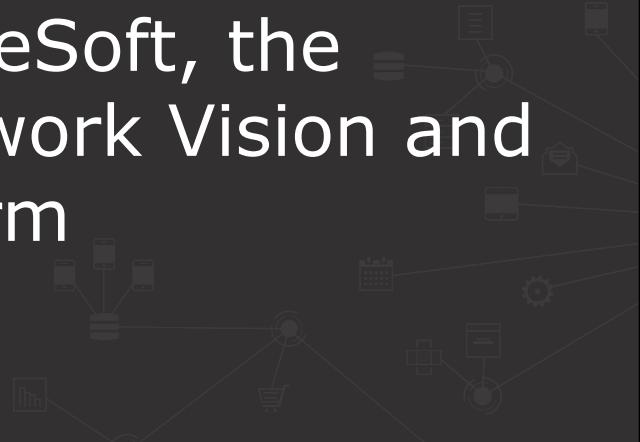




Module 2

Introducing MuleSoft, the Application Network Vision and Anypoint Platform



At the end of this module, you should be able to



- Articulate **MuleSoft's mission**
- Explain MuleSoft's proposal for **closing the IT delivery gap**
- Describe the capabilities and high-level components of **Anypoint Platform**

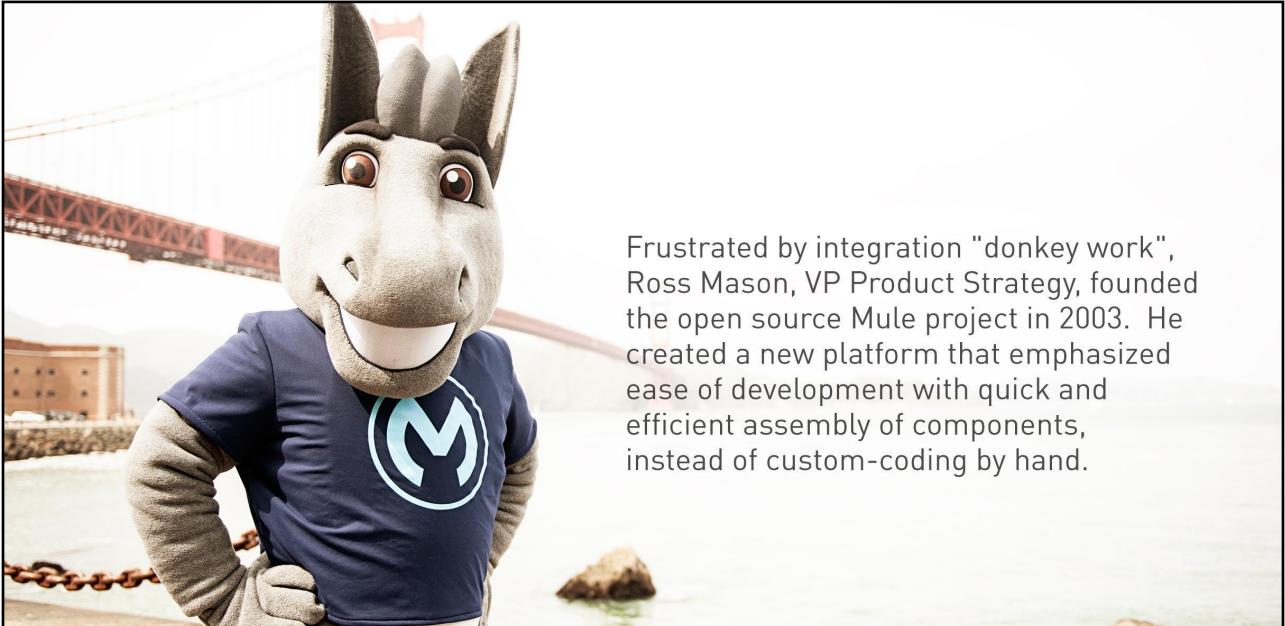
Introducing MuleSoft



**“To connect the world’s applications,
data and devices to transform
business.”**

MuleSoft’s mission statement





Frustrated by integration "donkey work", Ross Mason, VP Product Strategy, founded the open source Mule project in 2003. He created a new platform that emphasized ease of development with quick and efficient assembly of components, instead of custom-coding by hand.

The story behind the name MuleSoft



MuleSoft's customers



- 175,000+ developers worldwide
- 1100+ customers
- 3 of the top 10 global auto companies
- 5 of the top 10 global banks
- 2 of the top 5 global retailers



Company

- Founded in 2006, HQ: San Francisco
- 22 offices world-wide
- 1300+ employees worldwide
- Nearly 70% new subscription bookings driven by APIs, mobile and SaaS integration



Products

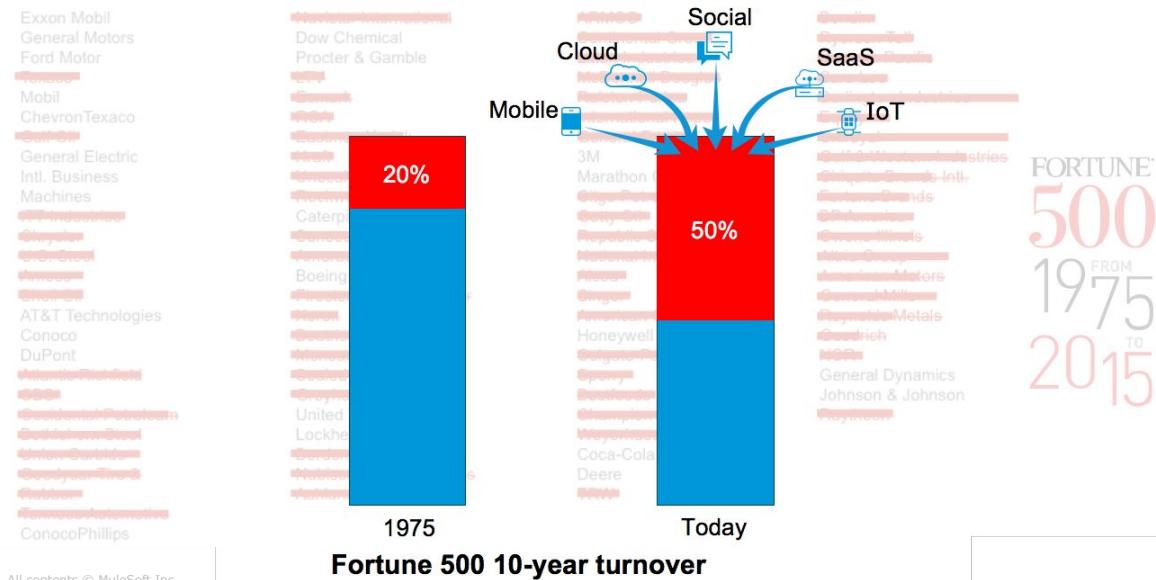
- MuleSoft's Anypoint Platform™ – addresses on-premises, cloud and hybrid integration use cases with scale and ease-of-use
- Subscription model with various packaged options to serve different use cases

Buenos Aires, London, Sydney, Amsterdam, Atlanta, Boston, Chicago, Denver, Frankfurt, Hong Kong, Melbourne, Mountain View, New York, Reading, Singapore, Stockholm, Pilar, Washington DC

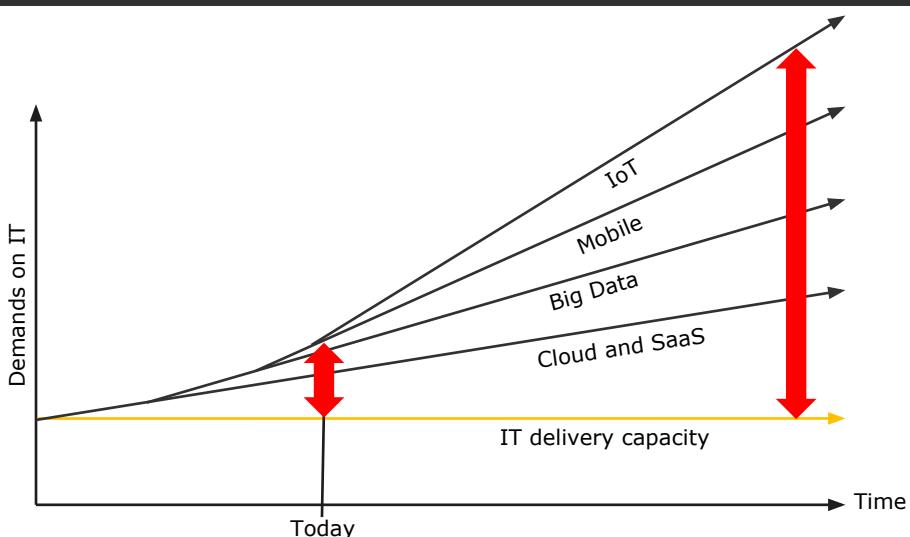
Introducing the application network vision



10-year turnover in Fortune 500 companies



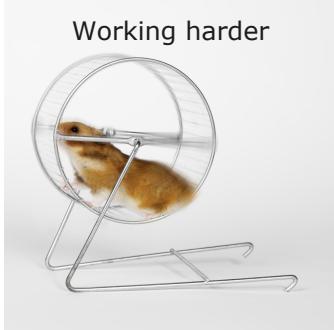
Digital pressures create a widening IT delivery gap



Current responses are insufficient



Working harder



Not sustainable

Over outsourcing



Exacerbates the situation

Agile / DevOps



Not sufficient

Learning from other industries



- Create scale through **reuse**
- Enable **self-service**
- Encourage **innovation “at the edge”**
- Promote **quality**
- Retain **visibility and control**

McDonald's

SUBWAY

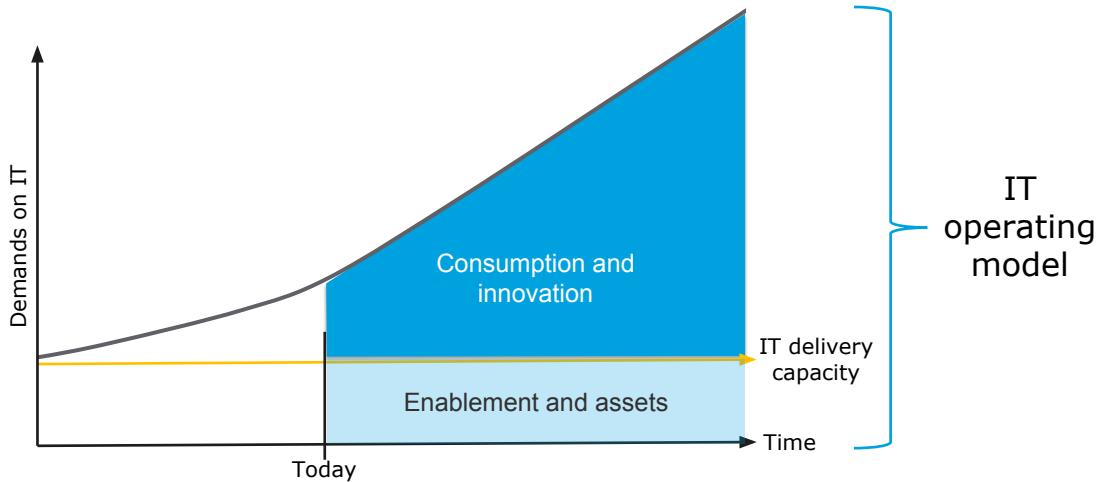
MARRIOTT



Alibaba.com®

amazon

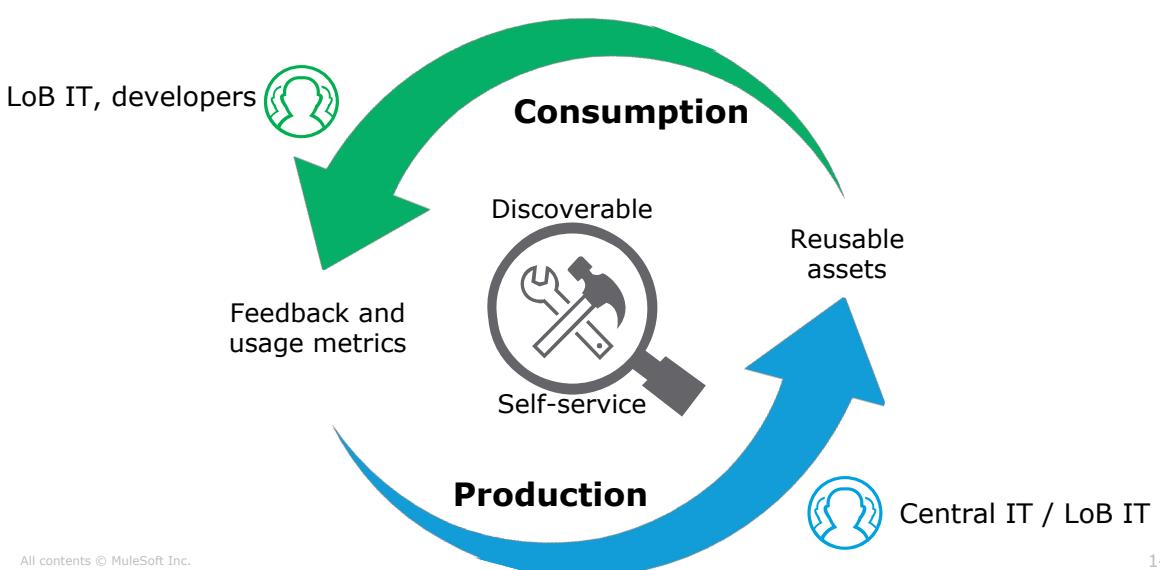
Closing delivery gap with constant IT delivery capacity



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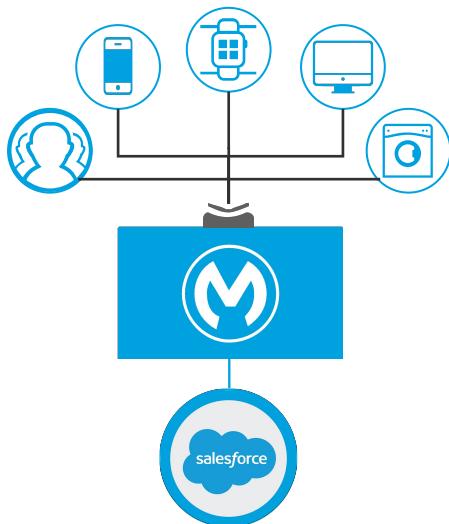
An operating model that emphasizes consumption



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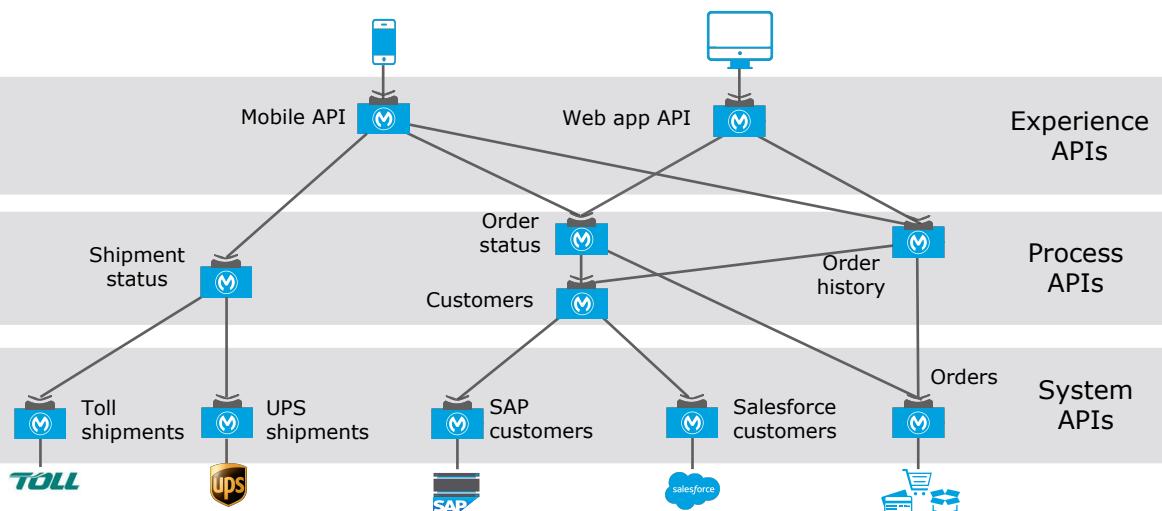
Modern API as core enabler of this operating model



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

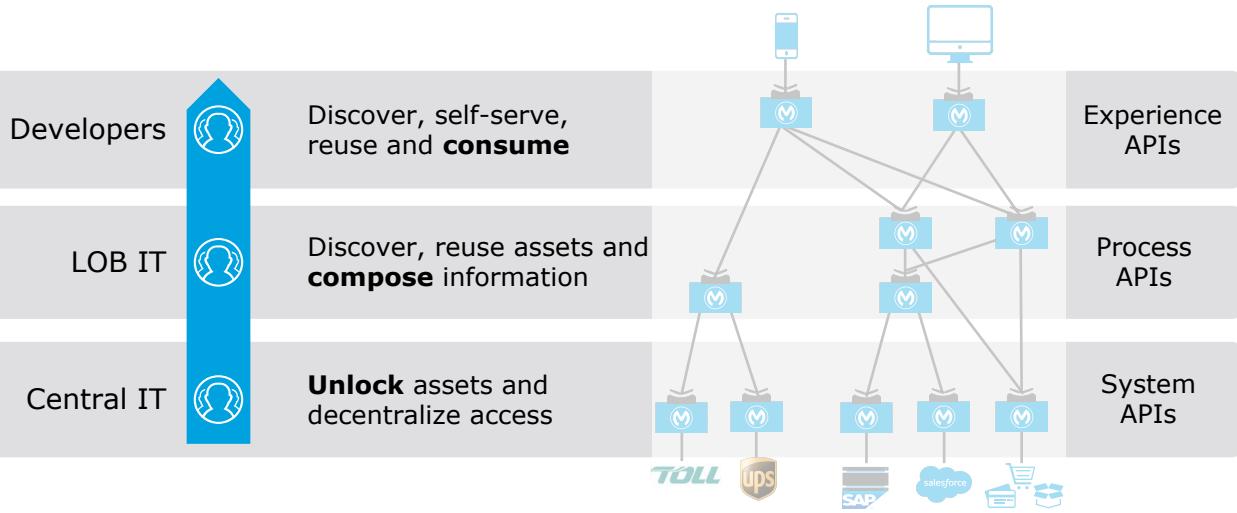
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The API-led connectivity approach



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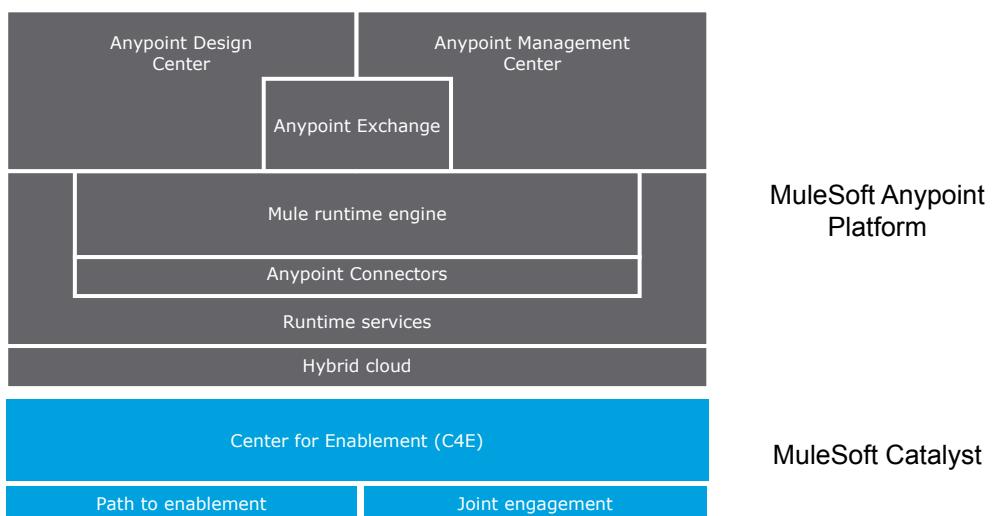
Focus and owners of APIs in different tiers



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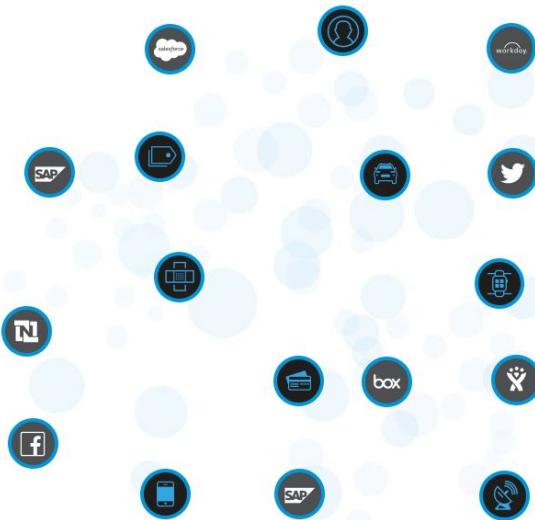
Anypoint Platform and organizational enablement



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Application landscape at the start of the journey

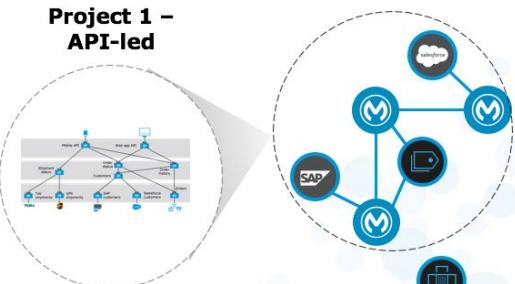


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Every project adds value to the application network



Project 1 – API-led

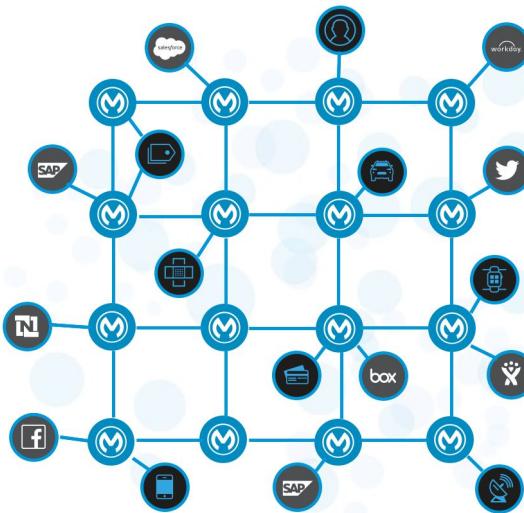
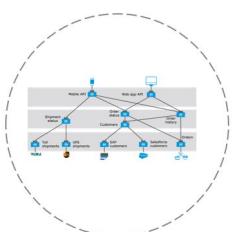


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Every project adds value to the application network

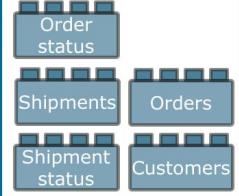


Project 1 – API-led



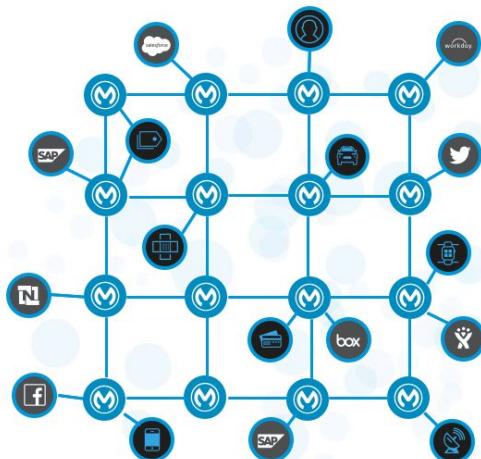
C4E

Self-serve assets
on the
application network



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The application network emerges



An application network

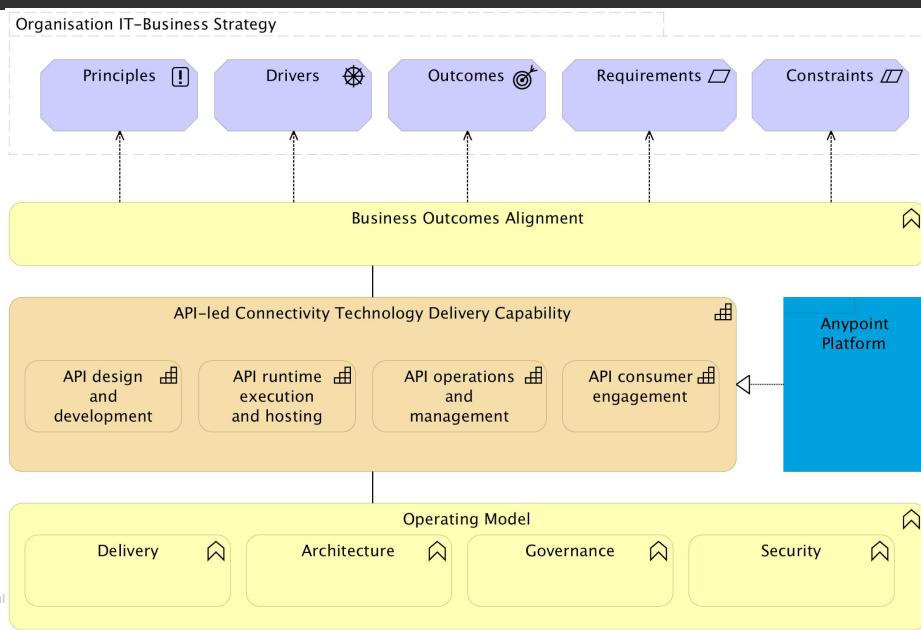
- **Emerges** bottom-up via self-service
- Provides visibility, security and governability at every **API node**
- Is recomposable: it bends, not breaks – **built for change**

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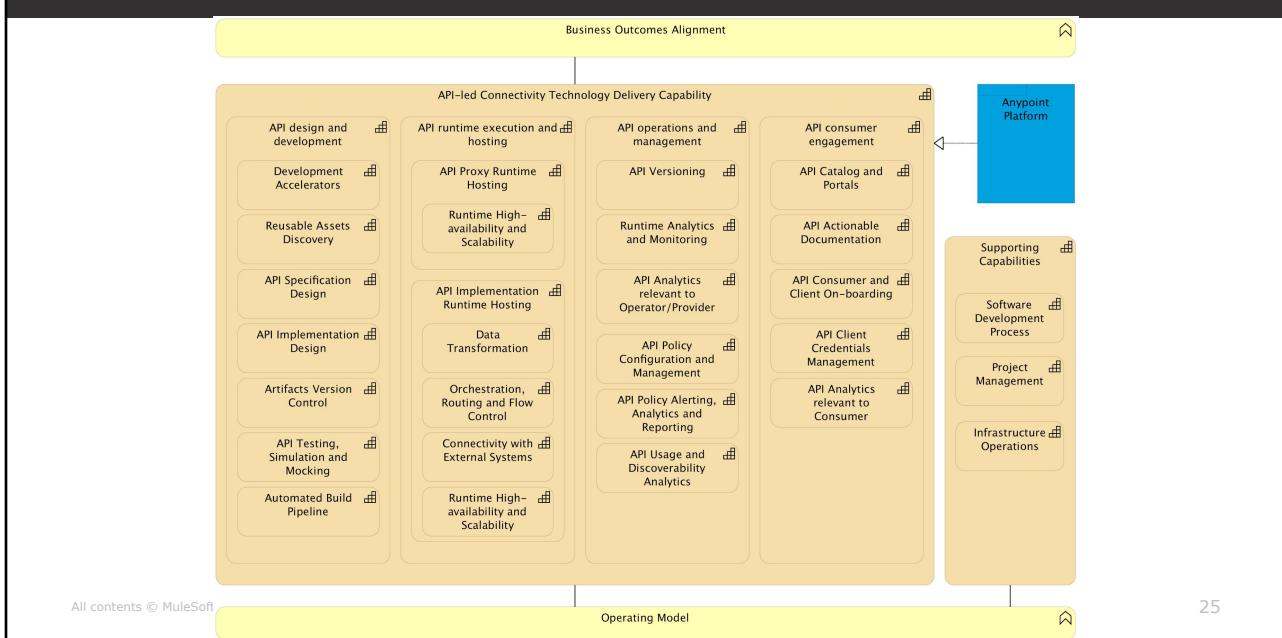
Highlighting important capabilities needed to realize application networks



High-level technology delivery capabilities



Medium-level technology delivery capabilities



Derived capabilities for API clients and API implementations



Capabilities related to API clients and implementations

Backend System Integration

HA and Scalable Execution

Fault-Tolerant API Invocation

Monitoring and Alerting of API Implementations

Derived capabilities for APIs and API invocations



Capabilities related to APIs and API invocations

API Design

API Policy Enforcement and Alerting

Monitoring and Alerting of API Invocations

Analytics and Reporting of API Invocations

Discoverable Assets

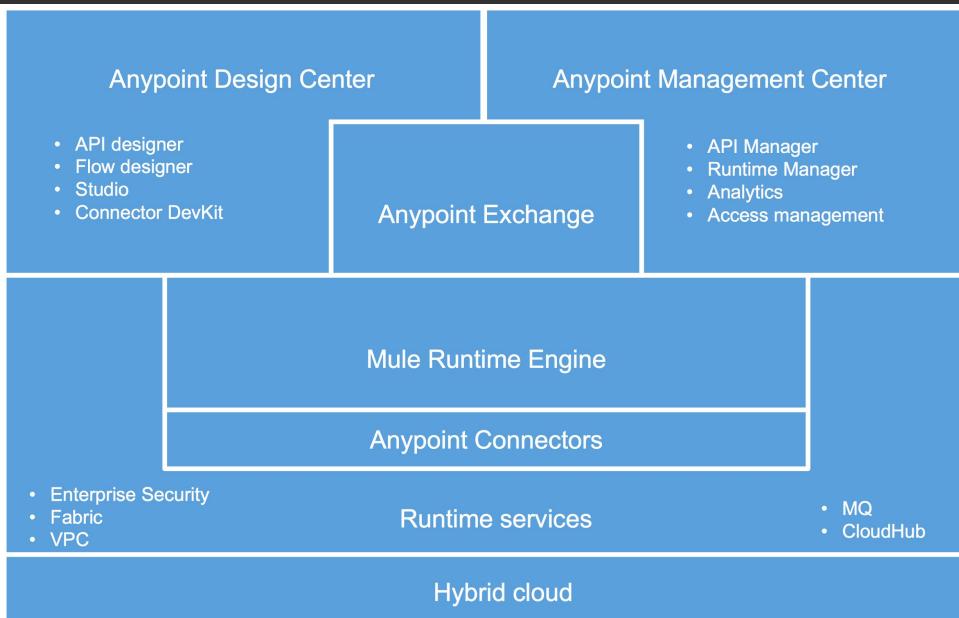
Engaging Documentation

Self-Service API Client Registration

Introducing Anypoint Platform



Anypoint Platform components



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Anypoint Connectors



- **Connectivity** to external systems
- Dynamic connectivity to **APIs**
- Build **custom connectors** using DevKit/SDK

A screenshot of the Anypoint Exchange interface showing a catalog of available connectors. The connectors are listed in a grid:

Connector	Rating	Connector	Rating	Connector	Rating	Connector	Rating	Connector	Rating
Google DFP Connector	★★★★★	Partner Manager Connector	★★★★★	RosettaNet Connector	★★★★★	SAP Connector	★★★★★	Oracle PeopleSoft Connector	★★★★★
MuleSoft		MuleSoft		MuleSoft		MuleSoft		MuleSoft	
AS2 Connector	★★★★★	Oracle E-Business Suite (EBS) Connector	★★★★★	Oracle E-Business Suite (EBS) 12.2 Connector	★★★★★	HL7 Connector	★★★★★	Oracle Siebel Connector - Integration Objects	★★★★★
MuleSoft		MuleSoft		MuleSoft		MuleSoft		MuleSoft	
Oracle Siebel Connector - Business Services	★★★★★	Oracle Siebel Connector - Business Objects	★★★★★	X12 EDI Connector	★★★★★	EDIFACT EDI Connector	★★★★★	TRADACOMS EDI Connector	★★★★★
MuleSoft		MuleSoft		MuleSoft		MuleSoft		MuleSoft	

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- Anypoint Platform exposes consolidated **web UI**
- Functionality is also available via **Anypoint Platform APIs**
 - **JSON REST APIs** which are also invoked by the web UI
- Allows **extensive automation** of the interaction with Anypoint Platform
- Higher-level automation tools:
 - **Anypoint CLI**
 - **Mule Maven Plugin**
 - Automates packaging and deployment of Mule apps to Mule runtimes
 - Used in CI/CD pipelines
- Anypoint Exchange is also accessible as a **Maven repository**
 - Maven build can deploy artifacts into Anypoint Exchange and retrieve artifacts from it

Audit logging on Anypoint Platform

- Maintains audit log of all **changes** to an organization:
 - timestamp of change
 - user (subject)
 - affected Anypoint Platform object
 - action performed (verb)
- Types of action: **Create/update/delete**
- Specific, concrete **actions** for each type
 - Update (edit) an API version (object):
 - add tag, remove tag, edit name, ...
- Retrieve and query via **UI** and Platform **API**
- The retention period: **6 years**

Summary



Summary



- **MuleSoft's mission** is "To connect the world's applications, data and devices to transform business"
- MuleSoft proposes to close the increasing IT delivery gap through a **consumption-oriented operating model** with modern **APIs** as the core enabler
- **API-led connectivity** defines **tiers** for Experience APIs, Process APIs and System APIs with distinct stakeholders and focus
- An **application network** emerges from the repeated application of API-led connectivity and stresses self-service consumption, visibility, governance and security

- Anypoint Platform provides the **capabilities** for realizing application networks
- **Anypoint Platform** consists of these high-level components: Design Center, Management Center, Exchange, Mule runtime, Connectors, Runtime services, Hybrid cloud
- Interaction with Anypoint Platform can be extensively **automated**
- Anypoint Platform maintains an **audit log** of all changes