The Journey to an Agentic Enterprise

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Seerene
From Digital Transformation to Mastery

EY Contact

Moritz Pawelke
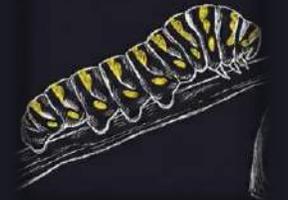Partner, AI & Data

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Shape the future
with confidence

The Journey to an Agentic Enterprise

01 The Agentic Vision

02 The Agentic Reality

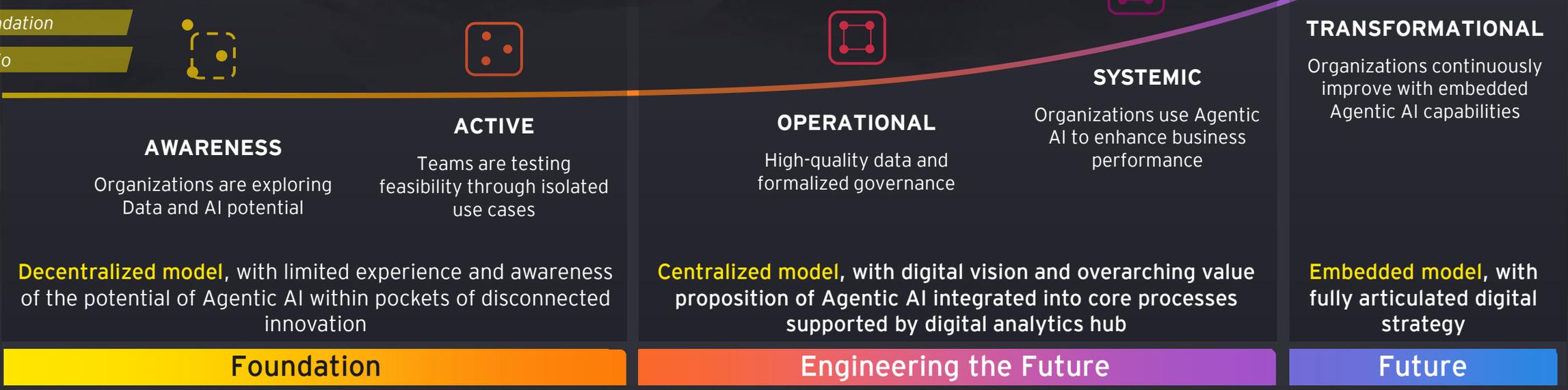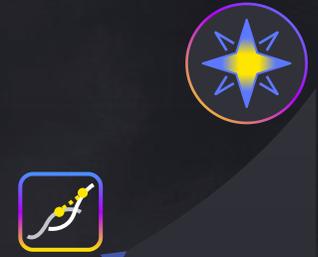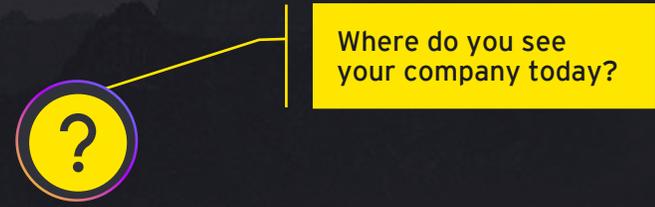## 03 The Agentic Outlook

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01

The Agentic Vision

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Agentic Enterprise Journey
Unlike other technologies, Agentic is a transformational journey

Only 5%
of (Agentic) AI initiatives go into production with a measurable impact due to lack of connection of strategy, governance operating model, people and technology[1]

Strategy & Value

Governance

Operating Model

People

(Agentic) AI Landscape

Data Foundation

IT Portfolio

Where do you see your company today?

Realized Value

AWARENESS

Organizations are exploring Data and AI potential

ACTIVE

Teams are testing feasibility through isolated use cases

OPERATIONAL

High-quality data and formalized governance

SYSTEMIC

Organizations use Agentic AI to enhance business performance

TRANSFORMATIONAL

Organizations continuously improve with embedded Agentic AI capabilities

Decentralized model, with limited experience and awareness of the potential of Agentic AI within pockets of disconnected innovation

Centralized model, with digital vision and overarching value proposition of Agentic AI integrated into core processes supported by digital analytics hub

Embedded model, with fully articulated digital strategy

Foundation | **Engineering the Future** | **Future**

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Merely everything will converge towards AI agents

Automation Evolution

Transactional E2E processes

Data & AI Evolution

Decision support & Value Creation

Business impact

Business impact

Low-Code Automation	Robotics	Hyper Automation	Agentic AI	Gen AI	Traditional/ Narrow AI	Statistical Analysis
Task Automation	Rule based	End to End automation	LLM based agents	Content creation	Cognitive capabilities	Descriptive Statistics
Basic Error Handling	Structured input	Unstructured input	Auto Decision-Making	Pretrained models	Learning Capability	Regression Analysis
Macro Recording	Work Orchestration	Integrated AI Services	Tools integration	Context-based	Predictive Analytics	Data Visualization

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What is Agentic AI?

AI Agents *are AI systems capable of autonomous, goal-directed behavior. These agents can plan, reason, interact with environments, and adapt to changing conditions with minimal human intervention.*

AI Agent

Input → Reason → Act → Learn → Repeat

From typical Large Language models...

Automate Tasks

Not capable of planning or orchestrating workflows

Are not inherently designed to integrate with external tools or systems

... to AI Agents

Automate entire workflows / processes

Create and execute multi-step plans to achieve a user's goal, adjusting actions based on real-time feedback

Augment inherent language-model capabilities with APIs and tools to perform tasks

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What makes Agentic AI so transformative?

Enhance Workforce
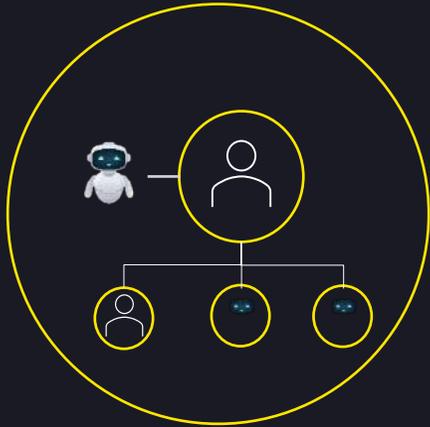
Agents complement your workforce with processing tasks, providing expertise, and interacting with employees, customers, and suppliers
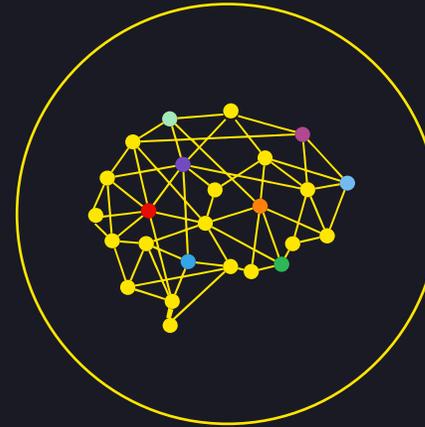
Reduce costs

>30%
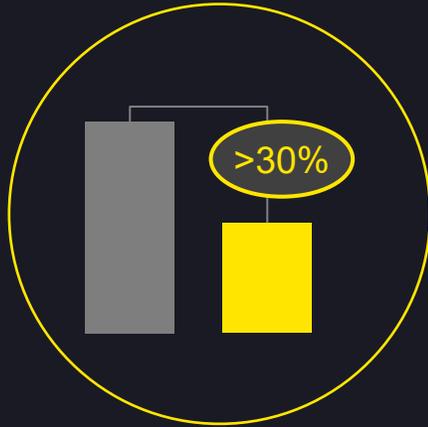
AI Agents across your E2E processes allow to **free-up up to 50% of FTE**, esp. in admin processes – **we expect 30% labor reduction on enterprise level**

Increase Revenues & margin

Unlock revenue and margin increase with AI Agents esp. in supply chain and sales/marketing to be more active in the market and better leverage data & insights

24/7 service & insights

Enhance customer and user experience with service in real time, anytime and at speed. AI Agents adapt to the needs of the user – independent from location, language and timezone
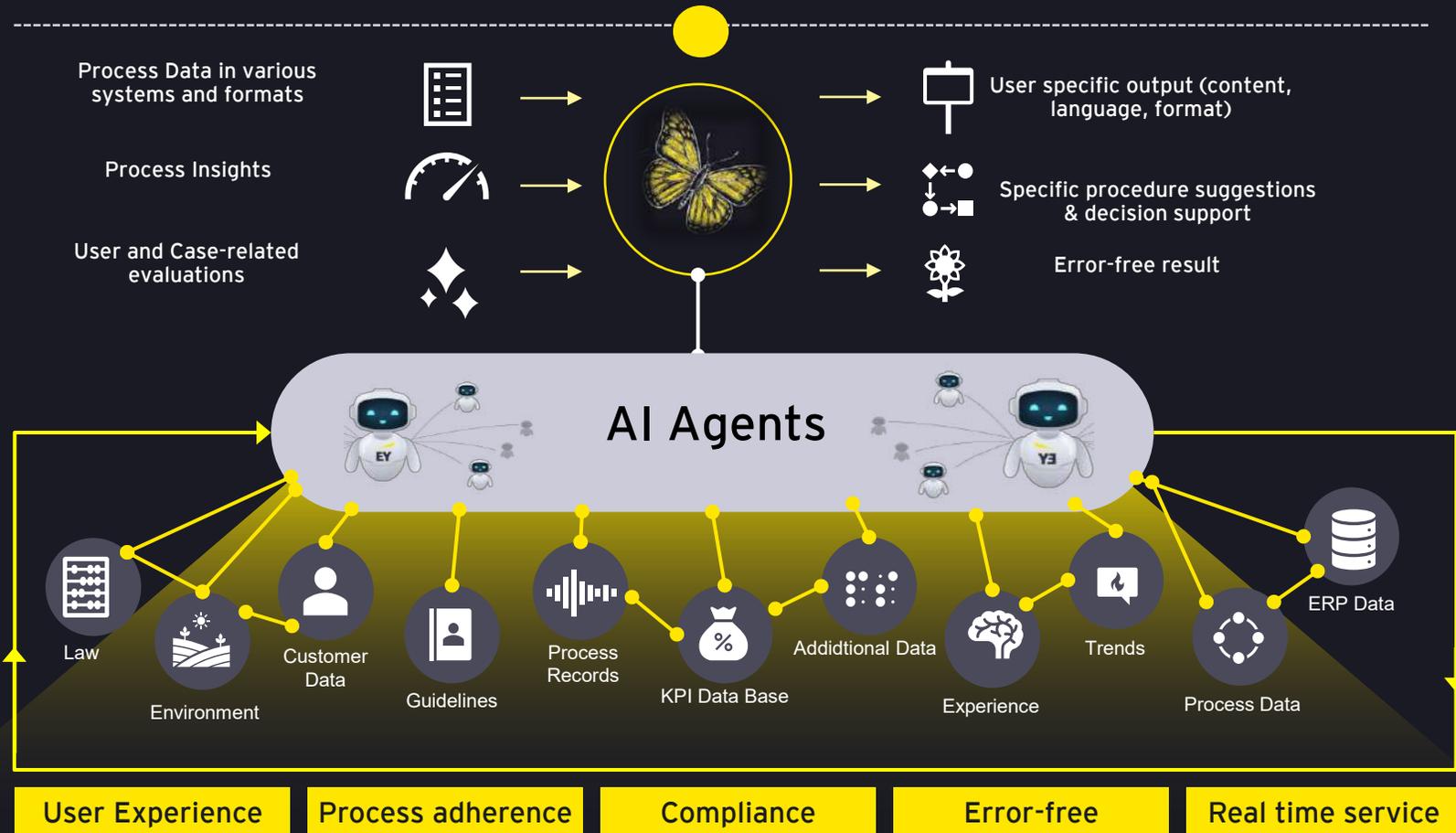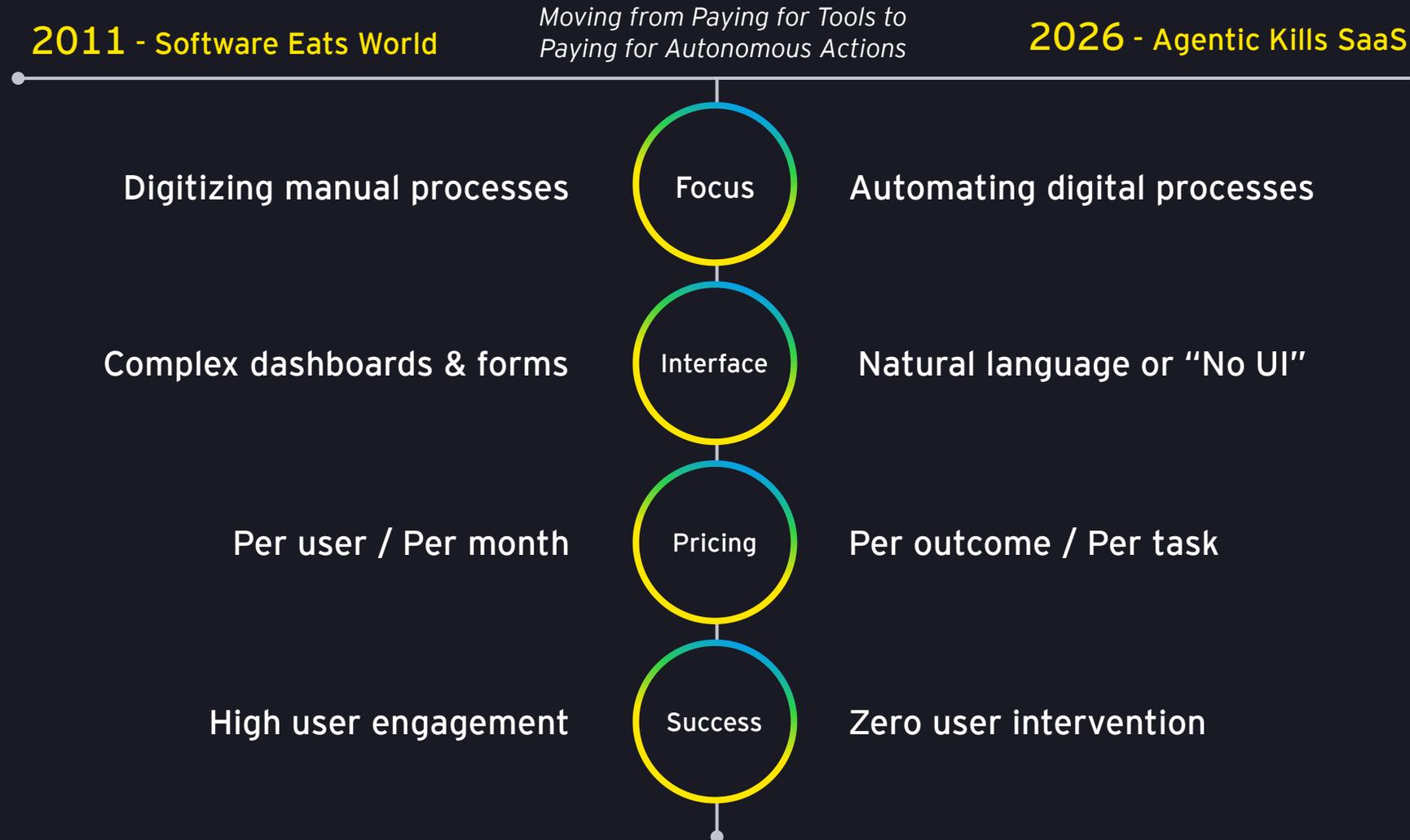
Jump the S-curve
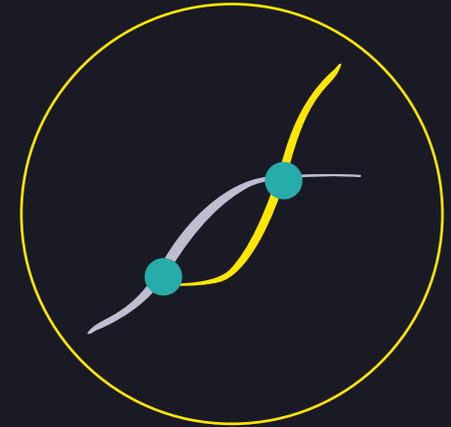
Unlock value coming from exponential disruption with agentic enterprise workflow, **interaction in the market and re-imagined business models**

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If Software Ate the World, Agents are Eating the Interface

AI-Agent enabled enterprise workflows make SaaS and enterprise applications mostly obsolete or relegated them to silent "data-storage utilities"

Process Data in various systems and formats → → User specific output (content, language, format)

Process Insights → → Specific procedure suggestions & decision support

User and Case-related evaluations → → Error-free result

AI Agents

Law

Environment

Customer Data

Guidelines

Process Records

KPI Data Base

Addidtional Data

Experience

Trends

Process Data

ERP Data

| User Experience | Process adherence | Compliance | Error-free | Real time service |

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Hypothesis From SaaS to AaaS

2011 - Software Eats World

Moving from Paying for Tools to Paying for Autonomous Actions

2026 - Agentic Kills SaaS

2011	Focus	2026
Digitizing manual processes	**Focus**	Automating digital processes
Complex dashboards & forms	**Interface**	Natural language or "No UI"
Per user / Per month	**Pricing**	Per outcome / Per task
High user engagement	**Success**	Zero user intervention

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02

The Agentic Reality

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Our foundational assumptions about data are being challenged

Data 1.0

The Era of the Stack

...traditional, structured approach to data management, likely involving siloed databases and infrastructure-heavy systems.

Data 2.0

The Era of the Lake

...move towards centralizing vast amounts of raw data from various sources into a single repository for future use.

Data 3.0

The Era of Data Autonomy

...data systems are intelligent, self-governing, and capable of autonomous processing, moving beyond passive storage and collection.

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We have reached a shift in laws of physics for data

Newtonian Physics
(Traditional Data)

For 200 years, Newtonian physics just worked. It built bridges and put satellites in orbit.

- Traditional Software: Deterministic (Input A -> Output B)
- Linear & Logical: Rule-based systems

Einstein's Relativity
(AI & Agentic Tech)
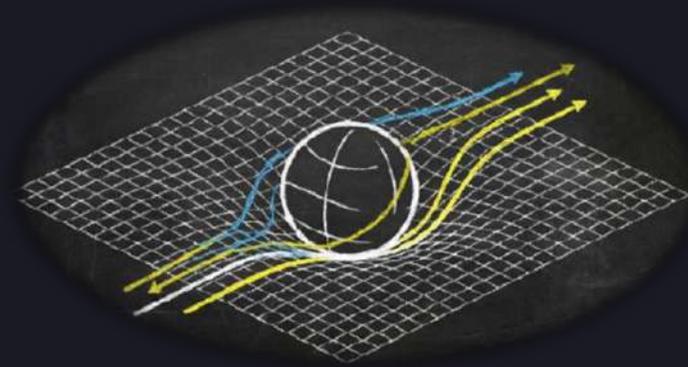
But to build atomic clocks and GPS, we needed Einstein's relativity. Our context had changed.

- AI & Agentic Tech: Probabilistic & Contextual
- Non-linear: Handles chaotic, complex relationships

The speed, scale, and complexity of AI demand a new model. A shift in paradigms is needed.

Crucial: Newton is extended, not replaced. We need both for different problems.

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# Today's journey from data to value is a "broken waterfall"

A process that has hardly changed for decades and takes weeks
to months, while AI applications change in minutes.
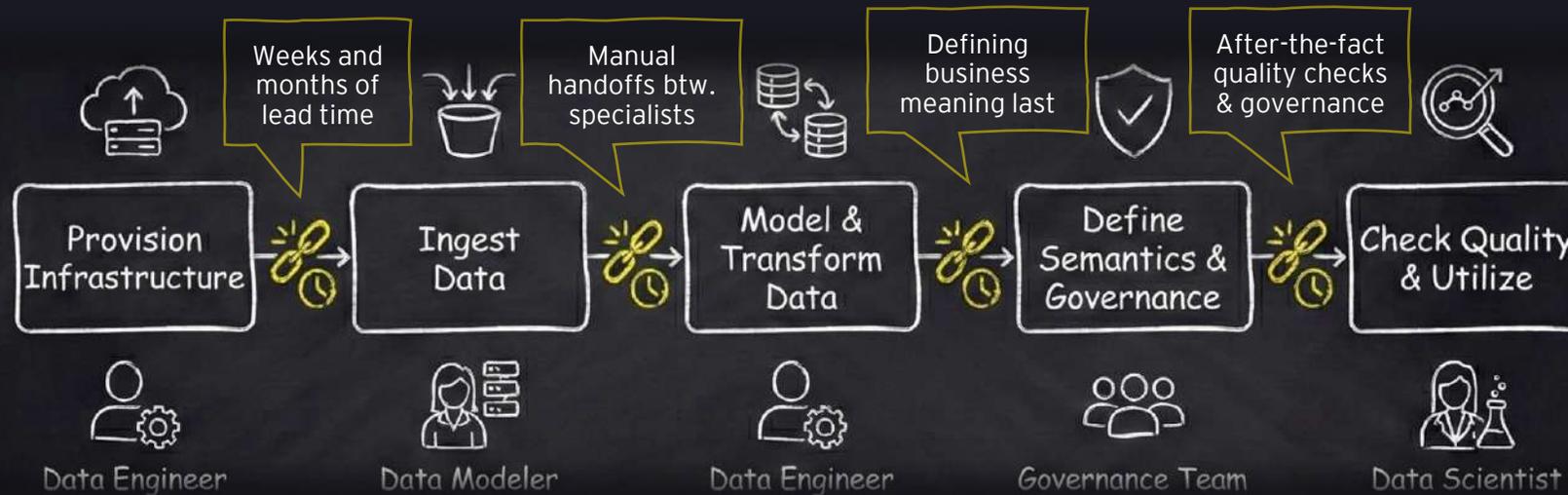
Every handover is a source of friction, misunderstandings and delay.

The result is a squishy, complex "hairball" that kills agility

Between the solid foundation (infrastructure) and value creation (applications), a complex mass of ad-hoc solutions proliferates.
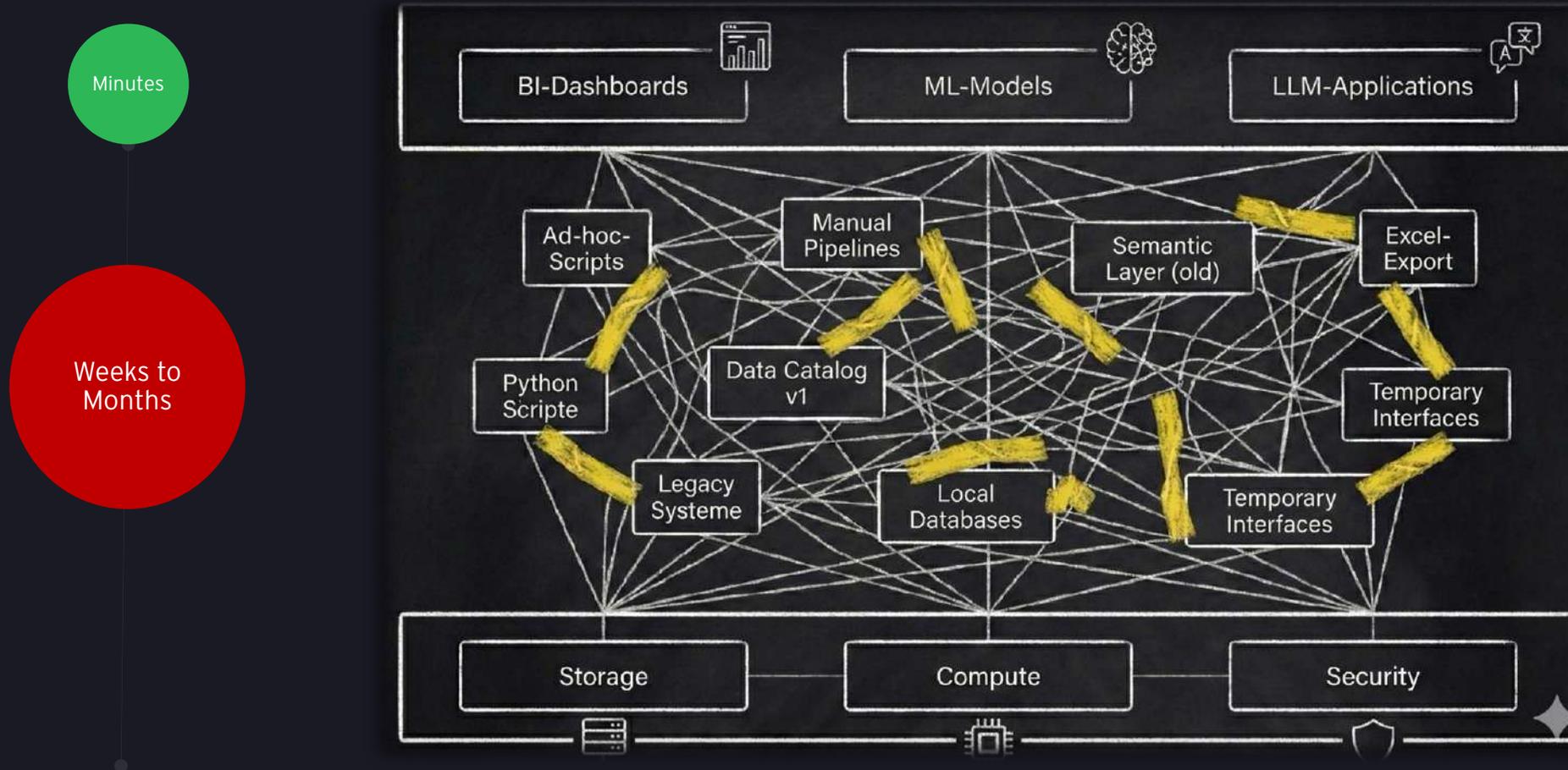
In the Agentic AI Era, this friction becomes an existential threat

Errors that were once annoying are now irreparable with autonomous agents acting independently.

Two different revenue figures on the CEO dashboard.

Yesterday: Annoying, but correctable.

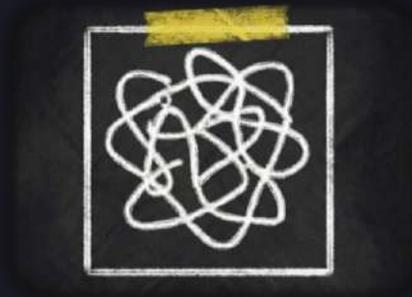AI agents using the same flawed data over and over again.

Tomorrow: Catastrophic and irreversible

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The Agentic Outlook

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Good news: We have tamed this kind of complexity before

The solution lies in proven architectural principles
that we have already applied in the past.

Encapsulation

…hide complexity within manageable units.

Abstraction

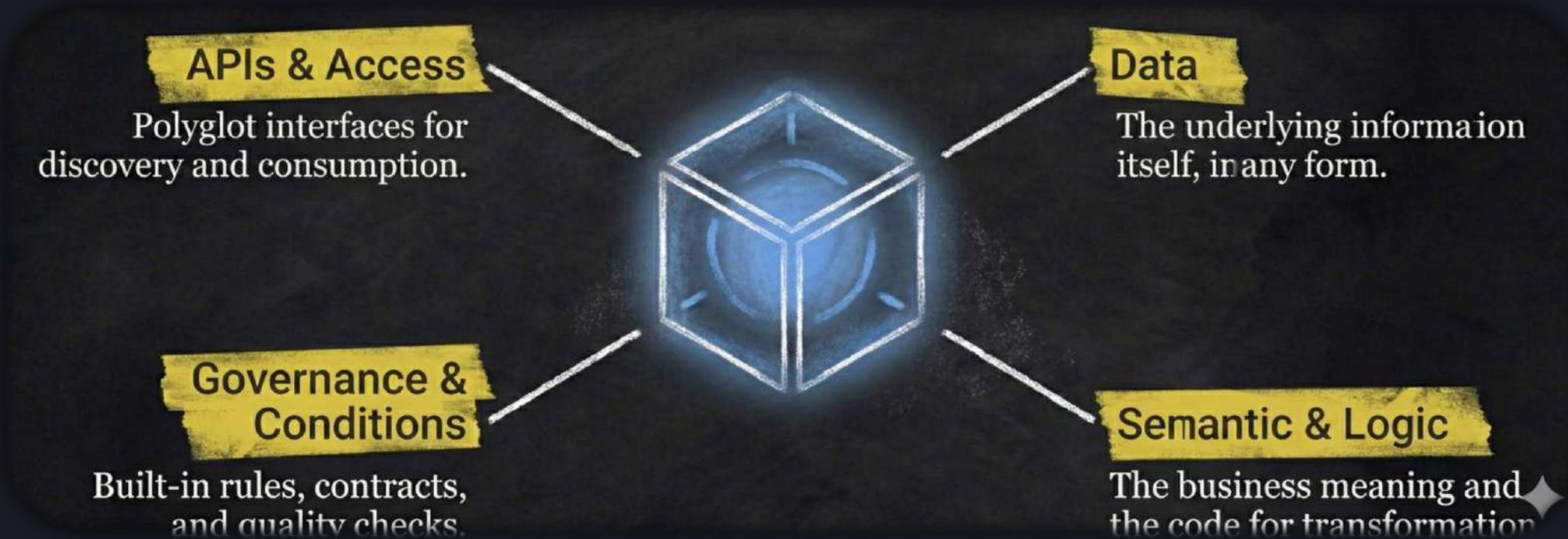*…define clear interfaces for interaction.*

Automation

…eliminate manual interventions.

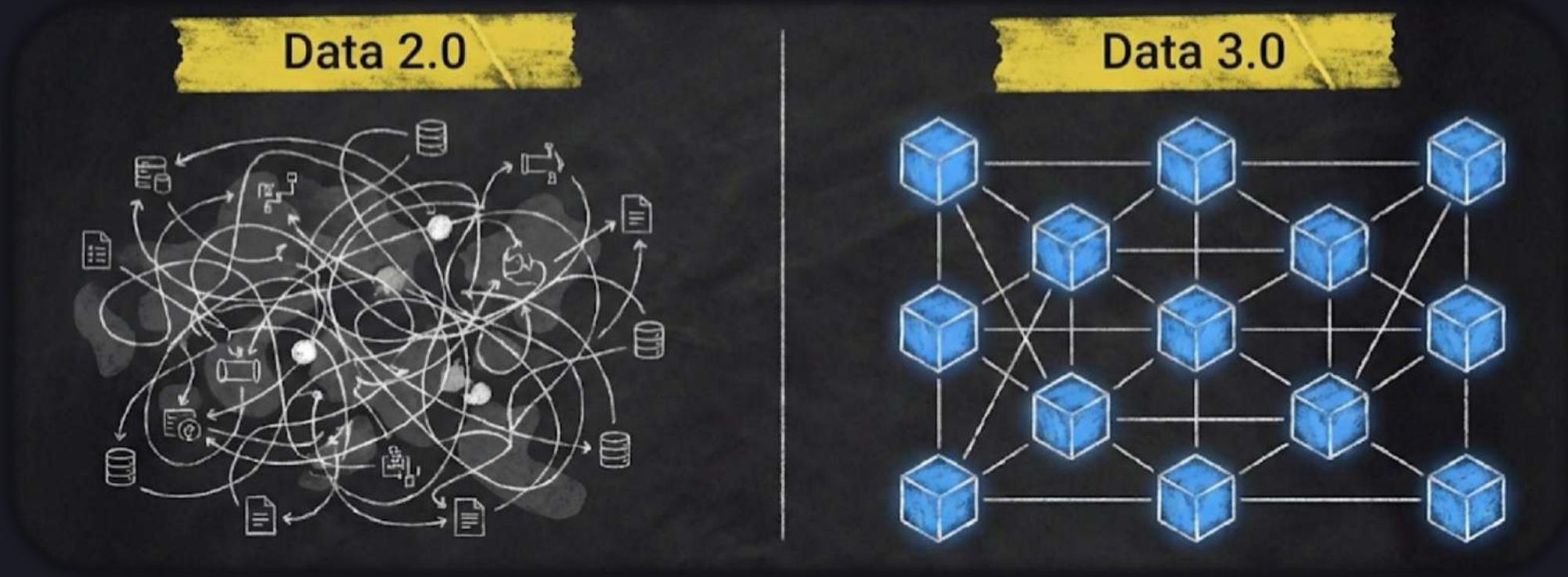## How can this translate to data 3.0?

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Introducing the new unit for Data 3.0
The Autonomous Data Product

A self-contained, intelligent, and runnable unit that
encapsulates all the facets needed to make data usable.

APIs & Access
Polyglot interfaces for discovery and consumption.

Data
The underlying information itself, in any form.

Governance & Conditions
Built-in rules, contracts, and quality checks.

Semantic & Logic
The business meaning and the code for transformation.

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The squishy hairball is replaced by an interconnected mesh of autonomous data products
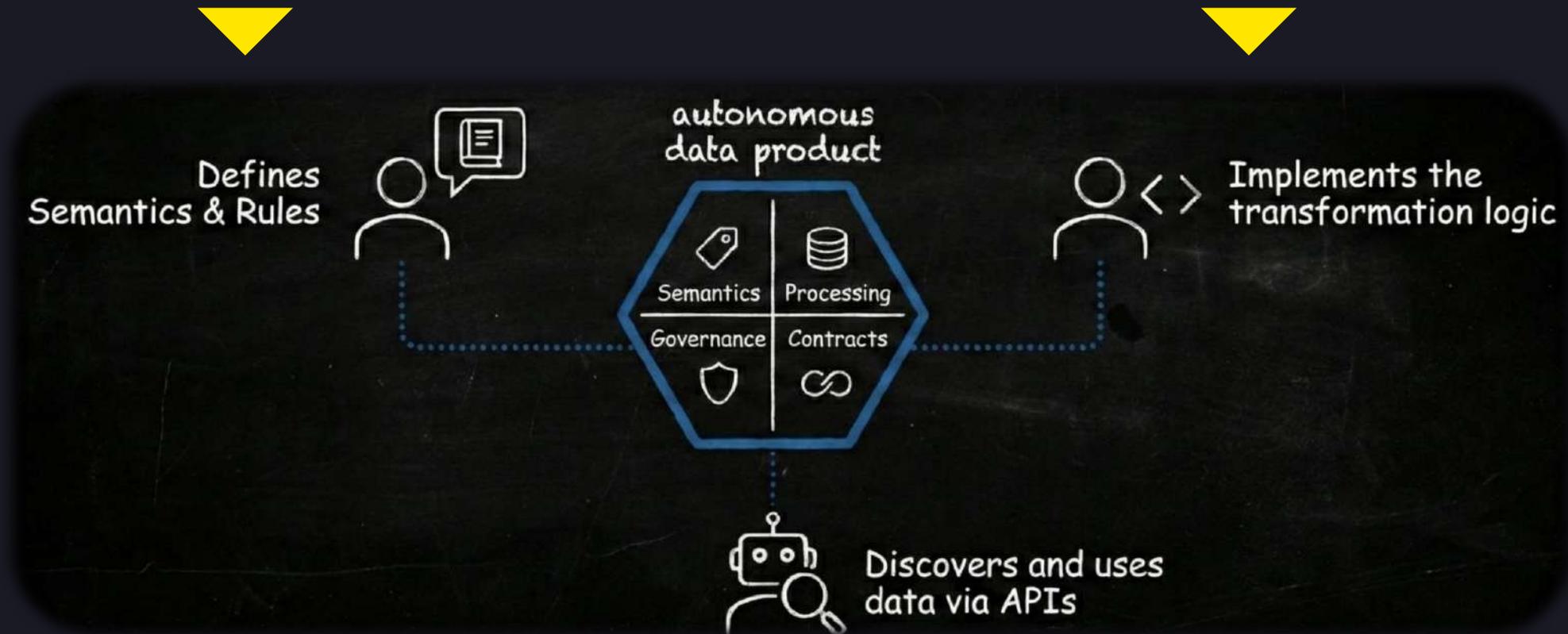

Data 2.0 | Data 3.0

Each node is an autonomous, self-governing process, serving semantically-aligned, domain-oriented data.

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The human role will not vanish
It shifts from plumber to designer

Instead of fragmented handoffs, all actors work on a single, living artifact.

With autonomous data products we move human expertise to the beginning of the process.

The paradigm shift at a glance
Data 2.0 vs. Data 3.0

Dimension	From Data 2.0 (storage-centric)	To Data 3.0 (autonomous)
Centricity	▪ Bits on disk (storage-first)	▪ Business meaning (semantic-first)
Modality	▪ Data as a table or a file	▪ Semantic in every mode (vector, table, API, …)
Orchestration	▪ Central brain	▪ Autonomous, self-orchestrating nodes
Reasoning	▪ After-the-fact, via external tools (lineage)	▪ Built-in to each product
Governance	▪ External teams, manual enforcement	▪ Computationally enforced, embedded in code

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Closing Remarks and Q&A

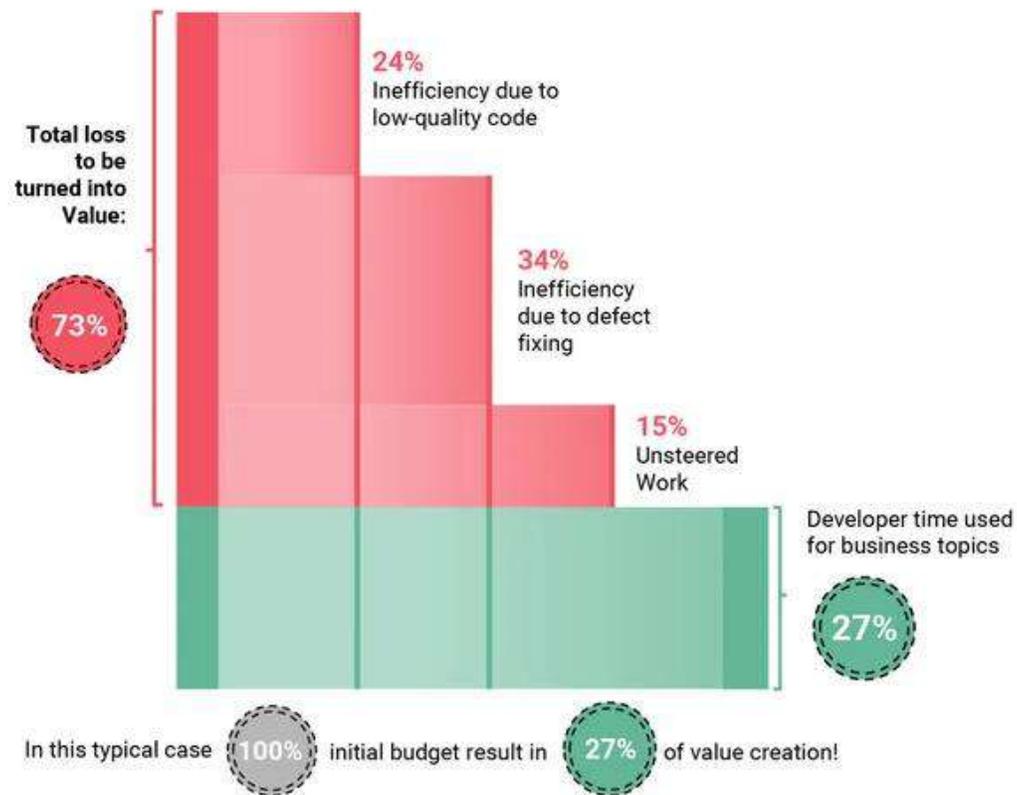# Development Excellence Implementation

March 2026

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The better the question. The better the answer. The better the world works.
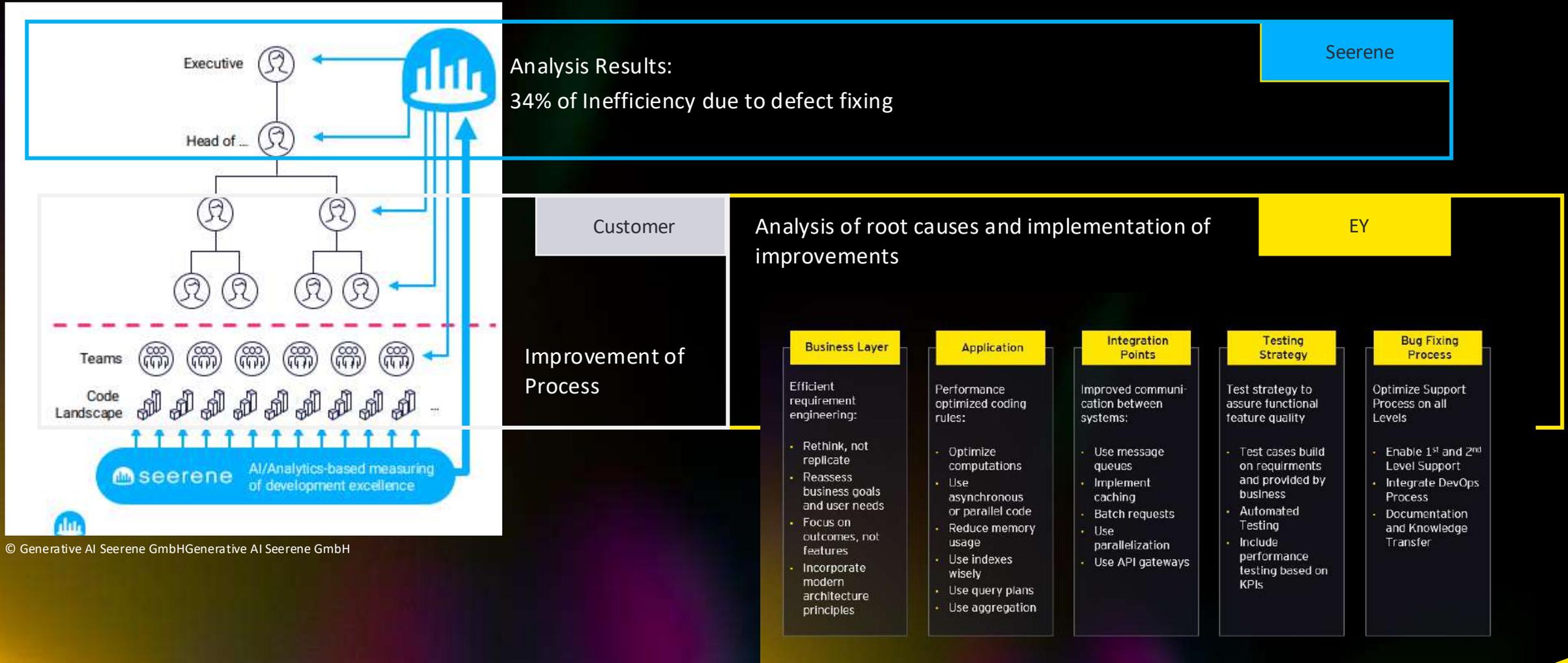
Based on the findings of Seerene Platform …

Typical Inefficiency Found in Large Corporations

Total loss to be turned into Value: **73%**

24% Inefficiency due to low-quality code

34% Inefficiency due to defect fixing

15% Unsteered Work

Developer time used for business topics **27%**

In this typical case **100%** initial budget result in **27%** of value creation!

Investment stream report shows areas which need to be improved regarding

- Efficiency
- Quality

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… EY supports quality and efficiency improvement

Analysis Results:

34% of Inefficiency due to defect fixing

Seerene

Customer

Analysis of root causes and implementation of improvements

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Improvement of Process

Business Layer	Application	Integration Points	Testing Strategy	Bug Fixing Process
Efficient requirement engineering:	Performance optimized coding rules:	Improved communi-cation between systems:	Test strategy to assure functional feature quality	Optimize Support Process on all Levels
· Rethink, not replicate · Reassess business goals and user needs · Focus on outcomes, not features · Incorporate modern architecture principles	· Optimize computations · Use asynchronous or parallel code · Reduce memory usage · Use indexes wisely · Use query plans · Use aggregation	· Use message queues · Implement caching · Batch requests · Use parallelization · Use API gateways	· Test cases build on requirments and provided by business · Automated Testing · Include performance testing based on KPIs	· Enable 1st and 2nd Level Support · Integrate DevOps Process · Documentation and Knowledge Transfer

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EY | Building a better working world

EY is building a better working world by creating new value for clients, people, society and the planet, while building trust in capital markets.

Enabled by data, AI and advanced technology, EY teams help clients shape the future with confidence and develop answers for the most pressing issues of today and tomorrow.

EY teams work across a full spectrum of services in assurance, consulting, tax, strategy and transactions. Fueled by sector insights, a globally connected, multidisciplinary network and diverse ecosystem partners, EY teams can provide services in more than 150 countries and territories.

All in to shape the future with confidence.

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