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Automation to Autonomy

Turning autonomous use cases into a strategic capability

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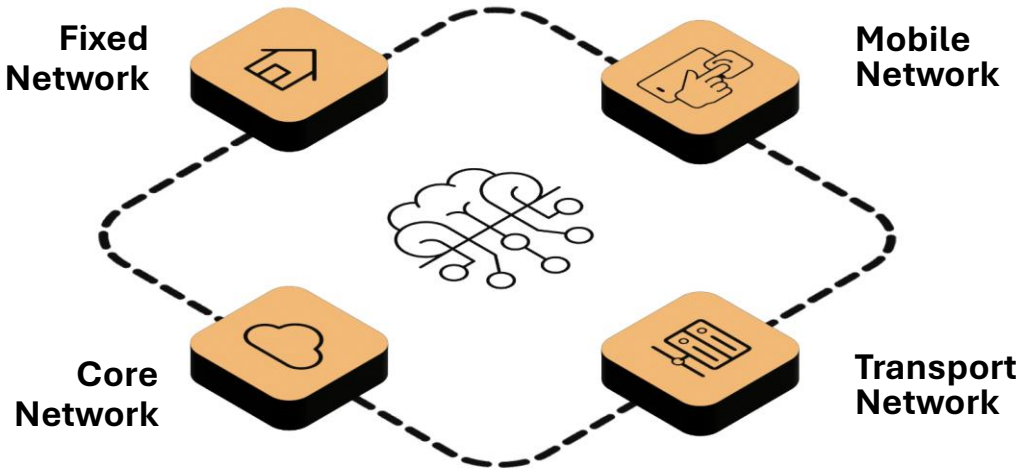
Visit us on **Meeting Room DD**

Our Vision is a Level-4 Autonomous Networks

that operates with intent-driven, predictive and closed-loop control

Intent-Driven Operations

Cross-Domain Orchestration



Closed-Loop Assurance

Unified Observability

Elastic Capacity

North Star Outcome

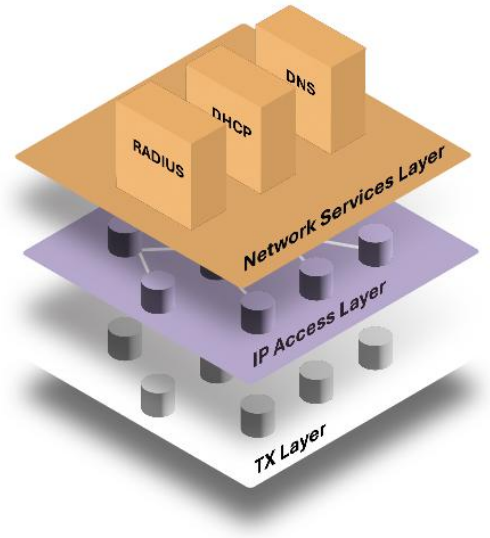
By 2030, our network will execute business intents automatically, adapt to changes in real-time, and deliver an optimal balance of performance, cost, and sustainability.

Our Starting Point

with opportunities arising from a high demanding and very complex ecosystem

Multi-domain Silos

NW domains managed by dedicated teams using domain-specific tools that limit end-to-end visibility



NW Complexity

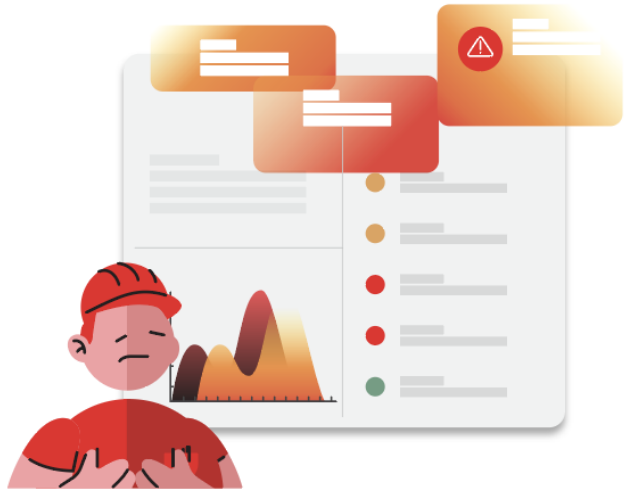
High volume of network locations and heterogeneous equipment spread across multiple inventory systems equipments

110K

Physical equipment

Reactive Operations

Teams react to issues with high manual workloads and limited ability to anticipate or prevent problems



Our Journey to Full Autonomy

is a phased, value-driven 5-year roadmap

PHASE 1

Foundation & First Agentic AI

2026 – H1 2027

Launch the **Data Fabric v1** with streaming telemetry

Seed **core capabilities for scale**

Deliver the first set of **20 use cases**

Start **Dark NOC** program

Crawl 

PHASE 2

Integration & Scaling

H2 2027 – 2028

Advance to **Data Lakehouse v2**

Implement **AI-assisted change approval** and prevention at **cross domain**

Scale **proactive** and **predictive** maintenance

Walk 

PHASE 3

Autonomy & Optimization

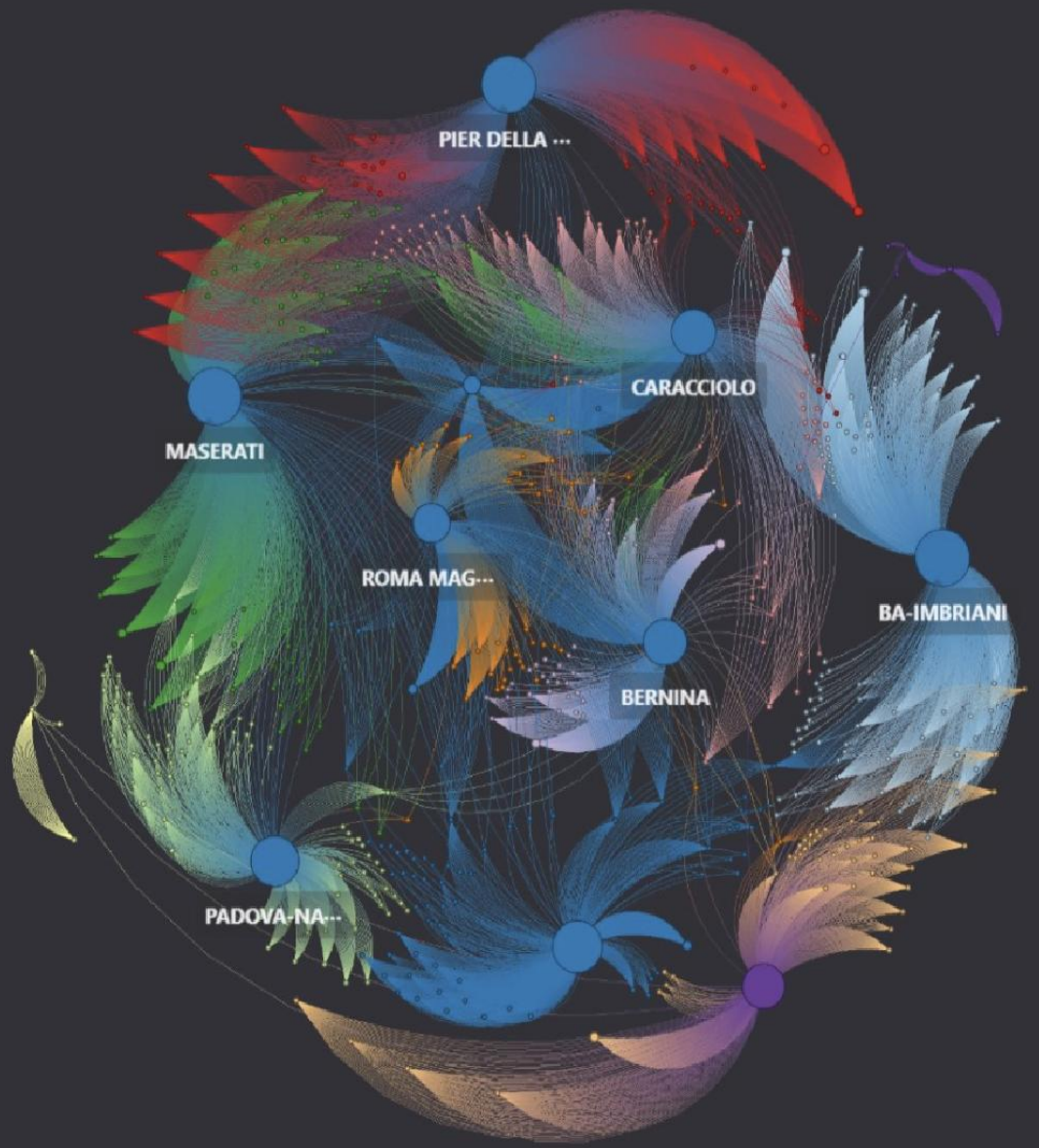
2029 – 2030

Achieve **Level-4 operations** with cross-domain closed-loop orchestration

Enable self-healing and self -optimization

Run 

Digital-twin foundation for agentic AI that delivers reliable end-to-end decisioning and orchestration of autonomous operations



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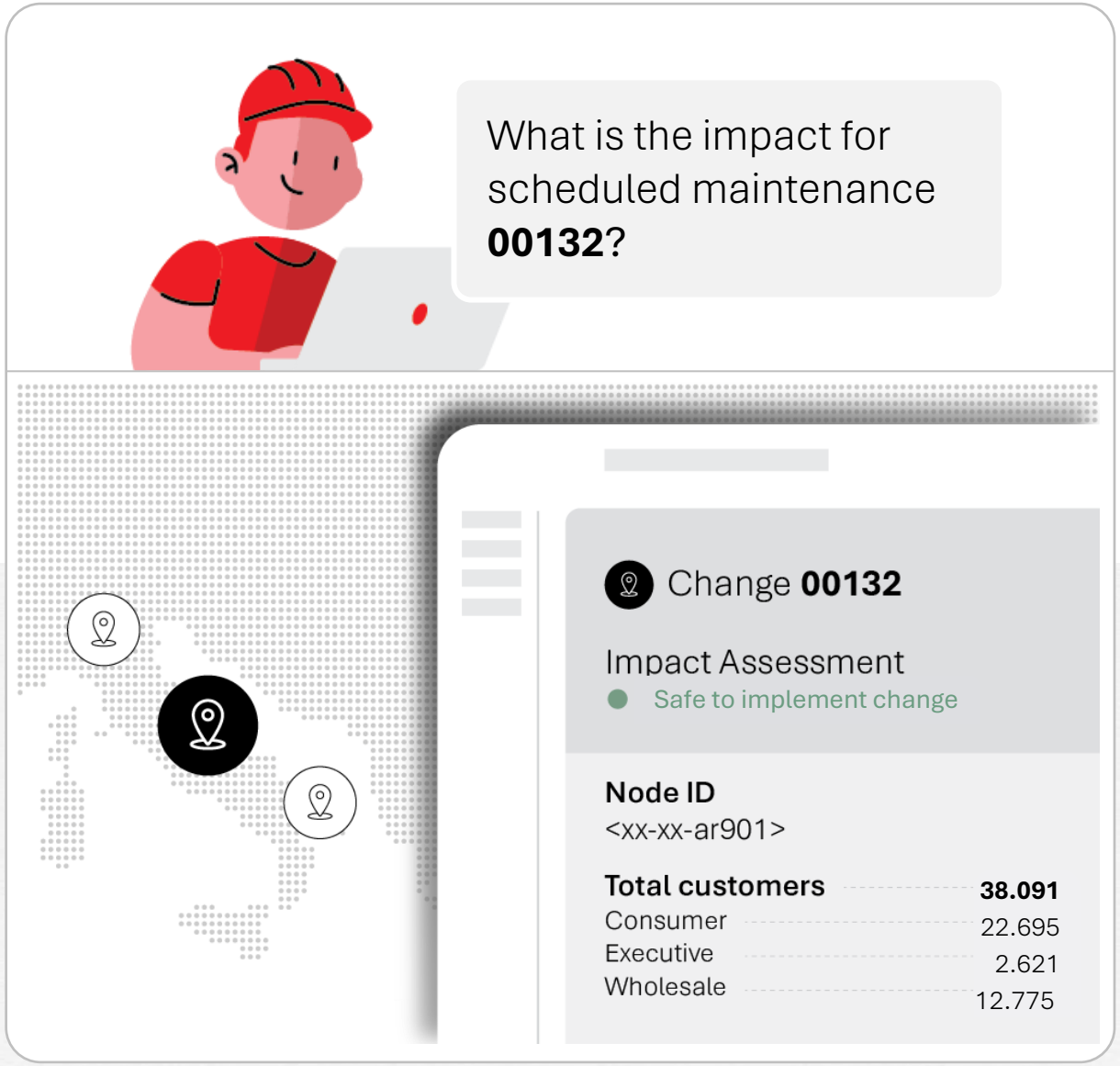
USE CASE

Change Impact Assessment

Assess impact before executing planned network changes using digital-twin foundations



Proactive, Faster Impact Assessment

Foundation for Autonomous Operations

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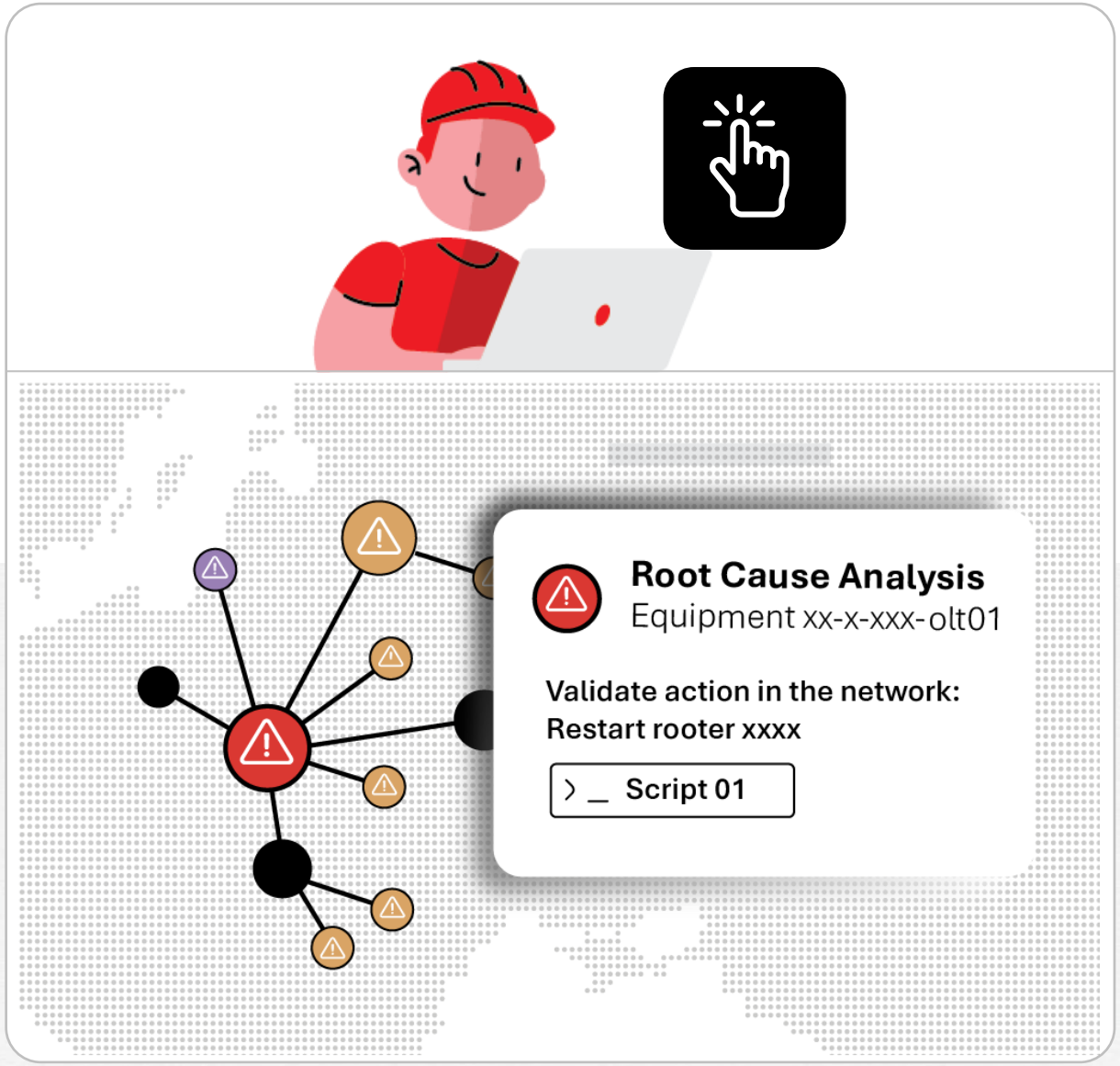
USE CASE

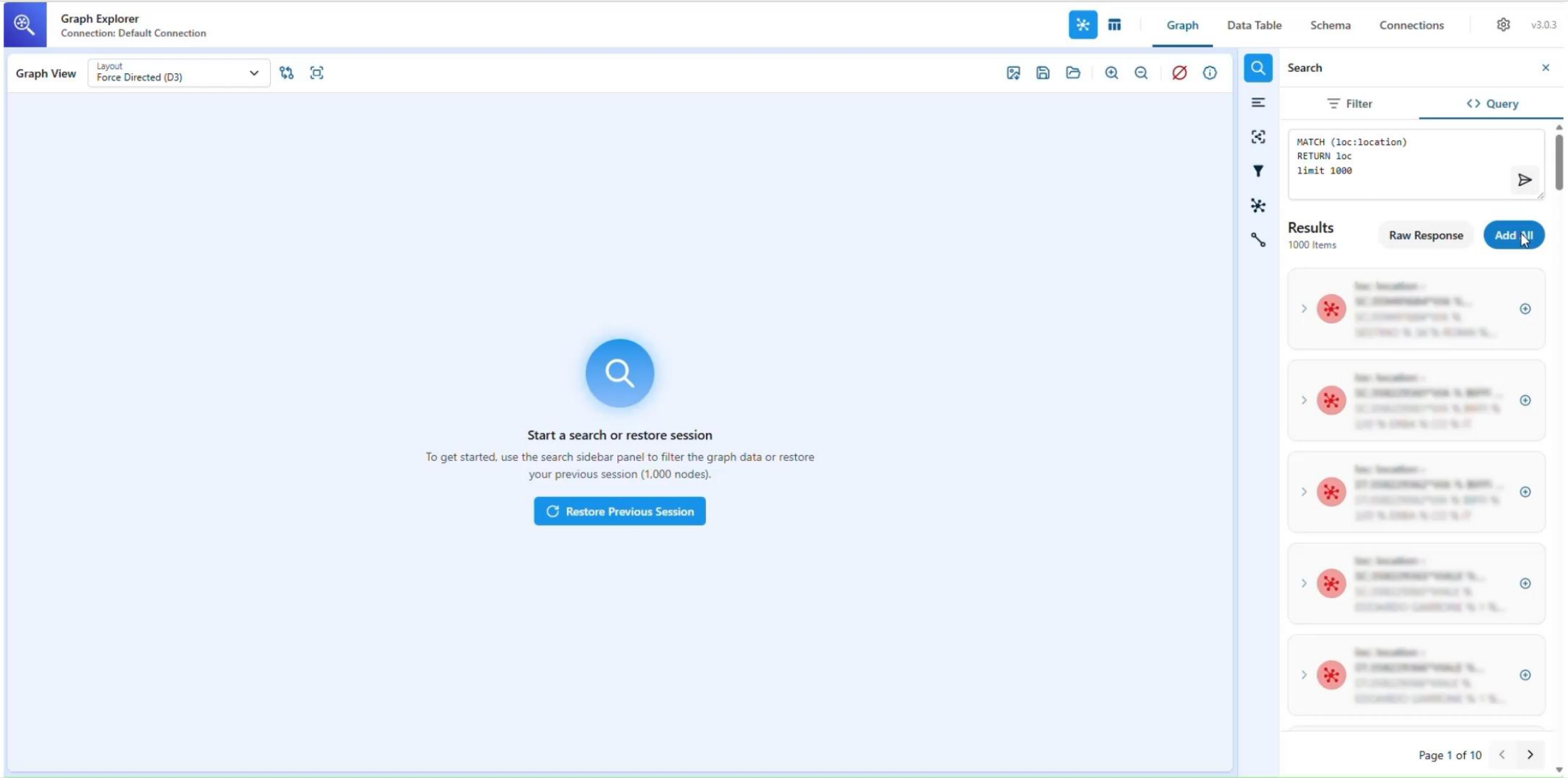
Root Cause

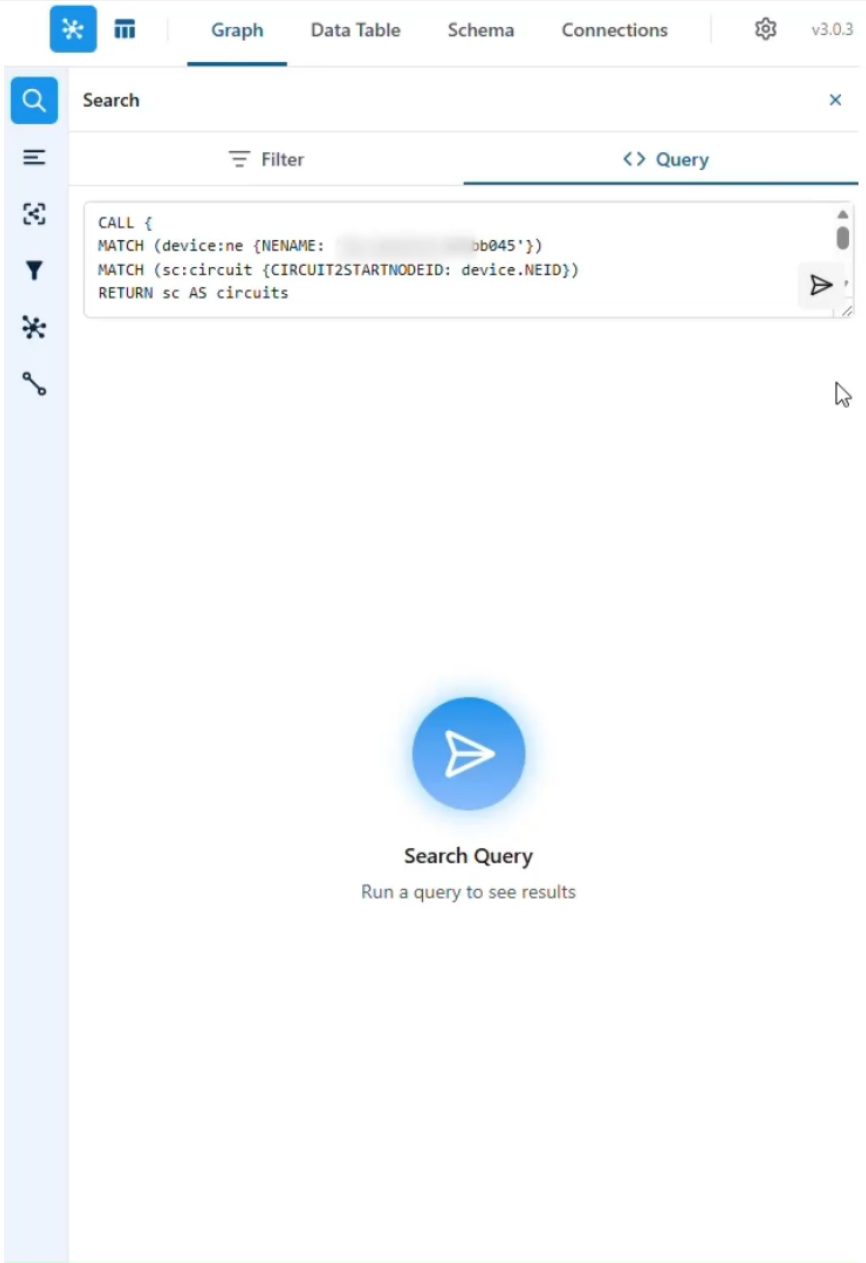
Automated root cause identification combining real-time alarm analytics and agentic reasoning with human validation



Reduce alarm noise

Reduce MTTD/R with explainable RCA


Graph Explorer
Connection: Default Connection
Graph
Data Table
Schema
Connections
v3.0.3
Graph View
Layout
Force Directed (D3)
Start a search or restore session
To get started, use the search sidebar panel to filter the graph data or restore your previous session (1,000 nodes).
Restore Previous Session
Search
Filter
Query
MATCH (loc:location)
RETURN loc
limit 1000
Results
1000 Items
Raw Response
Add All
Page 1 of 10


Graph
Data Table
Schema
Connections
v3.0.3
Search
Filter
Query
CALL {
MATCH (device:ne {NENAME:
b045'})
MATCH (sc:circuit {CIRCUIT2STARTNODEID: device.NEID})
RETURN sc AS circuits
Search Query
Run a query to see results

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Intelligent Automation

building on proven foundations

98M nodes, **119M** edges

Scalable digital-twin

From **30m** to **<1m**

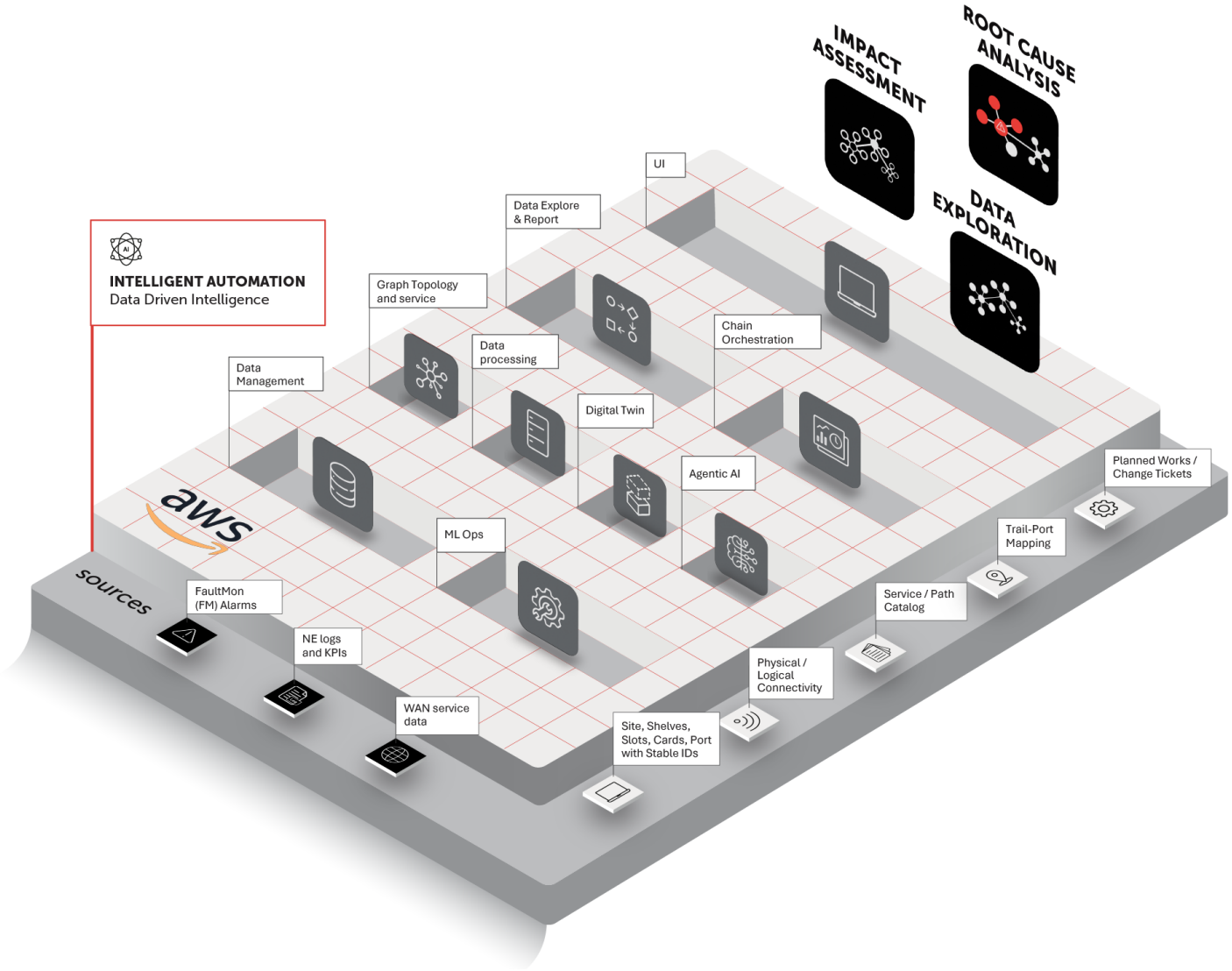
Proactive change assessment

- 85% alarm volume

- 40% MTTR in remote repair

- 20% manual alarm checks

Root cause (target values)



Key Success Factors

validating our Autonomous Networks vision

Use-case driven approach

Deliver tangible benefits quickly while progressively expanding digital-twin foundations

Open architecture for seamless integration

Layered architecture with open APIs to drive efficiency and continuous adoption

Partner with proven experience

Leverage partner with domain expertise to speed deployment and avoid past pitfalls

thank you

Q & A

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Making Data Actionable.

www.celfocus.com