

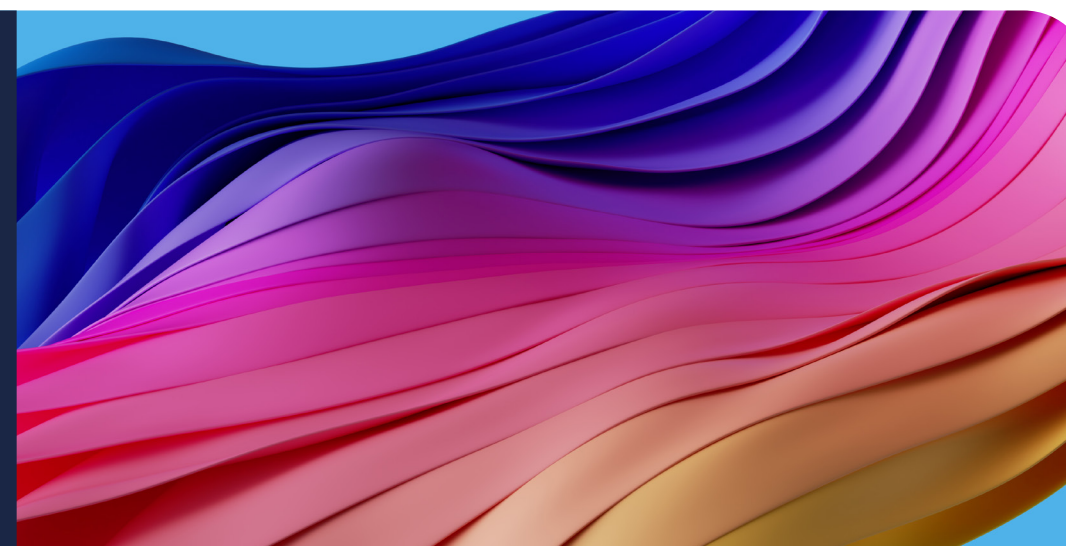
Predictive Intelligence for Optimized Networks & Enhanced Experience Resilience (PIONEER)

Federated AI & Data democratization for predictive & sustainable operations.



The solution:

This Catalyst is building a solution to break down data silos, giving telecom companies complete, real-time visibility across their networks. This unified data fabric enables AI-driven insights for smarter, more resilient operations.



Addressing the challenge:

This Catalyst's A-B-C-D Autonomous Network Framework simplifies complex telco operations into four powerful components:

A – AI Engine: Acts as the brain of the network, using real-time AI, digital twins, and environmental data (e.g., weather, traffic) to predict, detect, and resolve issues autonomously—enhancing service assurance and reducing MTTR.

B – Broker Layer: A real-time intelligence layer that processes over 3 million events per second, enabling instant, cross-domain orchestration and AI-driven decision-making for agile, low-latency operations.

C – Common Telco Cloud: A scalable, open-standard cloud platform built for AI and CNFs, offering consistent deployment across network layers, GPU acceleration, and rapid service rollout with vendor neutrality.

D – Data Normalization Layer: The unified data core that aggregates structured and unstructured data, boosts AI/ML performance, supports real-time and batch analytics, and cuts storage costs by up to 80%.

Together, A-B-C-D forms a strategic foundation for autonomous, intelligent, and sustainable telco networks—driving better customer experience, operational efficiency, and future-ready transformation.



This Catalyst tackles a real and urgent challenge faced by CSPs: fragmented, expensive, and siloed OSS platforms that limit innovation, increase operational cost, and slow down transformation.

In partnership with Globe, Singtel Group, and Dell Technologies, this project establishes a phased, actionable OSS transformation blueprint that CSPs can adopt — starting from low-risk quick wins to full-stack, AI-native OSS enablement.

Dennis R Abella

VP and Head of Network
Digitalization



Globe



Business impact:

90% MTTR reduction

>30% TCO cut

80% CX Improvement

95% data accuracy

Champions:



Globe



OPTUS

Participants:

