Moonshot Catalysts

AI-driven network automation for traffic and service resilience – Phase II

AN L4 challenge: Empowering Level 4 autonomous networks to self-optimize, self-heal, and deliver unparalleled efficiency with zero-touch intelligence. - Reduce operational costs by 30% through automation

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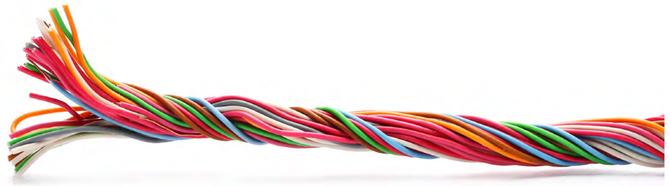

Champions:

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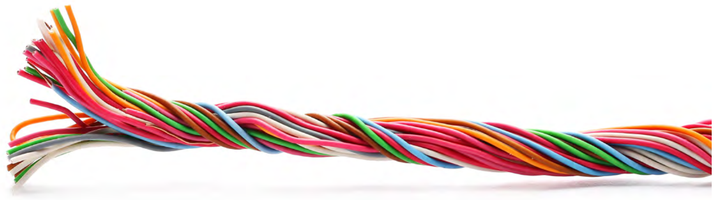

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The solution:

This Catalyst advances AI-driven network automation to deliver self-healing, zero-touch networks that improve traffic and service resilience across global telecom infrastructure. By enabling predictive, intent-based operations and aligning with TM Forum's ODA and Open APIs, it lays the groundwork for Level 4/5 autonomous networks and next-generation service delivery.

Addressing the challenge:

This Catalyst project transforms telecom operations through AI-based automation to boost network resilience, reduce costs, and unlock new revenue in B2B2X models. It addresses disruptions like cable cuts and radio interference, which often degrade service and increase manual troubleshooting costs. Key features include:

- Autonomous, Intent-Based Network Management for optical, 5G, and cloud edge infrastructure
- AI Technologies: Uses Generative AI, LLMs, and digital twins to interpret intent and automate responses
- Automated Capabilities: Fault detection and resolution, real-time topology visualization, capacity planning and multi-domain orchestration
- Integration with TM Forum Open Digital Architecture (ODA) for interoperability and scalability

This AI-powered Catalyst redefines network operations—improving resilience, reducing costs, and accelerating innovation for telecom providers.

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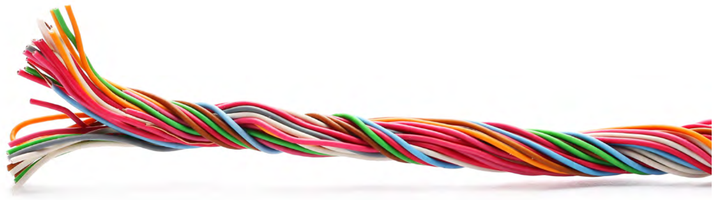

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This Catalyst cuts ops costs by

30%

Boosts resilience

80%

Speeds time-to-market

60%

Enables AI-driven predictive service delivery.

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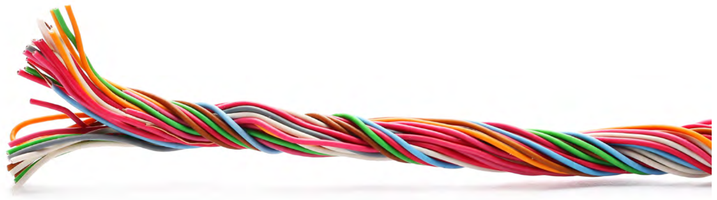

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Delfi Gunardy
Manager Connectivity & Internet Based Platform

Telin by Telkom Indonesia

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In today's hyperconnected world, disruptions like the West Africa cable outage, along with many others, are more than technical failures, they affect lives, economies, and national resilience.

Our Moonshot Catalyst was purpose-built for such critical moments, leveraging AI-driven, real-time traffic rerouting to ensure continuity of service before end-users even become aware of a disruption. More than just a technical innovation, our Catalyst project stands as a testament to what's possible when telco leaders unite with a common purpose.

The level of collaboration, technical, strategic, and vision in the team has been nothing short of extraordinary, strategically aligned, technically bold, and united by a shared vision. This is what the future of autonomous network operations looks like.

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