

# Reimagining Network Operations: Autonomous Networks Powered by AIOps

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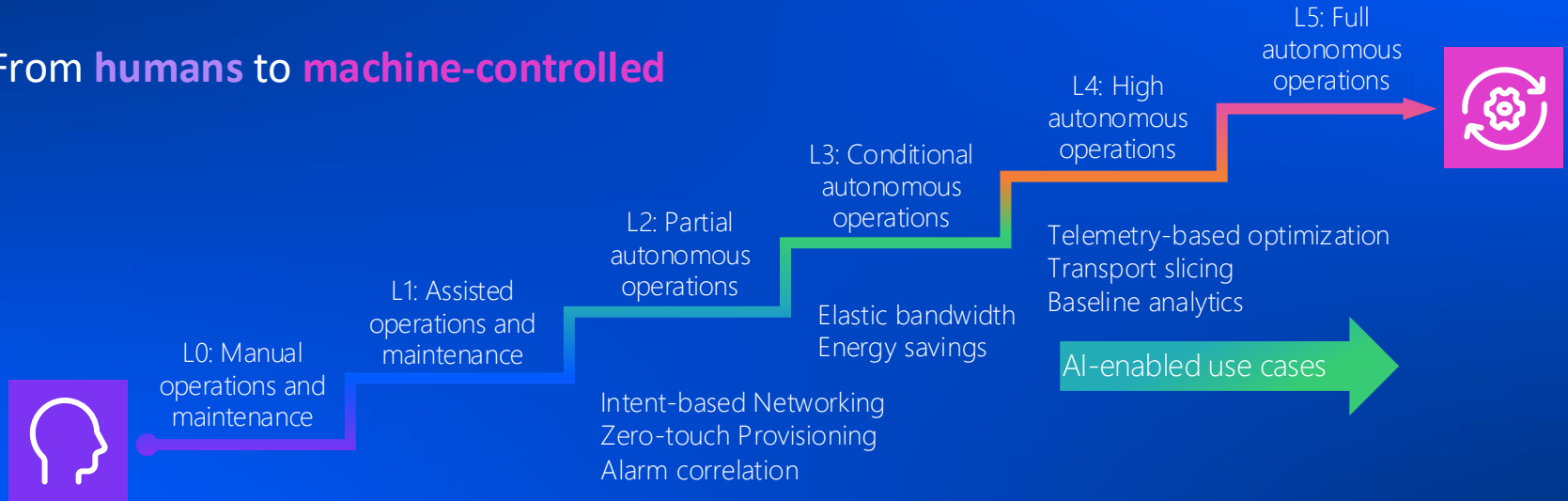
The image features a large, abstract graphic of blue, glossy fabric draped and flowing across the right side. A large white circle is superimposed over the fabric, containing the word "NOKIA" in white, uppercase letters. The background is a solid blue color.

NOKIA

# Autonomous Networks



## From humans to machine-controlled



Source = TM Forum IG 1252

# Autonomous Networks



## From humans to machine-controlled

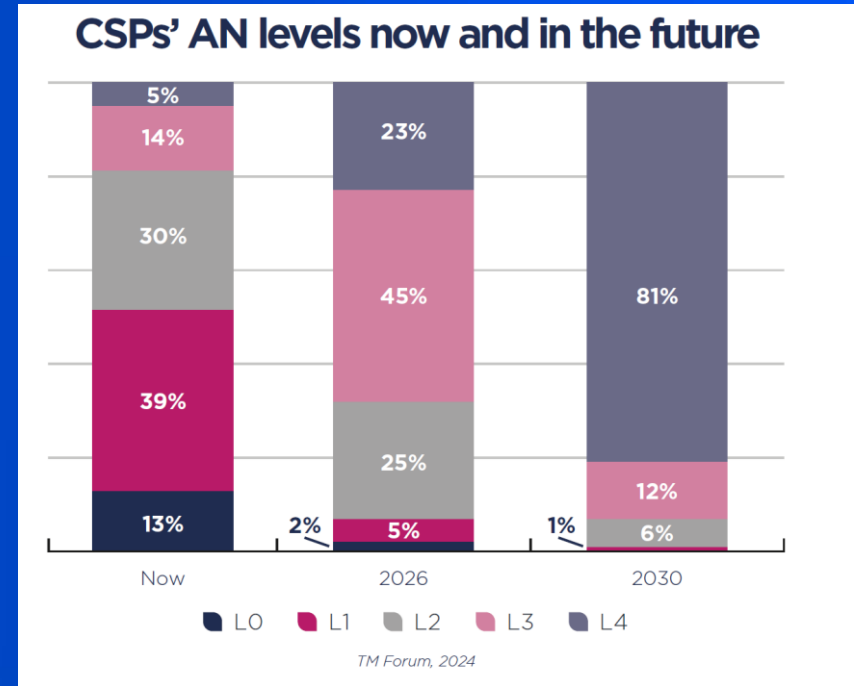


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# Where is the industry as measured by ANL principles

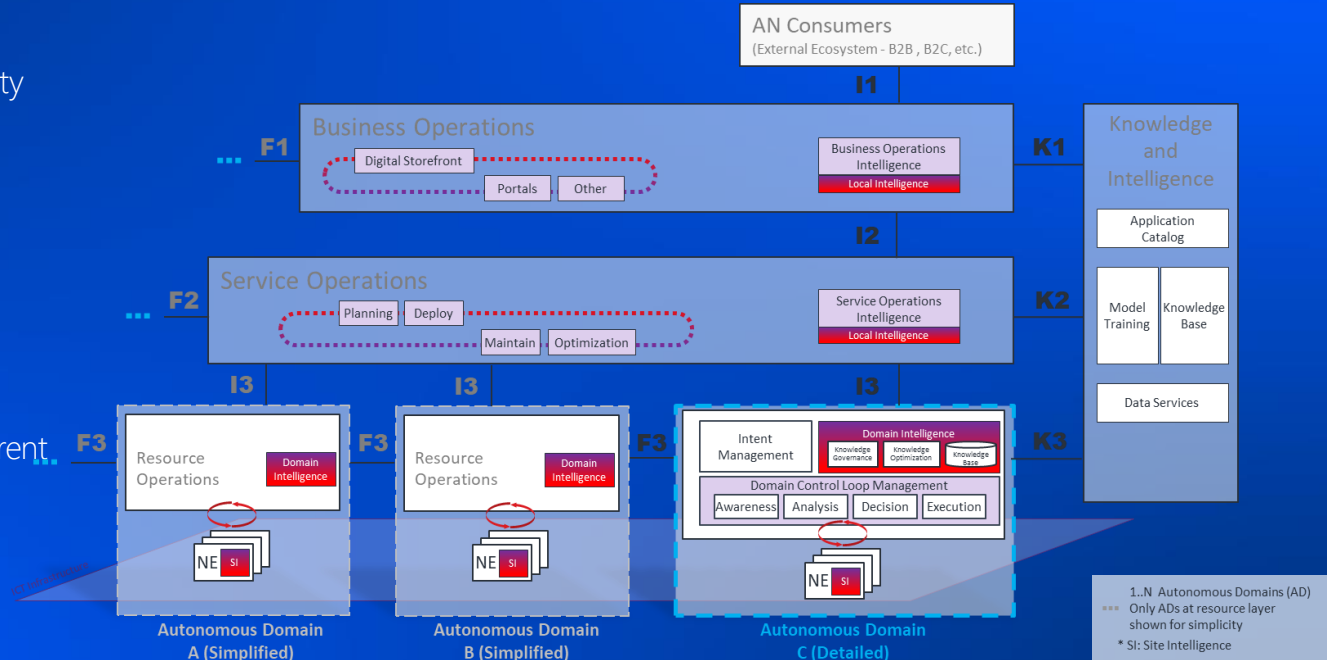
## What analysts say

- Most providers today are assessed at L1/L2 – 69%
- By next year majority aims to shift to L3/L4- 68%
- In 5 years from now, 81% aims to hit L4



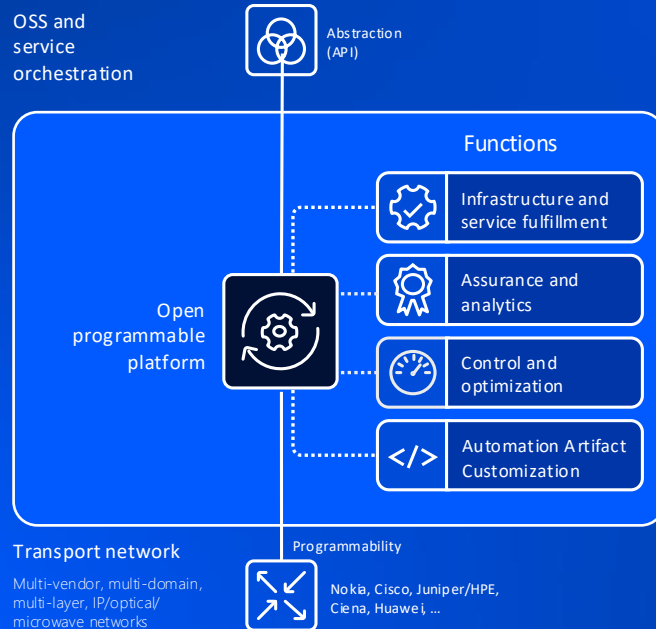
# Key architectural principles of AN

1. Decoupled operational layers supporting operational flexibility
2. Intent-driven, open Interfaces
3. Closed Loop Automation
4. Endogenous Intelligence
5. Single Domain Autonomy
6. Cross Domain Collaboration
7. Supports interactions between Autonomous Domains of different Autonomy Levels

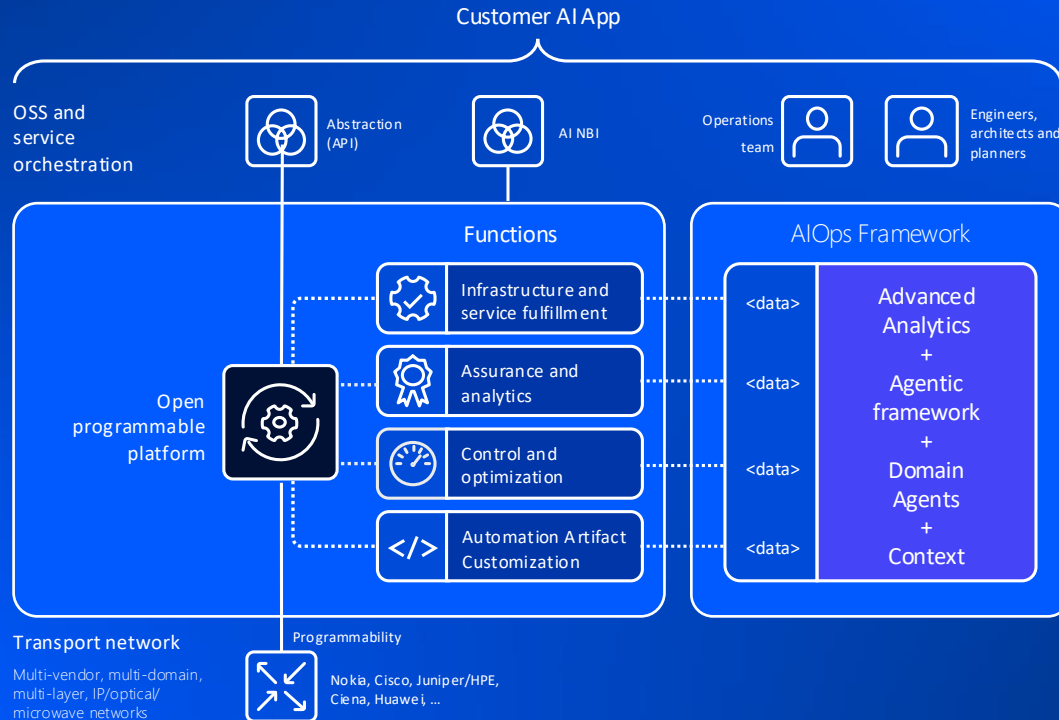


1..N Autonomous Domains (AD)  
 ... Only ADs at resource layer shown for simplicity  
 \* SI: Site Intelligence

# Leveraging AI for network operations

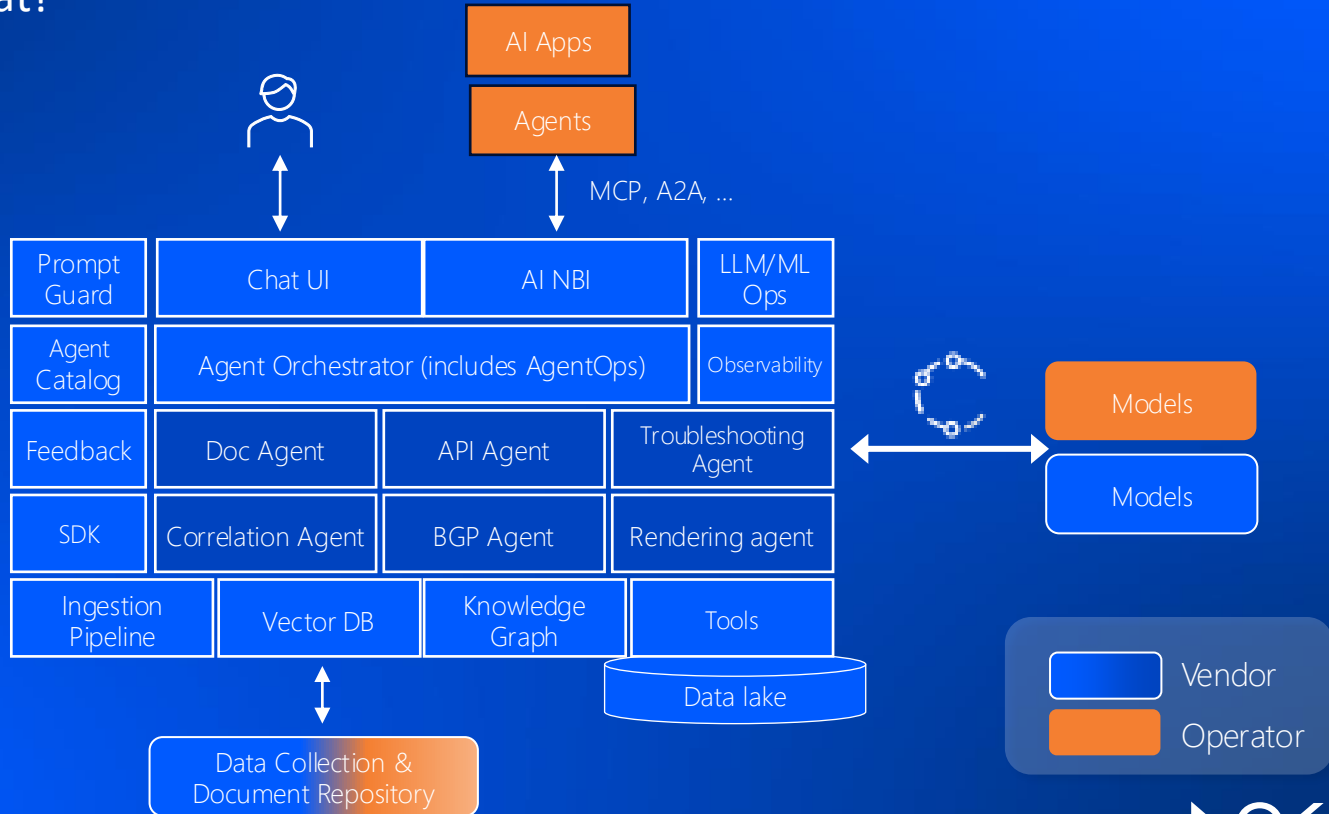


# Leveraging AI for network operations

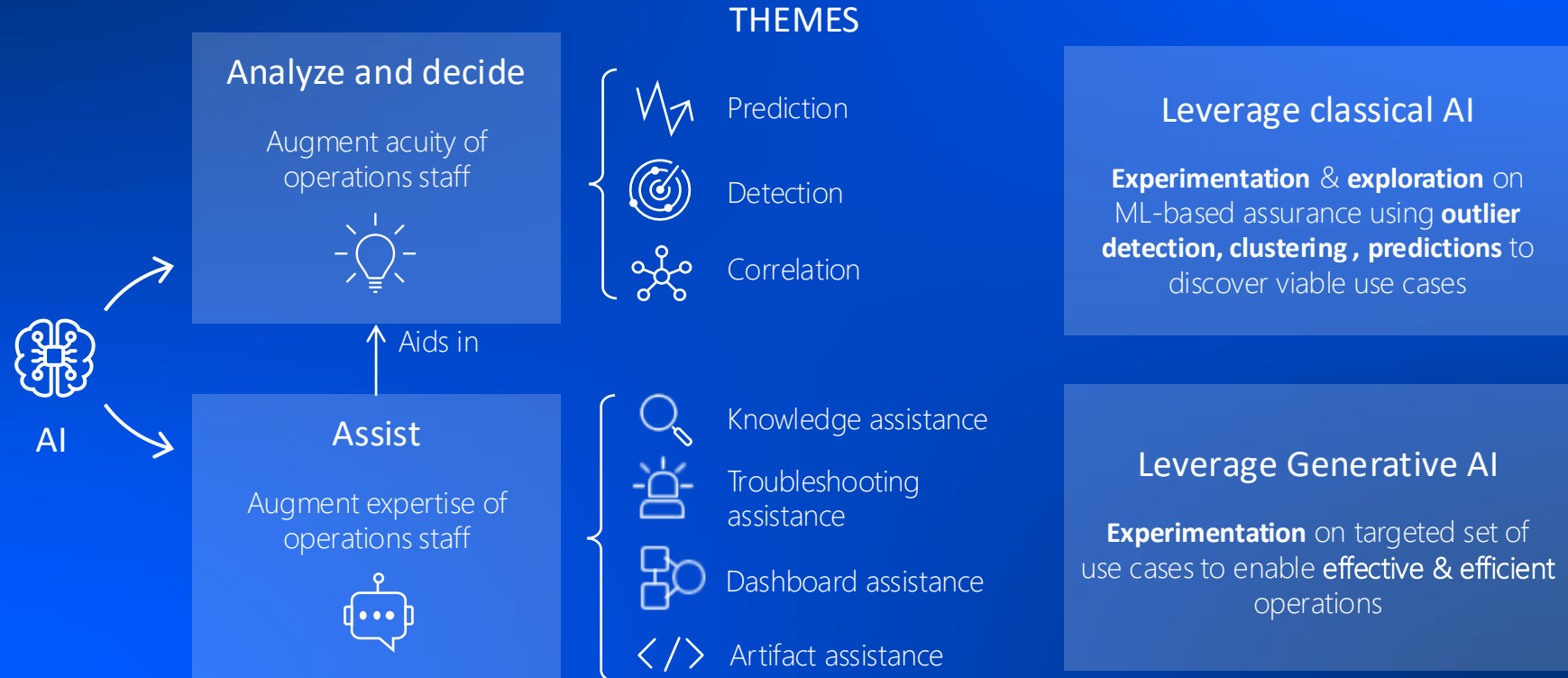


# Agent Framework Architecture

Who provides what?

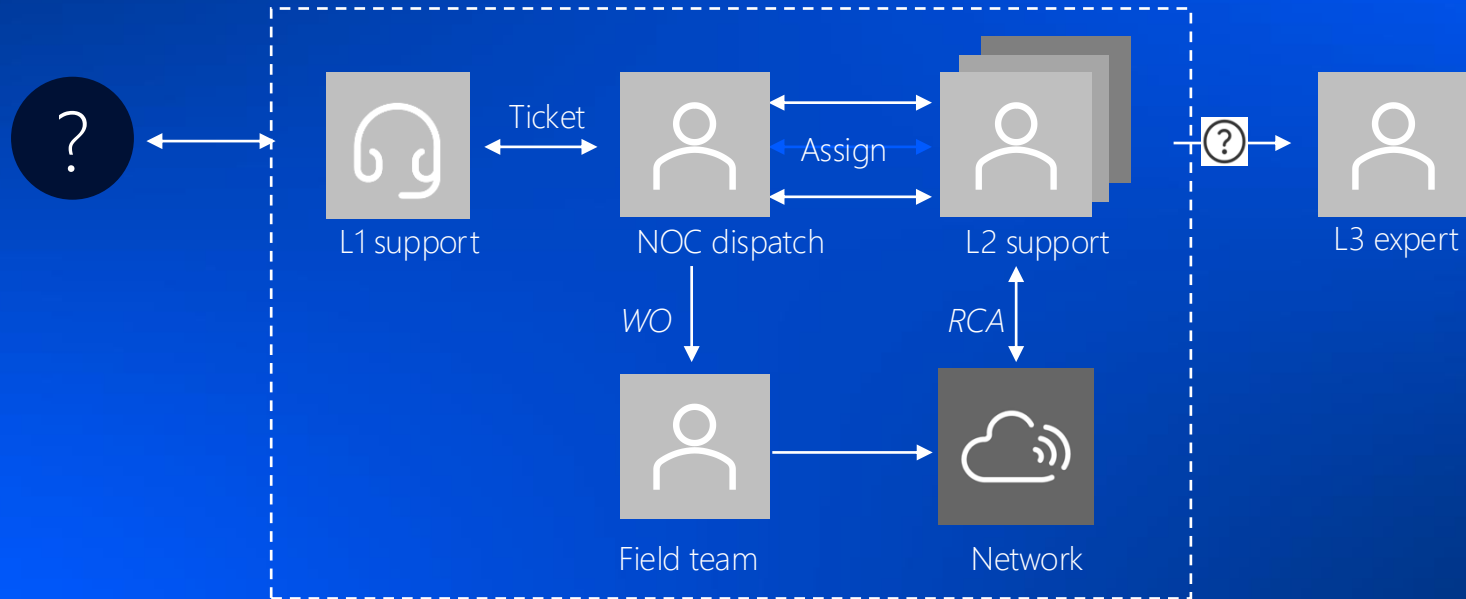


# Augment human intelligence for network operations



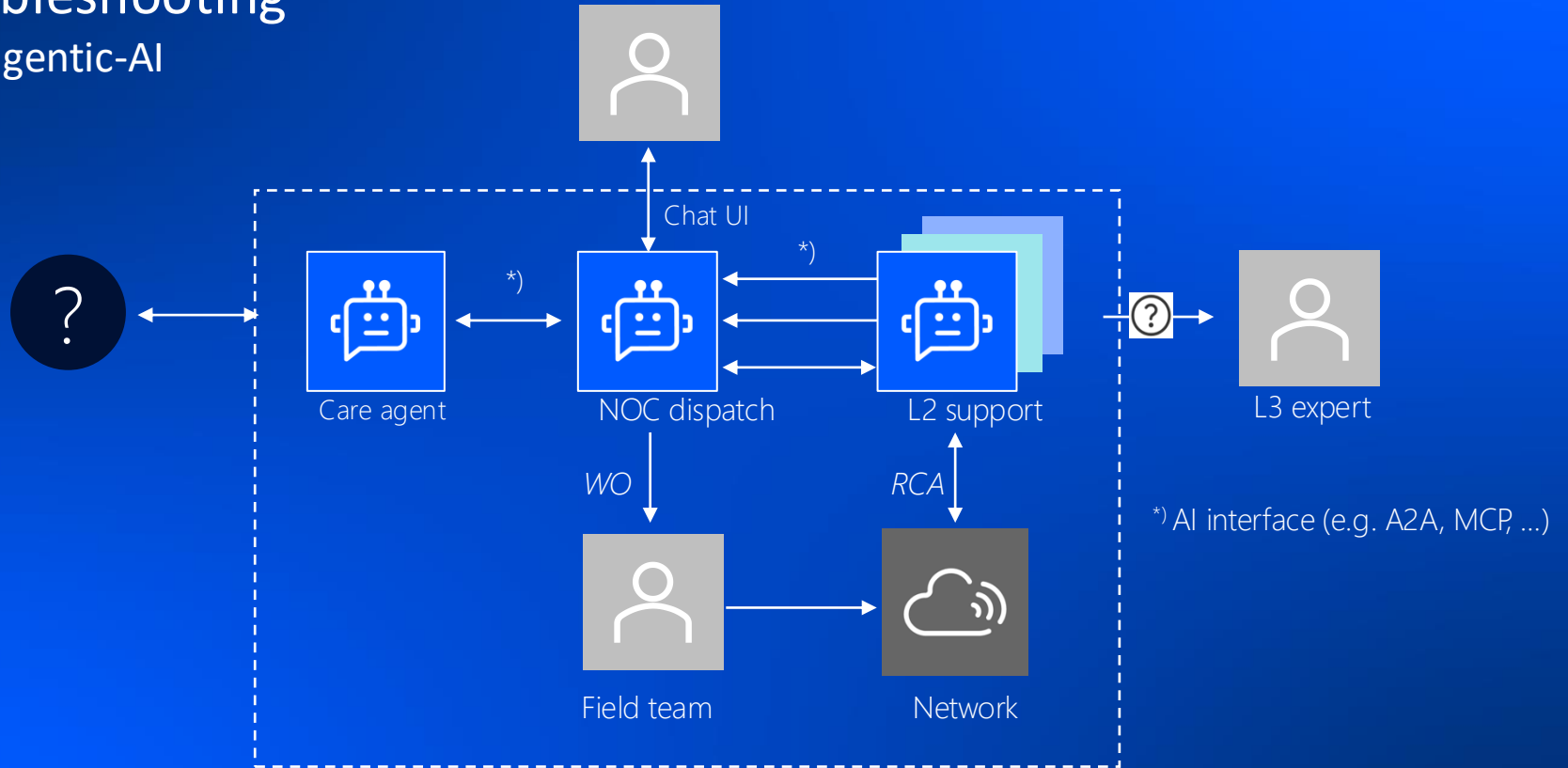
# Troubleshooting

From human-operated ...

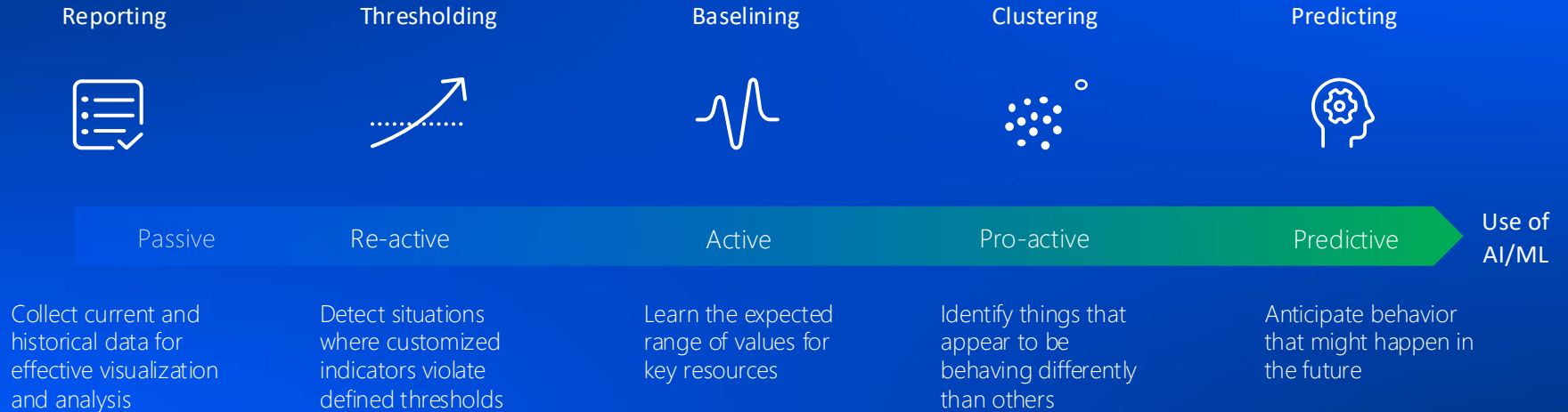


# Troubleshooting

... to agentic-AI

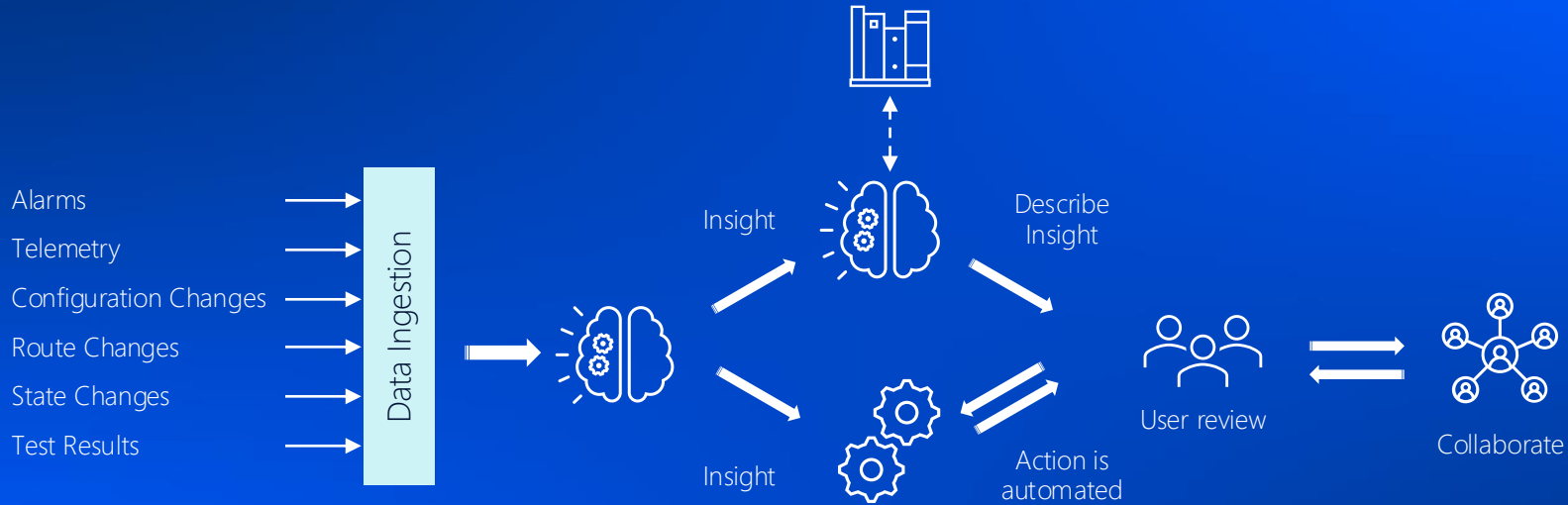


# Evolving analytics capabilities with AI



# Actionable intelligence

## Pro-active fault management



Vast amounts of data

- Identify trends
- Correlate data
- Filter short-lived events

Comprehensive reports and recommendations

- User review and action
- Feedback used for reinforcement learning

Insights shared via collaboration platforms

NOKIA