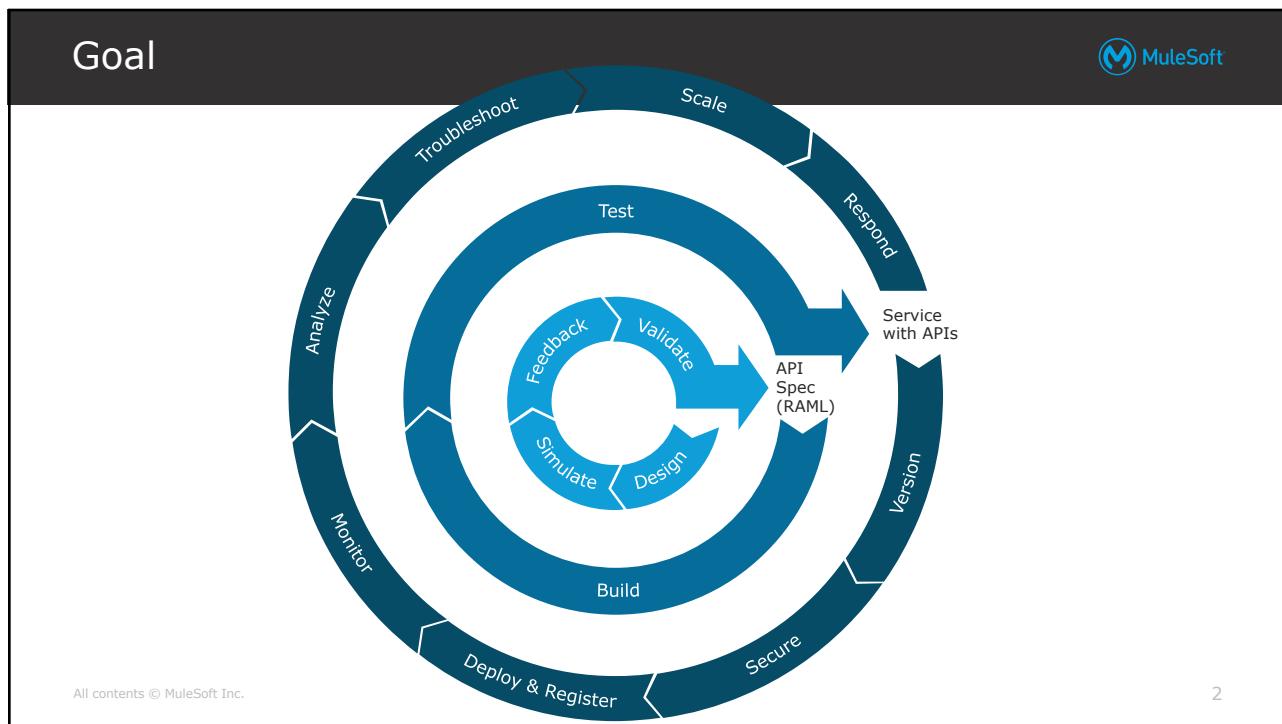
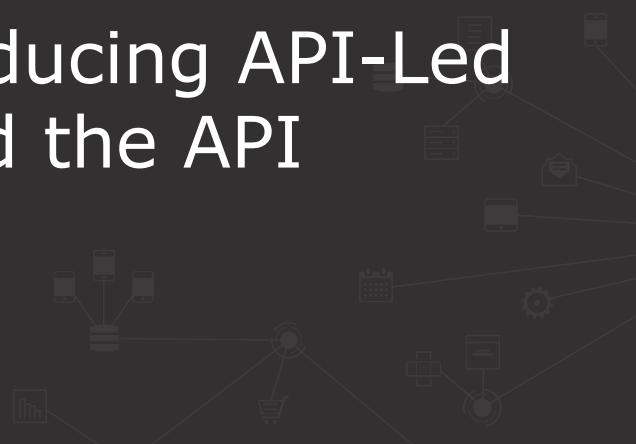




# Module 3: Introducing API-Led Connectivity and the API Lifecycle



## Objectives



- Describe the API development lifecycle
- Explain MuleSoft's API-led connectivity approach
- Describe the API development lifecycle with Anypoint Platform
- Navigate Anypoint Platform

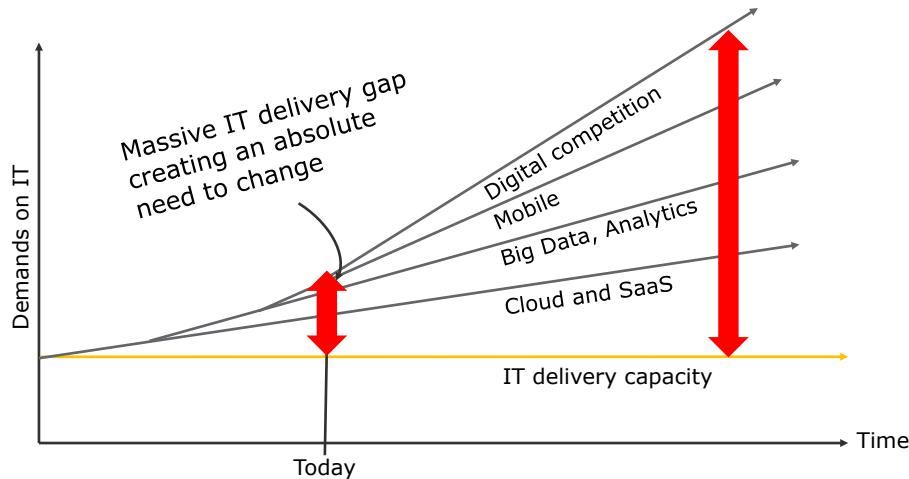
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3

# Introducing a new IT operating model to overcome challenges

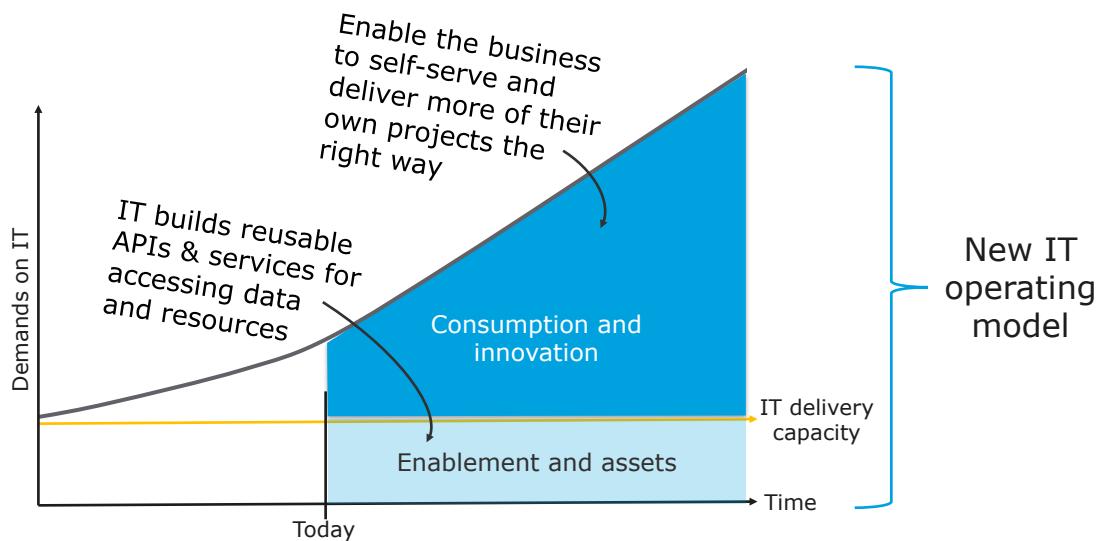


## Digital pressures create a widening IT delivery gap



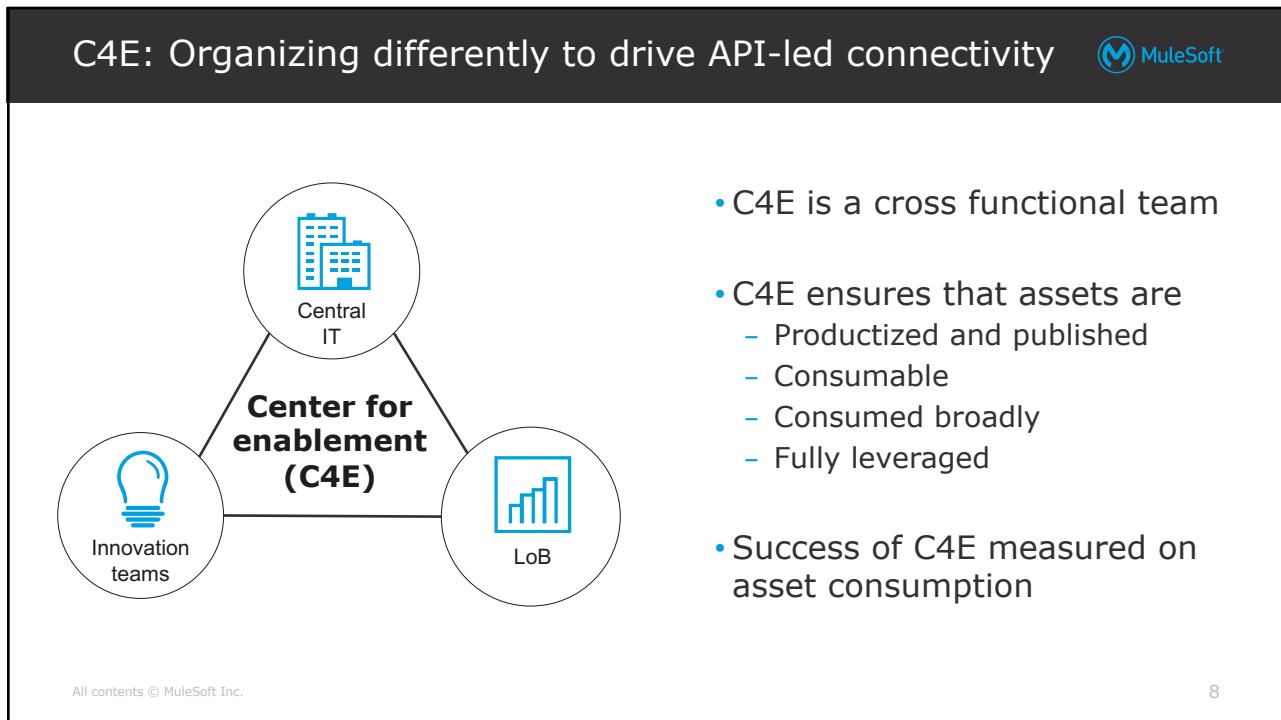
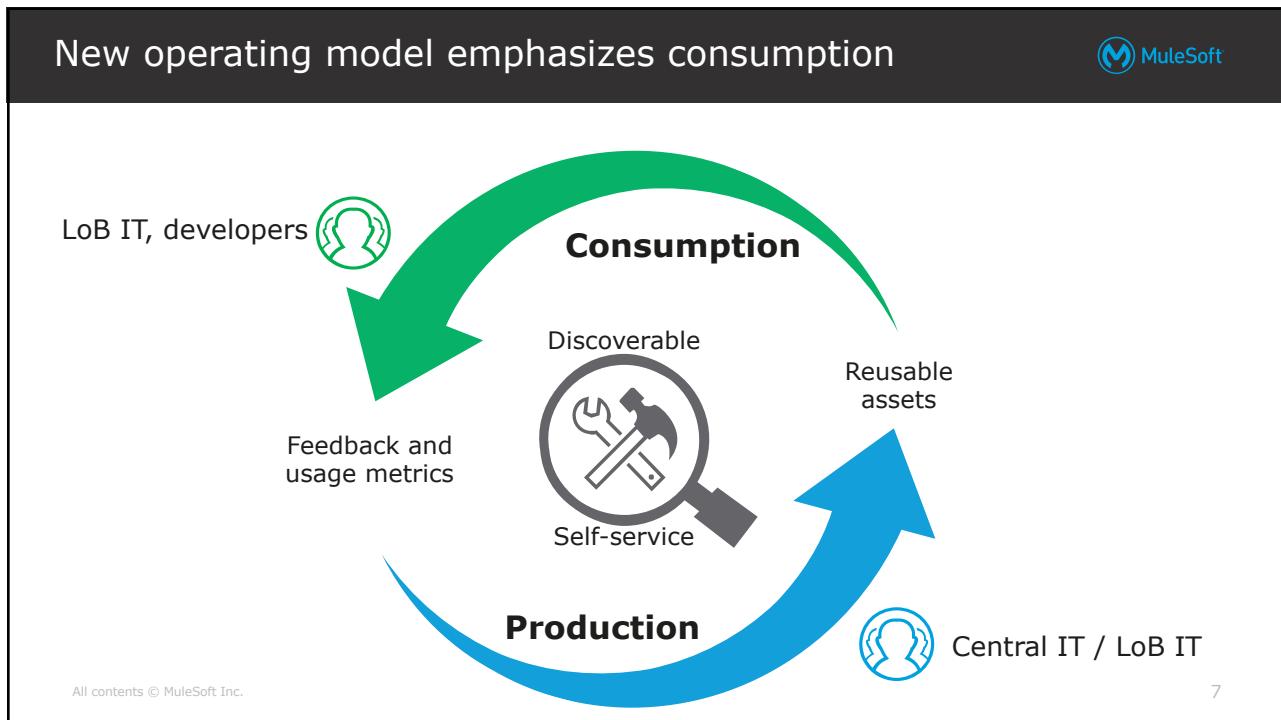
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## A new way of working to close the delivery gap

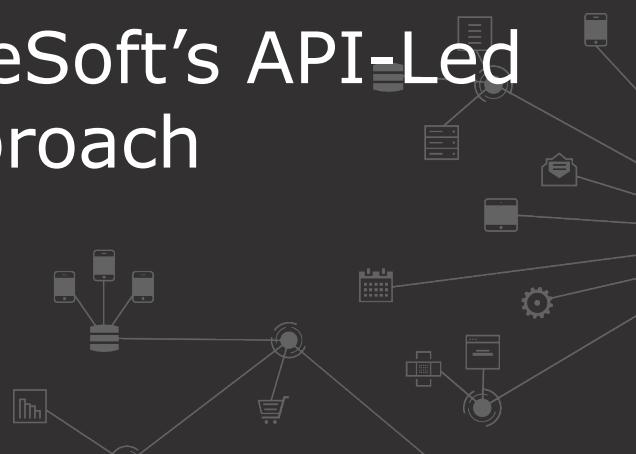


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6



# Introducing MuleSoft's API-Led connectivity approach



## A common project-based approach



**Project objective:** Web app provides real-time order status and order history for sales team engaging with customers

- Order data in eCommerce system
- Inventory data in SAP
- Customer data in SAP, Salesforce

Web app API

Order status

Order history

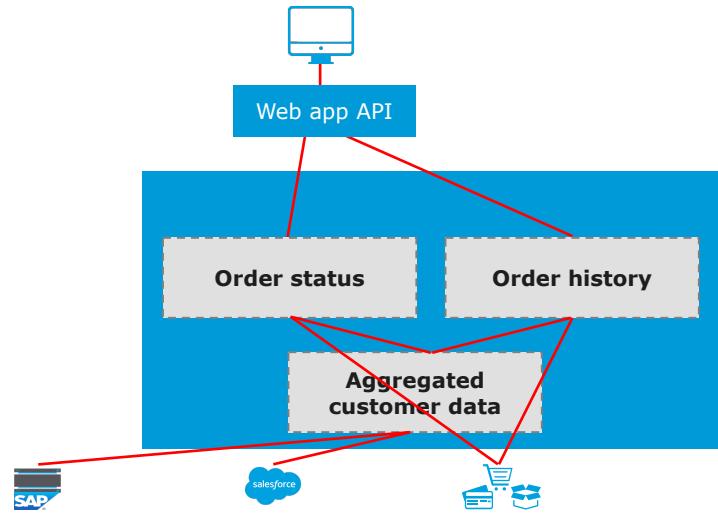
Aggregated customer data



## A common project-based approach



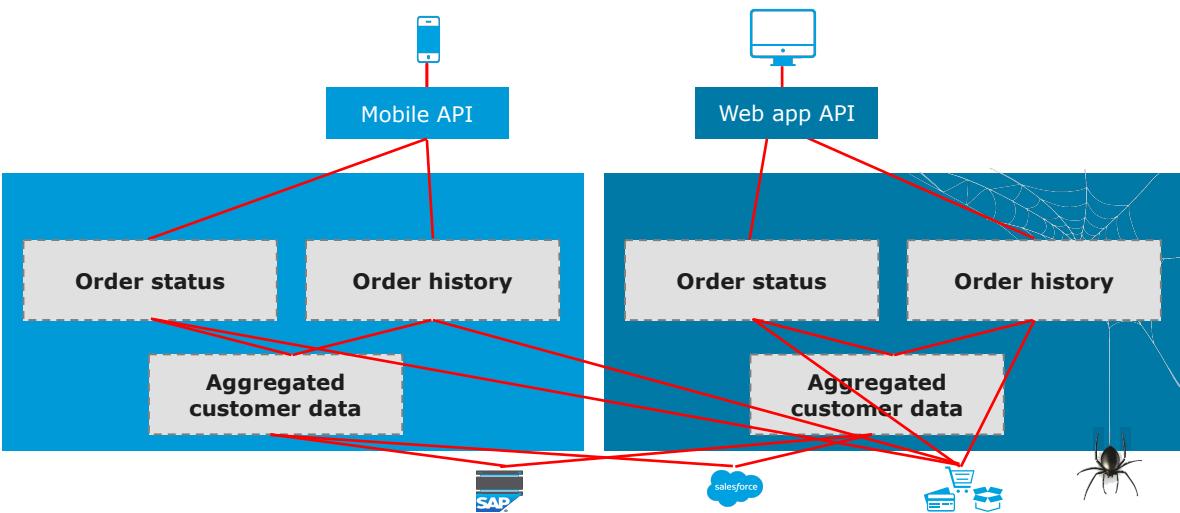
- ✓ On time and within budget
- ✗ Limited opportunity for reuse
- ✗ Tight coupling = brittleness
- ✗ Difficult to govern
- ? Meets business requirements



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11

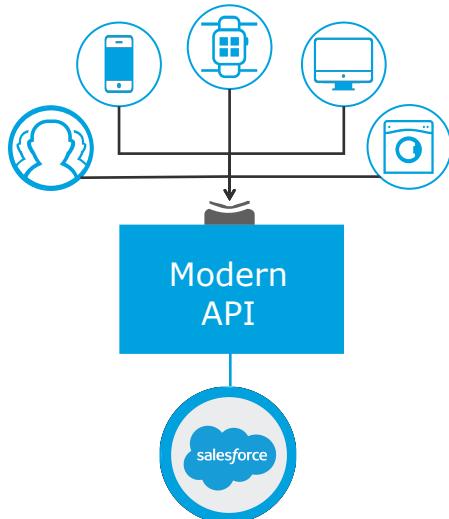
## 6 months later...



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12

## Modern API: The core enabler of a new operating model

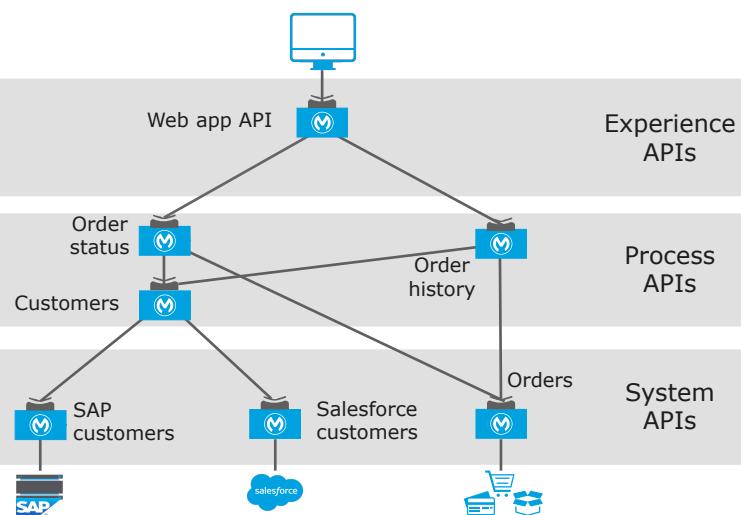


- Discoverable and accessible through self-service
- Productized and designed for ease of consumption
- Easily managed for security, scalability, and performance

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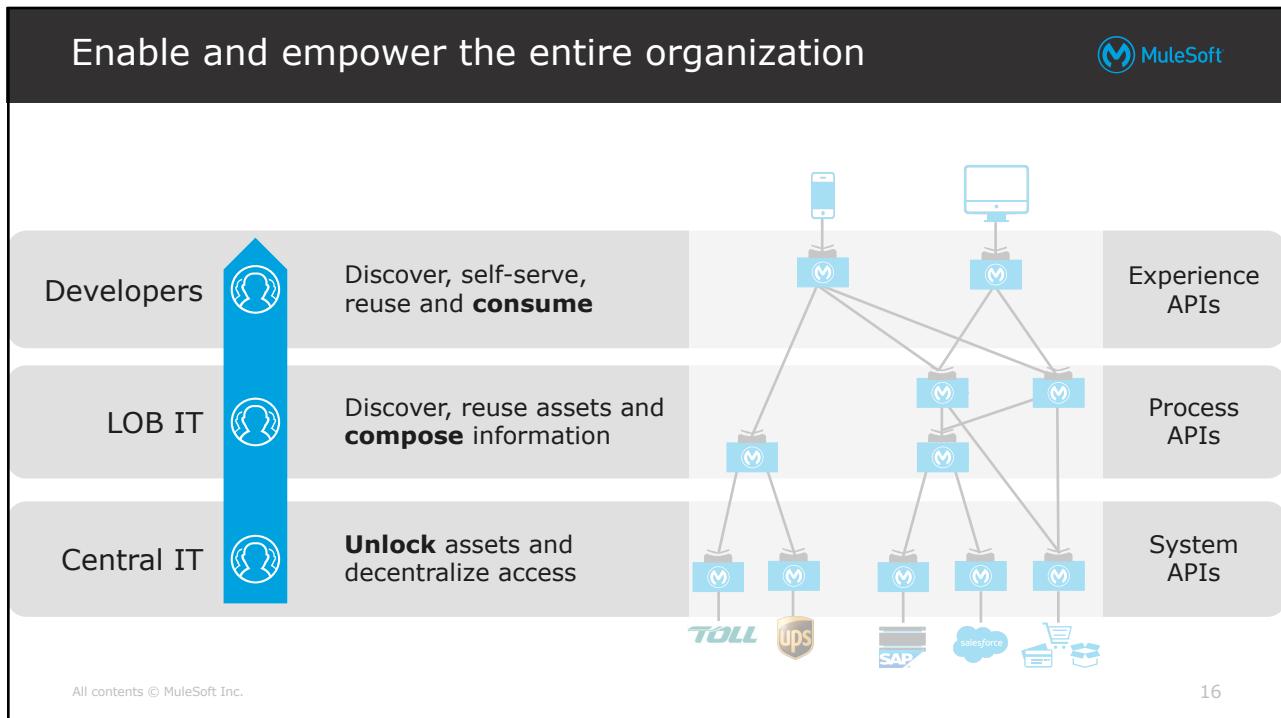
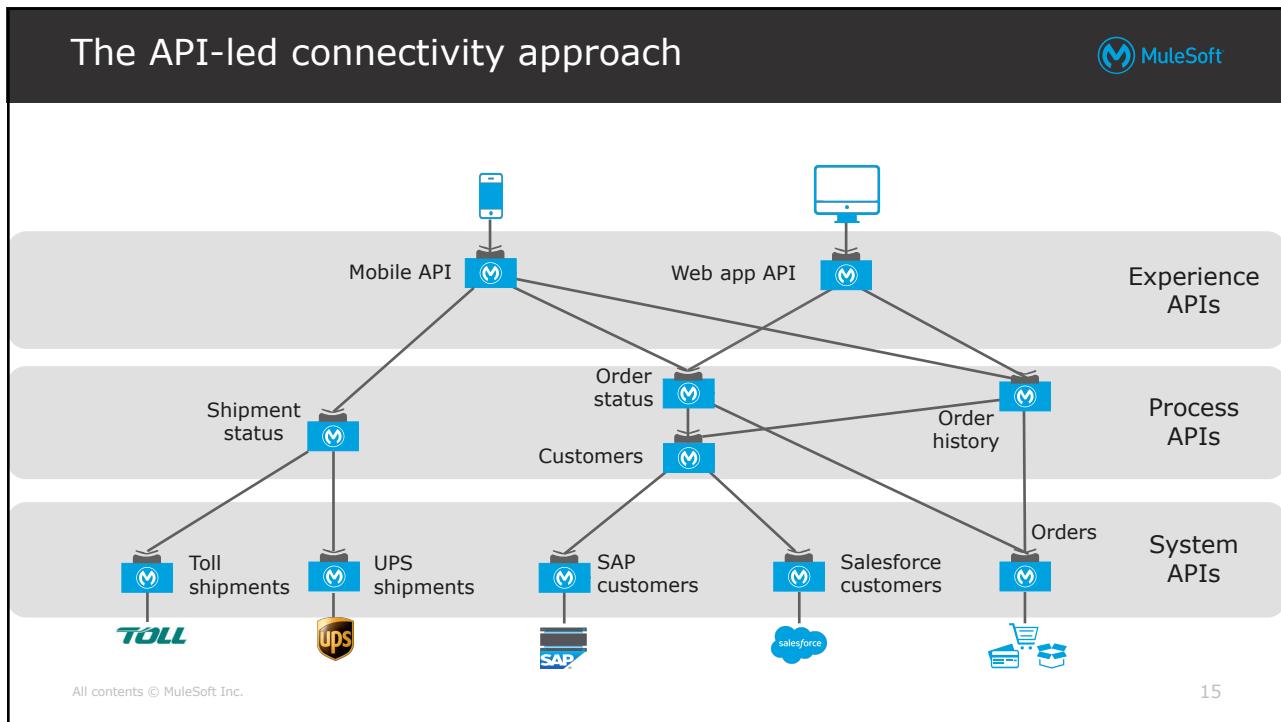
13

## The API-led connectivity approach



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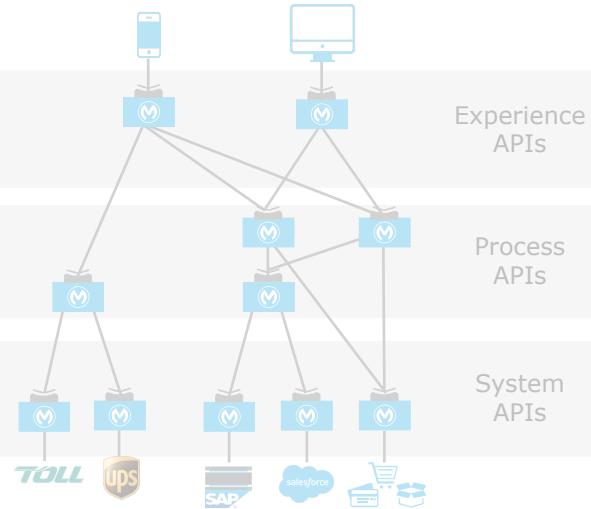
14



## Drive outcomes with API-led connectivity



- ✓ On time and within budget
- ✓ Drives reuse vs build
- ✓ Designs in readiness for change
- ✓ Builds in governance, compliance, security, and scalability
- ✓ Meets the needs of your business



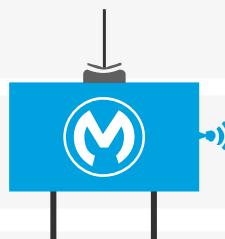
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17

## API building block

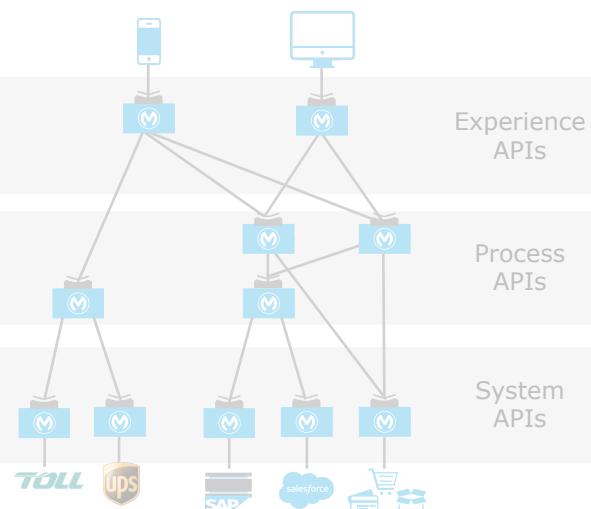


### Full API lifecycle



Visible  
secured &  
governed  
by design

Enterprise-  
grade  
connectivity



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18

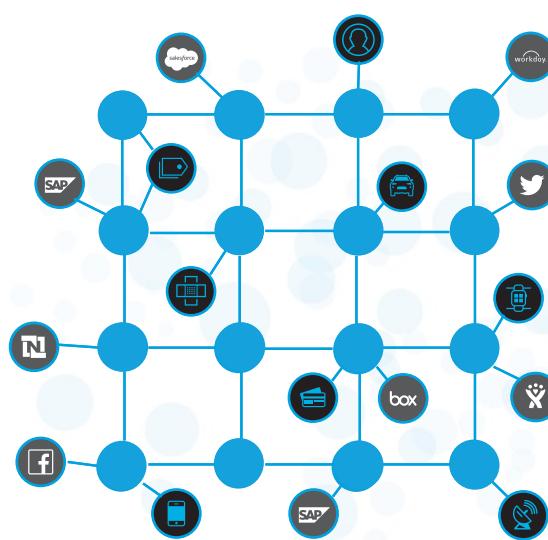
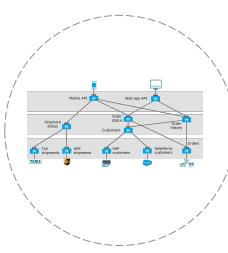
# Using API-Led connectivity to achieve an application network



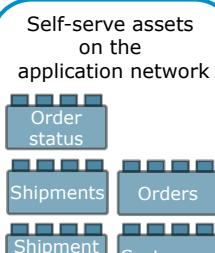
Every project adds value to the application network



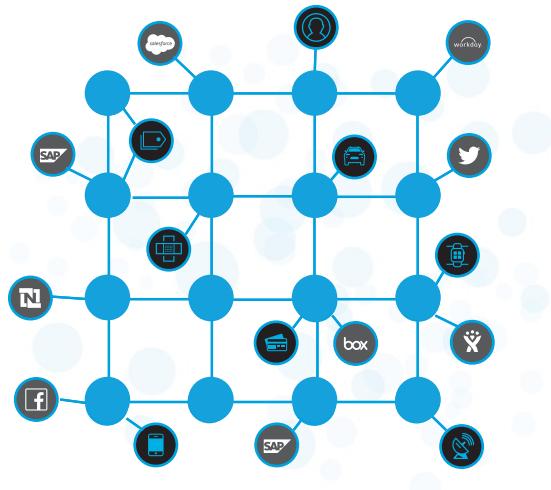
**Project 1 – API-led**



**C4E**



Speed. Agility. Innovation.



## An application network

- Emerges bottoms-up via self-service
- Provides visibility, security and governability at every API node
- Is recomposable: it bends, not breaks – **built for change**

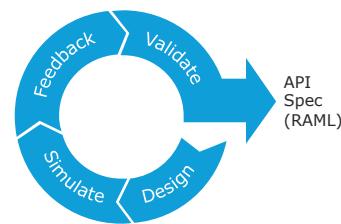
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21

## Introducing the API development lifecycle

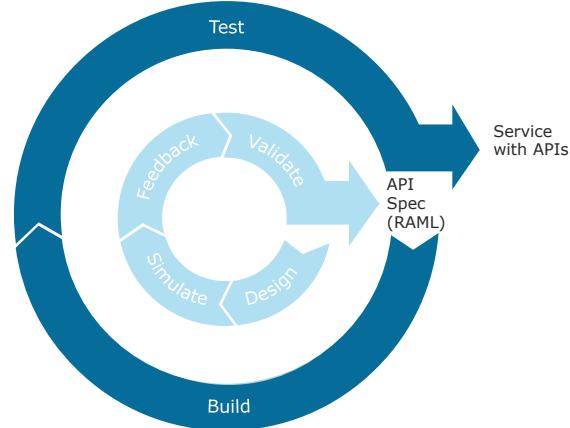


## API development cycle: API definition

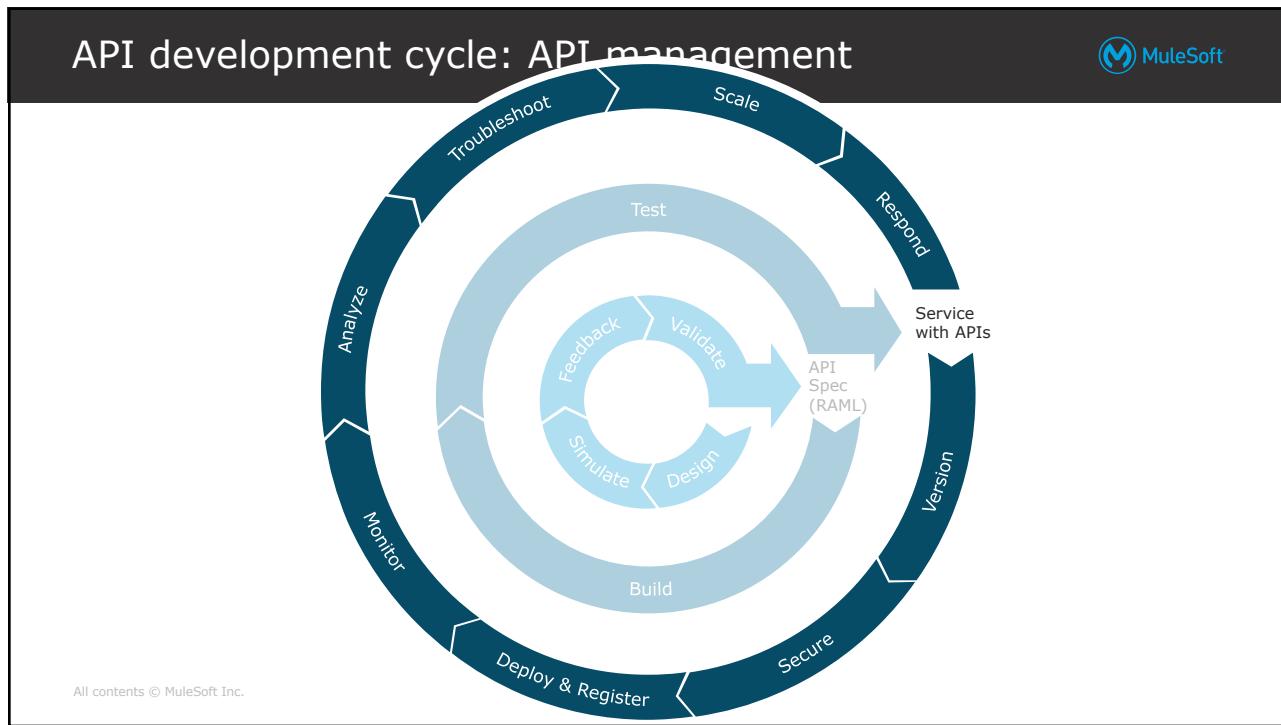


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## API development cycle: API implementation

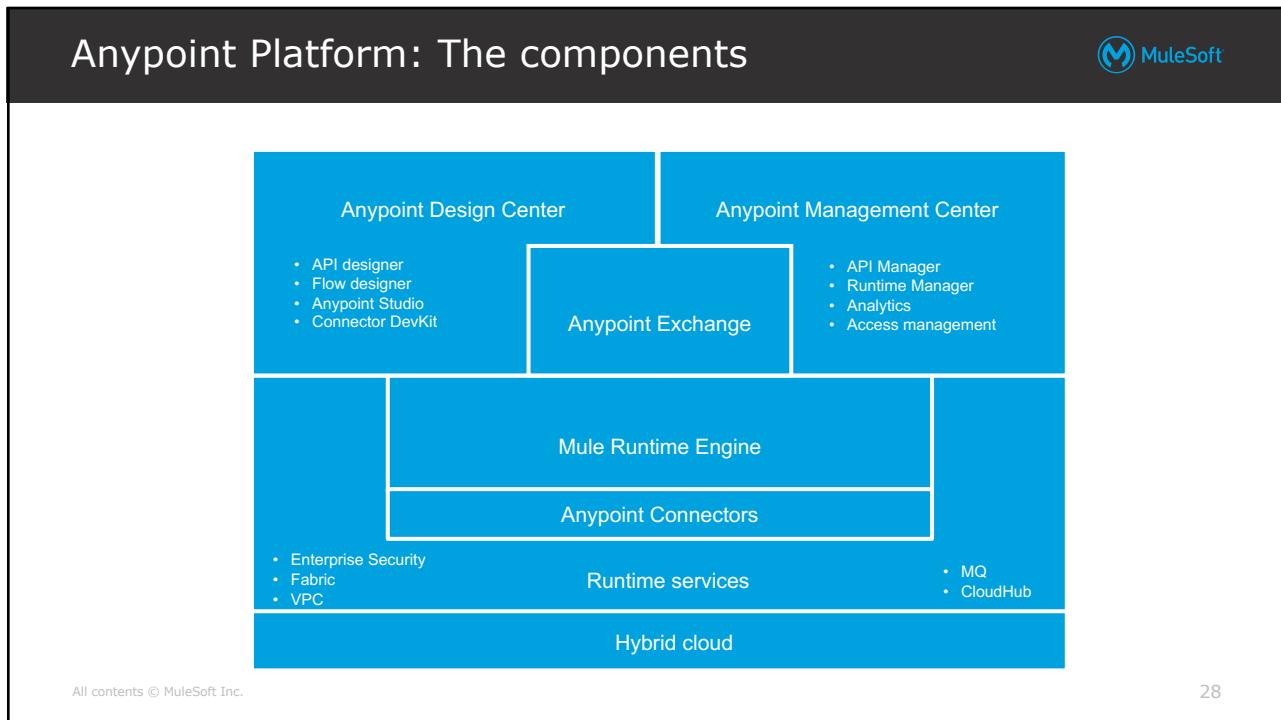
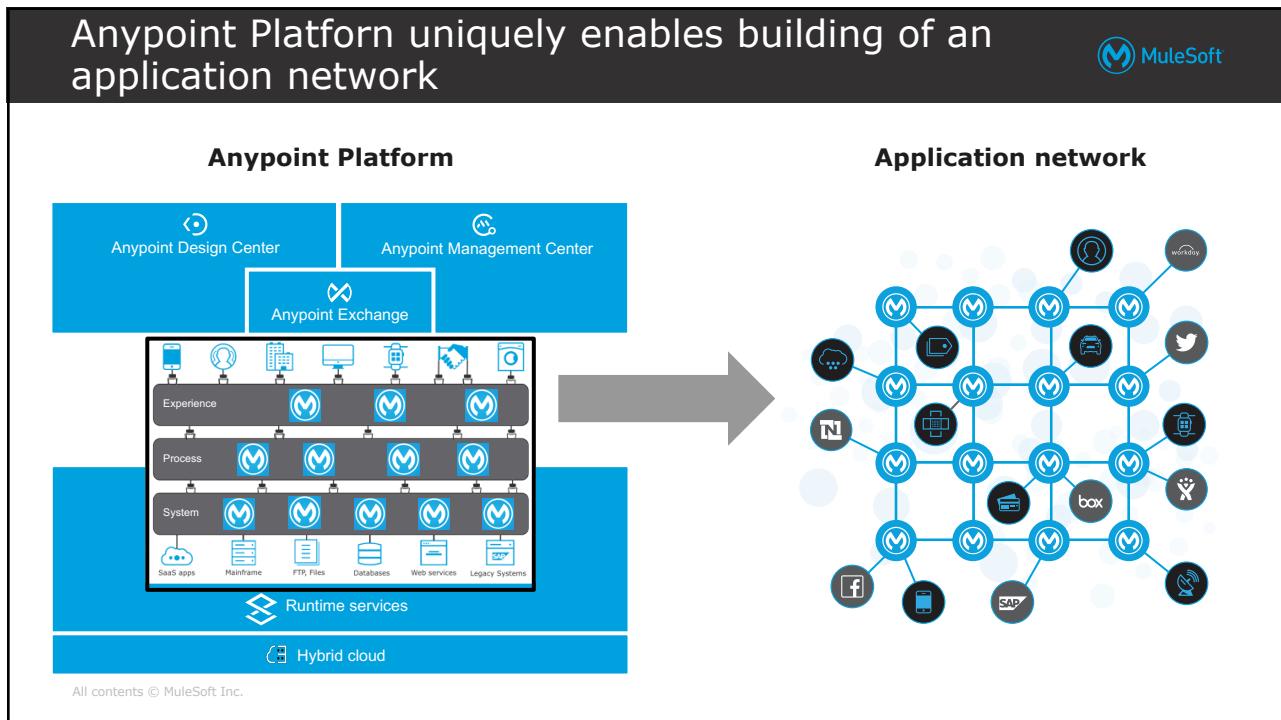


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## Introducing Anypoint Platform



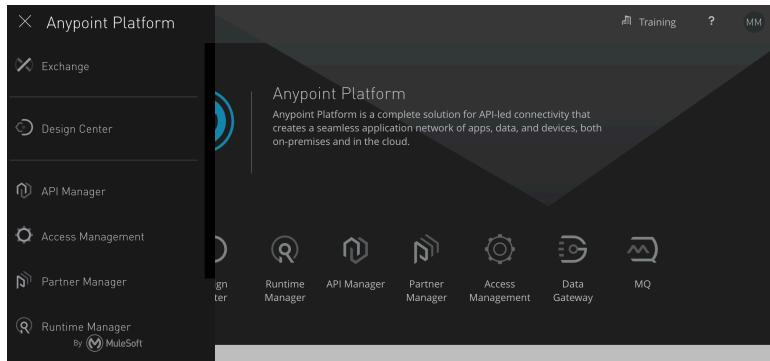


## Anypoint Platform: The web application



- Availability

- In a MuleSoft-hosted cloud environment at <http://anypoint.mulesoft.com>
- In a customer-hosted environment as part of Anypoint Platform Private Cloud Edition
  - Only VMWare and bare metal virtualization environments are supported

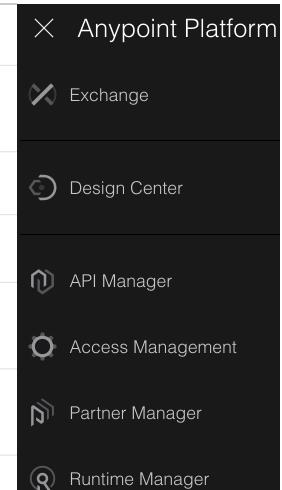


29

## Core functionality of the web application



Access Management	Managing users
Exchange	Sharing, discovering, and exploring all the resources needed for your integration projects
Flow designer	Building integration apps that consume APIs
API designer	Designing APIs
Runtime Manager	Deploying apps to the cloud or on-prem Managing and monitoring applications
API Manager	Managing APIs Creating API portals (with API portal designer)
API console, mocking service, API notebook	Testing and simulating APIs



30

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## Design Center anatomy

Name	Project Type	Last Update
American Flights Example	API Fragment	July 27th, 2017
MUA Flights API	API Specification	July 27th, 2017
MUA Flight Data Type	API Fragment	July 27th, 2017
American Flight Data Type	API Fragment	July 27th, 2017
American Flight Example	API Fragment	July 27th, 2017
<b>American Flights App</b>	Mule Application	July 27th, 2017
Training American Flights API	API Specification	July 27th, 2017

## Walkthrough 3-1: Explore API Manager in Anypoint Platform

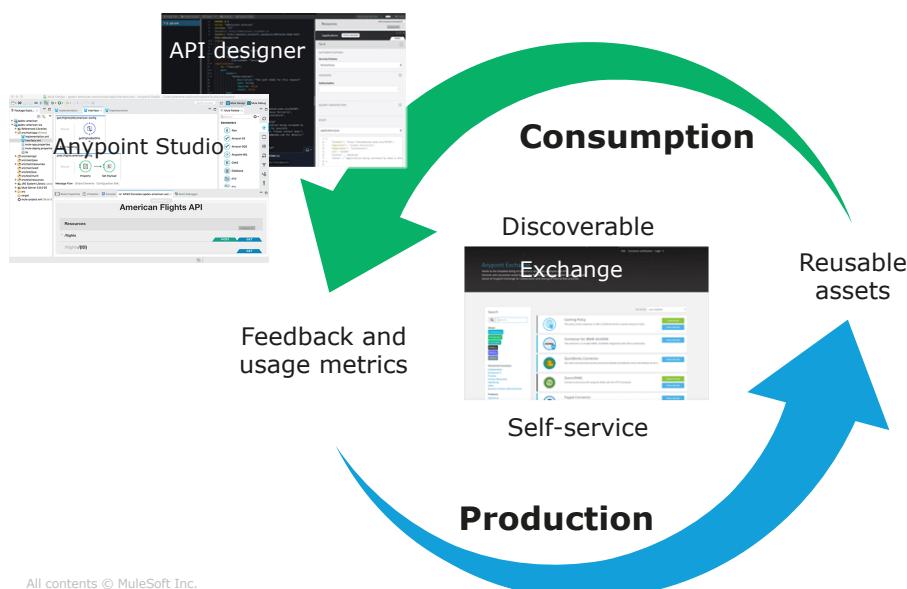
- Log in to Anypoint Platform
- Explore the API entitlements in Anypoint Platform

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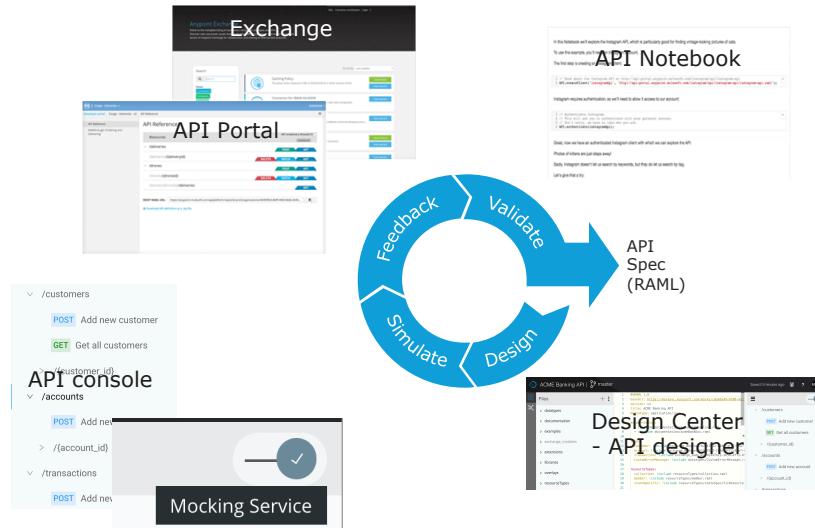
# Introducing the API development lifecycle with Anypoint Platform



## API lifecycle: Discovery and consumption

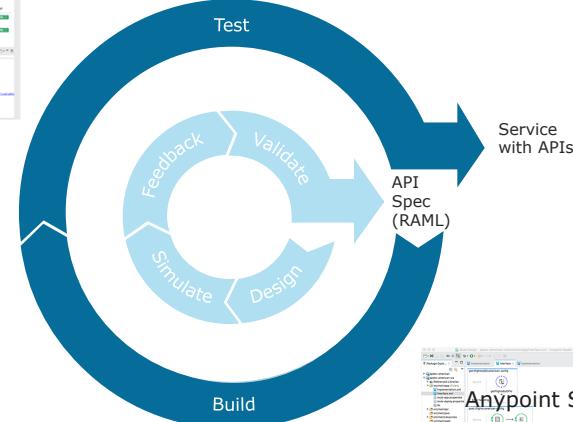


## API development cycle: API definition

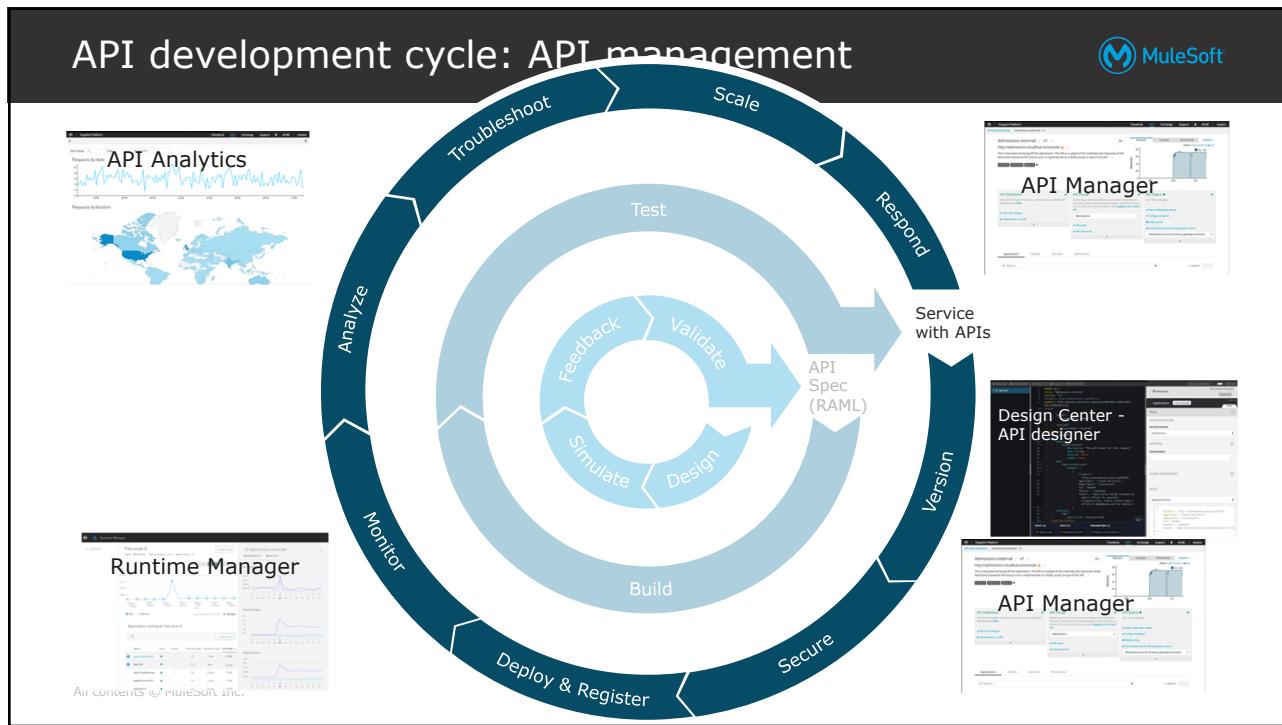


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## API development cycle: API implementation



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## Summary



## Summary



- APIs can be thought of as a product, rather than a project
- API-led connectivity approach is a framework to develop API products
- Anypoint Platform is designed with the API development lifecycle in mind
  - It is a connectivity platform for connecting any app, data source, device, and API – both in the cloud and on-prem
- Anypoint Platform has a full suite of capabilities for managing the entire API lifecycle
  - Design, build, deploy, manage, and govern