

An aerial photograph of a vast, clear turquoise ocean. In the lower-left quadrant, a small white motorboat is moving towards the right, leaving a white wake. The water's clarity reveals a complex pattern of dark, submerged coral reefs and sandbars. In the far distance, a small, low-lying island with some buildings is visible on the horizon. The sky is a pale blue with scattered, soft white clouds.

Deloitte Insurance Week

Where Reinsurance Meets

Emerging trends in Technology,
AI, & Data

Monday, May 12

Today's Panel



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FS Tech Trends

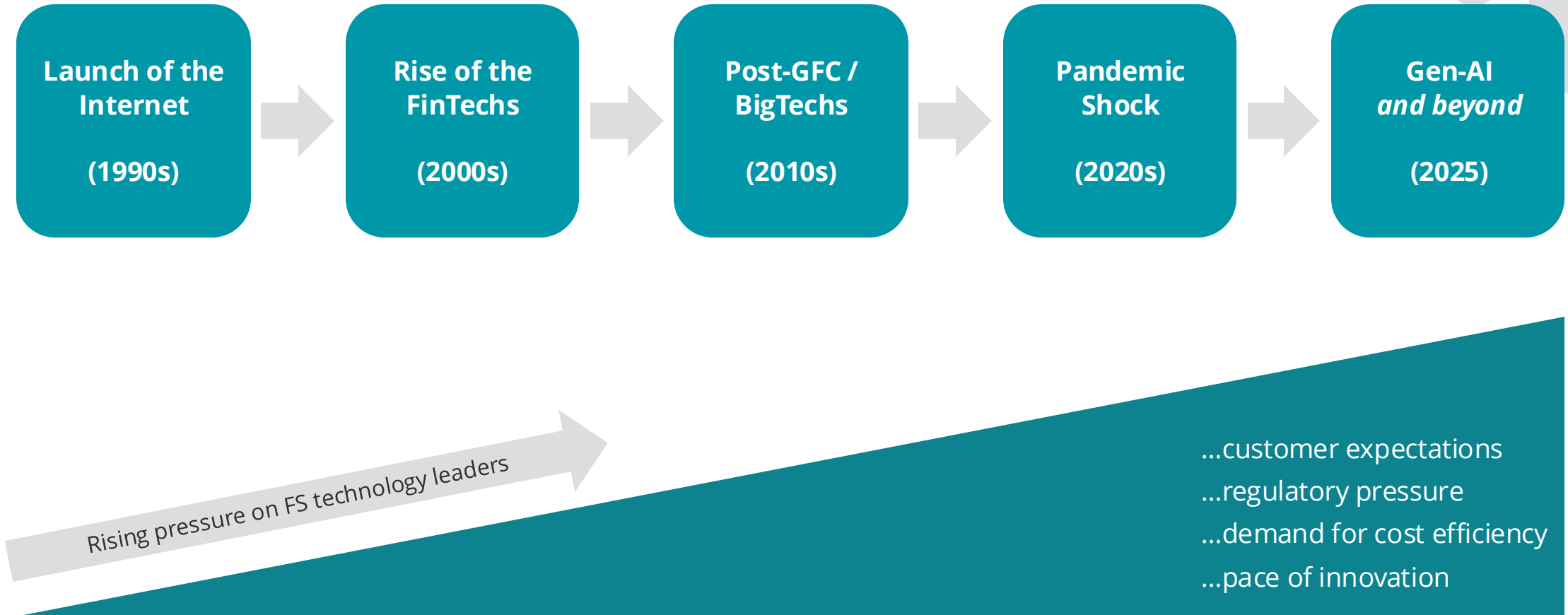


Agenda

- 1 A quick history lesson**
...where we are now and how we got here
- 2 Digital maturity matters**
...but this isn't a race to the summit
- 3 Budget isn't everything**
...vision and strategy are equally important
- 4 A recipe for success**
...delivering with the right balance of resources, operations and talent
- 5 The AI (r)evolution**
...the “oldest new technology” promises much – making it performant takes investment
- 6 Key takeaways**
...plan for what you know (and for what you don't)

A quick history lesson

Dramatic change in a short space of time creates new pressures



Where we are now

Financial institutions focus their resources in different ways

Efficiency / Security / Compliance

Trade efficiently and securely while maintaining full regulatory compliance



Competitive Advantage

Enhance effectiveness and attract and retain customers and talent through innovation



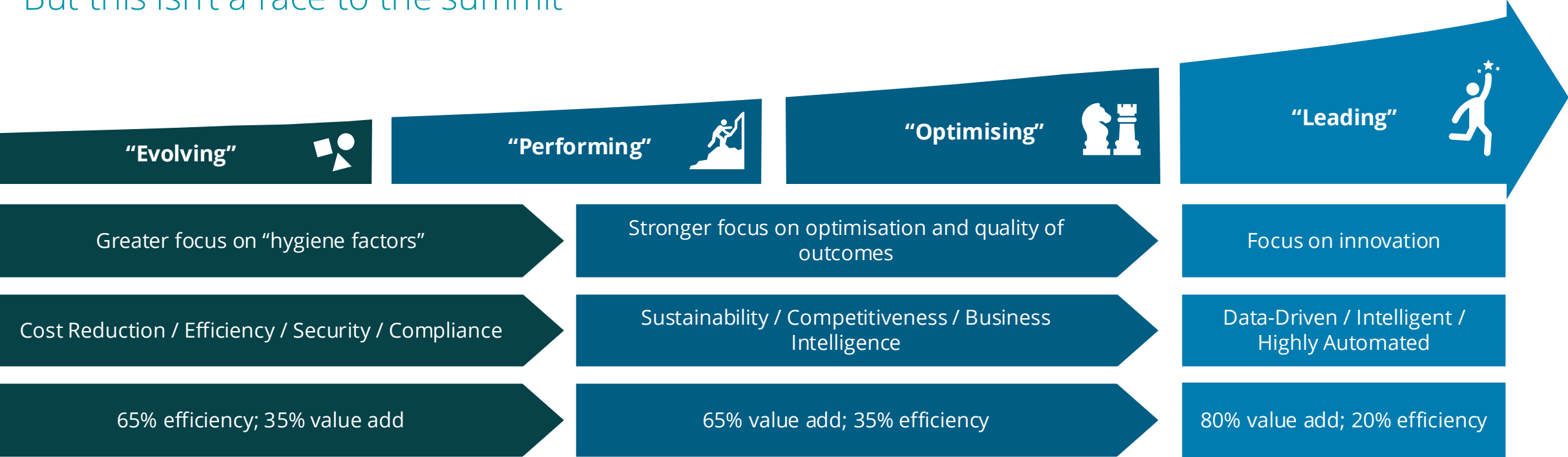
Business Value

Position IT as a source of business intelligence supporting better decision making



Digital maturity matters

But this isn't a race to the summit



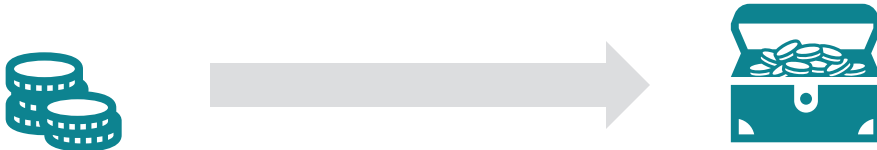
Budget isn't everything

Vision and strategy are equally important

Spend varies by FS sector

UK banks spend ~5% of their revenues on IT...

- ▲ ...**capital markets** firms spend more
- ▼ ...**real estate developers** spend less
- ▶ ...**IMs** and **insurers** spend about the same



But outcomes are driven by other factors too

- Efficiency
- Compliance
- Security
- Effectiveness
- Sustainability
- Customer Experience
- Business Intelligence
- Organisational Value

Focus matters

Limited budgets don't have to constrain outcomes if backed by a clear vision and a winning strategy

A recipe for success

Delivering with the right balance of resources, operations and talent

Operating Model

How is the IT team set up?

- **Purpose** – does IT support wider organisational strategy?
- **Cost** – are IT costs managed in a way that delivers business impact?
- **Alignment** – are IT services aligned to wider business goals?
- **Methodologies** – are delivery methodologies used routinely?

Budget Allocation

How are IT resources allocated?

- **OpEx/Capex** – how much is allocated to innovation and efficiency vs. maintenance?
- **Tactical vs. Strategic** – do you favour point solutions over integrated solutions?
- **Spending Priorities** – are you running projects in areas like data, analytics and AI?

Talent Utilisation

Where is the IT team focused?



Run

...stability
...efficiency



Grow

...enhancement
...optimisation



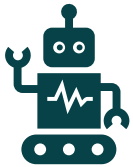
Change

...innovation
...transformation

The AI (r)evolution

The “oldest new technology” promises much

Legacy AI Programmes



Automation



Pattern matching



Fraud detection

Generative AI



Customer chatbots



Efficient coding



Content generation

Agentic AI



Structured tasks



Accelerate processes

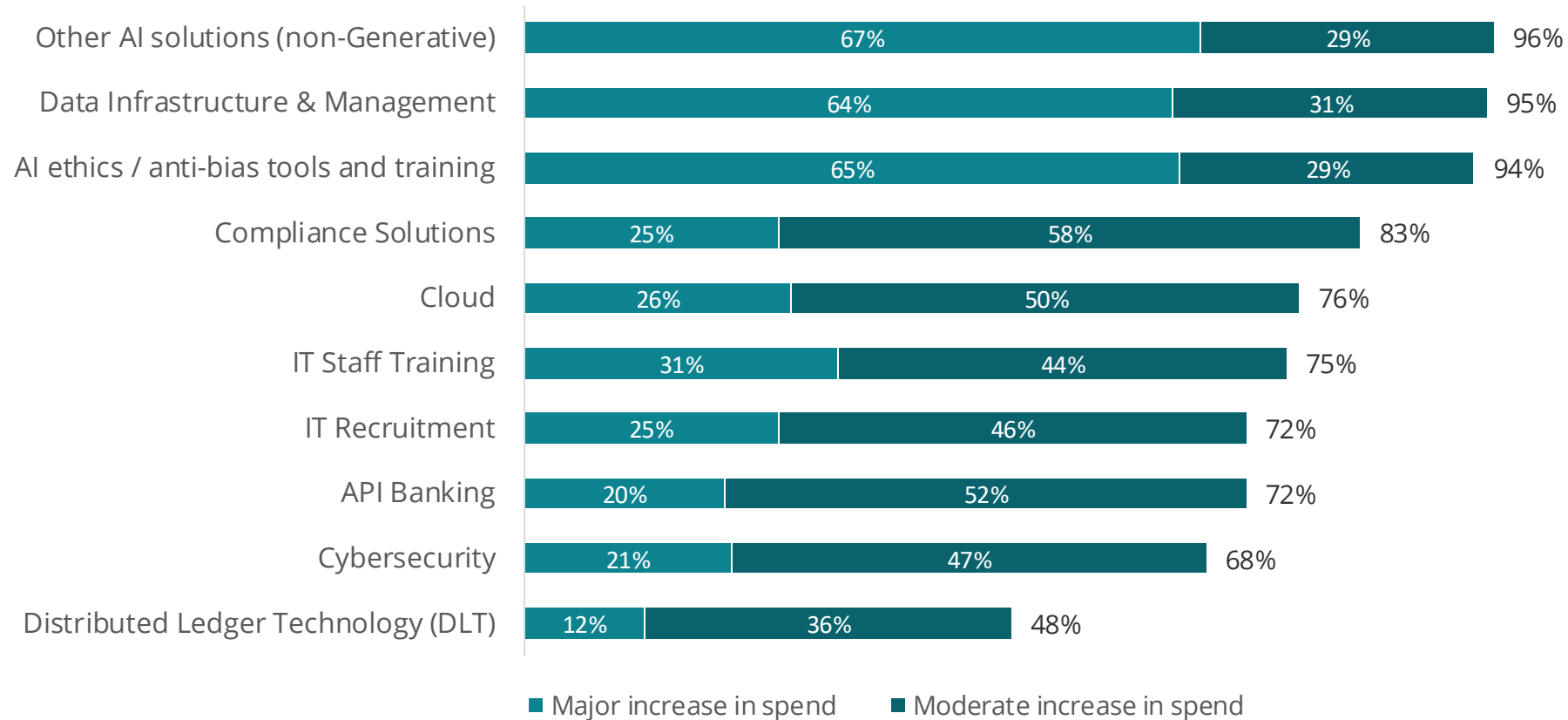


Transform CX

The AI (r)evolution

Making Gen-AI performant is taking considerable investment

Q. To what extent might your future investments in Gen-AI influence your investments in other areas of technology?

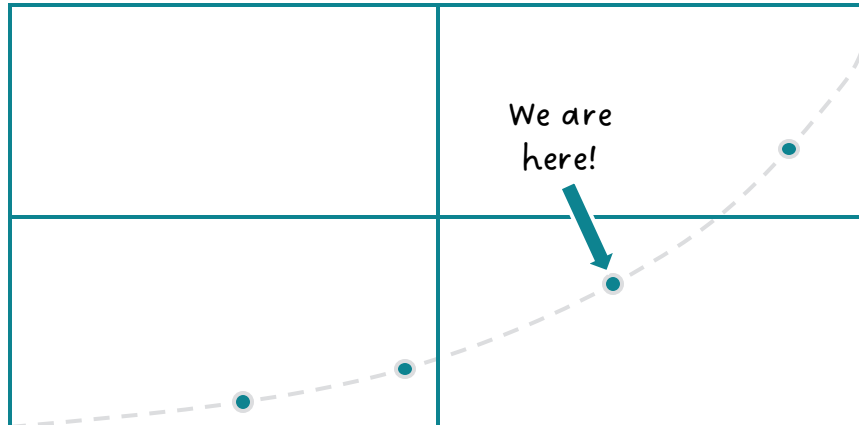


Source: Deloitte UK Banking & Cap Markets Technology Survey, May 2024

Key takeaways

Delivering with the right balance of resources, operations and talent

Plan for what you know...



Understand that a maturity curve exists and deliberately target the spot along it that best suits your firm...

And as part of that planning, consider your AI strategy, ensuring you have the right supporting infrastructure to deliver your vision...

...that means driving alignment between IT, culture and wider business objectives to ensure you achieve your targeted outcomes.



...and for what you don't

And, with **black swan events** now seemingly much more common, it is essential for technology leaders to keep a close watch on resilience...



What are the technology impacts of global economic and geopolitical uncertainty?



Are you better able now to support the business in the event of another global pandemic?



Do you have a plan in place to recover from a catastrophic, country-wide loss of power?

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Generative AI (“GenAI”)

Practical insights for insurance and reinsurance

GenAI Powered Transformation Enables Organisations to Target Three Key Value Plays For Create Competitive Advantages



EFFICIENCY PLAY

Improve operational performance through improved productivity by doing more with less

- ✓ Automate processes
- ✓ Optimize costs
- ✓ Drive consistency
- ✓ Reduce FTEs
- ✓ Remove waste
- ✓ Improve speed

Profitability and Margin Improvement
Cost : Income Ratio

Stakeholder Value
EPS, EBITDA and Revenue

Product & Portfolio Performance
Profitability, P&Ls, Margins



EXPERIENCE PLAY

Provide fit-for-purpose and customized experiences to customers , partners and employees

- ✓ Personalize content
- ✓ Differentiate services
- ✓ Enhance Quality and Outcomes
- ✓ Amplify creativity
- ✓ Knowledge Shift

Engagement Centricity
Customer Journey Engagement

Outcomes & Indicators, Adherence
Banking Reported Outcomes, Adherence

New Digital Products & Services
New integrated offerings



CAPABILITY PLAY

Develop and enhance enterprise digital and data capabilities that are enabled by GenAI

- ✓ Generate new insights
- ✓ Extend Asset Utility
- ✓ Expand Workflow skills
- ✓ Improve decisioning
- ✓ Improve adaptability

Future Proof Technologies
Pivotal, Fit-for-Purpose Architectures

Business Model Agility
Time to Market

Workforce & Workplace of the Future
Virtual, Automated, Augmented Workforce

Generative AI Use Cases Themes in Insurance and Reinsurance



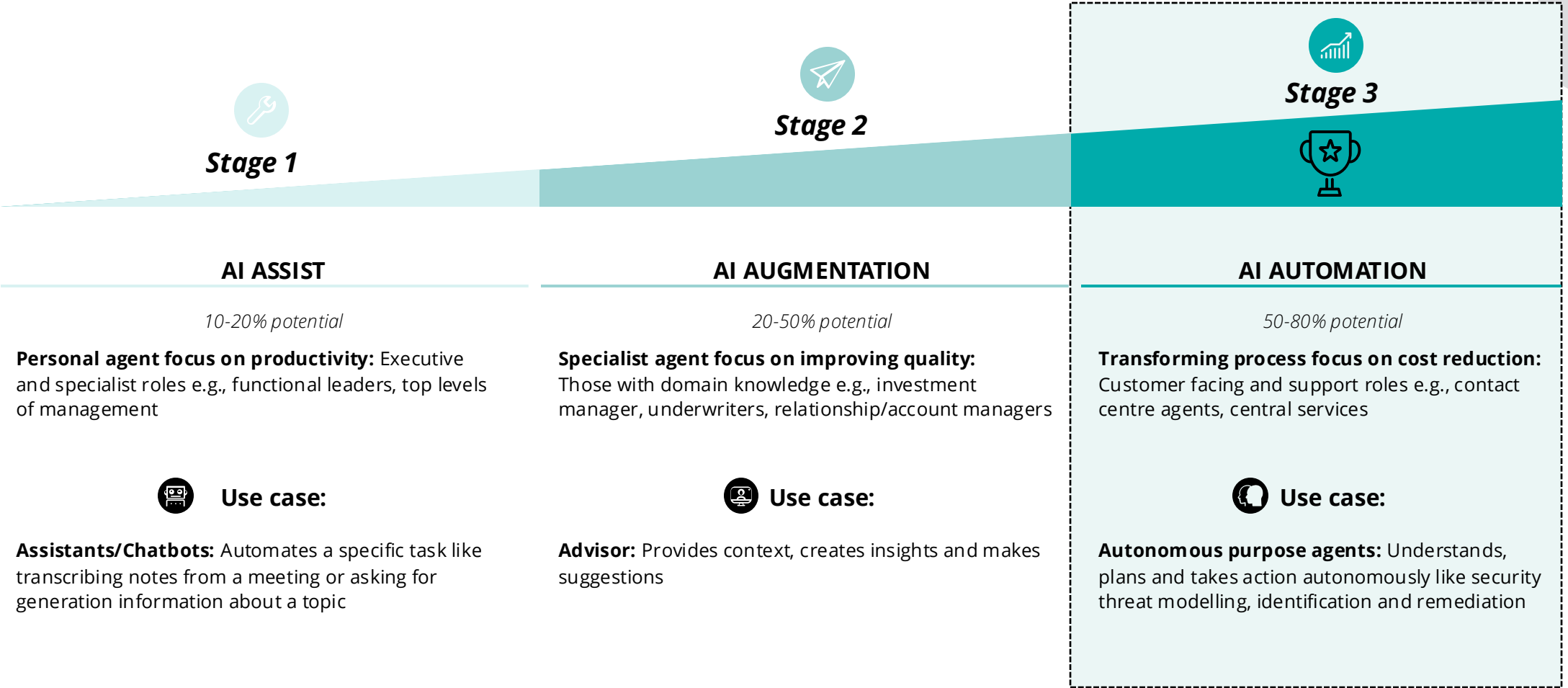


By 2028, machine customers will outnumber humans by **1.8 times** and make trillions of dollars in purchases. Digital commerce should upgrade their commerce technologies and processes, and operationalize new capabilities to capture the **machine customer opportunities.**

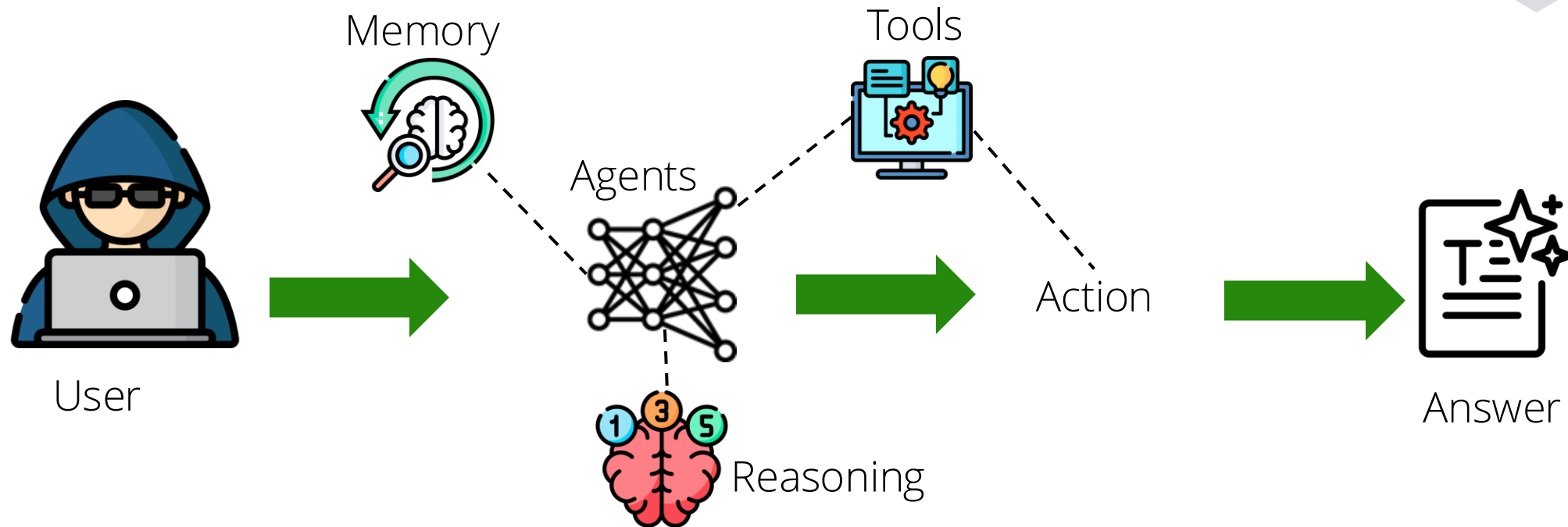
Gartner

AI solutions will rapidly evolve towards autonomous agents

AI's evolution will empower automated problem detection and resolution, enhancing efficiency and accuracy



What are AI Agents?



An Agent is a system that uses LLMs (or other models) to navigate through a problem by reasoning, leveraging external tools and drawing on past interactions to refine its approach, ultimately arriving at a solution.

Limitations and risks using GenAI along with Mitigation strategies

A famous statement is “LLMs are 90% correct and 100% confident” – and that’s a problem

Limitations of GenAI

- **Limited data availability** : Only includes information up to the training cut-off date, lacking up-to-date data.
- **Bias in Outputs** :: Inherits biases from Training data, causing unfair or inappropriate results.
- **Context Awareness**: Gen AI may misinterpret nuanced instructions and struggle with complex contexts.
- **Token Limits**: Early LLM models are restricted in context window size - leading to incomplete responses and reduced context understanding.
- **Hallucinations**: May generate incorrect information as it has no fact checking mechanism.

Risks of GenAI

- **Security Risk** : Financial data's sensitivity makes GenAI systems prime targets for cyberattacks.
- **Privacy Concern**: GenAI models' need for large datasets, including personal information, necessitates strict privacy regulation compliance to avoid legal and reputational risks.
- **Operational Risk** Implementing and maintaining GenAI systems can introduce operational risks, such as system failures or integration issues can disrupt operations and cause financial losses.
- **Ethical and Social Risk** : The deployment of GenAI can raise concerns like job displacement and societal impacts, necessitating responsible use.

Mitigation Strategies of GenAI

- **Data Quality and Governance** : Ensure robust data management, including data cleaning, validation, and governance frameworks.
- **Bias Mitigation** : detect and mitigate biases in training data and model outputs
- **Regulatory Compliance**: Stay updated on regulations and ensure GenAI applications comply with legal and regulatory standards.
- **Security and Privacy Measures** : Adopt strong security protocols and ensure compliance with privacy regulations to protect sensitive data.
- **Ethical Guidelines** : Follow ethical guidelines considering societal impact.
- **Risk Management Framework** : Establish a framework to manage GenAI risks.

Governance

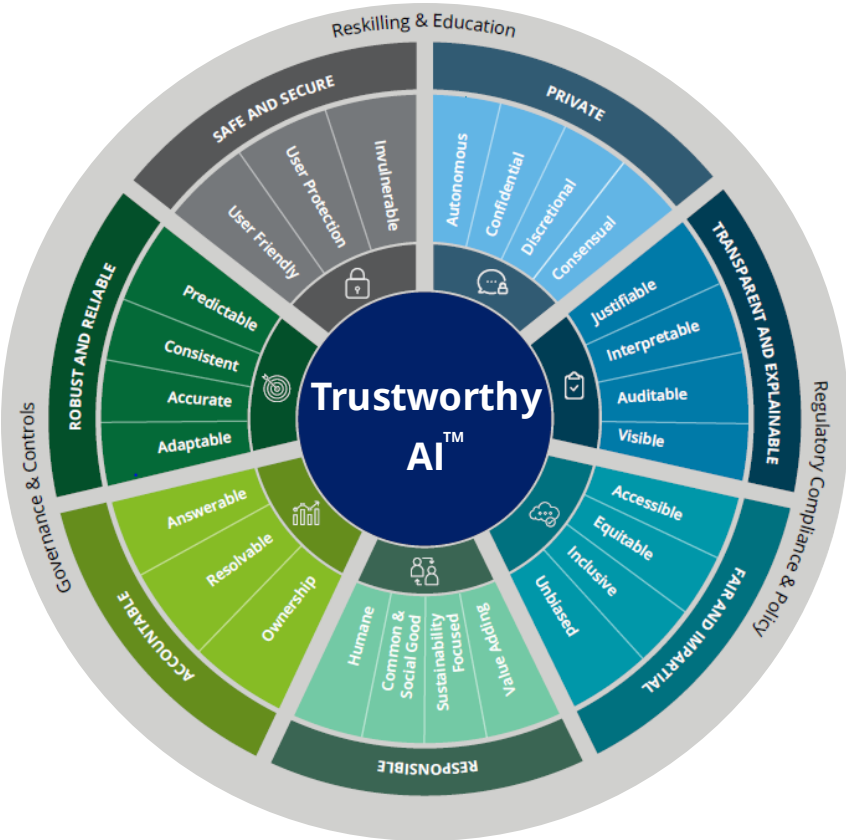
Comprehensive AI risk management principles serve as the cornerstone of a sound AI practices. Deloitte’s Trustworthy AI framework provides the backdrop for responsible AI-use.

Safe / Secure
AI systems can be protected from risks (including Cyber) that may cause physical and/or digital harm

Robust / Reliable
AI systems have the ability to learn from humans and other systems and produce consistent and reliable outputs

Accountable
Policies are in place to determine who is responsible for the decisions made or derived with the use of technology.

Responsible
The technology is created and operated in a socially responsible manner



Private
Consumer privacy is respected and customer data is not used beyond its intended and stated use; consumers are able to opt in / out of sharing their data

Transparent / Explainable
Participants are able to understand how their data is being used and how AI systems make decisions; algorithms, attributes, and correlations are open to inspection

Fair / Impartial
AI applications include internal and external checks to help ensure equitable application across participants

From our experience, several key factors contribute to successful Generative AI adoption

Establish a Purposeful Evaluation Approach to Use Cases

Ensure that functions approach GenAI with discipline and pursue use cases that provide value and are tied to key business objectives

Build On Existing Enterprise AI Investments

New GenAI technologies and structures should be setup to complement existing AI talent, capabilities, and tools

Make Risk, Privacy, & Ethics Front & Center

Ensure proper and compliant use of GenAI within the organisation to ensure risk and compliance protocols are followed

Achieve Quick Wins With Text Oriented Efficiency Plays

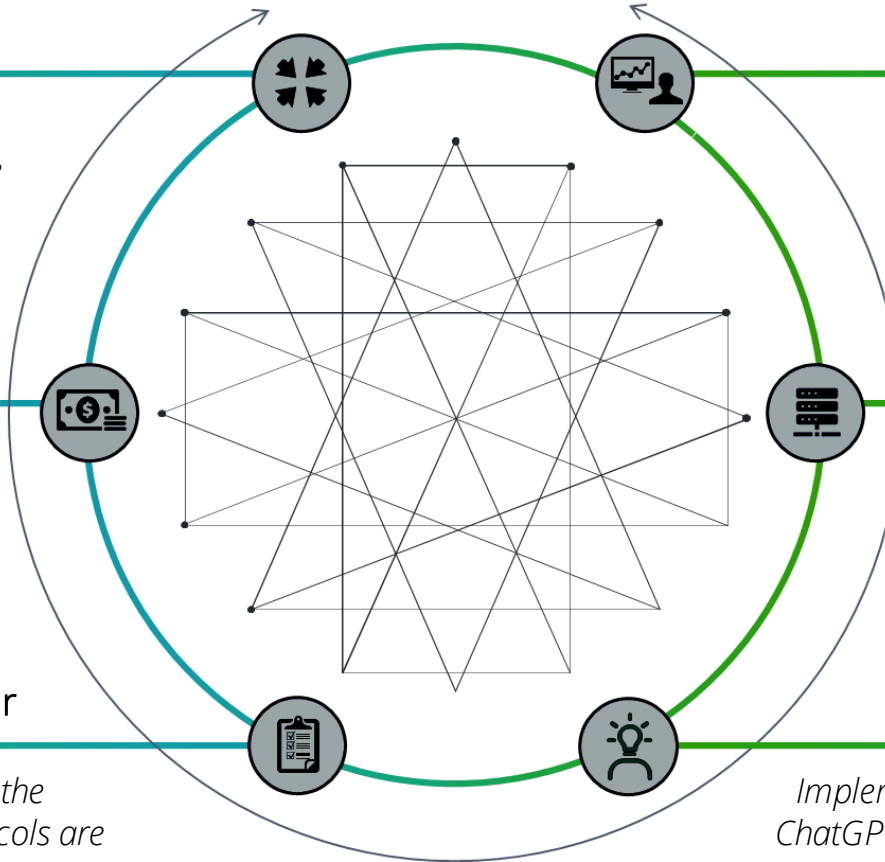
GenAI initiatives that focus on text summarisation of structured data provide fast and impactful wins

Internalise GenAI before Externalising

Master the use of GenAI within internal operations before exposing outputs to external customers and partners

Amplify Value Through Productivity Plays

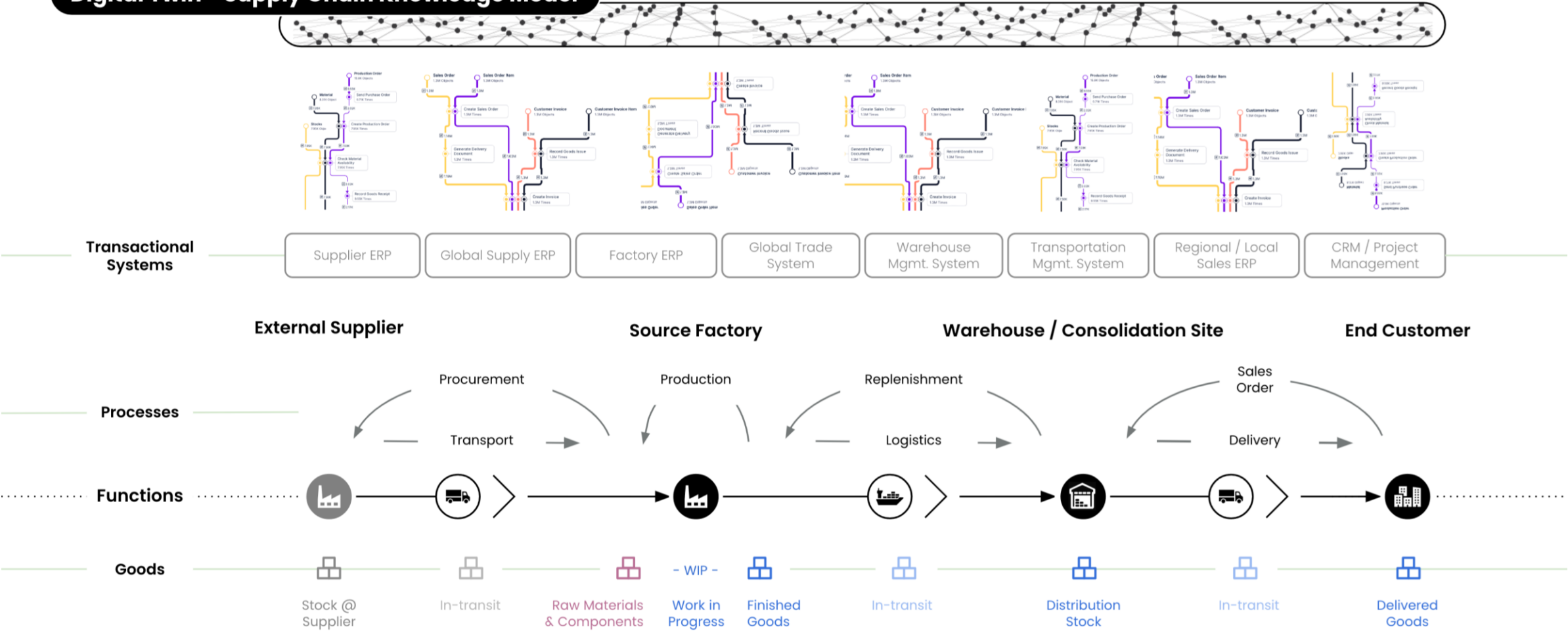
Implement private enterprise instances of GenAI tools like ChatGPT to deliver immediate value by boosting workforce productivity



AI needs business data that is coming through various systems

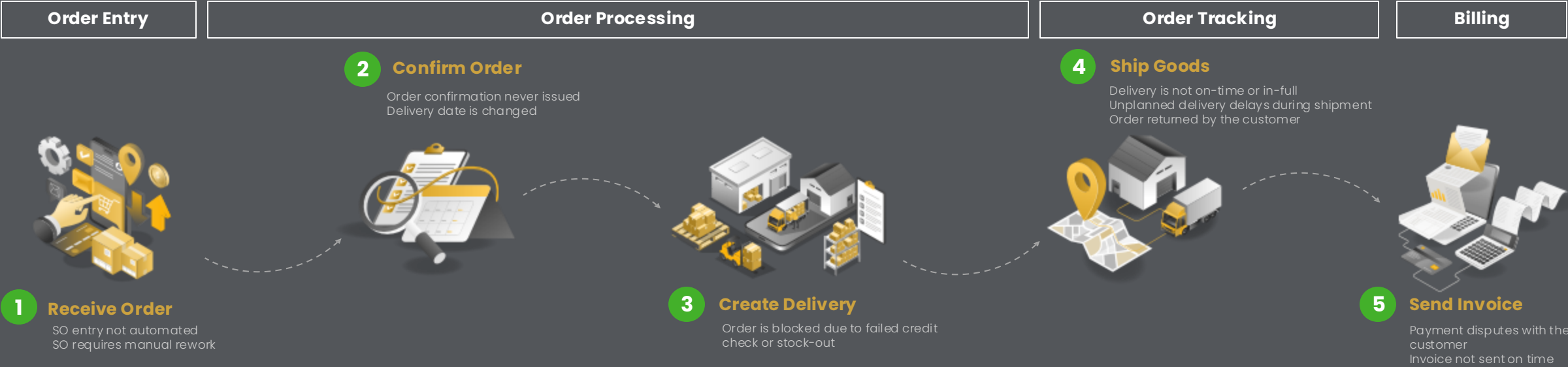
The process intelligence layer will be key to give AI the context it needs

Digital Twin – Supply Chain Knowledge Model



Target Process: Order Management

View on key improvement opportunities and execution gaps



A selection of opportunities with process mining

Business Objectives	Labor Productivity	Customer Satisfaction	Revenue Growth	Working Capital Optimization	Compliance & Sustainability
Improvement Opportunities	Order Changes Automation Credit Blocks Order Bundling Delivery Blocks	Late Deliveries Delivery Date Confirmations Incomplete Deliveries	Rejections Returns Discounting Cancellations Unbilled Orders	Late Deliveries Late Billing Payment Term Mismatches Late Delivery Creations	Seg. of Duties Expiring Contracts Fraud Detection Internal Controls Route Optimization Rush Orders

Target Process: Procurement

View on key improvement opportunities and execution gaps



A selection of opportunities with process mining

Business Objectives	Labor Productivity	Supplier Reliability	Spend Reduction	Working Capital Optimization	Compliance & Sustainability
Improvement Opportunities	Free-Text Requisitions Manual Rework Automation	Late Deliveries Lead Time Accuracy Returns Delivery Date Changes Damaged Goods	Contract Leakage Unfavorable Prices Supplier Consolidation Purchasing Aggregation	Early Deliveries Preferred Term Usage	Retrospective POs Sustainability Rating Coverage Air Freight Order Bundling Seg. of Duties

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