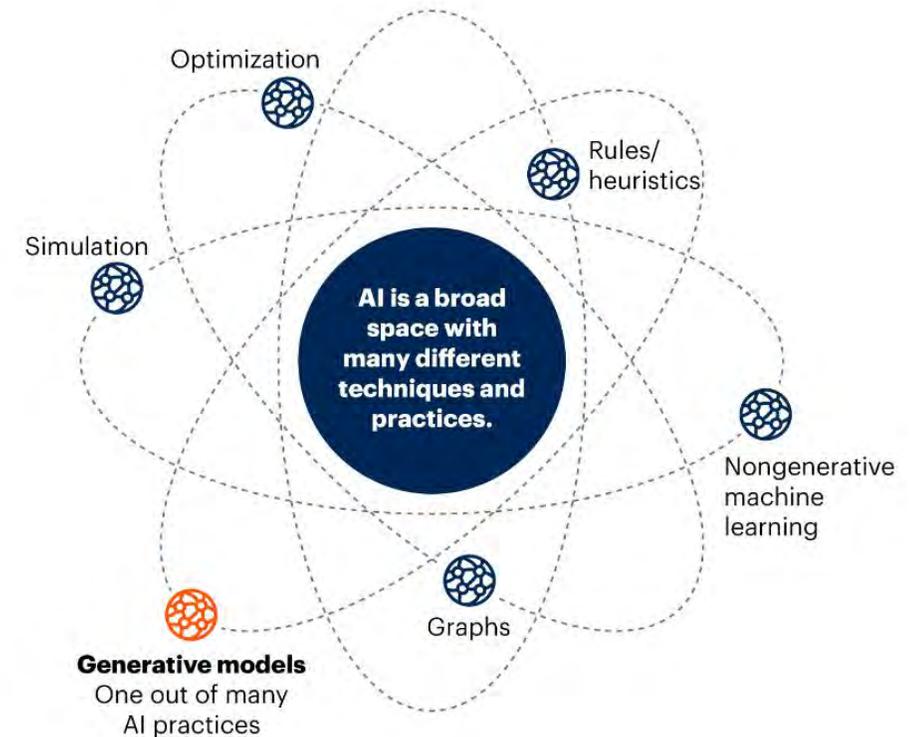
What is AI?



AI – A little history and what is it.

- Heuristics are often based on practical rules or guidelines that are derived from experience or general knowledge, rather than from exhaustive analysis.
- Non-generative AI refers to artificial intelligence systems that *do not generate* new content, data, or outputs but instead perform tasks such as classification, prediction, scraping or decision-making based on predefined models or rules.
- Generative AI refers to a class of artificial intelligence systems that are capable of creating new content, data, or solutions by learning patterns from existing data.
- Each has their place but thanks to ChatGPT, Google and Meta Generative AI gets all the press but is NOT the only AI

AI Does Not Revolve Around GenAI

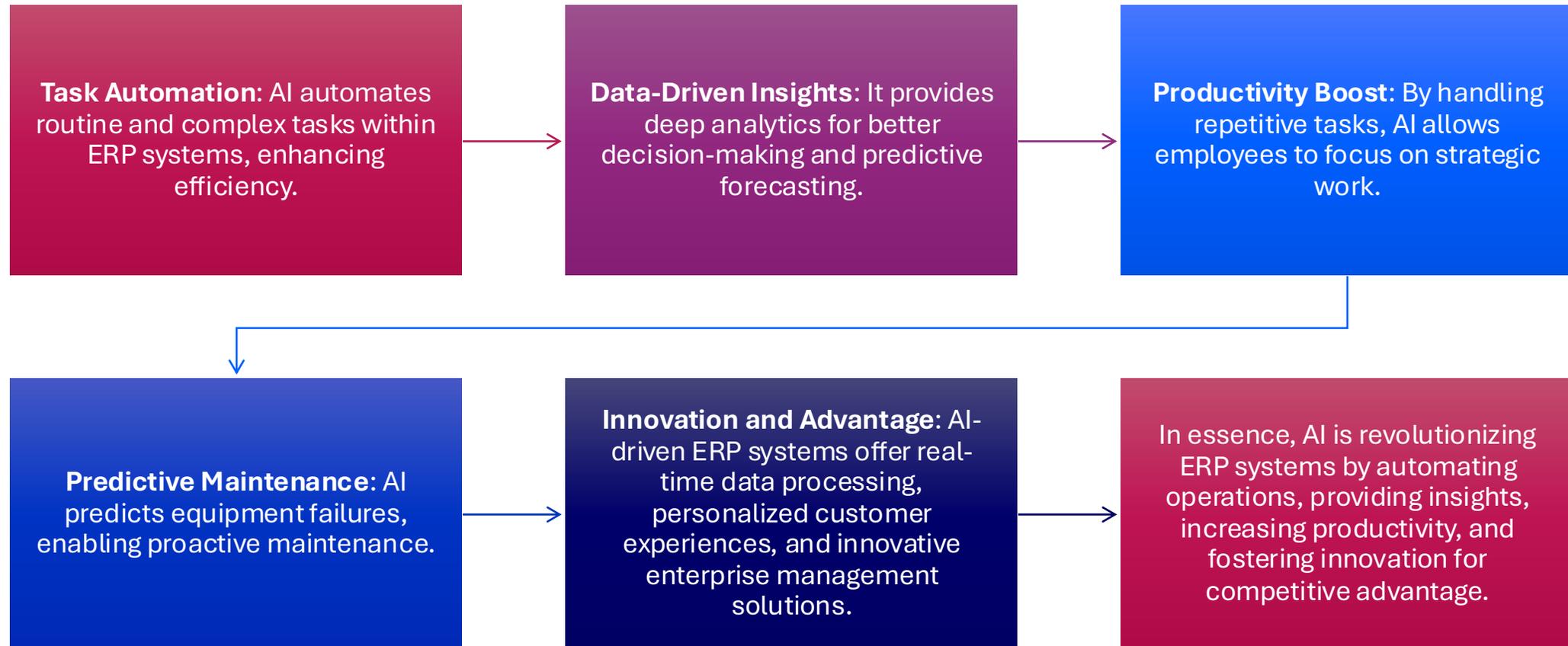


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What is AI?

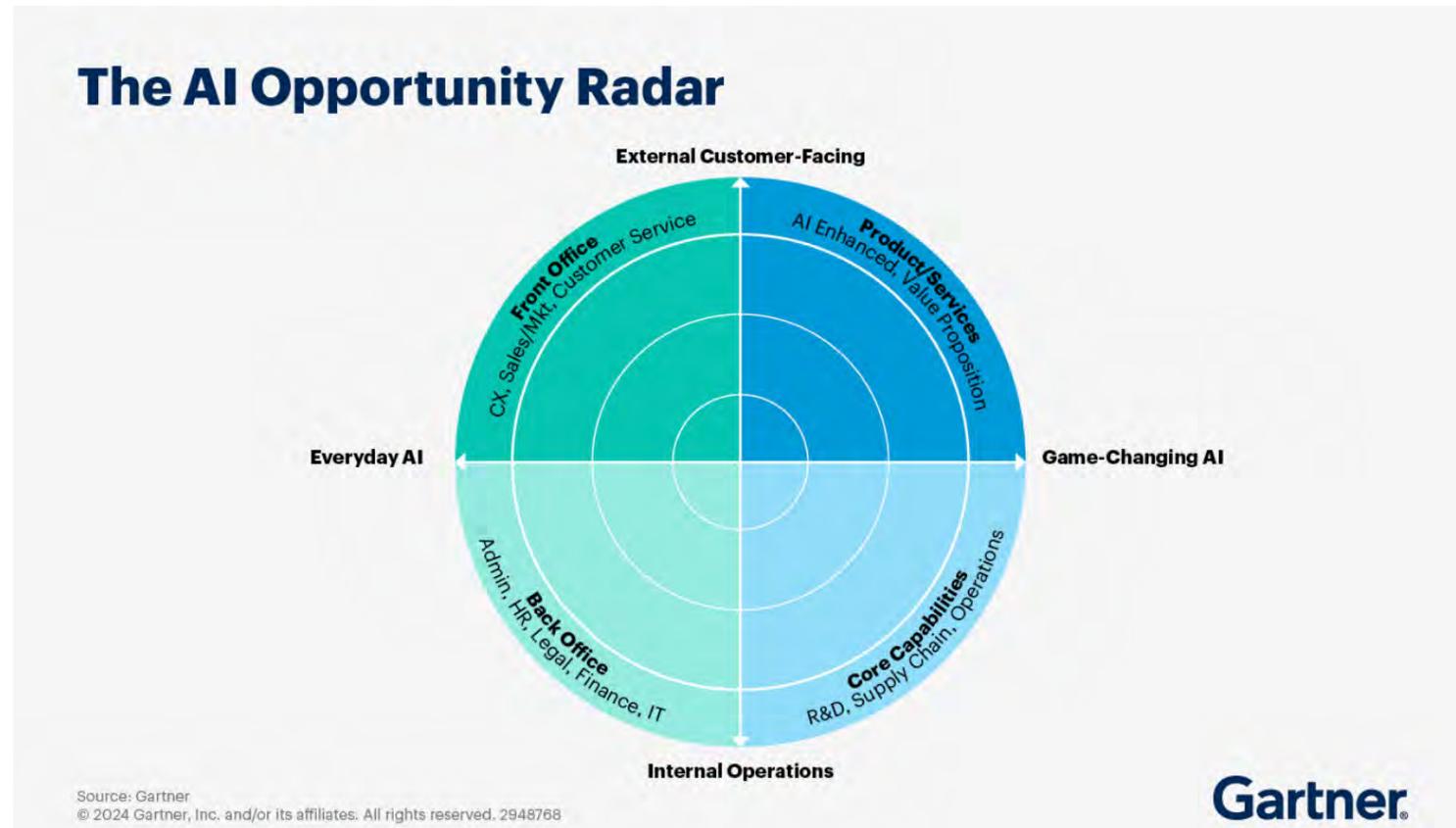
Comparable to Internet or Mobile market disruption



What is AI?

Gong, Salesforce Einstein CoPilot...

ePS “CoPilot” & Actionable Insights...



ChatGPT...

CoPilot...

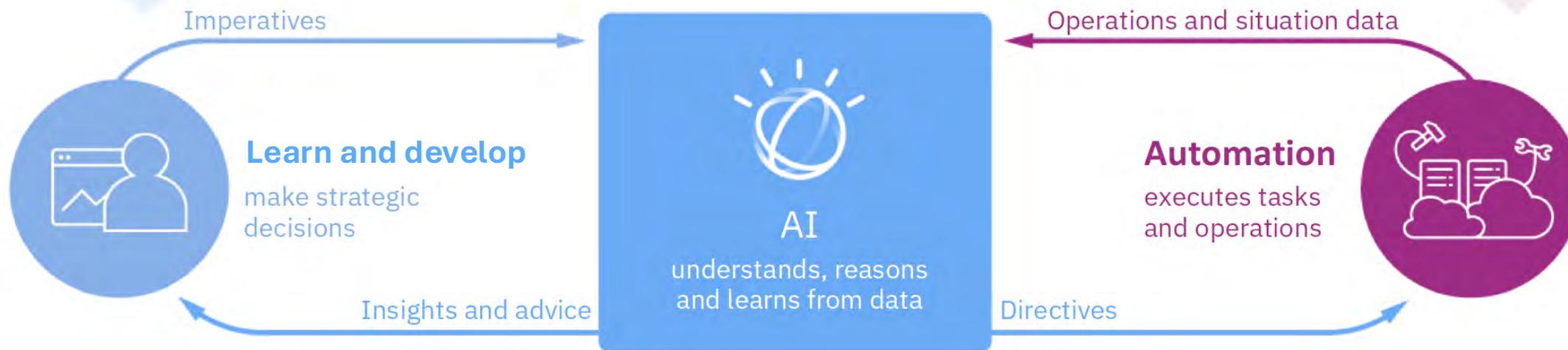
The Generative Difference

Augmenting human intelligence
with cognitive insights

- Train
- Learn
- Improve

Autonomously managing IT operations

- Execute
- Track
- Enhance

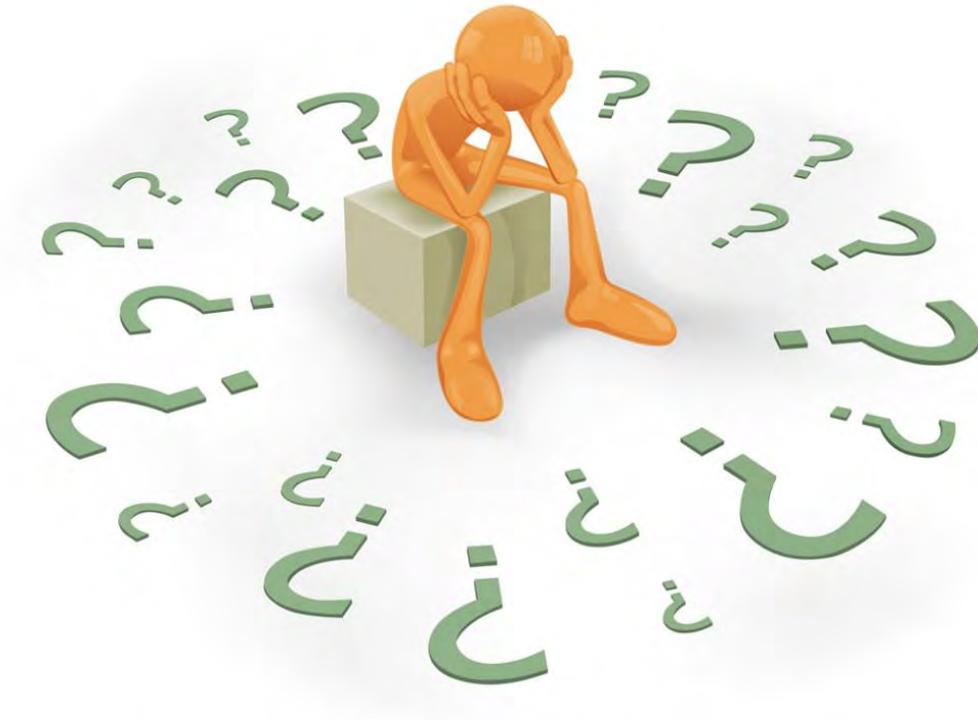


AI in the Printing Industry: Why Now?

- Industry labor shortages and skills drain - We have an aging workforce with tribal knowledge (heuristics in their heads)
- Increasing labor costs
- Increasing material and transportation costs
- Need for diversification
- Higher levels of pre and post print work (personalization, special finishing, special packaging requirements)
- Less sophisticated buyers

Where do I start?

- There are so many things I think I can use AI for but where do I begin?



Prevalent Print Use Cases

- Imaging and artwork
 - Color management and output control
 - Prepress processing
 - Image / artwork and interactive generation
- Smart Manufacturing and Industry 4.0:
 - Integrating IoT devices to monitor equipment health and performance in real-time.
 - Leveraging predictive maintenance to reduce downtime and improve asset utilization.
 - Implementing digital twins to simulate and optimize production processes.
- Supply Chain Resilience and Optimization:
 - Real-time visibility into supply chains to predict and mitigate disruptions.
 - Optimizing manufacturing and warehousing locations to optimize just in time delivery and cost.
 - Utilizing AI and ML to optimize inventory levels and improve demand forecasting.

Prevalent Print Use Cases

- Documentation
 - Experienced users often struggle to train new users on YOUR specific business process – They're not writers
 - Every department is a collection of notes, pdf's, diagrams all written at different times by different people
 - Feed an AI Engine (like OpenAI) and ask it to turn YOUR notes into user documentation
- Customer or Employee Centric Operations:
 - Personalizing customer experiences through advanced CRM integrations.
 - Provide contextual help to a user struggling with a specific item (ChatBot).
 - Assisted AI Workflow. Example; When an estimator wants to create a new estimate, they can add simple product descriptions, quantities, etc. and the system will find similar past estimates to make suggestions or generate entirely new estimates
- Utilizing analytics to gain insights into customer preferences and behaviors.
 - Generative AI: Summarization, Look for Key Insights, etc.
 - Generative AI: Transform underlying SQL of a visualization (Widget)
 - Generative AI: HELP ChatBot based on Product Docs and Knowledgebase articles

Basic Generative AI is everywhere



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◆ AI Overview

TAGA NextGen is the annual technical conference of the Technical Association of the Graphic Arts (TAGA), focusing on the latest research, technologies, and innovations in the graphic communications industry, and specifically geared towards developing the next generation of industry leaders and enthusiasts. [🔗](#)

Here's a more detailed breakdown:

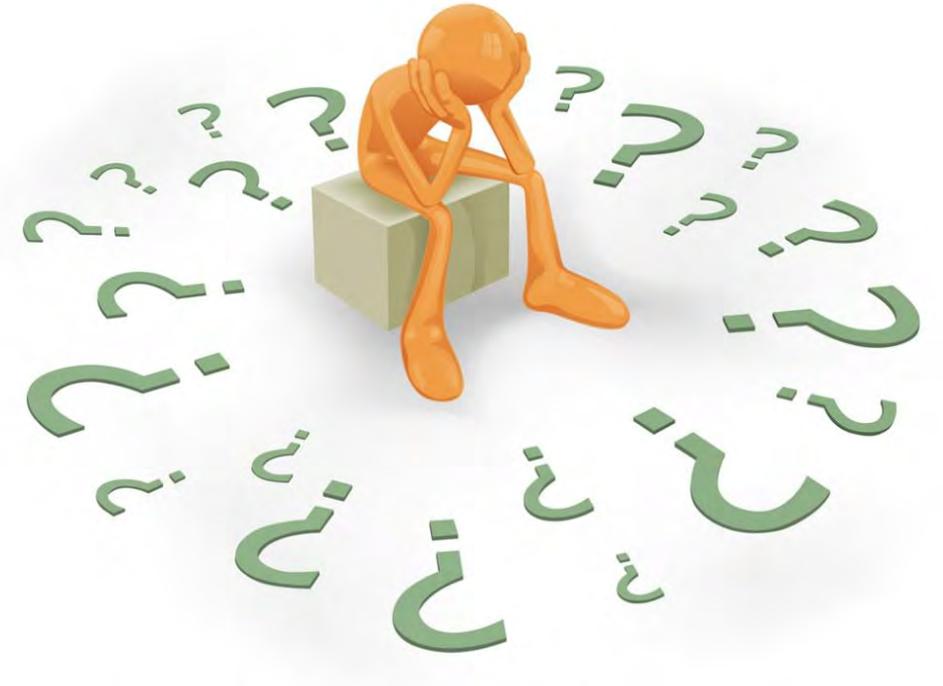
Focus:

TAGA NextGen aims to provide a platform for industry professionals, students, and academics to share knowledge, network, and learn about the latest developments in

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Where do I start in my business?

- The Checklist
 - Identify Obstacles
 - Assign responsibility
 - Identify Priorities (start small)
 - Continuous Learning
 - Human Touch (remember the early years of GPS)
 - Security



There are endless tools – These are mine!

- Amazon Lex
- Amazon Bedrock
- AWS Lambda
- Claude
- Azure Ai services
- Azure Speech services
- Azure Conversational Language Understanding Service
- OpenAi
- ChatGPT
- Python
- Flask API
- Nginx (Web Server)
- Angular (UI)
- Redis (Cache)
- ML libraries
 - Scikit learn, StatsModels, Tensorflow, NLTK, Spacy

