

Cultivating Modernization Through Reuse: An API First Approach

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Jonathan Pearl serves as the Executive Director and Global Head of Technology Product Management for Enterprise Information Delivery at BNY, where he plays a pivotal role in shaping the technology landscape that underpins the organization's operational success. With a robust background in enterprise application development and technology product management, Jonathan is at the forefront of driving digital transformation initiatives that enhance client and partner experiences.

Promote reuse to
reduce cost, simplify
complexity, and
increase speed to
market with new
products and services.

Why Reuse?

Thousands of decisions
through the lifetime of a
program / project.

Hundreds of
decisions
monthly.

Dozens of
decisions
daily.

Expected Outcomes



APIs Unlock Reuse

DELIVERING:

- Quicker speed to market and expanding access to data and enterprise utilities.
- Controlling access to data and preventing unintended loss.
- Creating additional revenue stream opportunities.

API GROWTH



18x

Increase in internal API calls demonstrates that internal systems are talking to each other in a structured way.

9x

Increase in external API calls as clients request and consume more.

Key Components

Build

Self-service, standards driven set-up and onboarding for engineers to create, configure and publish APIs.

Discover

Secure, easy one-stop shop for users to browse, discover and subscribe to APIs.

Run

Run-time Control - where API requests and responses are managed.

Marketplace. Potential is Open

This is where your potential meets BNY's breadth of digital solutions and integrated third party applications: working seamlessly with your existing systems to help you succeed in today's real-time global economy.

Explore BNY Marketplace →

Powering Growth, Agility & Efficiency



APIs, business applications and solution sets designed to support growth and address challenges.



Access to rich data sets for better-informed decision making.



Flexibility and choice with access to BNY and integrated third party applications.

Expectations

Discover

Can you solve my business problem?

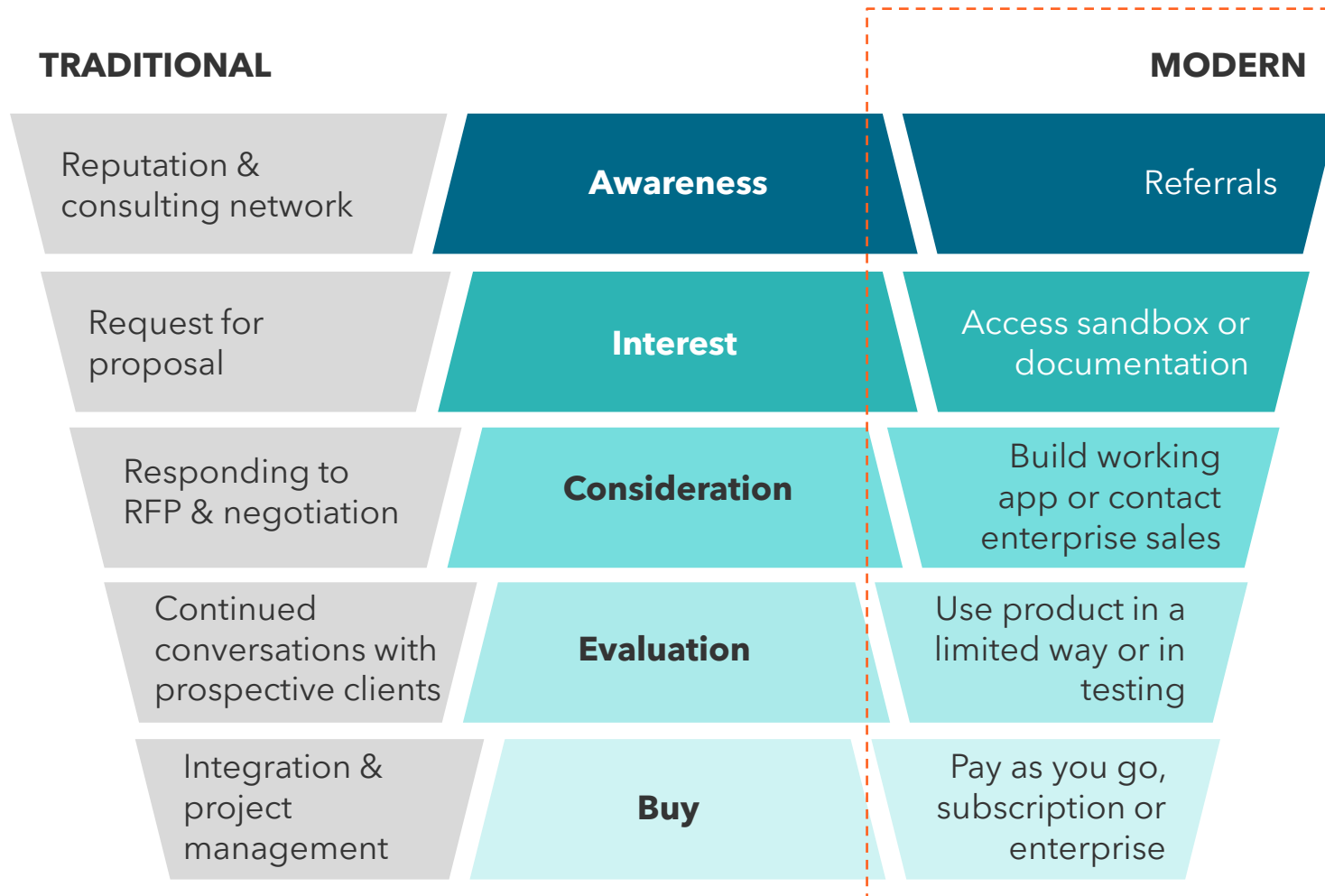
Learn

Can I easily understand the capabilities, integration requirements and operational processes?

Build

Can I build an MVP quickly and inexpensively?

Sales and Adoption Cycles Have Evolved



KEY TAKEAWAYS

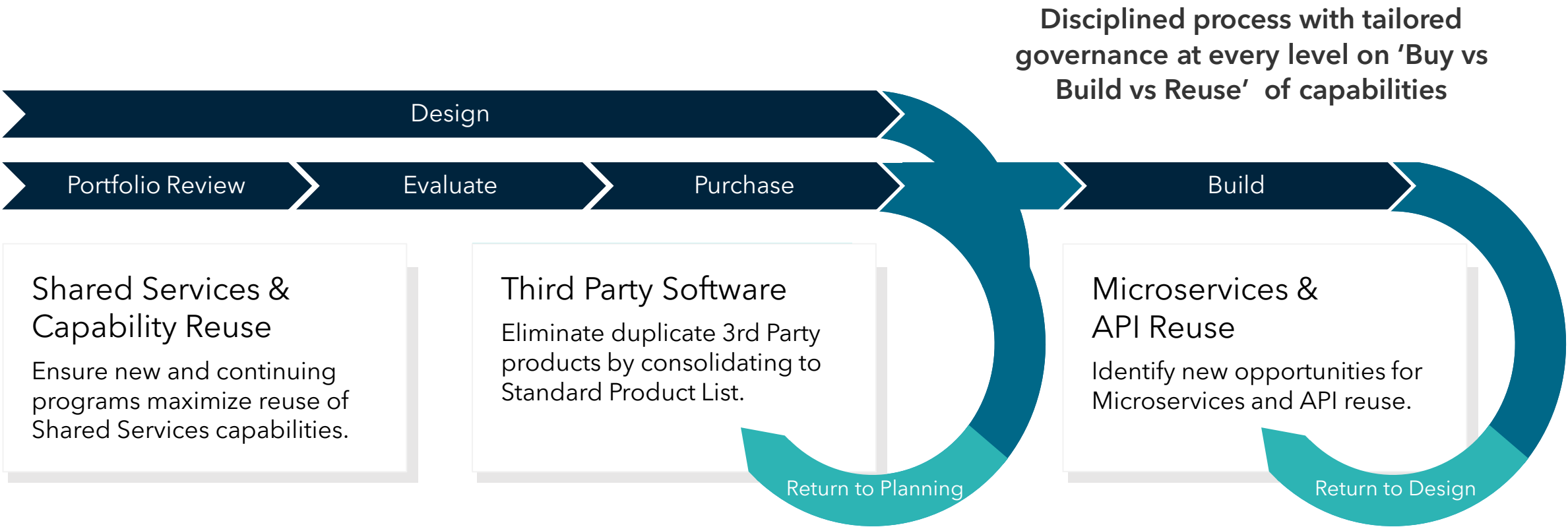
- For many customers working with APIs the decision to choose one provider over another is in the hands of their developers.
- API platforms need to be easy to use and understand without having to speak to sales.
- Website documentation is developer or expert focused and allows a prospect or client to try the service before they buy.

The time to first transaction can be as little as a few hours, and to operating at scale in just a few days.

Persona Based Approach

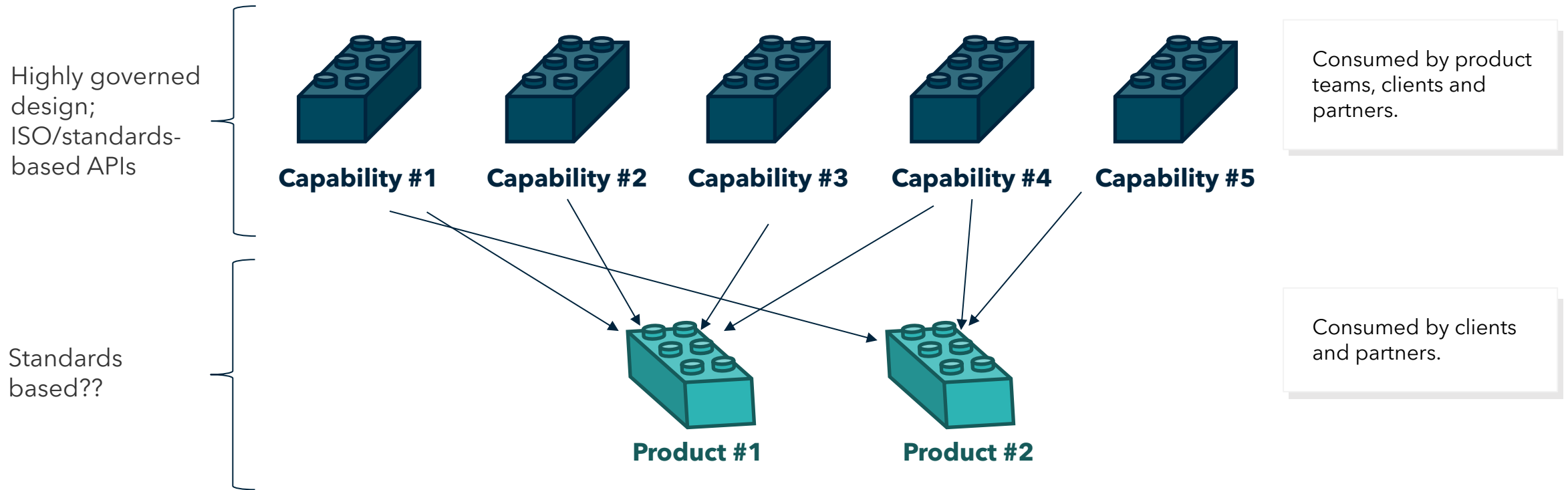
Stage	Targeted Persona(s)	Needs/Questions	Features of Good
Discover and Evaluate	• Business Head • Product Manager	• Is this of use to me? • <i>Could it solve my problem?</i> • <i>Will it meet my needs?</i> • <i>Are there any red flags?</i>	• User-friendly Design • Intuitive navigation • Product descriptions • Use cases • Logins/Accounts • Community
Learn	• Product Manager • Client Developer	• How does it work? • <i>Time to "Hello World"</i> • <i>Are the docs a good experience?</i>	• Quickstart guides • Well organized technical documentation • Code Samples (w/ mocking ability) • Collections • Pricing
Build	• Client Developer	• Can I build a proof of concept? • <i>Speed to MVP?</i> • <i>Is the product a good experience?</i> • <i>How do I get support?</i>	• API Playground/Sandbox • Extensions • Clear and market-aligned API policies • Changelogs
Scale	• Product Manager • Client Developer	• Can I build it to scale? • <i>Can I do more?</i> • <i>How do I offer feedback?</i>	• SLAs • Product breadth (Engineering) • Partner programs • Analytics
Internal Development Platform	• Internal Developers & Designers	• Can I enable a good experience? • <i>How do I design good product features at speed/scale?</i> • <i>How do I ensure standards are met?</i>	• Linters • Docs generation • Service registry • Gateway • Monitoring and logging

API First Governance



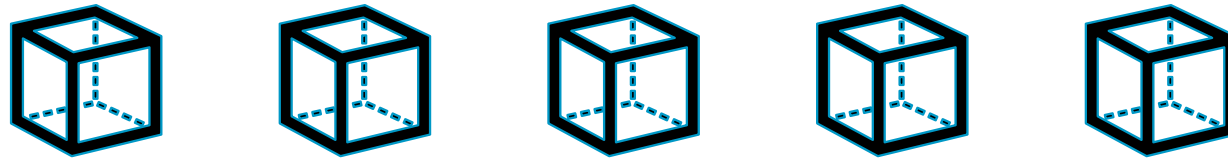
An API First approach drives application modernization and reuse. Monoliths are refactored into common capabilities for reuse as Shared Services, followed by decomposition into Microservices.

Product Development



API

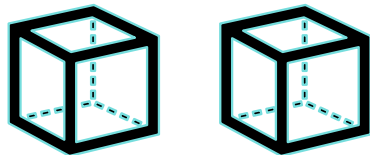
PRODUCT



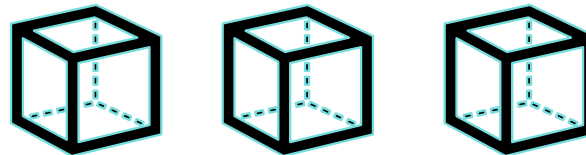
API

API

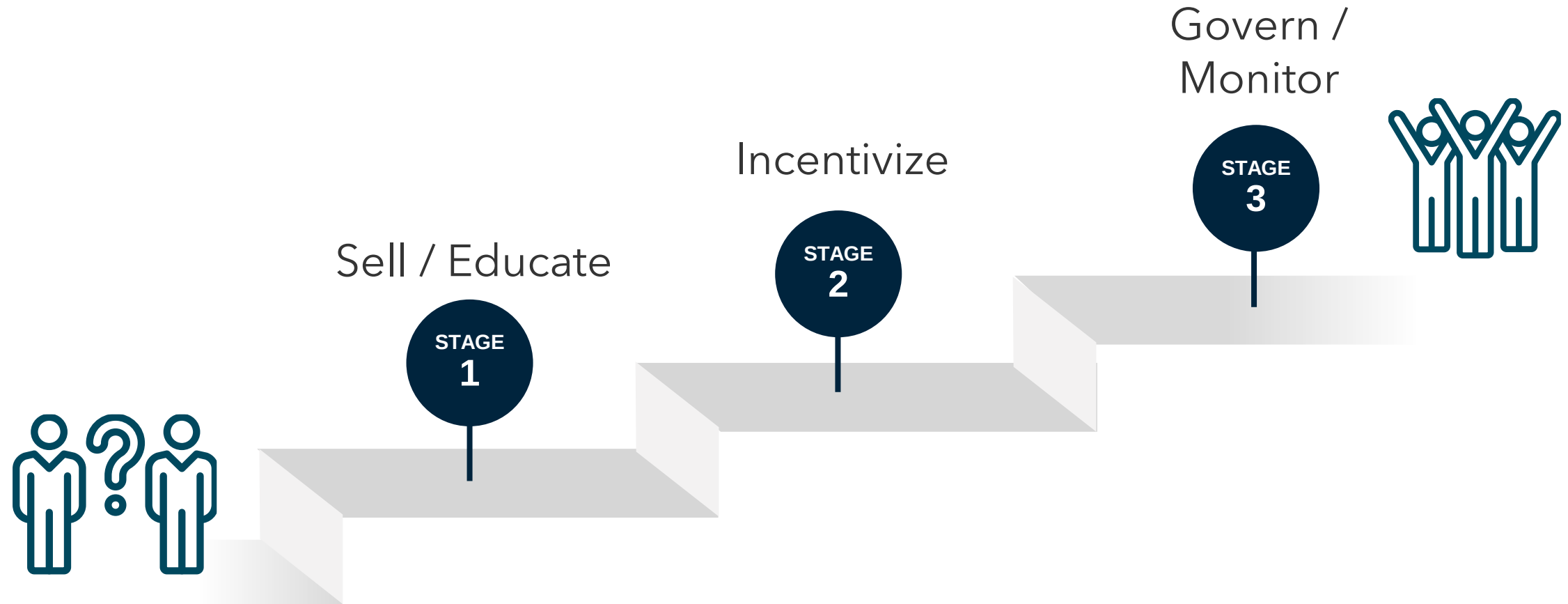
PLATFORM



CAPABILITY



It's a journey.....



Sandbox
Strategy is key;
and a challenge



Service Maturity Scoring

More mature = more adoption

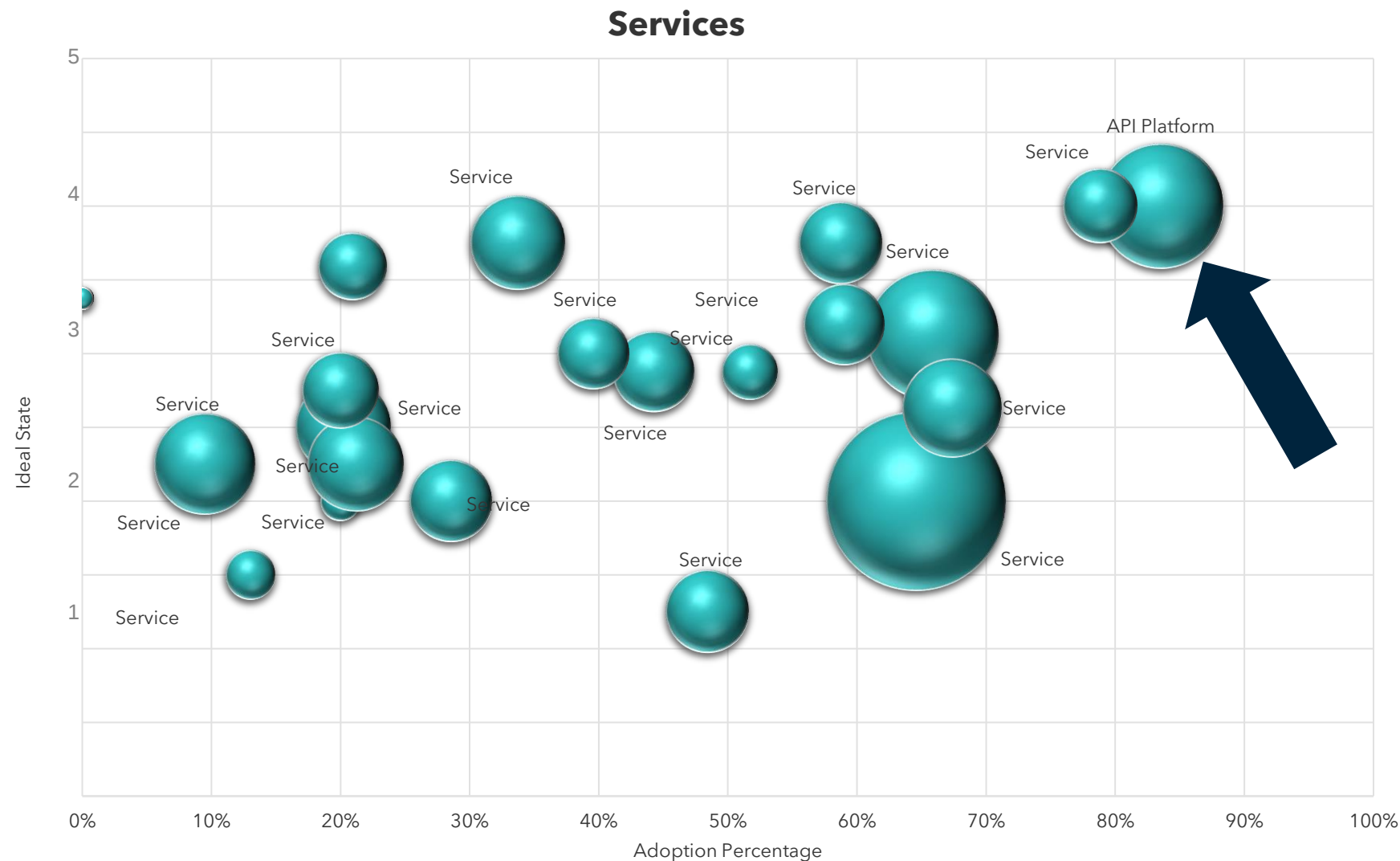
Business Fit

API Readiness

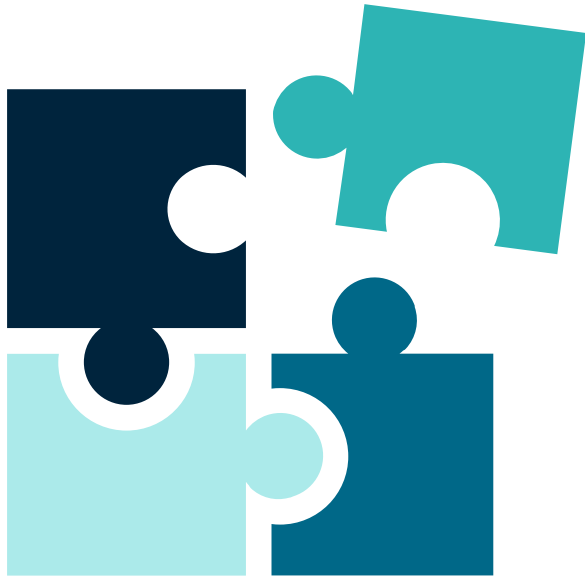
- Data Management
- Onboarding Ease/ Ease of Adoption
- Product Maturity

Technical Agility

- Scalability
- Resiliency
- Security
- Standards



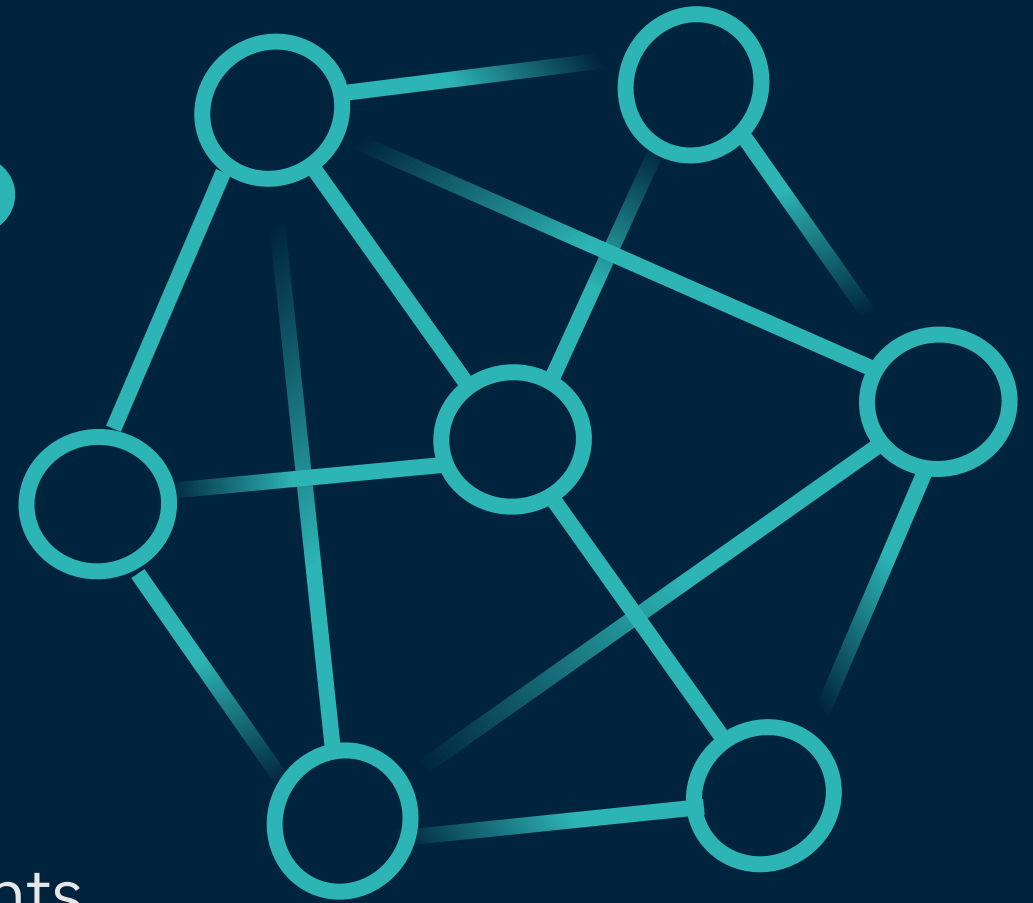
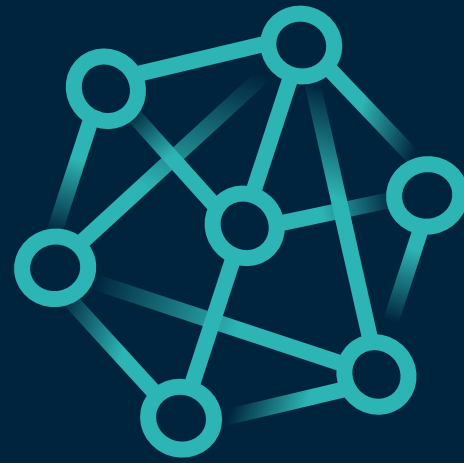
Breaking Down Silos



Driving innovation,
efficiency, product
development / enrichment



Borderless Integration



Ambition is a platform where our clients can't separate where our technology, products and services end and theirs begin.

What about AI?

Enrich LLMs with core business and client data via existing APIs.

Increased ROI

LLMs represent another channel to leverage your investment in well designed and protected APIs accessing core business and client data.



Entitlement & Rights Management

The “closed loop” ecosystem delivers built in data access control.



Real-time Access to Business Data & Capabilities

Enrich models with real-time data and the ability to enter / modify transactions.



- Fintech Mentality
- Domain Specific Models
- Data Loss Protection
- Investment Control

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