XAUTOMATA

The ultimate digital twin Platform

Operational intelligence to manage the complexity of IT and cloud

The challenge in IT Operations and Xautomata's response

The challenge

In the era of hybrid and distributed cloud, companies seek **performance, security, efficiency, and cost control.**
Organizations struggle to achieve an integrated, updated, and predictive view of their IT and Cloud assets.

Despite the adoption of observability systems, ITSM, and automation solutions, **data remains fragmented** and insufficiently usable to effectively support operational and strategic decisions.

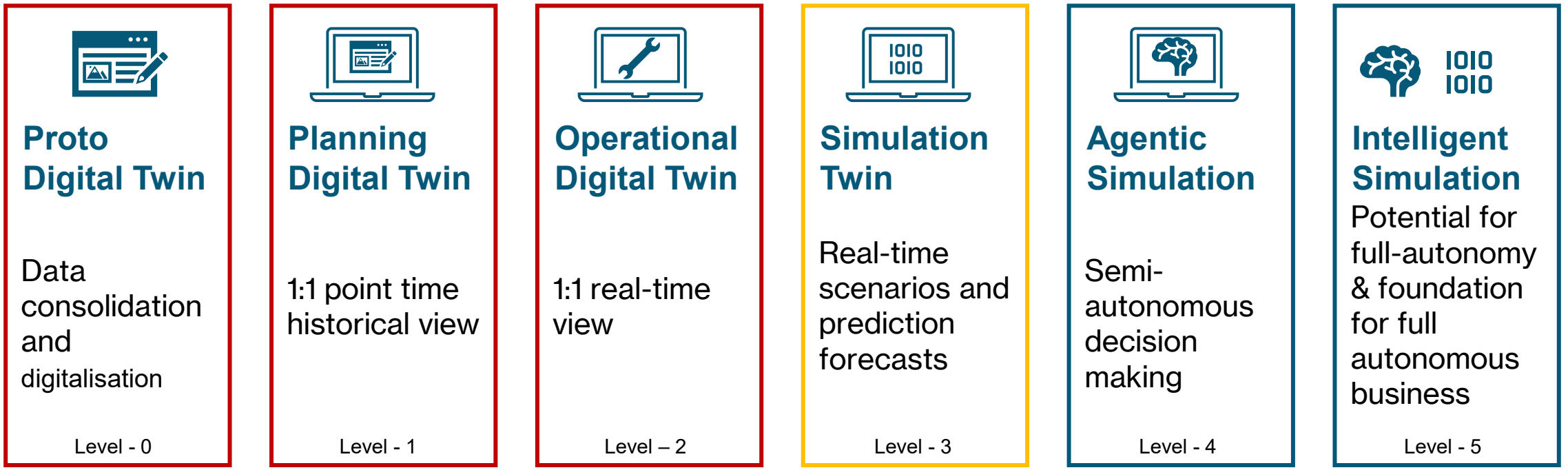
So what now?

The lack of scalability and accurate controls inevitably leads to operational inefficiencies and unexpected costs.

Xautomata addresses this need by integrating and orchestrating OT and IT technologies to provide a unified view that enhances productivity, predictive maintenance, and process optimization.

It is a platform designed to ensure precise control and efficient scalability, capable of intelligently and adaptively managing IT/Cloud governance processes.

Enabling the Industry of the Future: The Foundation for Agentic AI



XAUTOMATA
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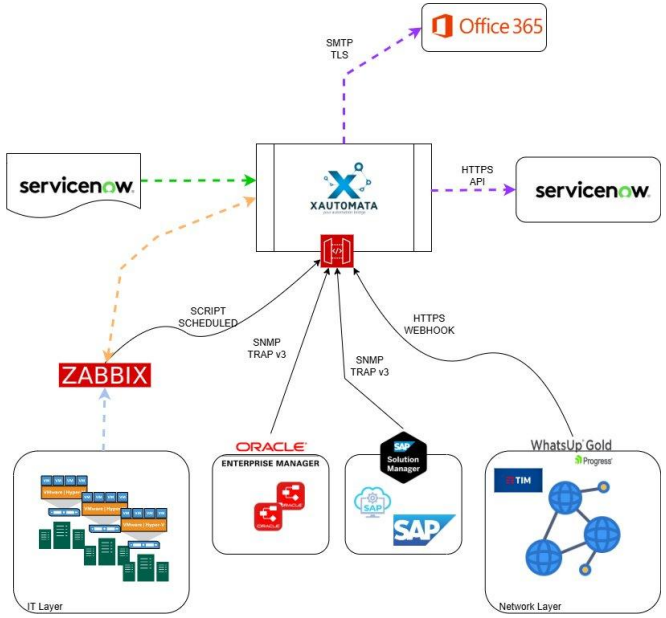
USE CASE

An Italian public company operating in the **shipbuilding sector**. It is the most important naval group in Europe and the fourth largest internationally.

The introduction of the **digital twin** in the insurance process **has yielded** concrete benefits, measurable both in terms of **operational efficiency and economic return**. Performance indicators confirm the strategic value of the transformation undertaken.



The proactivity and efficiency of ticket triage translate into improved performance:

- 57%

The number of tickets opened per year corresponds to approximately €200,000 in savings.

+ 15%

An increase in tickets resolved on the same day they are opened, resulting in an immediate improvement in the team's productivity.

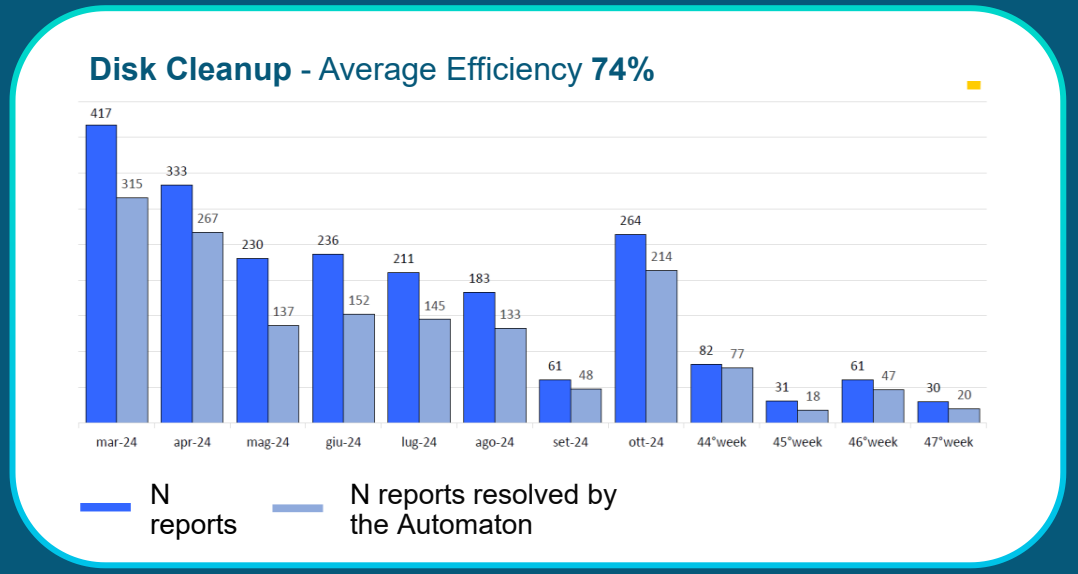
USE CASE

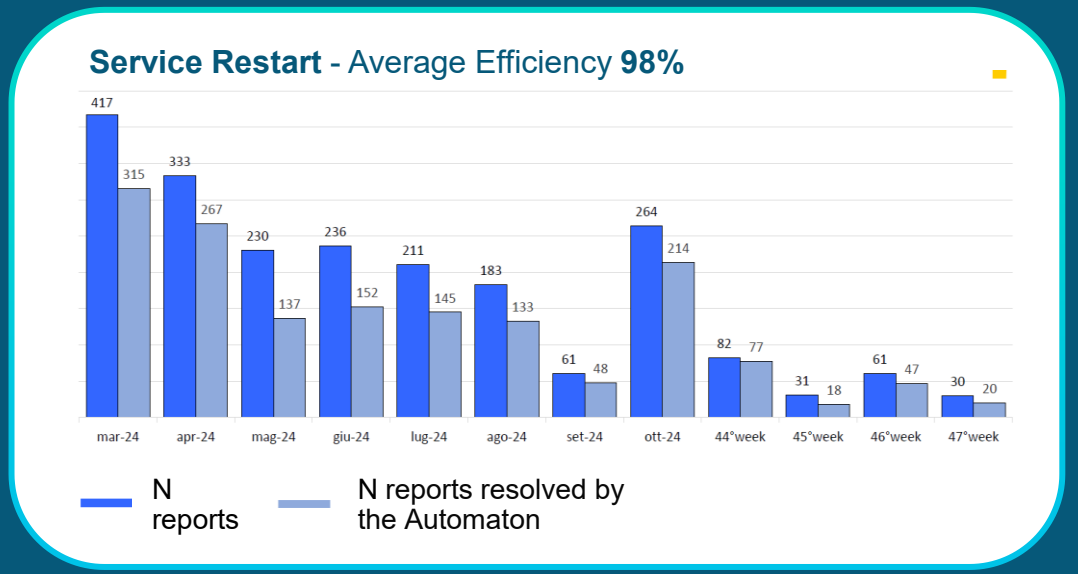
Italian branch of a **multinational chain of American fast food restaurants**, now surpassed worldwide only by Subway®.

The introduction of the digital twin in the service desk process has yielded concrete benefits, **with tangible impacts on process efficiency and economic value generation**. The recorded performance confirms the strategic value of the transformation journey.

90.000 €/year

Reduction of operational costs related to the Service Desk, specifically for the processes of Disk Cleanup and Service Restart.





USE CASE

The **need to serve customers with increasingly rapid credit analyses** puts pressure on CRIF's IT infrastructure, requiring a drastic improvement in response times to alerts and an increase in service availability.

The introduction of the **digital twin** in the control room process has yielded concrete benefits that directly impact **operational productivity** and the **economic sustainability of investments**.

Proactive and efficient ticket triage leads to a significant enhancement of corporate performance:

- 68%

Reduction of manual activities that burden first-level operators, who are required to manage an average of 22,000 incidents per year.

+ 63%

Increased proactivity positively affects the ability to ensure contractual compliance with banks and end customers.

USE CASE

Optimization of IT Operations and Incident Management

The Challenge

Minimizing downtime and ensuring timely assistance for IT service users.

For companies, the ability to respond quickly to malfunctions is a key competitive factor, directly impacting productivity and profitability.

The Xautomata Approach

Xautomata agents define **behavior models to correlate events** from different monitoring systems and predict incidents.

They automate the management of support requests, the initial steps of diagnostics, and execute self-repair actions (e.g., service restart, resource scaling).

Operators are activated only when necessary, guided by contextual operational information.

Tangible Results

- 50%
Reduction of MTT

+ 20%
Increased availability of IT services and adherence to SLAs

+ 30%
Enhanced productivity for DevOps and SRE teams

USE CASE

FinOps and Compliance for Cloud Security

The Challenge

Optimizing cloud costs and keeping potential security vulnerabilities in check.

For companies, the ability to manage costs frees up resources for innovation and ensures security compliance, serving as a key competitive factor with **tangible benefits for operational efficiency and profitability.**

The Xautomata Approach

XA agents monitor hyperscaler costs and, based on historical data, **define models to identify anomalies**. Additionally, they execute customized escalations.

XA agents identify inactive VMs, unassociated disks, non-compliant security configurations (e.g., open ports), and **deviations from compliance policies**. Where applicable, they can autonomously execute playbooks.

XA agents **activate operators** only when necessary, providing them with contextual operational information.

Tangible Results

- 25%
Significantly reduce waste and cloud bill costs

+ 60%
Optimize resource allocation based on actual usage.

+ 50%
Maintain a continuous and proactive security and compliance posture.

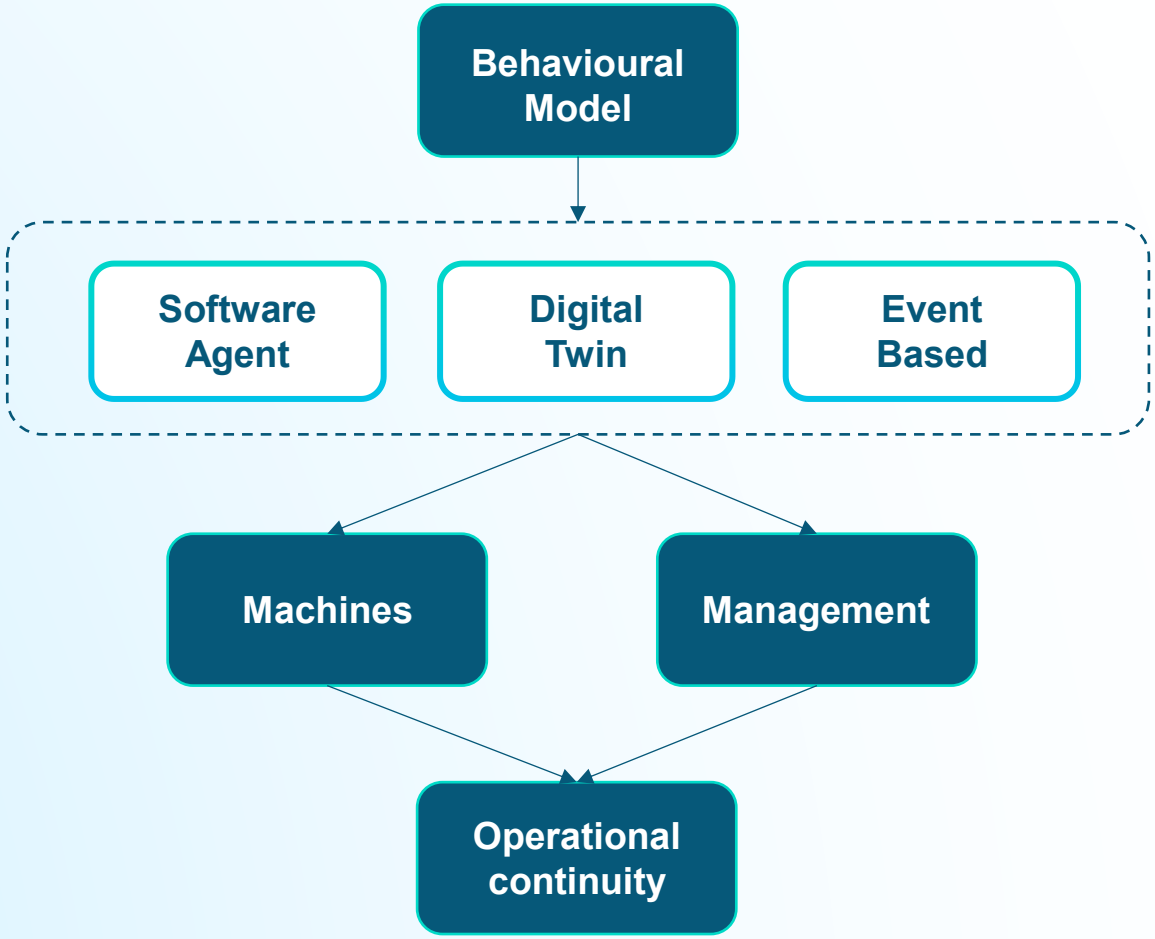
Behavioural Models

Xautomata is a platform for event management through the definition of **Behavior Models**.

Xautomata's **Agents** detect deviations in the **production cycle** and coordinate operational managers and platforms in **real-time**, facilitating the recovery of continuity and performance.

These Agents act as a **Digital Twin of Process (DTO)**: a virtual representation that is always up-to-date, allowing for precise **analysis, simulation, and intervention** in case of anomalies.

Thanks to its core modeling language **XAL (eXtended Automata Language)**, Xautomata makes the use of **autonomous software agents** replicable and adaptable across various production sectors, defining dynamic models that coordinate technologies and people towards achieving business objectives (SLA, budget, compliance).



Technological Pillars of the Xautomata Proposal

The effectiveness of Xautomata is based on key principles that ensure **intelligent, flexible automation governed by behavior models**, seamlessly integrable into **IT and Cloud** management and maintenance processes.

Model-Guided Autonomy

Agents that operate based on clear behavior models make contextual **decisions based** on data collected in real time.

Systems capable of learning from data and dynamically adapting governance processes, increasing responsiveness without compromising control and reliability.

Adaptive Orchestration

Dynamic selection and coordination of the most suitable technologies (Fractal, Terraform, Ansible, Kubernetes, Cloud APIs, ServiceNow, Datadog, etc.) for each phase of the process.

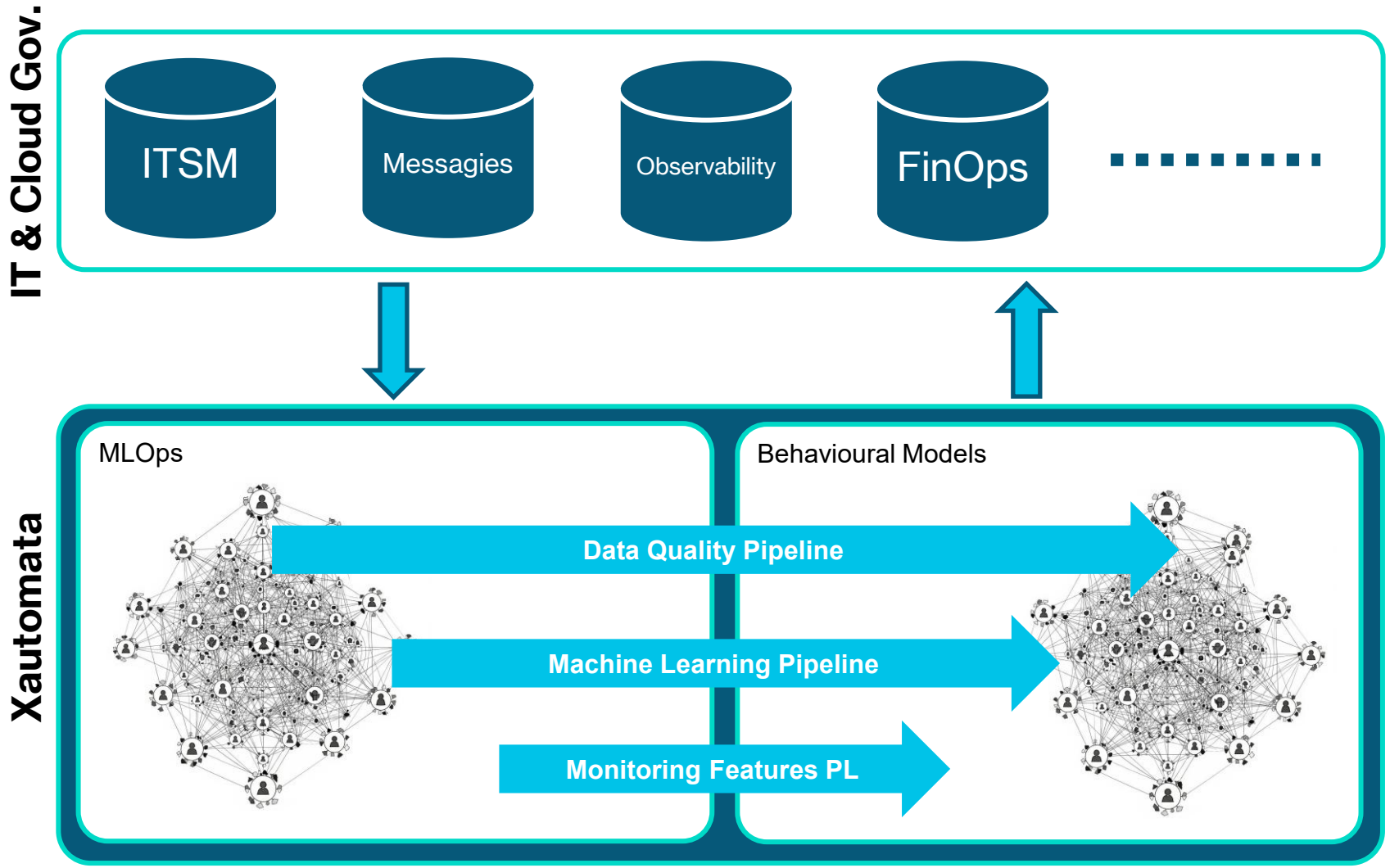
An intelligent layer that harmonizes flows, events, and resources between OT and IT, ensuring operational continuity even in complex and ever-evolving environments.

Deterministic Governance

Defined, traceable, and modifiable behavior models that ensure reliability, control, scalability, and self-consistency.

Centralized control of all logic and automation to guarantee security, compliance, and traceability even in distributed and highly variable scenarios.

Accuracy, Scalability, and Flexibility



Competitive Advantages for IT Operations

The implementation of Xautomata results in a number of measurable benefits that positively impact **efficiency, costs, quality, and the ability to innovate** for companies in cloud and IT infrastructures in general.

Improved **Reliability and Service Uptime (SLA/SLO)** through proactive and automated incident resolution.

Significant **Reduction** in Operational Costs (**TCO**) and Cloud expenses, by optimizing resource usage and automating operations.

Enhanced Security Posture and Compliance through automation that enforces policies.

Agile and Resilient Operations, thanks to the rapid adaptation of "Behavioral Models" to the changing demands of the market.

Empowered Workforce, freeing teams from repetitive tasks and allowing them to focus on innovation and complex architectures.

Centralized Governance, with a unified view and control over complex and multi-cloud environments.

Our Ecosystem: Integration and Shared Growth

Partners

Technologies

The Future of Operational Intelligence for IT & Cloud

Quick Take aways

1. Xautomata leverages **behavior models** to orchestrate complex and strategic operations, ranging from IT service management to cloud resource optimization.

2. While **operators** retain final decision-making responsibility, they are **relieved from repetitive analysis and execution of standardized reactions** dictated by the models.

3. In the absence of behavior models that automate the entire process, the **insights** provided by Xautomata guide operators in the most critical decisions.

4. The **ease** of adding, removing, and modifying behavior models (defined with XAL) **ensures scalable continuous improvement** in governance, adapting operational intelligence to the **changing needs of IT**.

XAUTOMATA

CONTACT US

www.xautomata.com

Lakeside B01
Klagenfurt am Wörthersee
A-9020 - Österreich

info@xautomata.com