



ADOIT
by boc-group.com



EA Fellows

Red Pill, Blue Pill, or Blueprint: Enterprise Architecture in an AI-First World

**Global Business
Impact Series**

Webinar

Welcome!



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2040?

Imagine a world where strategy, technology, and business merge into one elegant ecosystem. A world where your enterprise architecture is not just a pile of outdated drawings of data flows and processes as they looked 10 years ago, but a dynamic, intelligent platform for rapid decision-making and scalable innovation.

AI-First



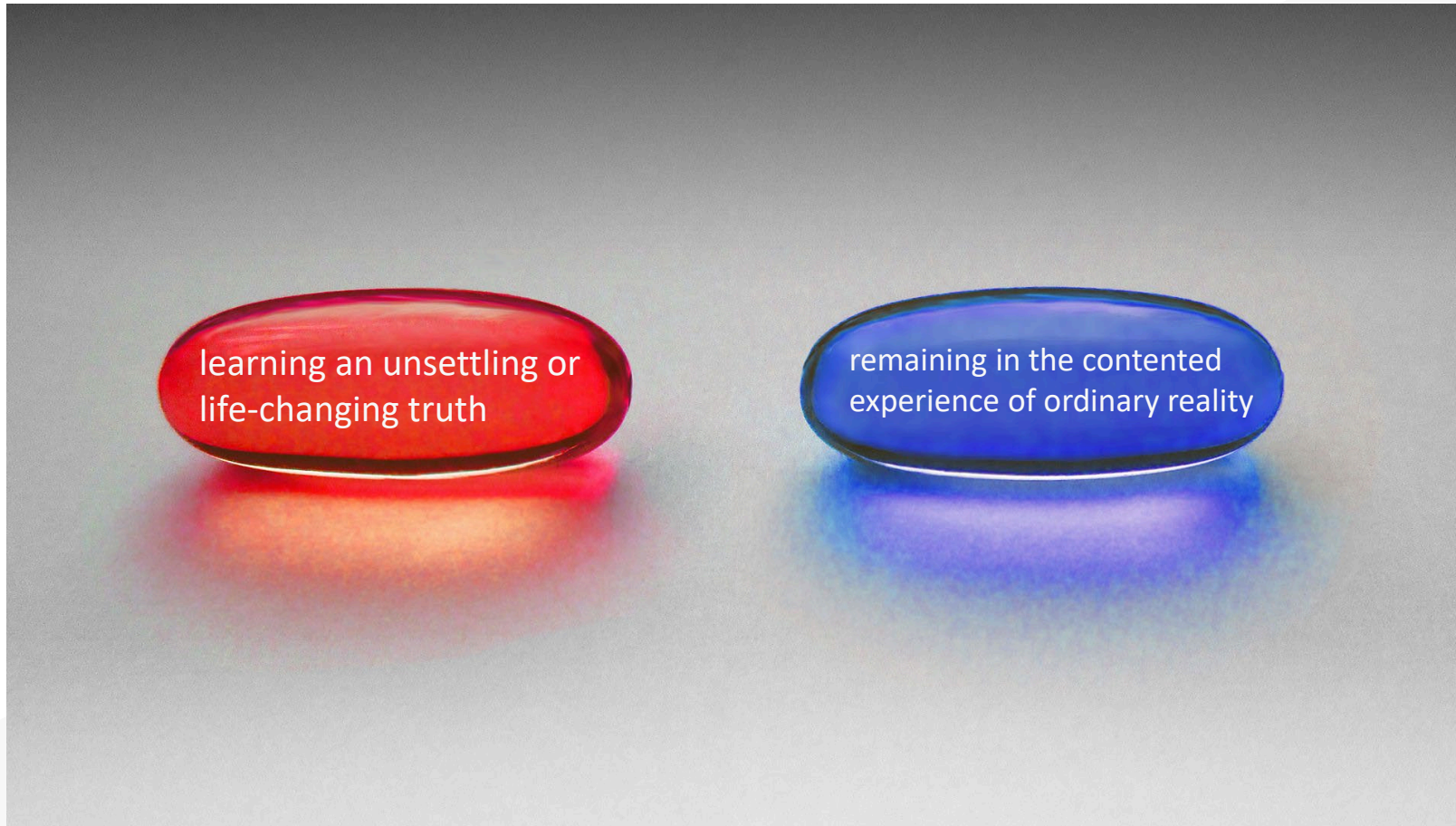
AI-First Enterprises

Exploring the next generation enterprise with innovative capabilities and practices for the intelligent age

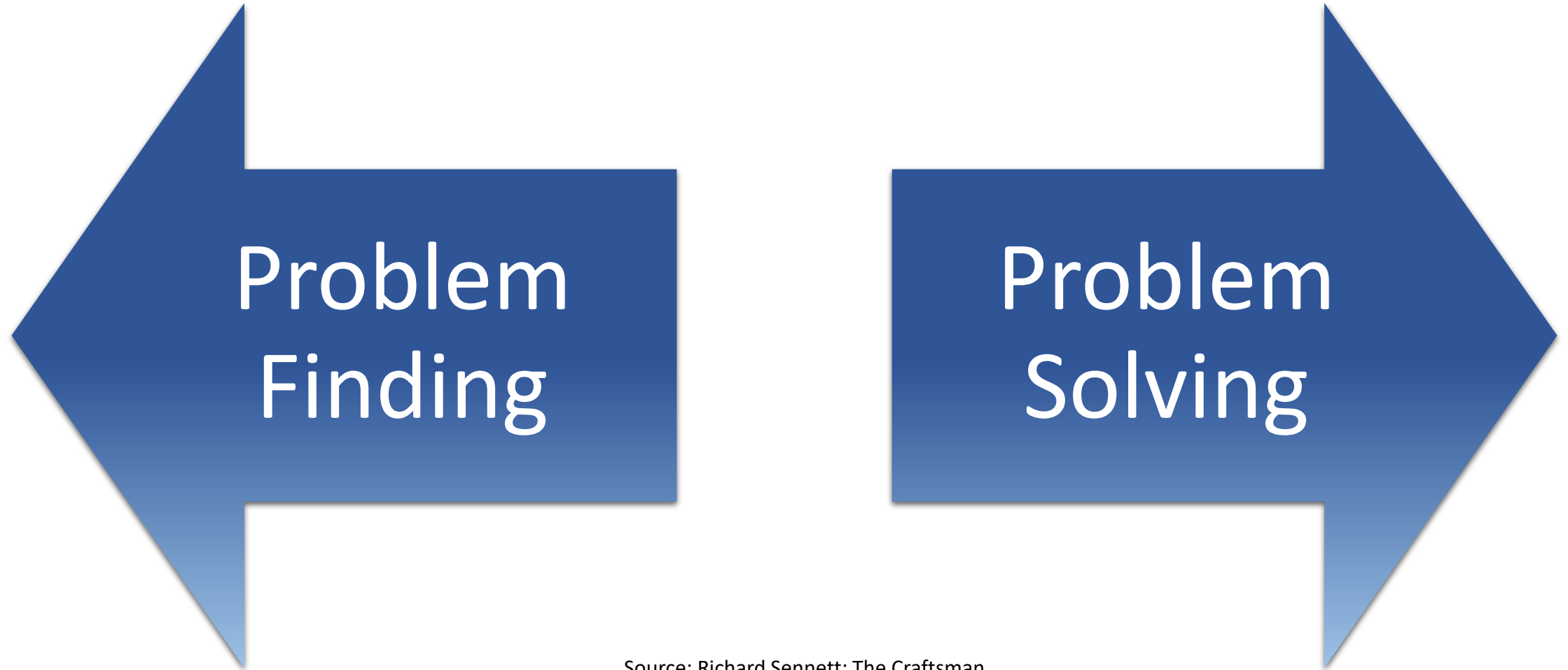
**Harnessing intelligence to
redefine industries, skills,
and growth**

From breakthrough innovations to evolving ecosystems, this workstream spotlight how intelligence is accelerating value and transforming the global economy. By convening leading enterprises and experts, we surface best practices and transformative insights that guide adoption. This collaborative approach ensures AI-first models drive not only competitiveness and growth, but also responsible, sustainable impact.

Is AI the red pill or the blue pill?

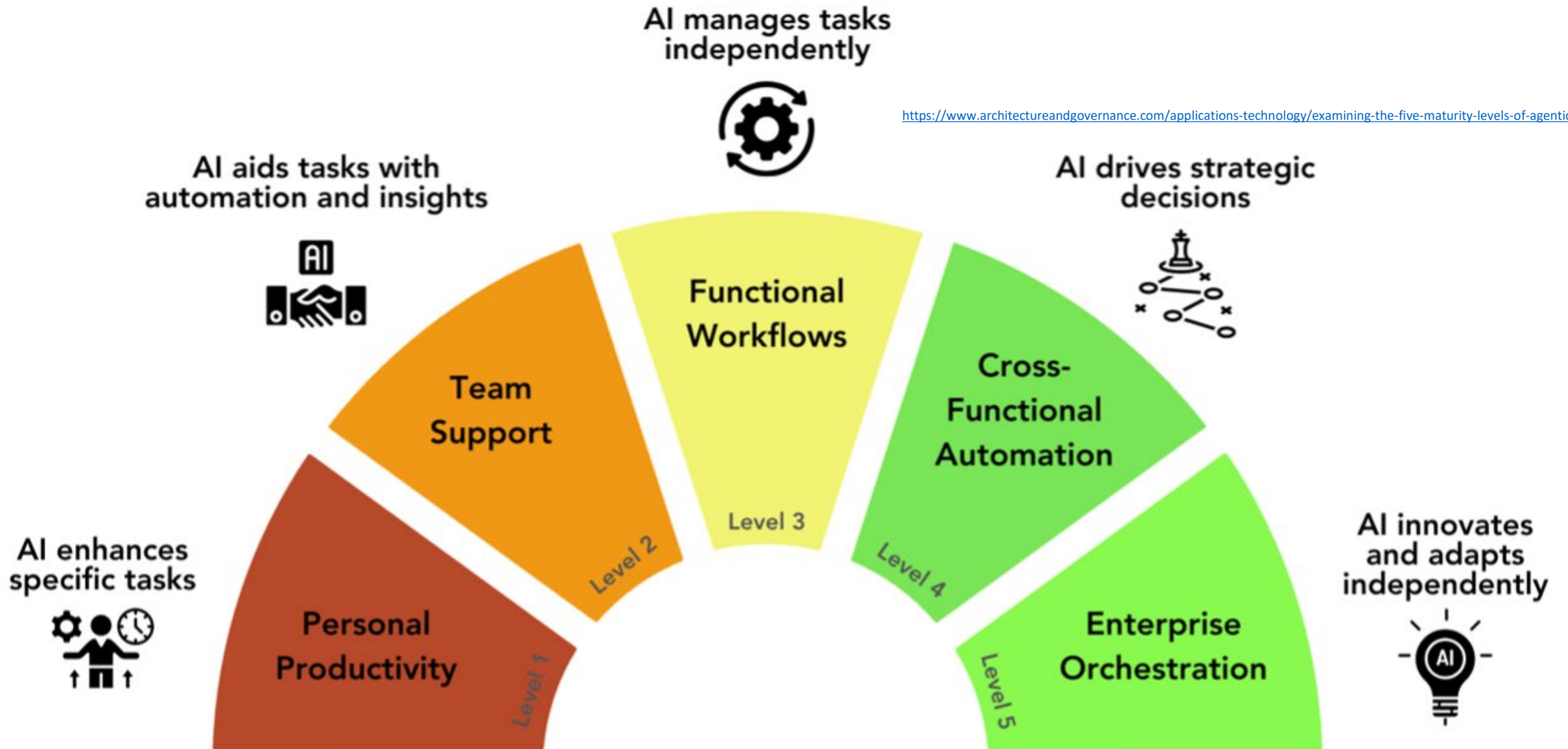


EA-enabled AI or AI-enabled EA Identity?



Source: Richard Sennett: The Craftsman

Jesper Lowgren: Agentic AI Maturity Levels



Level 1: AI as a Tool

At this foundational level, AI is deterministic and task-based, performing well-defined functions such as automation, data analysis, and basic chatbots.

Enterprise Architecture Focus:

AI at this level exists in isolated, function-specific silos, requiring minimal structural adjustments.

- Focus is on achieving compatibility with existing technology stacks rather than driving transformational change.
- Data governance remains centralized, and business architecture continues to rely on linear, human-driven workflows.

Level 2: AI as an Assistant

AI enhances human decision-making, offering intelligent recommendations in areas like financial forecasting, risk assessment, and supply chain optimization.

Enterprise Architecture Focus:

To advance to this level, enterprises must transition toward a more integrated technology architecture.

- Data-sharing capabilities need to extend across functions, requiring interoperable APIs, federated data governance, and enhanced cross-departmental collaboration.
- Business processes shift from rigid, rule-based models to flexible, insight-driven operations that leverage AI to drive efficiency and effectiveness.”

Level 3: AI as an Operator

AI begins to execute business operations independently, orchestrating workflows, optimizing supply chains, and managing dynamic pricing.

Enterprise Architecture Focus:

EA at this stage must evolve to support real-time data flows and scalable governance frameworks.

- Unified data architectures become critical, allowing AI to access and act upon high-quality, real-time data across the enterprise.
- Cloud-native solutions, containerization, and microservices architectures become essential to ensure agility and scalability.
- Governance structures must be updated to incorporate ethical AI guidelines, compliance measures, and bias mitigation strategies.

Level 4: AI as an Actor

At this stage, AI actively shapes business outcomes and collaborates strategically with humans, rather than just executing predefined operations.

Enterprise Architecture Focus:

The evolution to this level requires a paradigm shift in enterprise architecture.

- Agile, event-driven architectures become the norm, enabling organizations to respond dynamically to market conditions.
- AI governance moves from static rules to adaptive frameworks, ensuring AI operates ethically and transparently.
- Organizational structures shift toward AI-human hybrid models.

Level 5: AI as an Autonomous Force

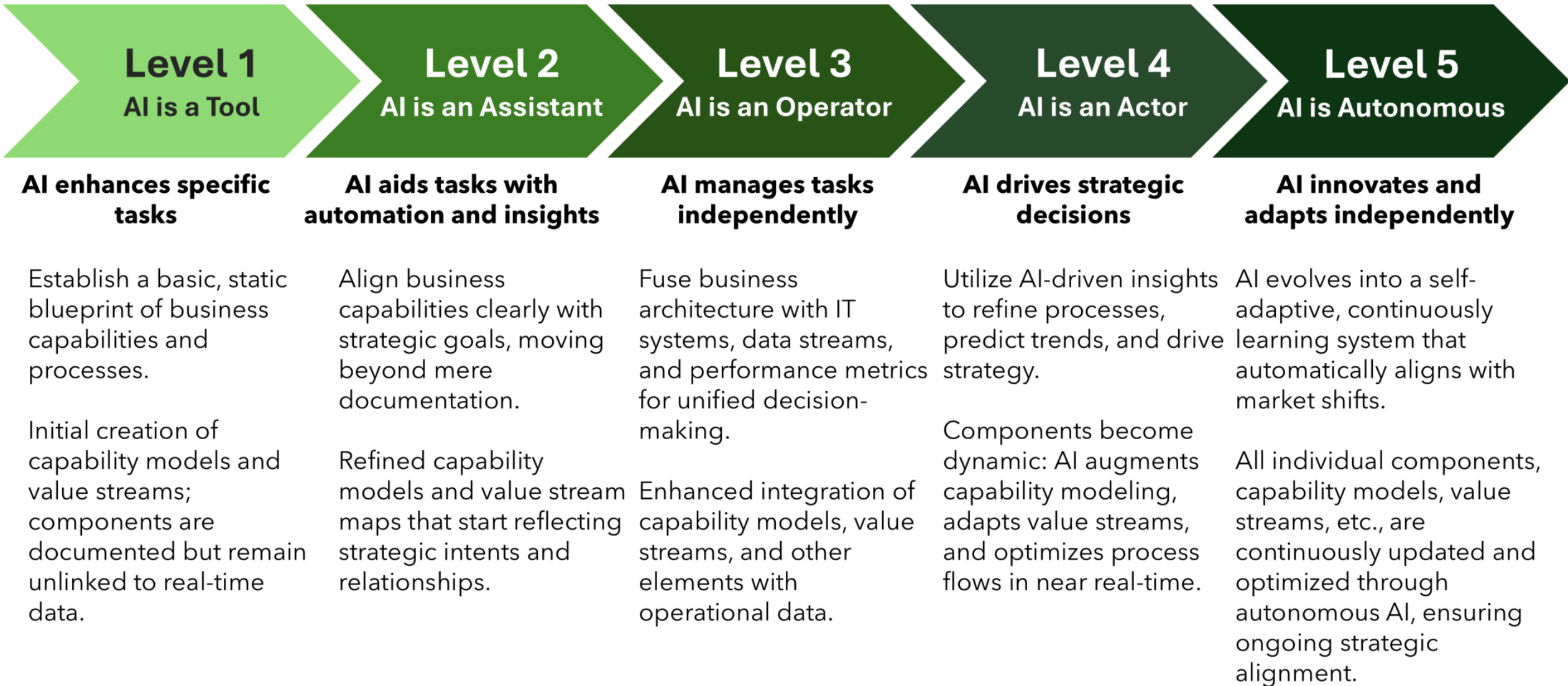
AI operates with near-complete autonomy, driving real-time business strategy and innovation at scale.

Enterprise Architecture Focus:

Enterprise architecture in this paradigm must be fully dynamic, ecosystem-centric, and modular.

- AI-first architectures emphasize decentralized decision-making, distributed AI governance, and cross-organization AI Agent transactions.
- Technology platforms transition to real-time, serverless computing models, leveraging edge AI and quantum computing for ultra-fast processing.

Business Architecture



Data Architecture



Level 1

AI is a Tool

AI enhances specific tasks

Data is siloed, structured around individual applications, and managed with basic governance.

Data is fragmented, with inconsistent models and limited ability to share insights across the organization.

Level 2

AI is an Assistant

AI aids tasks with automation and insights

Data is structured with standardized models and governance frameworks, enabling consistency across business functions.

Standardized data models and improved governance increase data consistency and accessibility.

Level 3

AI is an Operator

AI manages tasks independently

Data is integrated across the enterprise with real-time access, leveraging cloud, APIs, and data lakes.

Enterprise-wide data integration supports real-time analytics, breaking down silos and improving decision-making.

Level 4

AI is an Actor

AI drives strategic decisions

AI-driven data management enables automated data quality, governance, and real-time analytics for decision-making.

AI automates data classification, governance, and insights, reducing manual intervention and improving accuracy.

Level 5

AI is Autonomous

AI innovates and adapts independently

Self-optimizing, AI-driven data ecosystems that autonomously manage data ingestion, transformation, and governance with minimal human intervention.

Data architecture is fully adaptive, enabling real-time, AI-driven decision-making and automated compliance management.

Application Architecture

Level 1

AI is a Tool

AI enhances specific tasks

Applications are siloed, monolithic, and managed independently with minimal interoperability.

Rigid application structures with limited scalability and interoperability; basic software development practices.

Level 2

AI is an Assistant

AI aids tasks with automation and insights

Applications are modularized, with basic service orientation and standardized interfaces.

Introduction of modular architectures; better alignment with business needs through structured service layers.

Level 3

AI is an Operator

AI manages tasks independently

Applications are integrated across the enterprise, leveraging APIs and microservices for better interoperability.

API-driven and event-driven architectures enable seamless connectivity between applications and data systems.

Level 4

AI is an Actor

AI drives strategic decisions

AI-driven applications dynamically optimize performance, scale autonomously, and enhance user experience through predictive analytics.

AI-powered applications automate decision-making, optimize workflows, and enhance predictive capabilities.

Level 5

AI is Autonomous

AI innovates and adapts independently

Fully autonomous, self-healing applications that evolve based on contextual data and operate with minimal human intervention.

Self-adaptive applications that autonomously modify their structure, optimize resource allocation, and integrate seamlessly into AI-driven ecosystems.

Technology Architecture



Level 1

AI is a Tool

AI enhances specific tasks

Technology infrastructure is fragmented, manually managed, and lacks scalability.

Legacy systems dominate, with high maintenance costs and limited interoperability.

Level 2

AI is an Assistant

AI aids tasks with automation and insights

Standardized technology stacks and frameworks are introduced to improve manageability and efficiency.

Adoption of standardized platforms and automation tools streamlines infrastructure and reduces technical debt.

Level 3

AI is an Operator

AI manages tasks independently

Cloud, edge computing, and containerization enable scalable, resilient, and interoperable technology ecosystems.

Technology components are orchestrated through cloud-native architectures, microservices, and automated workflows.

Level 4

AI is an Actor

AI drives strategic decisions

AI-driven automation optimizes infrastructure management, security, and resource allocation in real-time.

AI enhances security, performance optimization, and self-healing capabilities, reducing downtime and manual intervention.

Level 5

AI is Autonomous

AI innovates and adapts independently

Fully autonomous, self-optimizing technology architecture dynamically adapts to operational demands with minimal human oversight.

Technology architecture autonomously adapts to business needs, optimizing workloads, security policies, and compute resources in real-time.

Key Benefits of AI for architecting transformation



Save Time



Personalised UX



Increase collaboration



Quality and Consistency



Technique Augmentation

- Automated architecture assessments
- Suggest design for low-risk problems
- Perform rote architecture actions
- Auto-analyze enterprise architecture graph
- Auto-update enterprise architecture graph

ADOIT Roadmap to AI-Powered Enterprise Transformation





AI-Based End-of-Life Lookup

The screenshot displays the ADOIT software interface. On the left, a vertical toolbar contains various icons for navigation and actions. The main workspace shows a diagram with a yellow box labeled 'Baggage information' at the top, connected by lines to four blue boxes below: 'PAX > L&F', 'PSS', 'PAX > AIS', and 'BSS > PAX'. The diagram is organized into three horizontal layers: 'Business Object', 'Application Interface', and 'Application Component'. On the right side, a sidebar contains a 'Lifecycle' section with various dropdown menus and date pickers. Overlaid on the interface is a dialog box titled 'End-of-Life Lookup'. The dialog displays the following information:

- End of Life:** 31.01.2031
- Source:** <https://www.oracle.com/a/ocom/docs/elsp-lifetime-069338.pdf>
- Disclaimer:** This data was generated by an AI language model. Use it with caution and verify also information from other sources.
- Message:** End-of-life information for 'Oracle Solaris 11' retrieved successfully. Click 'Apply' to transfer the value into the 'End of standard vendor support' attribute.
- Buttons:** 'Apply' and 'Close'

Below the dialog box, another smaller dialog box is visible, showing the 'End of standard vendor support' field populated with the date '31.01.2031'.



AI-Powered EA

ADOIT offers an AI-based query function that automatically identifies technologies with an approaching end-of-life.



Roadmapping | Intelligent Support

Application-based Roadmap: Passenger Processing

1 Select Application Elements | 2 Define Requirements | 3 Prioritise Requirements | 4 Plan Requirements | 5 Track Requirements

Boarding Application: Migrate, In production

Check-In Application: Invest, In production

Immigration & Customs Application: Tolerate, In production

PAX App: Invest, In production

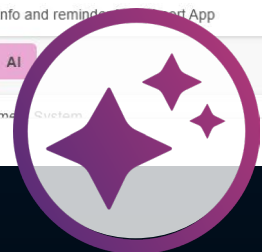
KI-Vorschläge durchsuchen für Check-In Applikation

106/400

83/400

87/400

⚠ Diese Liste wurde von einem KI-Sprachmodell generiert. Bitte verwende die Ergebnisse mit Vorsicht.



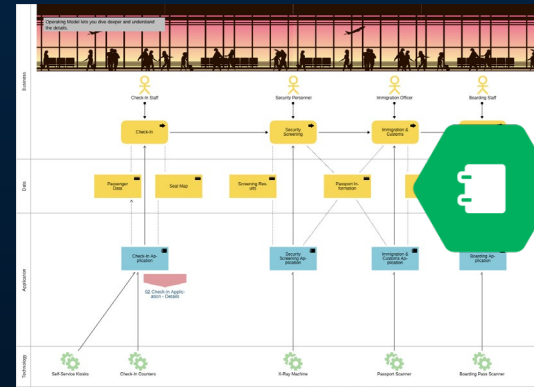
AI-Powered EA

ADOIT suggests relevant requirements for roadmaps based on architecture data, goals, and known gaps.



From Experts to Everyone: MCP in ADOIT

- ▶ Make your valuable **EA insights accessible to everyone** – not just architects
- ▶ Provide curated ADOIT repository content to your organization's LLM – by **connecting ADOIT as a data source**
- ▶ **Democratize EA knowledge** and reduce your organization's dependency on EA experts
- ▶ Transform EA data into **everyday business intelligence**



Jira



Confluence



MCP Connector



AI-Powered EA

Let your existing AI assistants include answers from your EA repository.



Making ADOIT Reports available for MCP

The screenshot displays the ADOIT search interface with the following components:

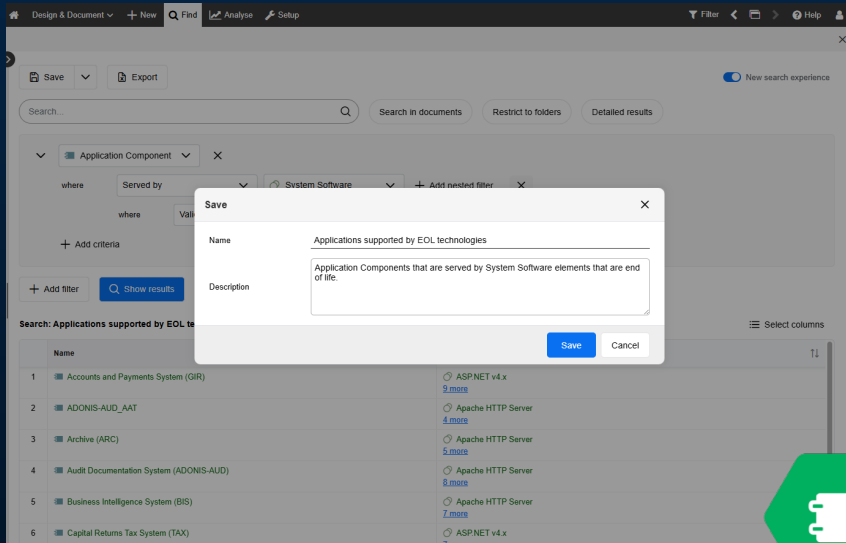
- Top Bar:** Save, Export, Create chart buttons.
- Search Bar:** Search ... (with "Search in documents" and "Restrict to folder" options).
- Filter Panel:**
 - Application Component (selected)
 - Where: Lifecycle state is In production
 - and: Responsible business actors is any of (ME, JD)
 - and: Served by System Software
 - Where: Valid until is Exact date
- Buttons:** + Add criteria, + Add filter, Show 40 results, Clear all.
- Calendar:** A calendar for May 2025 is open, showing the 14th as the selected date.
- Recent Searches:** A list of recent searches with counts and descriptions:
 - 5600: Device, Technology Interaction, Node
 - 50: Application Component, Application Interface, ...
 - 5600: Device, Technology Interaction, Node
 - 50: Application Component, Application Interface, ...

Use our new ADOIT search experience!



ADOITs MCP Server & interplay with saved queries

1. Save shared queries



2. Use your AI agent to ask anything

3. Retrieve suitable saved queries

4. Activate reports or ask anything

> [11:20:28] Show me reports about expiring technologies.

[11:20:34] Tool used: `_getRepositories`

[11:20:40] Tool used: `GetRepositoryLanguages`

[11:21:04] Tool used: `GetAllSavedQueries`

[11:21:19] I found saved reports related to expiring / end-of-life (EOL) technologies in the repository. Which one would you like me to open or execute?


- Applications supported by EOL technologies
 - Description: Application Components that are served by System Software elements that are end of life.
 - Owner: MCP MCP
 - Open in browser: <https://adoit-snapshot.test.boc-cloud.com/?sqid=af937ea1-660d-4ddf-9bac-f3c42c49c119&repid=c6a1352a-2575-4cad-872b-1e05f316504e&lang=en>
- End of Life Applications
 - Description: (no description provided)
 - Owner: Christoph Moser
 - Open in browser: <https://adoit-snapshot.test.boc-cloud.com/?sqid=71a79de0-0278-4b19-b65e-ea678a74d6e0&repid=c6a1352a-2575-4cad-872b-1e05f316504e&lang=en>


Would you like me to execute one of these saved queries now? If so, tell me which (1 or 2), or say "both" and I'll run them and return the results.

Type your message and press Enter... >



MCP-based conversation

 show me all reports you offer

 I can offer the following saved queries/reports from the PM repository (6 total):

1. 00_Forms_SaaS Standorte
 - Description: (no description)
 - Owner: Deckart Johannes (jdeckart)
 - Published: yes
2. Alle Applikationen
 - Description: (no description)
 - Owner: Deckart Johannes (jdeckart)
 - Published: yes
3. Expiring Technologies
 - Description: This search shows all System Software that will expire by the end of this year.
 - Owner: Arch Archi (arch)
 - Published: yes
4. Application Components with high Availability
 - Description: This search shows all Application Components that are required to be operating on high levels.
 - Owner: Arch Archi (arch)
 - Published: yes
5. Zu ersetzende Applikationen
 - Description: (no description)
 - Owner: Kleinsasser Alexander (akleinsa)
 - Published: yes
6. BA table
 - Description: (no description)
 - Owner: Paquette Vincent (vpaquett)
 - Published: yes

Which report would you like me to run (or export) now?

|type your message and press Enter...





Concepts | Conversation-Based Repository Access

Read & Explore Find Filter Help

04 Future state vision discussion - Passenger eExperience

AI Assistant

How can I help you with this architecture?

- What is this architecture about?
- What risks are related to this architecture?
- Assess the data quality of the elements in the architecture.

Show more suggestions...

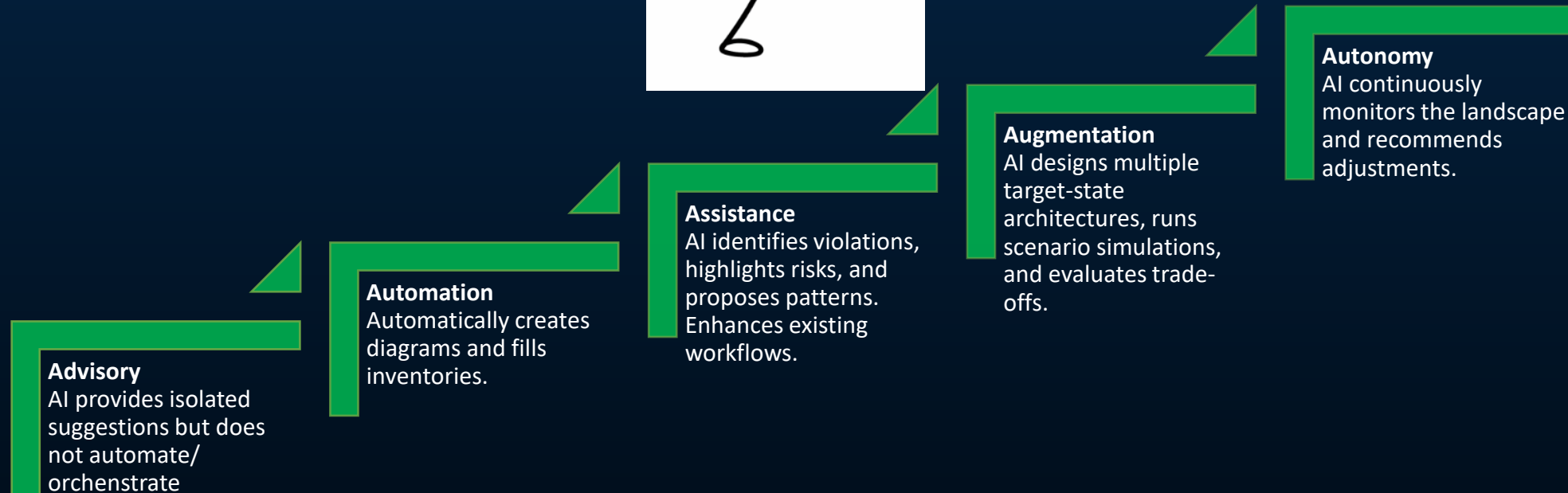
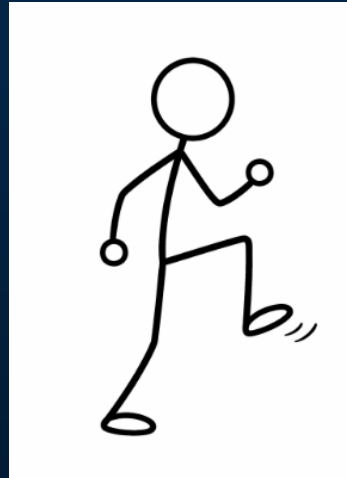
Ask anything about the architecture...

0/1000 characters

Please note that the result is generated by AI and must therefore be reviewed for accuracy and relevance.



Roadmap: From Advisory to Autonomy



Building Your AI Roadmap in 5 Steps (ADOit views)



Strategic importance

Assess business value of "Strategy Development"

1

Competitive Differentiation:

How important is a capability to your enterprise?
Can it be a source of sustained competitive advantage?

Select an option... ▼

2

Business Risk:

Regulatory or operational risk that could adversely affect the achievement of objectives.

Select an option... ▼

3

Financial Impact:

How much does this capability's existence affect revenue and/or operating expenses?

Select an option... ▼

4

Customer Value Proposition:

How does this capability contribute to enhancing the value proposition for your customers or clients?

Select an option... ▼



Capability map



<https://www.boc-group.com/en/blog/ea/capability-based-approach-for-ai-investement-prioritization/>

VRIO = value, rarity, imitability, and organization



Strategy Elements Filter Requirements...

- Environmental Sustainability Requirements: 1 / 1 **1**

 - AI-based monitoring and management of waste generation, power consumption, and emissions No entry - / -

Add Requirement
- Logistics and Distribution Requirements: 2 / 2 **1**

 - AI-based tools for tracking and monitoring product shipments No entry - / -
 - AI-powered route optimization for deliveries No entry - / -

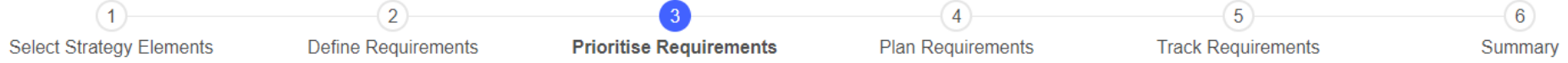
Add Requirement
- Market and Competitive Analysis Requirements: 2 / 2 **1**

 - AI-driven sales forecasting for revenue management No entry - / -
 - AI-powered trend spotting in market conditions No entry - / -

Add Requirement
- Pricing and Revenue Management Requirements: 1 / 2 **1**

 - AI-based dynamic pricing strategies No entry Q3/2024

Add Requirement

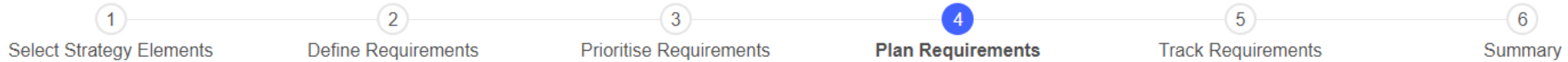


Strategy Elements Filter Requirements...

Place the requirements in the matrix via drag & drop

- AI assisted new flavor or... No entry Q2/2024
- AI-based dynamic prici... No entry Q3/2024
- AI-based early detection... No entry Q1/2025
- AI-based forecasting fo... No entry Q4/2024
- AI-based monitoring and management ... No entry - / -
- AI-based optimization of... No entry - / -
- AI-based tools for tracking and... No entry - / -
- AI-driven analysis of... No entry Q1/2025
- AI-driven automation for inventory... No entry - / -
- AI-driven campaign optimization No entry - / -
- AI-driven chatbots for 24/7 customer... No entry - / -

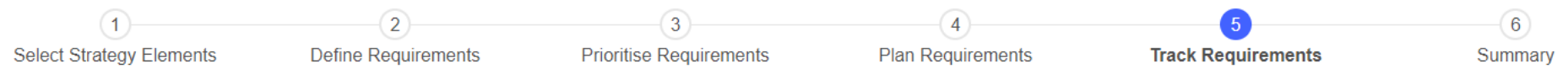




Strategy Elements Filter Requirements...

- AI-based monitoring and management of waste... Value: -- Effort: --
- AI-based optimization of production schedules Value: 61 Effort: 72
- AI-based tools for tracking and monitoring product shipments Value: -- Effort: --
- AI-driven automation for inventory management Value: -- Effort: --
- AI-driven campaign optimization Value: -- Effort: --
- AI-driven chatbots for 24/7 customer support Value: -- Effort: --

+	Q1/2024 0	Q2/2024 1	Q3/2024 1	Q4/2024 1	Q1/2025 2	+
	Drag & drop Requirements	AI assisted new flavor or ingredient assessment Value: 13 Effort: 27	AI-based dynamic pricing strategies Value: 16 Effort: 64	AI-based forecasting for demand planning Value: 26 Effort: 86	AI-based early detection system for quality issues Value: 41 Effort: 40	
					AI-driven analysis of monitoring data for process... Value: 75 Effort: 21	



Strategy Elements Filter Requirements...

Drag & drop Requirements to a status

- AI-based tools for tracking and monitoring product shipments
- AI-driven automation for inventory management
- AI-driven campaign optimization
- AI-driven chatbots for 24/7 customer support
- AI-driven prediction of production needs
- AI-driven sales forecasting for revenue management

Not started 5	On-track 1	Caution 1	Off-track 0	Completed 0
<ul style="list-style-type: none"> AI assisted new flavor or ingredient assessment AI-based dynamic pricing strategies AI-based early detection system for quality issues AI-based forecasting for demand planning AI-based optimization of production schedules 	<ul style="list-style-type: none"> AI-based monitoring and management of waste... 	<ul style="list-style-type: none"> AI-driven analysis of monitoring data for process... 	<p>Drag & drop Requirements</p>	<p>Drag & drop Requirements</p>

← Back

Next →

THE SYMBIOTIC ENTERPRISE

AI STRATEGY FRAMEWORK

- where to win with AI?
- what will not change?
- how to prepare for the unknown?
- why faster pivots are needed
- beyond **one-time** transformation

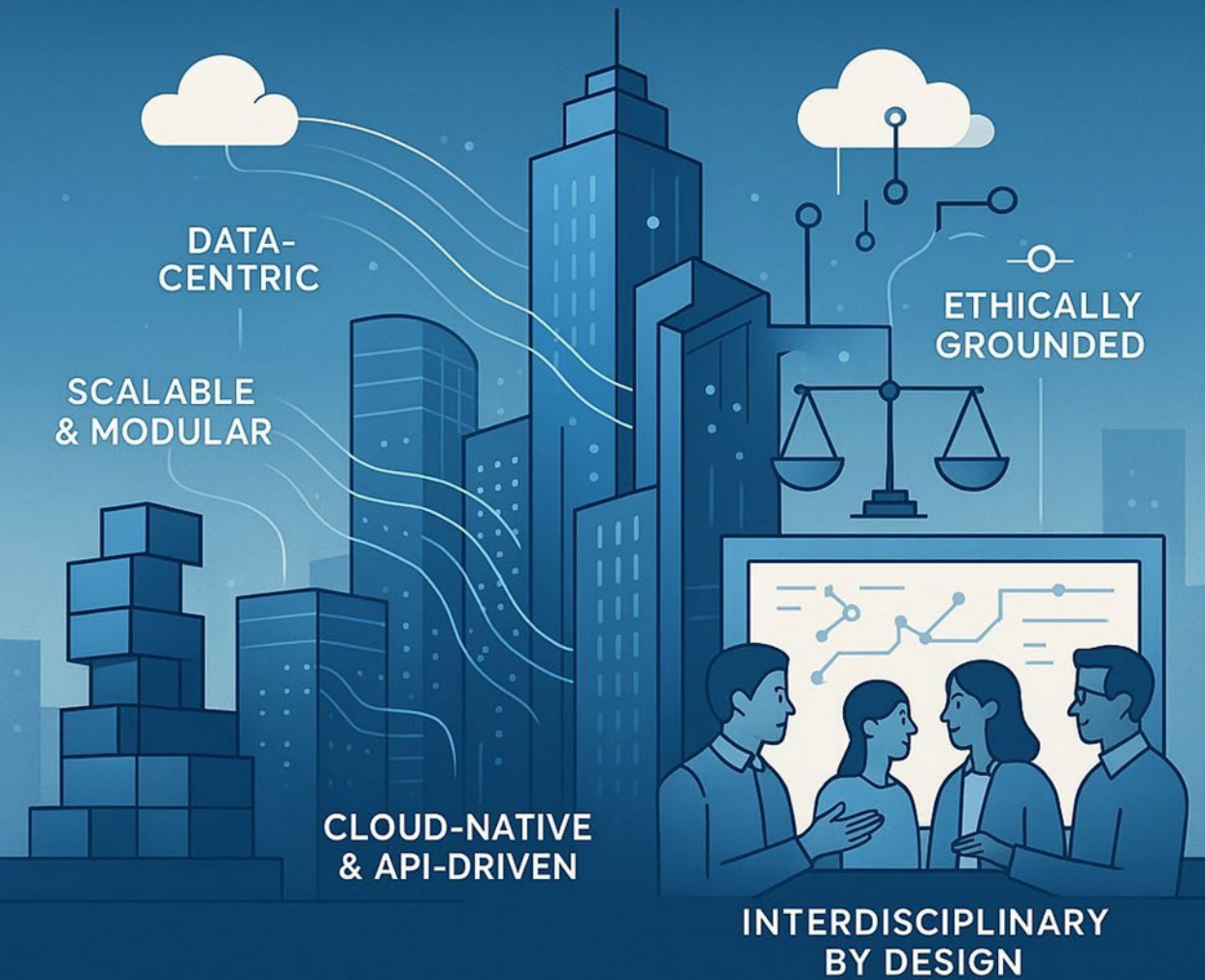


Why AI is a game-changer for EA



- The rapid evolution of AI technologies
- The need for enterprises to adapt and innovate to stay competitive
- Need for forward-thinking architecture

FORWARD-THINKING ENTERPRISE ARCHITECTURE FOR AI ADVANCEMENTS



- Forward-thinking architecture is essential for leveraging AI's potential.
- Addressing challenges like data silos and integration complexities is critical
- Interdisciplinary cooperation and leadership are key to successful AI integration.

ENTERPRISE ARCHITECTURE CHALLENGES IN THE AGE OF AI

GOVERNANCE



INTEGRATION



SILOS



SKILL GAPS





Importance of Interdisciplinary Cooperation

Why It Matters: AI integration requires expertise from diverse fields: data science, IT Architecture, business strategy, GRC - all convened by Enterprise Architecture.

A cross-functional team is a must.

Encourage open communication and knowledge sharing.

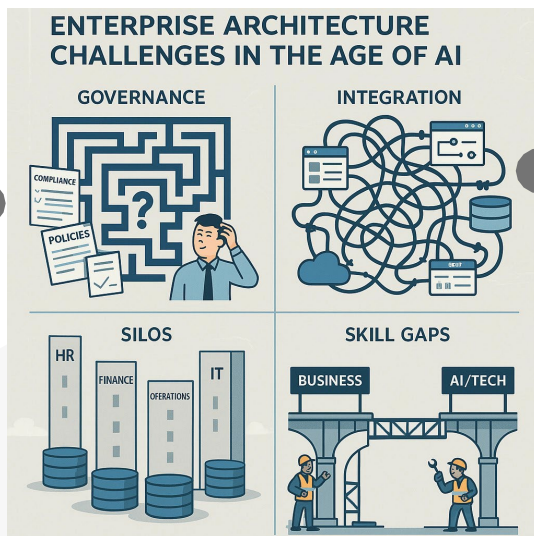
Invest in training and upskilling.

Invest in cross-domain communities of practice.

Addressing the Challenges



Incorporate AI Governance in overall EA Governance



Use an integration methodology to incorporate AI integration standards (MCP, ACP, etc)

Creating a Vision

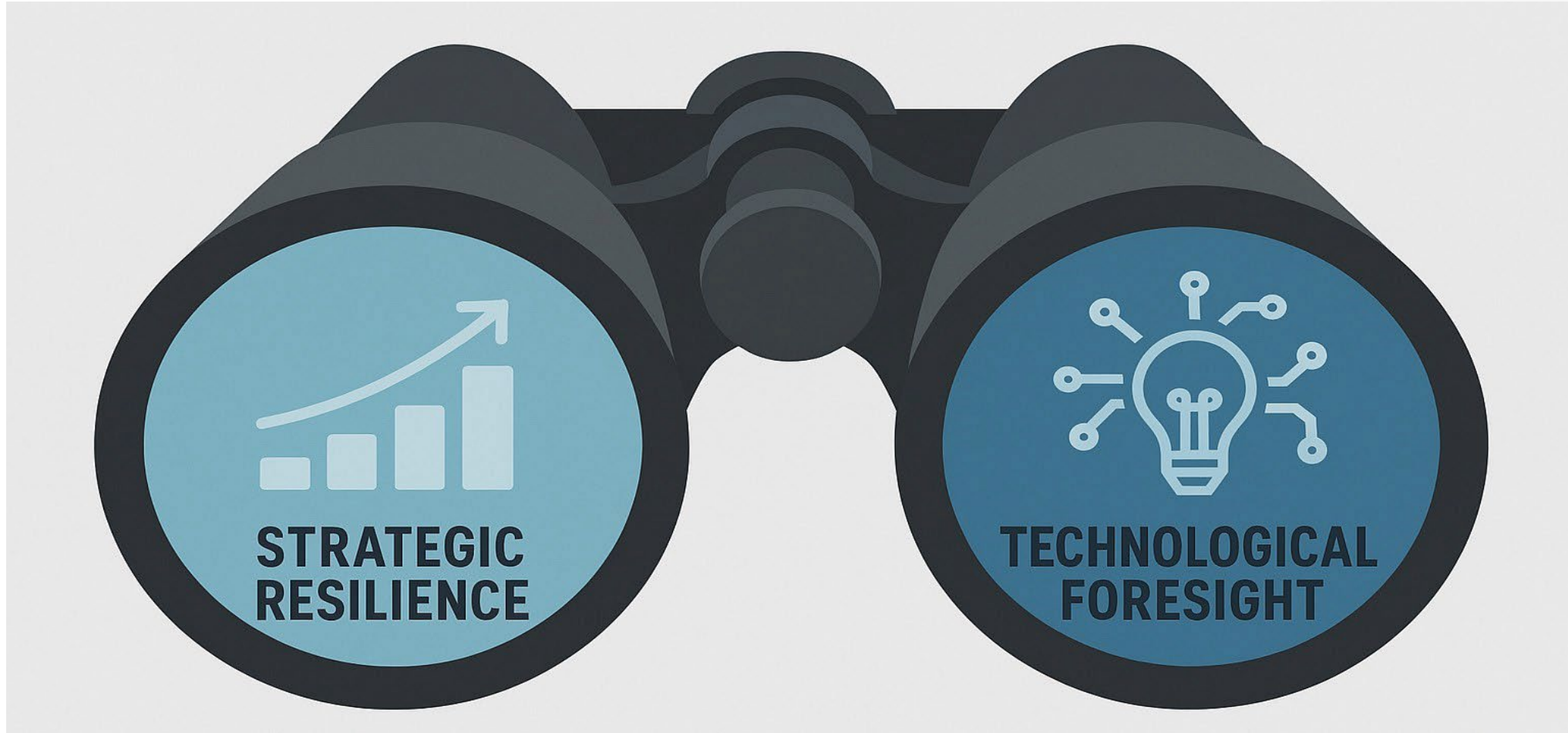
The core Idea

Imagine an architecture where:

- Data flows freely across interconnected systems, enriched with business context and global insights.
- AI understands our business, our industry, and emerging trends— guiding decisions with foresight and precision.
- Applications adapt in real time, reshaping processes without disrupting them.



A Blueprint for AI: Future-Proof by Design





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Questions?



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