



# Cisco Crosswork Network Automation

Cisco Knowledge Network Webinar Series  
May 2018

<https://www.cisco.com/go/crosswork>

# Session Goals

- Recap of last session
- Defining Network Automation
- The Cisco Crosswork Network Automation Portfolio
- Key Outcomes Enabled By Crosswork Network Automation
- Demo

# Recap

## Business Drivers

- Growth and Complexity
- Cannot scale Opex to match
- Automation can improve Customer Experience

## Technology Drivers

- Telemetry
- Data proliferation
- Machine Learning

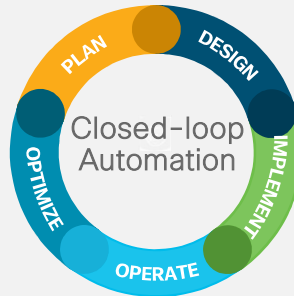
# Defining Network Automation

# How We're Defining SP Network Automation

We take isolated, repetitive human actions, previously in different functional groups



That span the breadth of the full lifecycle of operational disciplines



And embed this intelligence into software, using machine learning to improve human-to-machine and machine-to-machine control



# As Is and Future State

## Before Network Automation

### Macro Issues

- Single vendor islands of control
- Multiple separate operations
- Scale Challenged

### Limiting Capabilities

- Disjoint data sources and formats
- Limited complete network knowledge
- Event Correlation Challenged
- Custom scripts for large changes



## After Network Automation

### Macro Solutions

- Multi-vendor supported
- Closed-loop operations
- Mass scale



### Break-away Capabilities

- Advanced data consolidation
- Machine learning and analytics
- Clear event correlation
- Change automation



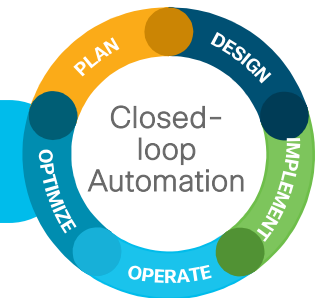
Enabling networks to  
self-heal and self-optimize

# The Cisco Crosswork Network Automation Portfolio

# Cisco Crosswork Network Automation

Crosswork Network Automation

The first closed-loop, mass scale automation solution that embraces multi-vendor networks



**Change Automation**

Application that creates extensible device workflows to reduce human error

**Health Insights**

Uses smart monitors to capture device health and change network behavior

**Network Insights SaaS**

Cloud based analytics platform focused on network insights

**Situation Manager**

Event correlation tool that leverages social troubleshooting to reduce MTTR

**Data Platform**

Unified data collection tool that brings data lake capabilities to automation

Built on a strong foundation

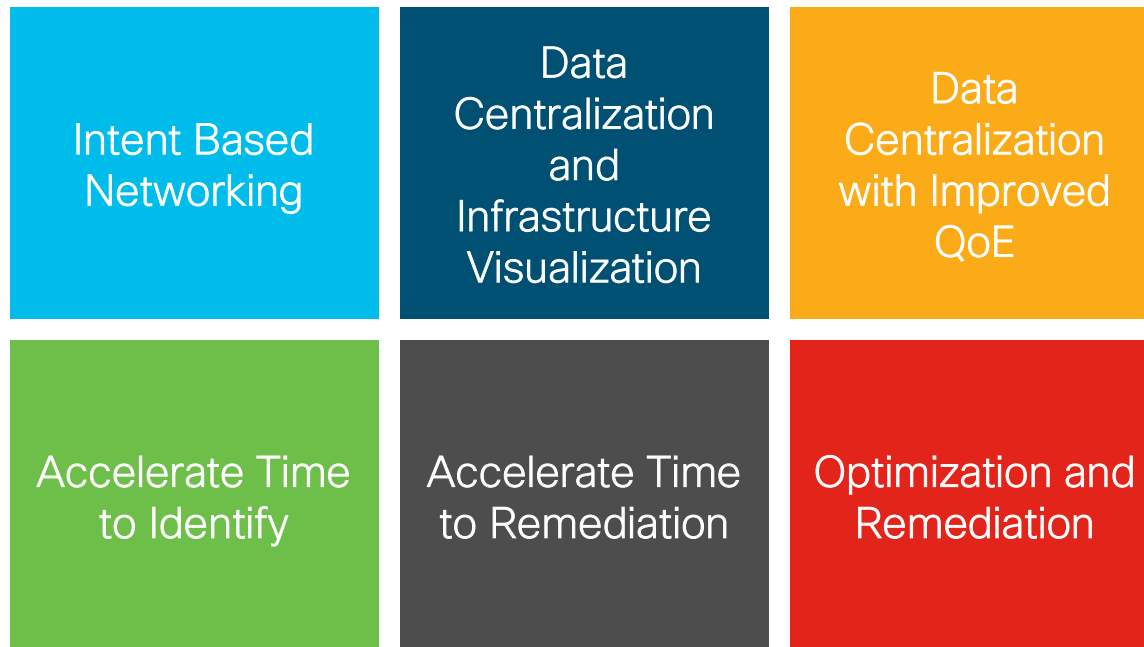
Cisco WAE + XTC

Cisco NSO

Cisco EPN-M

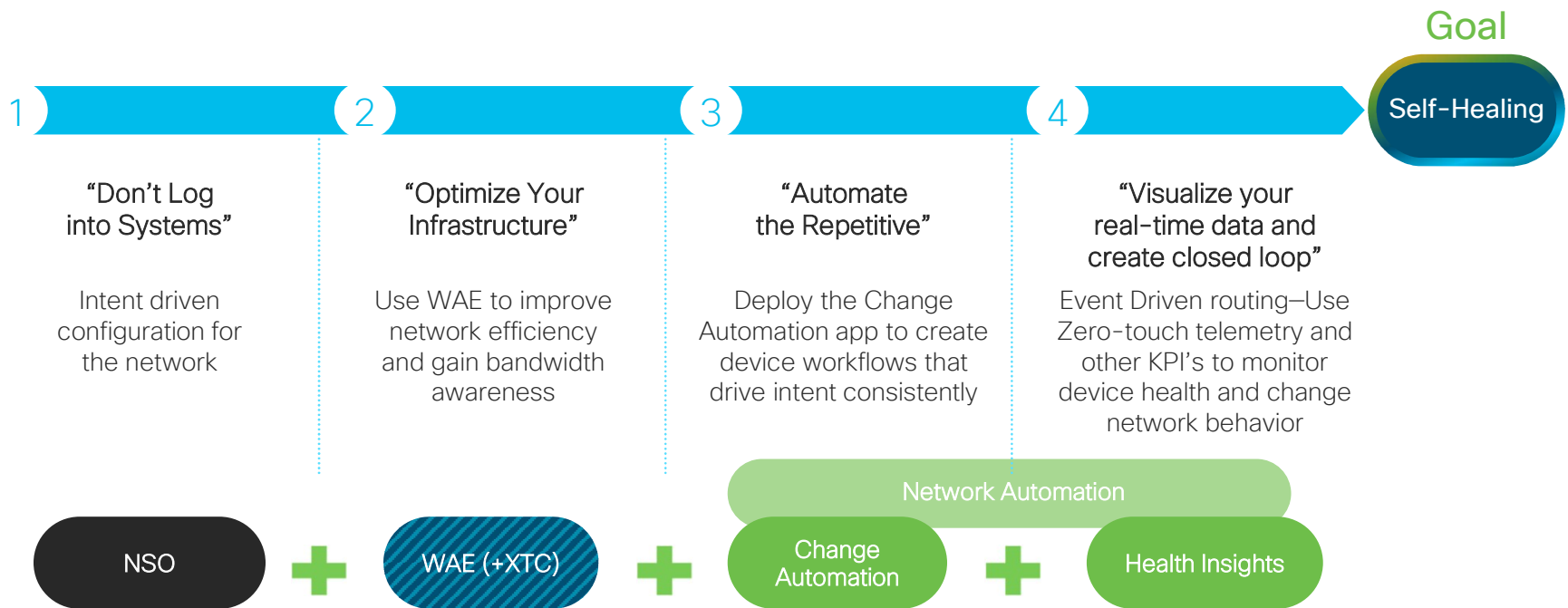


# Addressing the Most Common Business Objectives

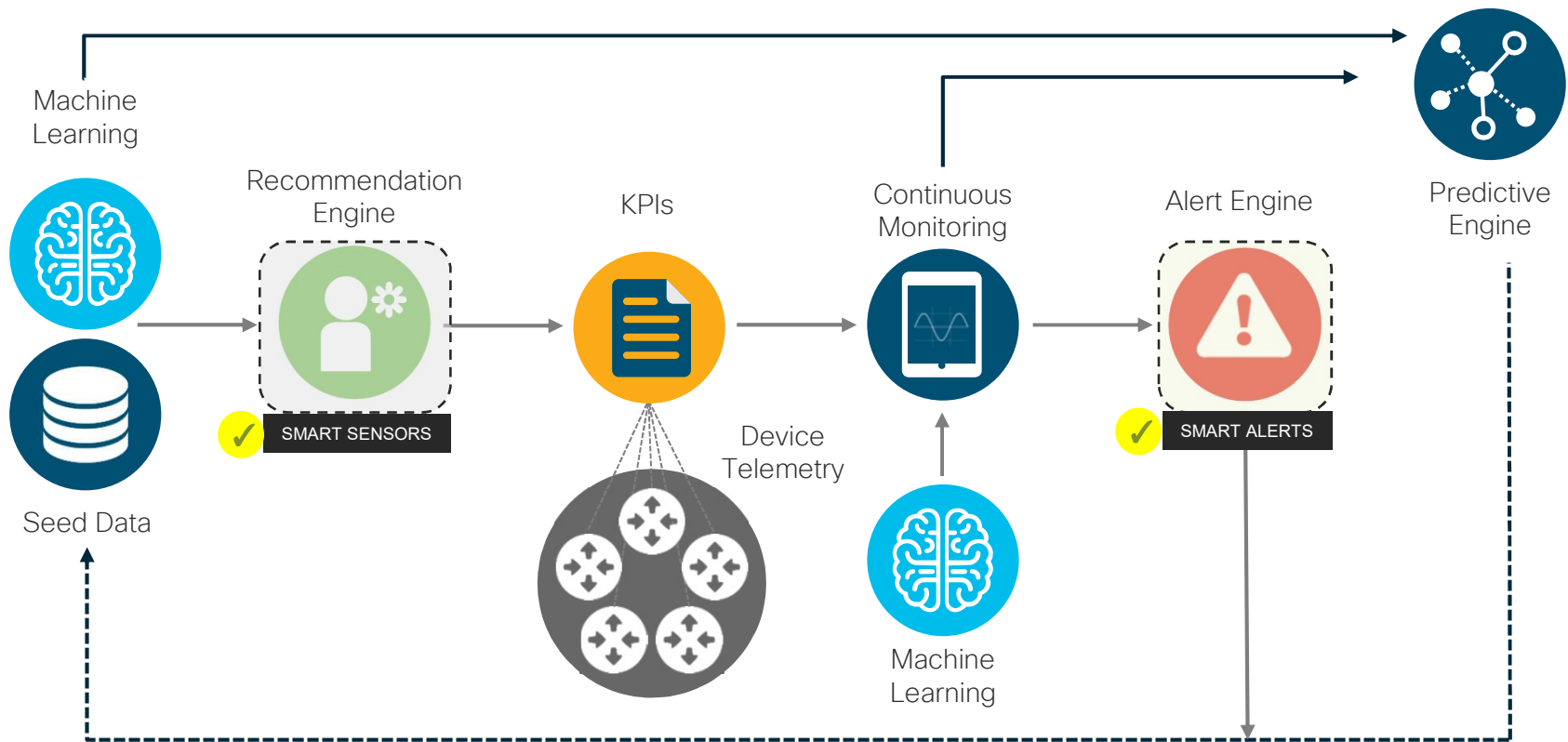


# Intent Based Networking

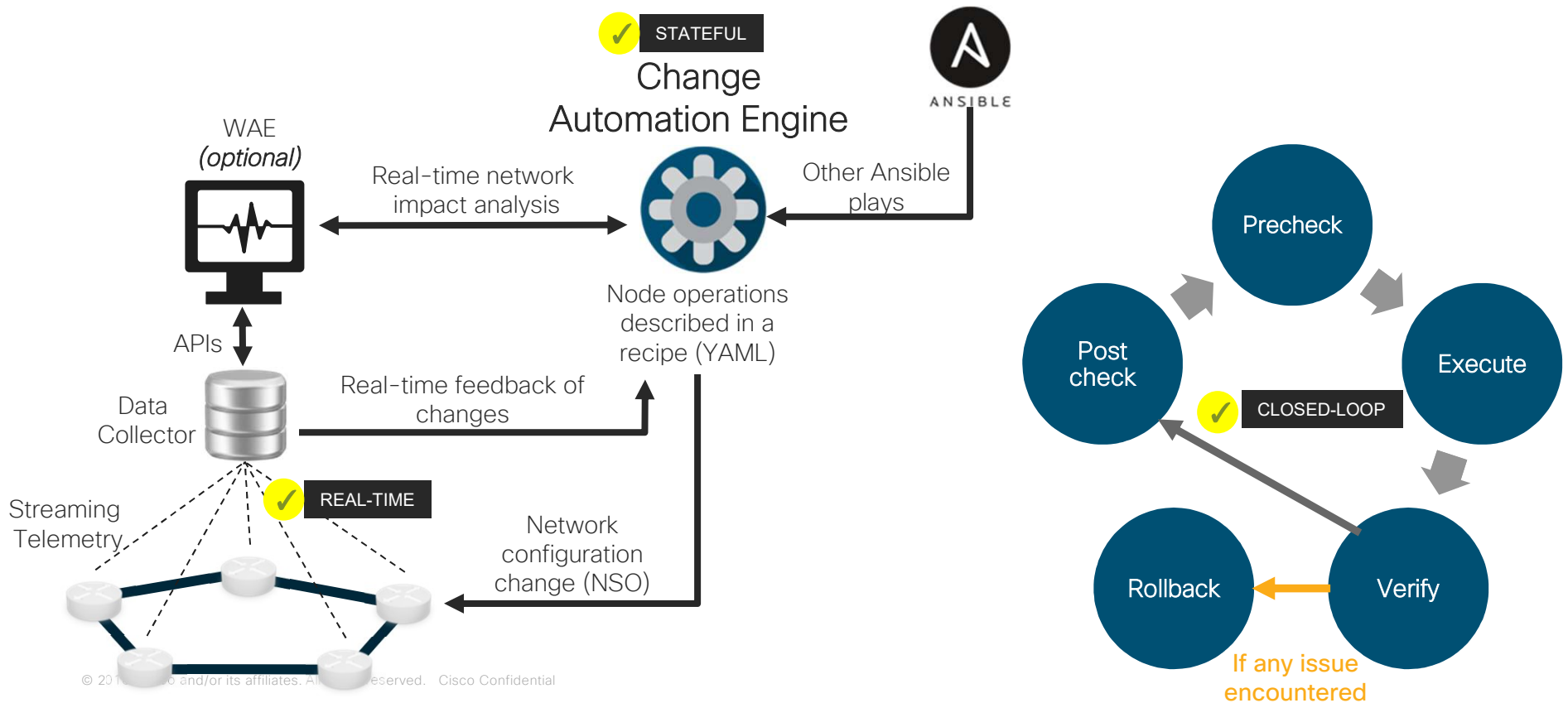
Network migrations are error prone and take too long



# Health Insights: Smarter KPIs



# Change Automation: Codifying Workflows



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## Introducing Cisco Crosswork: Mass Scale Automation Delivered

Automation that's intelligent. Architecture that's open. A network that's aware.

[Watch the Video](#)

### Cisco Crosswork

The first closed-loop, mass scale automation solution that embraces multi-vendor networks. Built on the proven foundation of open APIs in Cisco Network Service Orchestrator and WAE, Cisco Crosswork now incorporates advanced data consolidation, machine learning, event correlation, and change automation down to the individual network slice - and soon even across domains.

Cisco Crosswork is about being proactive, not just in actions, but in vision. It's about enabling networks to ultimately self-heal, self-optimize, and self-protect, by repairing and optimizing infrastructure from the inside - without interruption or human intervention.

#### Mass Awareness

Collecting information from every corner of your network. Across your network, in near real time, at mass scale.

[Learn more >](#)

#### Augmented Intelligence

Constantly and excessively evaluating the collected data for you. Finding the outliers—the red flags—and letting you know.

[Learn how >](#)

#### Proactive Control

Staying ahead of things. Becoming more efficient and secure. So you can do one thing at once, for once.

[Explore more >](#)

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