



The bridge to possible

CX Customer Success: Automation is Fueling du-Telecom Digital Transformation

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CSSSPG-1065

Cisco Webex App

Questions?

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Webex spaces will be moderated until February 24, 2023.



Agenda

Who is du? and what is the mission?

du Automation Journey

Extending automation footprint across du network domains
(Transport, Mobility, GPON, IGW, DC ... etc.)

How Cisco CX Value delivery model was adopted to fulfill du strategic objectives

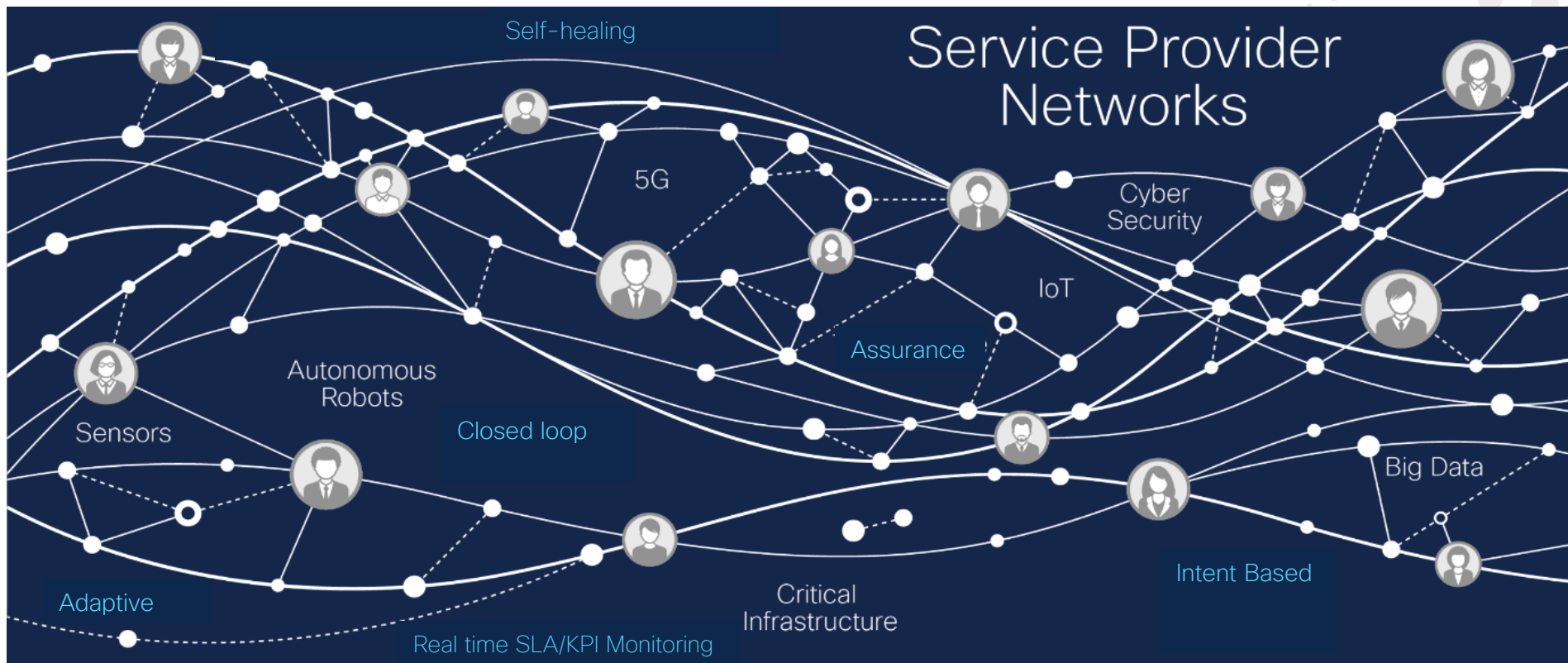
Embracing DevOps culture and mindset to deliver value faster and incrementally

Automation impact, and business value realization

Q&A



"To have a Customer Centric *Autonomous Network*"





Foundation

"
Having the building blocks"



Real time Topology



Cleansed data (Internal/external)



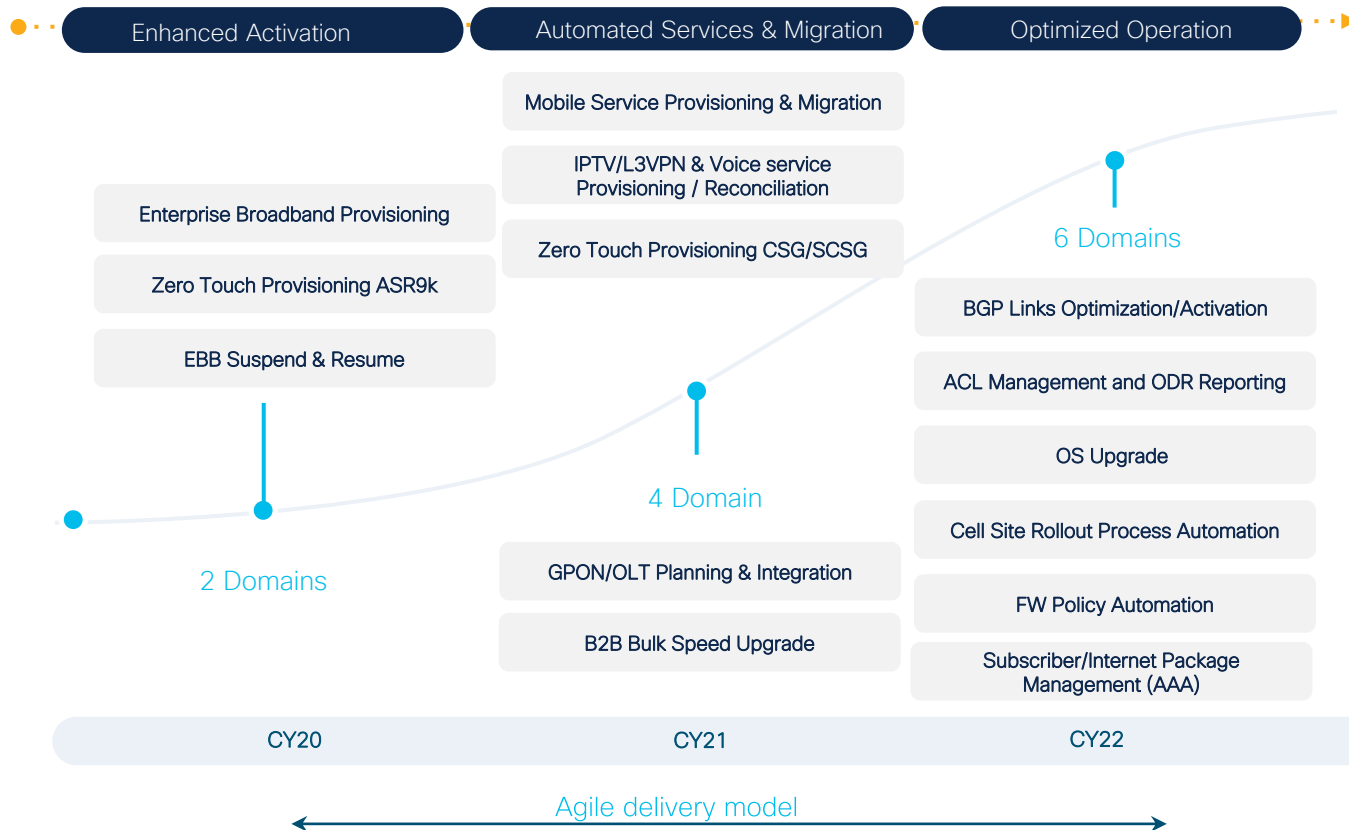
Standardized network deployment



Automation Journey



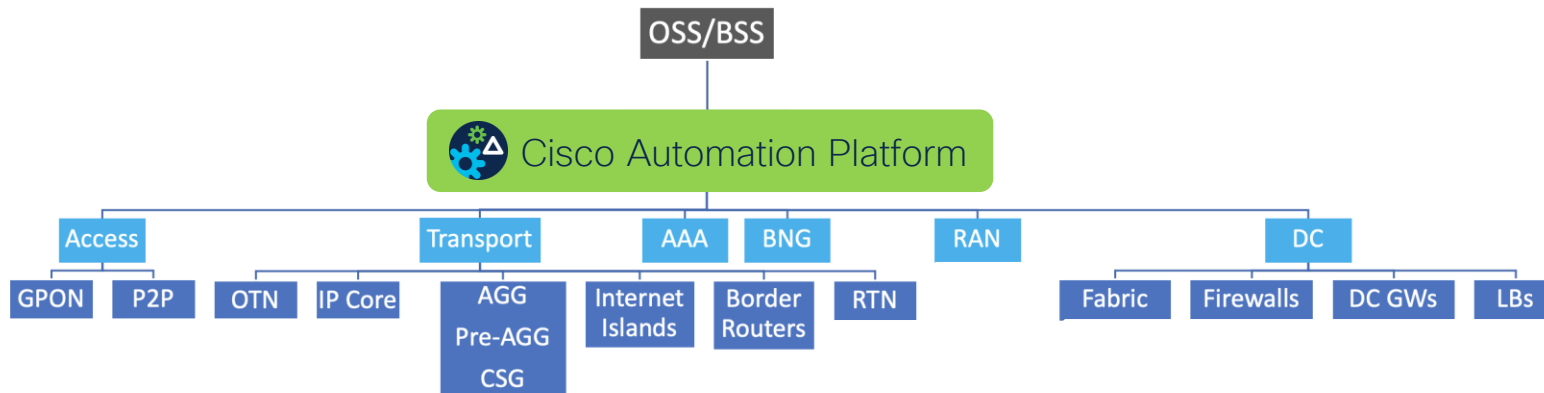
Automation Journey





Automation Domains

With NSO as the Master Orchestrator



NOKIA



ERICSSON

ARISTA

FORTINET

JUNIPER
NETWORKS

CITRIX



CISCO *Live!*



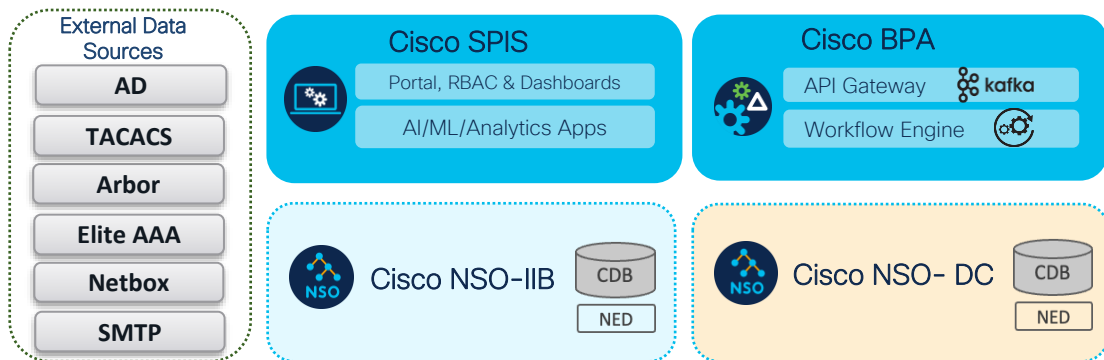
Automation High-level Architecture



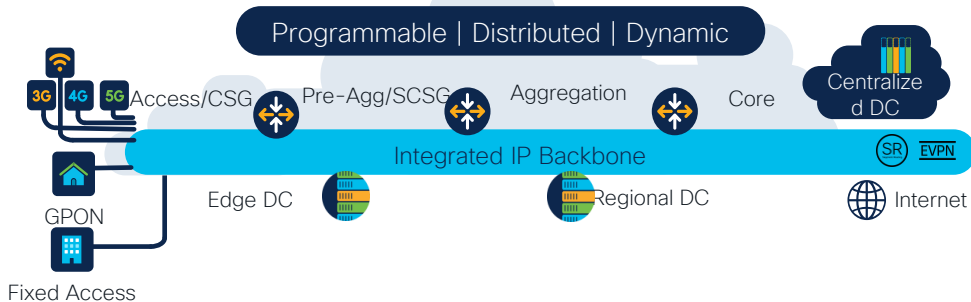
All du Networking and Operation Teams

E2E - NetCracker

Multi-Domain
Orchestration



Multi-Domain
Network



Accelerated
Service
Fulfilment



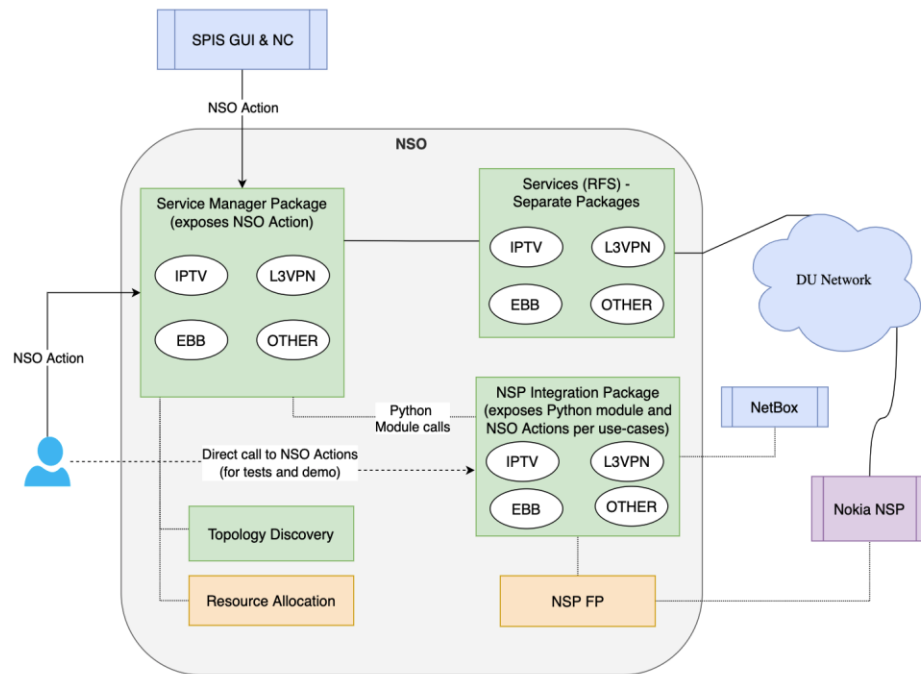
Eliminate
Human Mistakes



Faster Time To
Market

NSO modularity and code reusability

NSO Modules, Components and Integrations



Abstraction of Functions



Dynamic modules serving multiple services



Splitting Business logic from resources facing logic



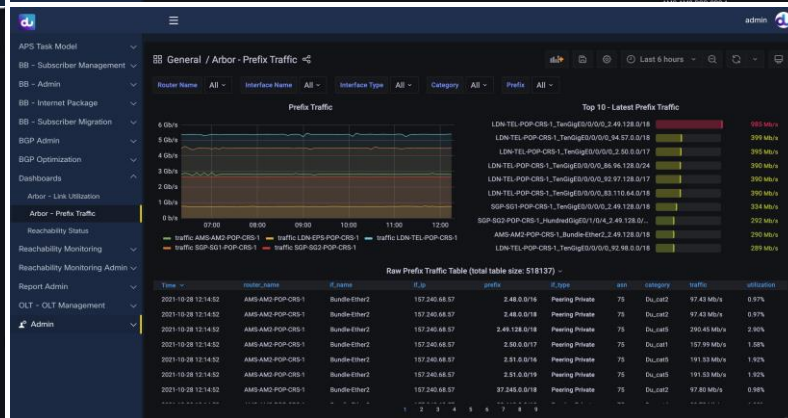
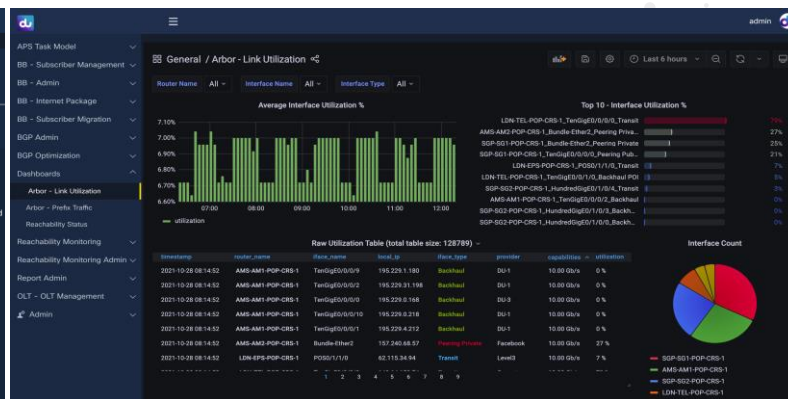
Smaller modules used on demands fasten services development and increase velocity



Follow Agile Methodology to generate potential working increment every sprint

UOP – dashboards samples

The screenshot shows the Cisco UOP dashboard interface. On the left is a navigation menu with categories like 'Infra Structure', 'Enterprise', 'GPON - OLT', 'Mobile', 'IGW', 'Broadband - AAA', 'Dashboards', 'Reachability Monitoring', 'Admin Settings', and 'OU Admin'. The main area displays a 'MODULE' list with options to 'Add' or 'Delete'. A table lists various modules and their corresponding menu items, such as 'APS Task Admin', 'BB - Admin', 'BB - Internet Package', 'BB - New Promotion', 'BB - On-Demand Speed Test', 'BB - Subscriber Management', 'BB - Subscriber Migration', 'BB - Subscriber Search', 'BGP Admin', and 'BGP Optimization'.



Cisco CX Value Delivery Model



Automation Portfolio



Vision

Why?

Strategic Themes

Improve time to market through automated service provisioning

Automate Mobile Site Migration

Automate Enterprise Broadband Services

Value



Identification of strategic themes and priorities



Identification of OKRs



Benefits realization and adoption tracking



Executive

What?

Objectives and Key Results (OKRs)

Current State

Target

Time 2 Market/New BB Service Provisioning

5 Days

3 Hours

Improve Bulk Speed Upgrade Time (25K)

3 Month

9 Hours

Reduce EBB Suspend/Resume Time

15 Min

2 Min

How?

Architecture

UI

Unified Portal/User Interface (Cisco SPIS)

Use Cases

Use case #1

Use case #2

Use case #3

Use case #4

Use case #n

Automation Platform



BPA



Analytics Automation Platform



SPIS

du Network



NSO



3rd Party Components



3rd Party Components



3rd Party Components



3rd Party Components



Architecture roadmap evolution



AMO

Who?

Value Streams and supporting ARTs

Transport Network Automation

DC Automation

Scrum1

Scrum1

Scrum8

Scrum2

Day2 Support Team



Value stream and ARTs Identification



ARTs planning and launch



Design, develop, test and deploy



DevOps

Agile at scale – *in numbers*



80+ Team members
10 Scrum teams



100+
Sprints delivered



40,000 +
Hours of code development



50+
Use cases and services



2000+
Automated use cases

CICD / DevOps

Strategic Vision

Business Objectives

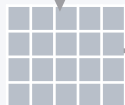
Operations Objectives

PLAN



du – CISCO
AMO

Product
Backlog



Executable
Backlog



Sprint
Backlog



Operations Improvement

Continuous Requirements Gathering



Continuous Architecture & Design



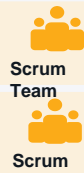
Continuous Release Planning



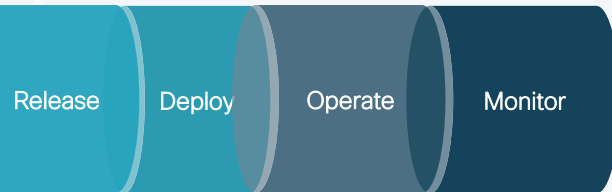
DevOps

Operations Issues

OPS



Continuous Delivery Pipeline



Continuous Release, Deployment & Monitoring



Ops Team

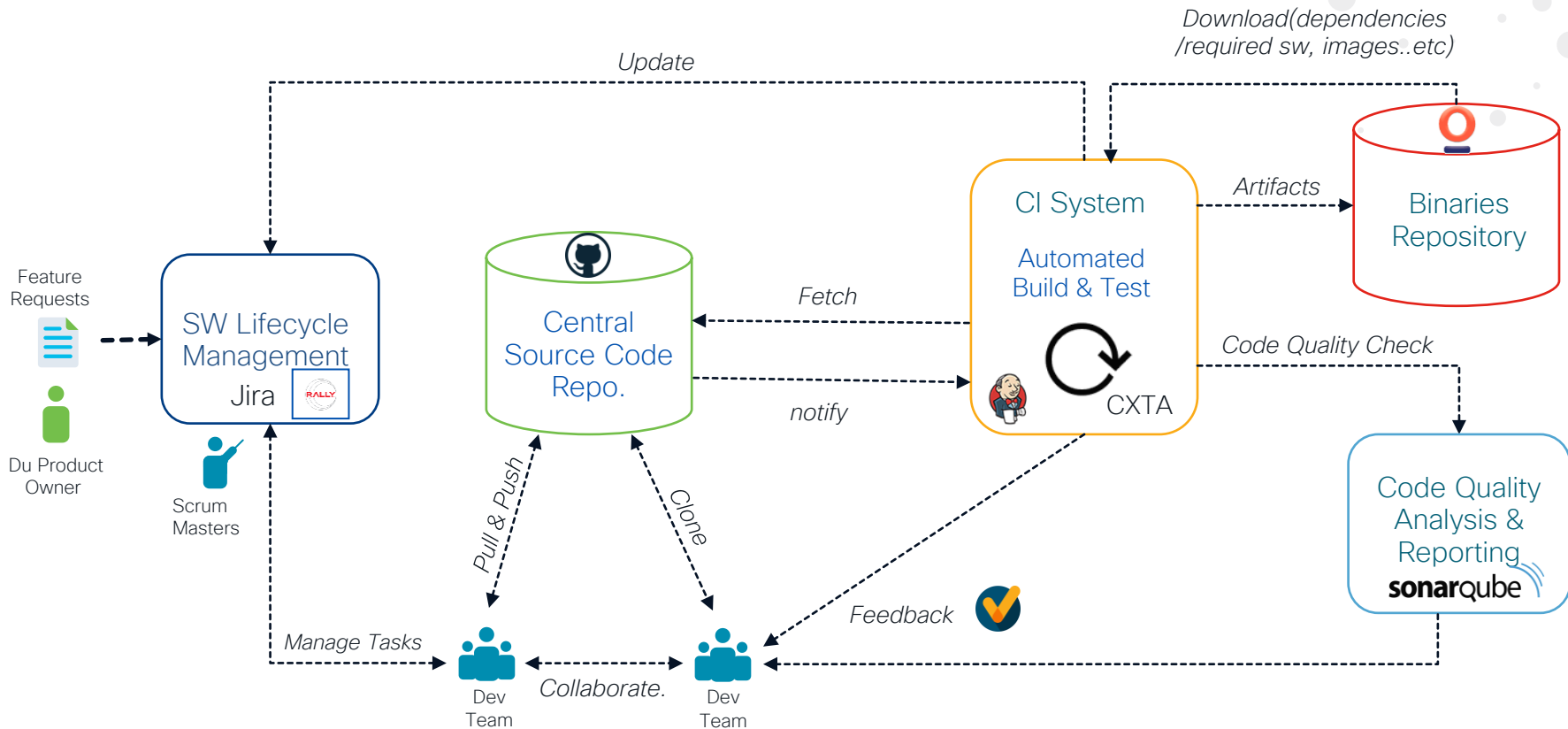


SRE Function



Collaboration, Shared
Goals, Common Tools

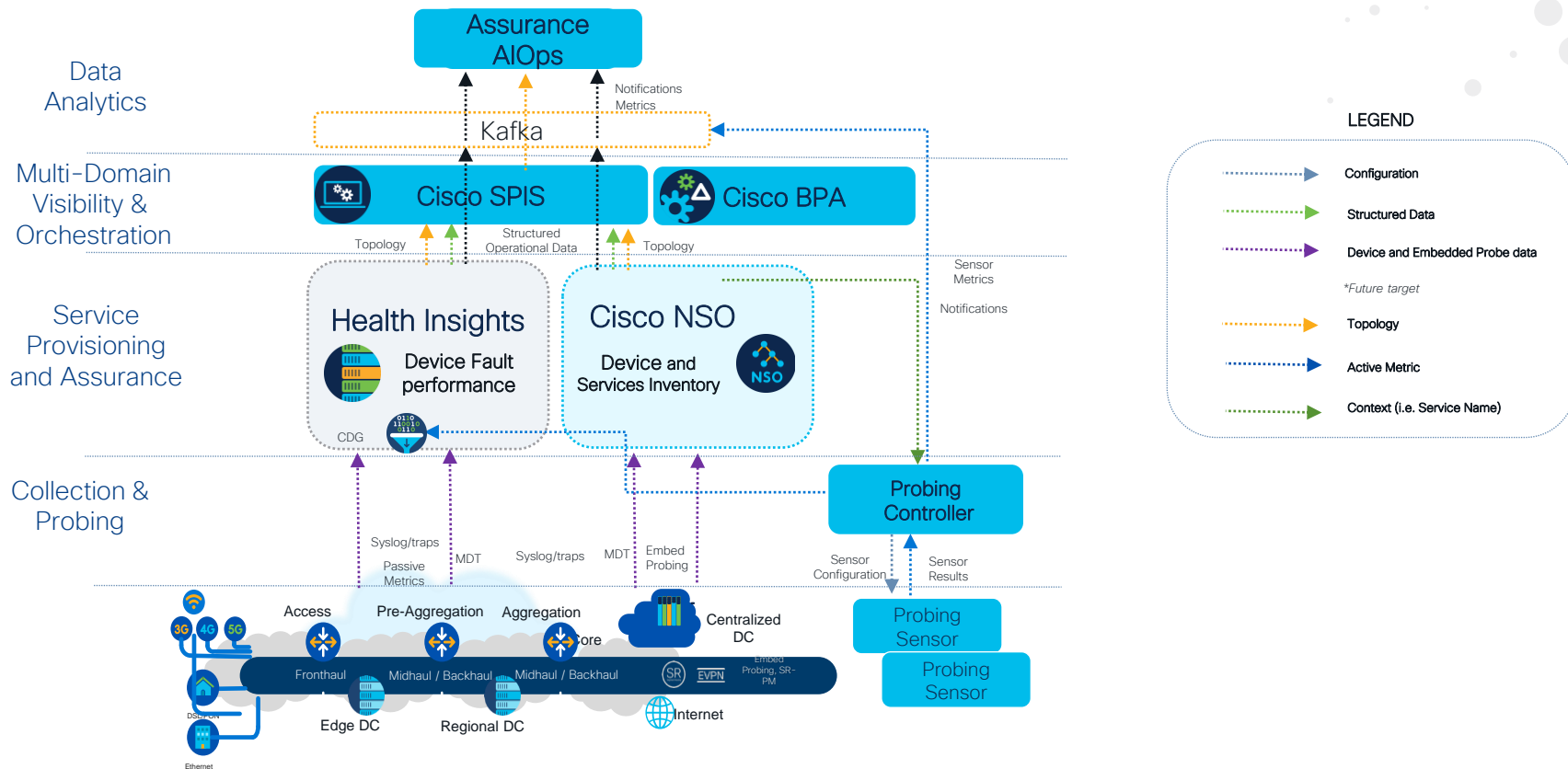
CICD platform functionality



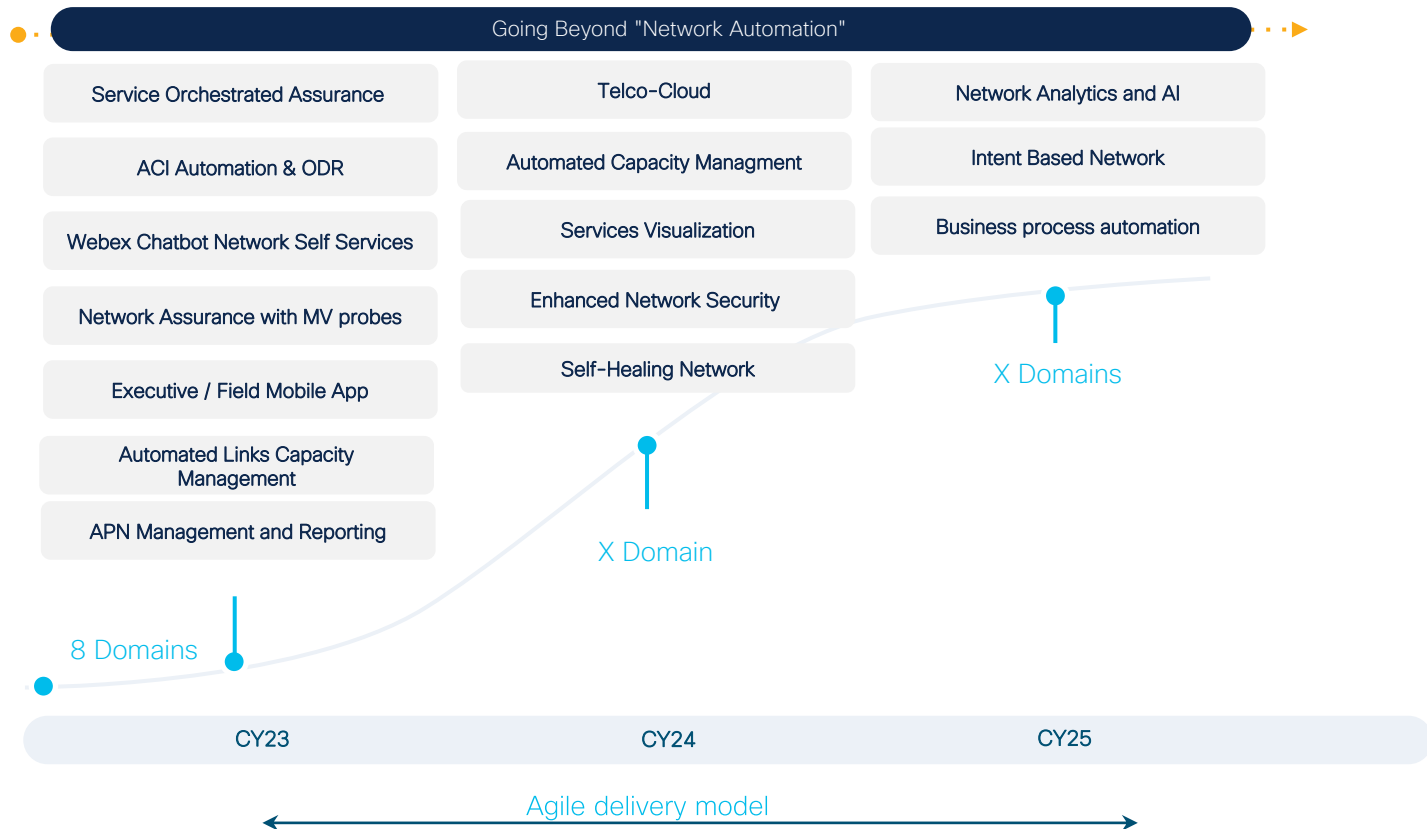
Looking ahead



Automation 2.0 – Architecture evolution



Journey continues ...!



A decorative graphic in the top right corner consisting of numerous circles of various sizes and colors, including shades of blue, cyan, orange, and red, scattered across the dark blue background.

"Show me the money !"

Business value realization

Use Case	Before Automation Baseline		After Automation Improvement
ACL Rules Provisioning	5 min		2 sec
Mobile Service Provisioning	15 min		5 min
Mobile Service Migration	20 min		10 min
Zero Touch Provisioning	90 min		20 min
BGP Optimization and Activation	4 Hours		5 min
ODR Reporting	3 Weeks		30 Min
Bulk Speed Upgrade	3 Months		9 Hours

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The bridge to possible

Thank you

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ALL IN