

ThoughtWorks®

**TECH LEADERSHIP IN A
RESPONSIVE ORGANISATION**

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ThoughtWorks®

ENTERPRISE
ARCHITECTURE

~~TECH LEADERSHIP IN A
RESPONSIVE ORGANISATION~~

AGILE

Scott Shaw

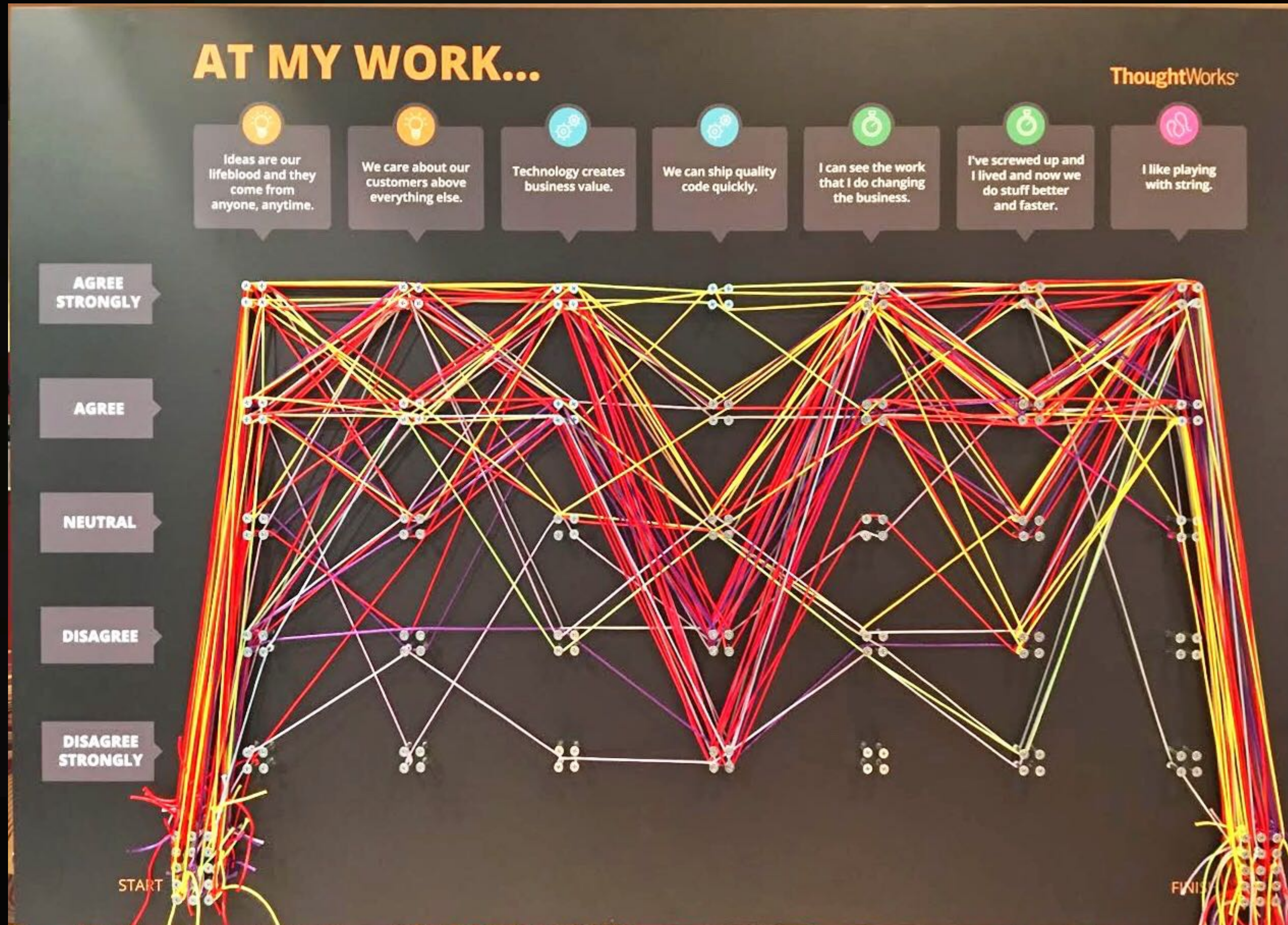
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Enterprise Architecture

Agile

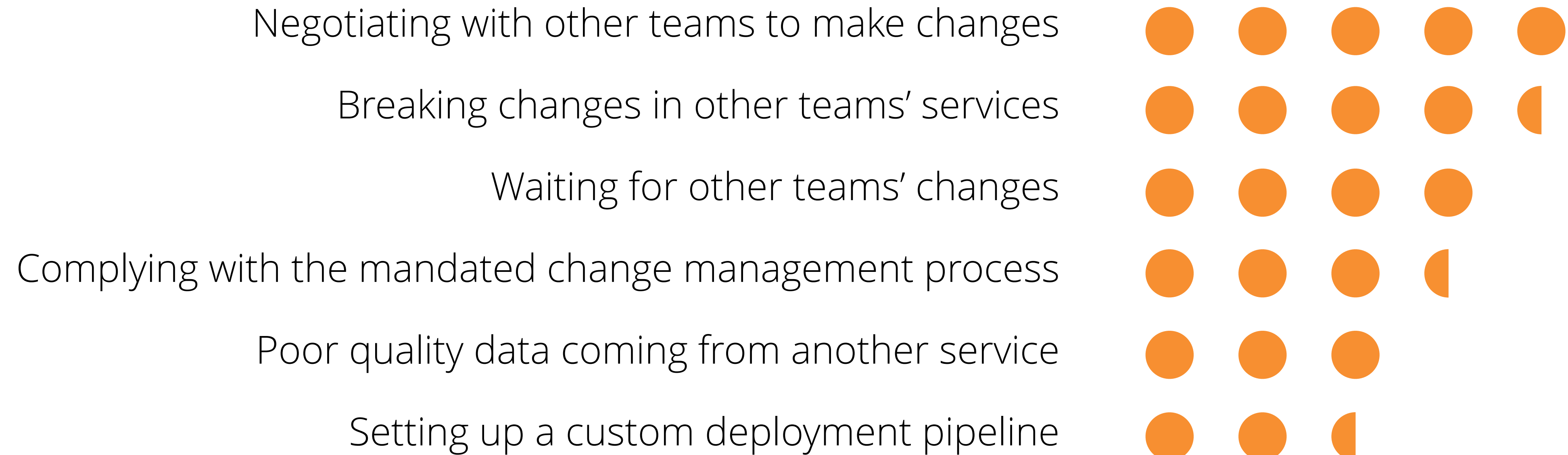
ORGANISATIONS STILL CAN'T SHIP CODE QUICKLY



DEVELOPER EXPERIENCE IN MOST ENTERPRISES

STILL SUCKS

Developer Pain Point Survey



HOW DID WE GET HERE?



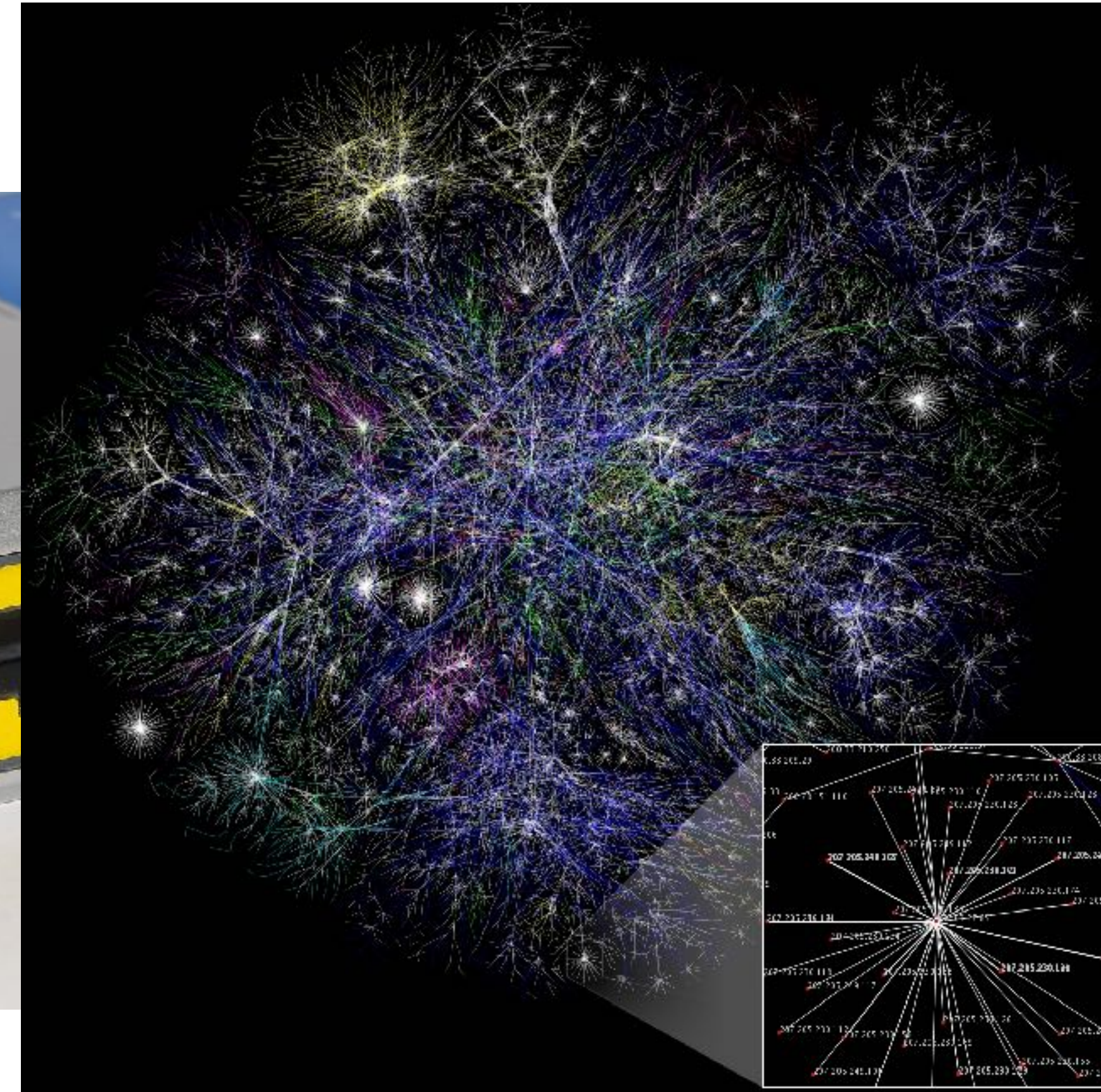
HOW DID WE GET HERE?

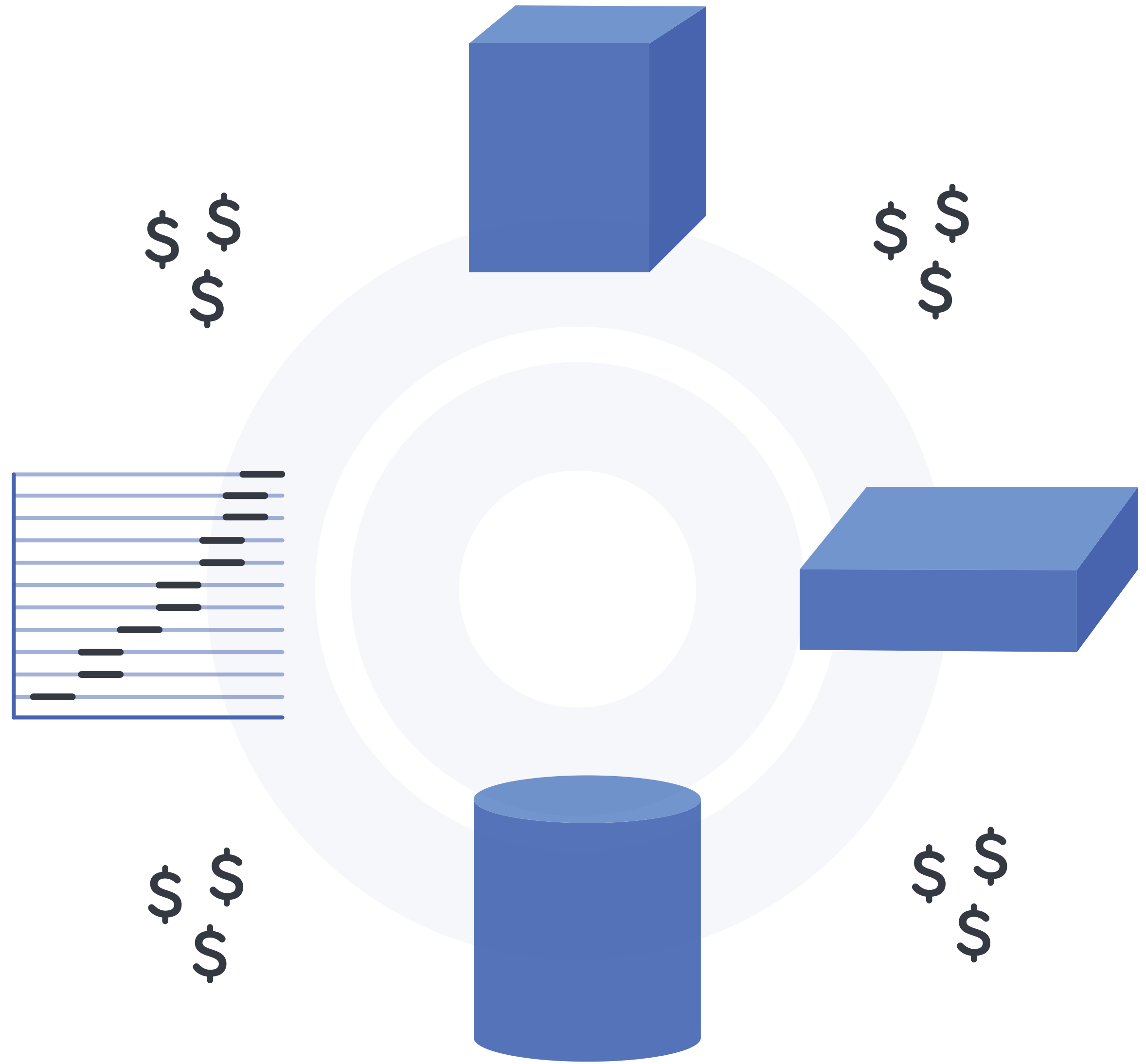


HOW DID WE GET HERE?



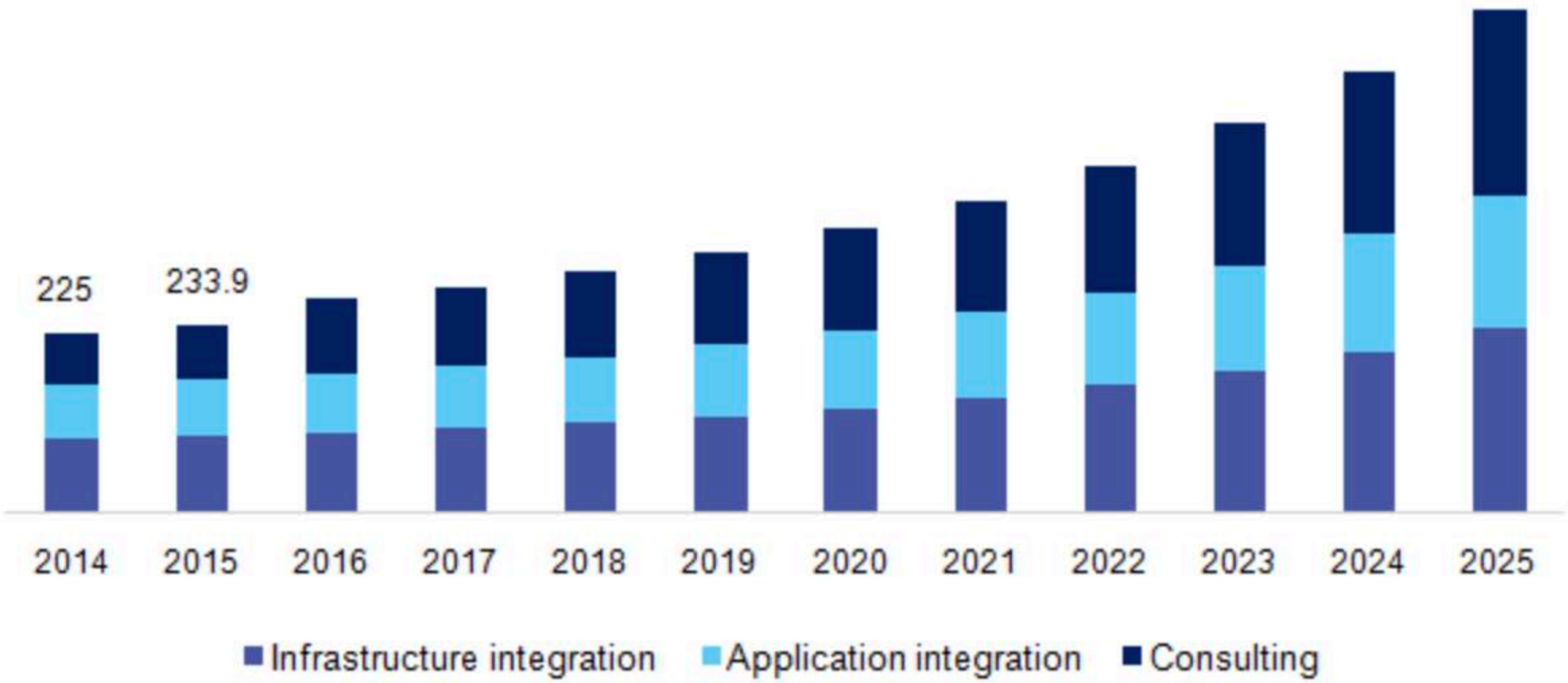
HOW DID WE GET HERE?





GLOBAL SYSTEM INTEGRATION MARKET BY SERVICES

2014 - 2025 (USD BILLION)



CIO

Budgets
Schedules
Projects
Org Structure

TECH LEADERS

Packages Selection
System Integration
Roadmaps
Standards
Design Approval

CIO

~~Budgets~~

~~Schedules~~

~~Projects~~

~~Org Structure~~

Capacity

Agile

Lean PMO

Tribes, Squads ...

TECH LEADERS

Packages Selection

System Integration

Roadmaps

Standards

Design Approval



**CLOUD
PLATFORMS**



**DIGITAL
PLATFORMS**



**BIG
DATA**



**DEMAND FOR
TECHNICAL TALENT**

CIO

~~Budgets~~

~~Schedules~~

~~Projects~~

~~Org Structure~~

Capacity

Agile

Lean PMO

Tribes, Squads ...

TECH LEADERS

~~Packages Selection~~

~~System Integration~~

~~Roadmaps~~

~~Standards~~

~~Design Approval~~

You build it, you run it

+ ? ? ? ?

TWO QUESTIONS ...

- 1** **What** is the alternative to system integration?
- 2** In a YBIYRI world, who guides the tech decisions and **how**?

WHAT?

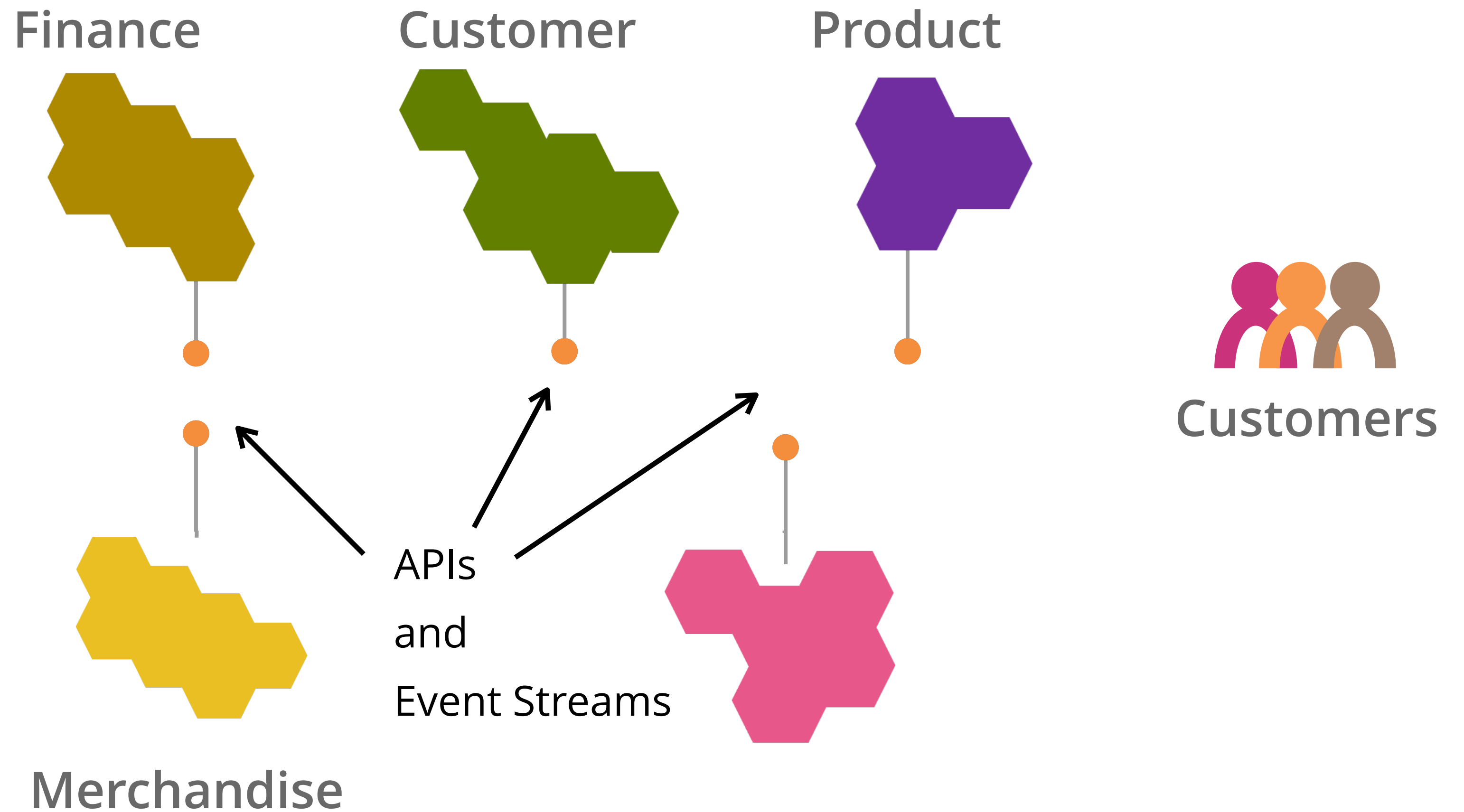
WHAT ARE YOUR CORE BUSINESS CAPABILITIES?



SYSTEMS TIGHTLY COUPLED ACROSS BOUNDARIES



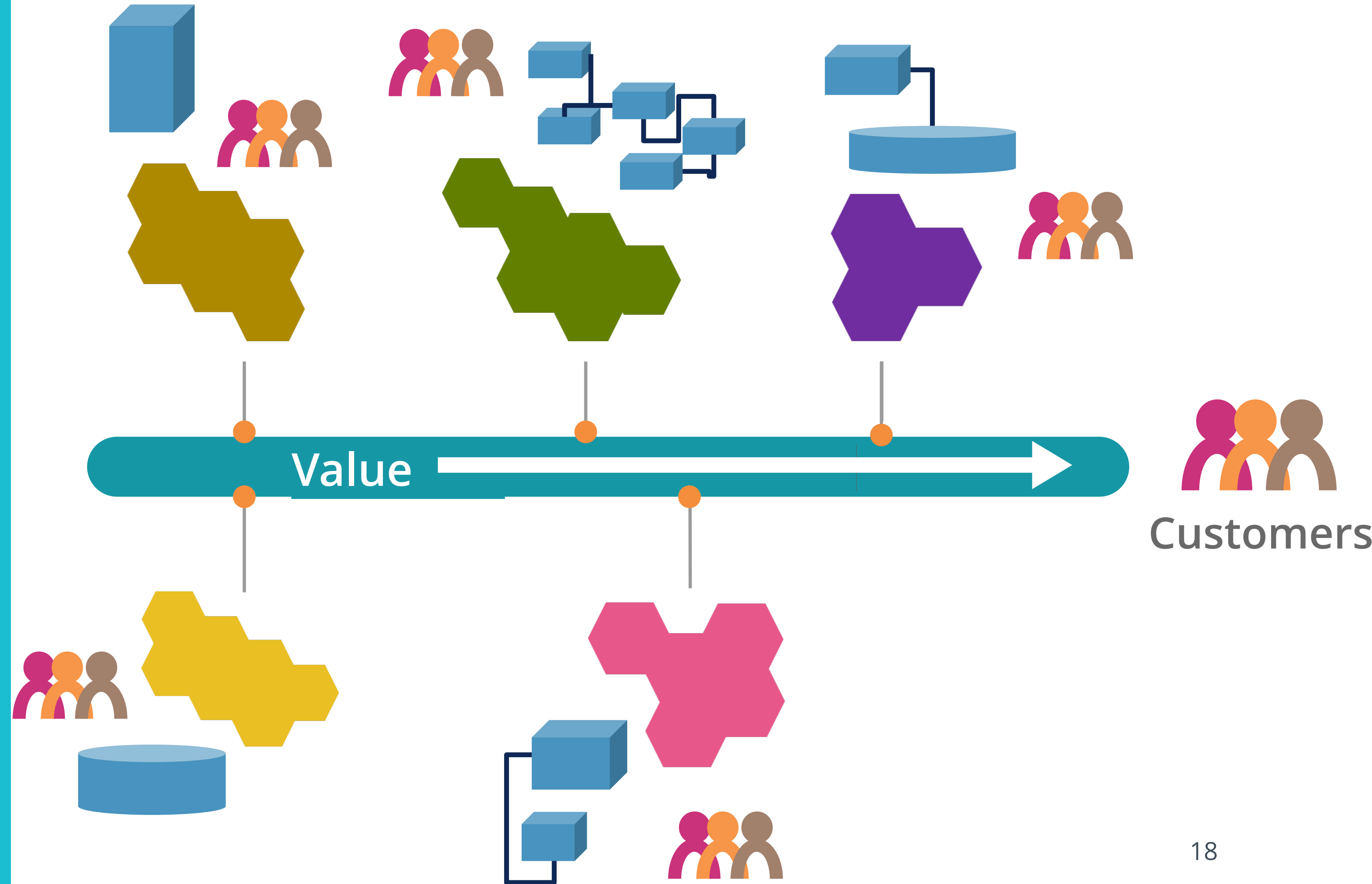
DECOUPLE ACROSS DOMAIN BOUNDARIES VIA APIS



**AUTONOMOUS
TEAMS**

**COMPELLING
OFFERINGS**

**INTERNAL
CUSTOMERS**



Agile Delivering Technology

Technology Delivering Agile

HOW?

"Mark has found the IT leadership cheese after Agile moved it. Finally, an idea of how to structure IT, including leadership and the teams, and joining the business and IT together!"

—Joshua Seckel, Chief Engineer at WhiteHawk CEC, Inc.

a *Seat at the* Table

MARK SCHWARTZ

Author of *The Art of Business Value*



IT Leadership in the Age of Agility

The EA asset evolves over time through incremental investments. IT leaders must invest wisely with the goal of managing it. Grooming it. Stewarding or cultivating it so that it can easily adapt to meet tomorrow's needs.

Schwartz, Mark. A Seat at the Table and The Art of Business Value (Kindle Locations 2110-2112). IT Revolution Press. Kindle Edition.

LEAD BY PRINCIPLE, NOT PRESCRIPTION

STRATEGIC PRIORITIES

Examples

- Data enable and digitise
- Enable high performance
- Innovate
- Scale effectively

ARCHITECTURAL PRINCIPLES

Examples:

- Build the core; outsource the fringe
- Consistent interface and data flows
- Data is key
- Design for independence and autonomy
- No silver bullets
- Proactively manage technical debt

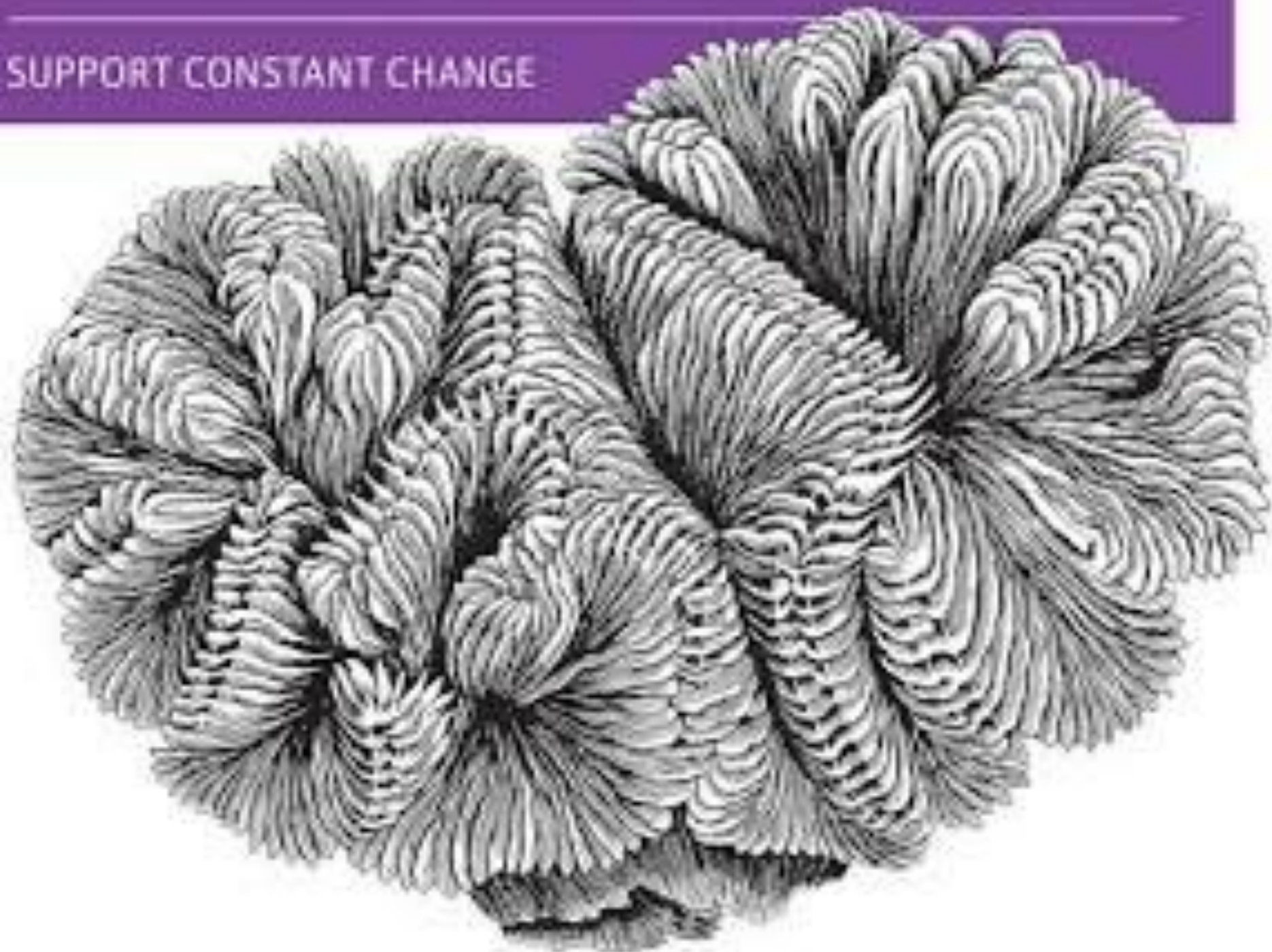
DESIGN AND DELIVERY PRACTICES

Examples:

- Consolidated data
Consumer-driven API's
- Continuous deployment
- Devops
- Domain driven design and bounded contexts

Building Evolutionary Architectures

SUPPORT CONSTANT CHANGE



Neal Ford, Rebecca Parsons & Patrick Kua

EVOLUTIONARY ARCHITECTURE

Incremental Change

Appropriate coupling

Guided change with **fitness functions**

EVOLUTIONARY ARCHITECTURE

INCREMENTAL CHANGE

GUIDED CHANGE WITH FITNESS FUNCTIONS

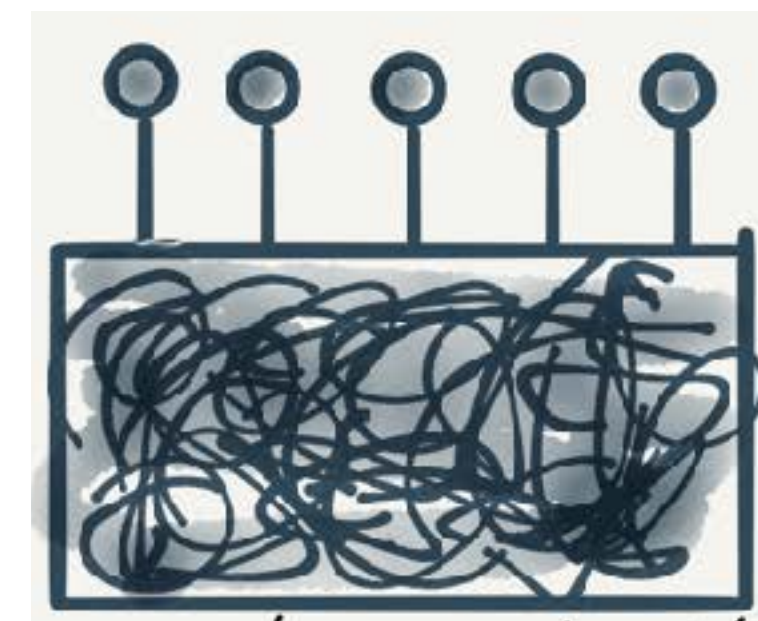
APPROPRIATE COUPLING



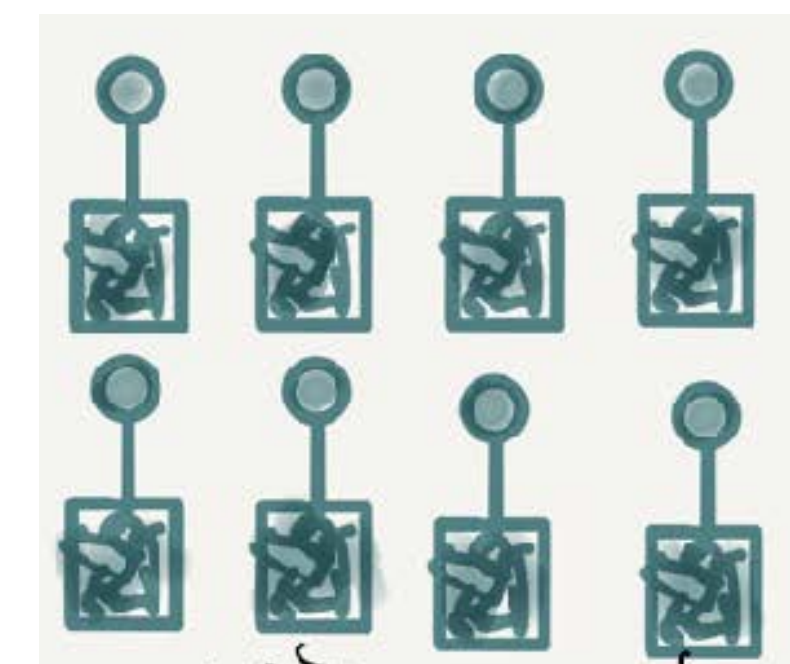
BIG BALL OF STRING



LAYERS OF STRING



LAYERS OF STRING WITH APIS



MICROSERVICES OF STRING

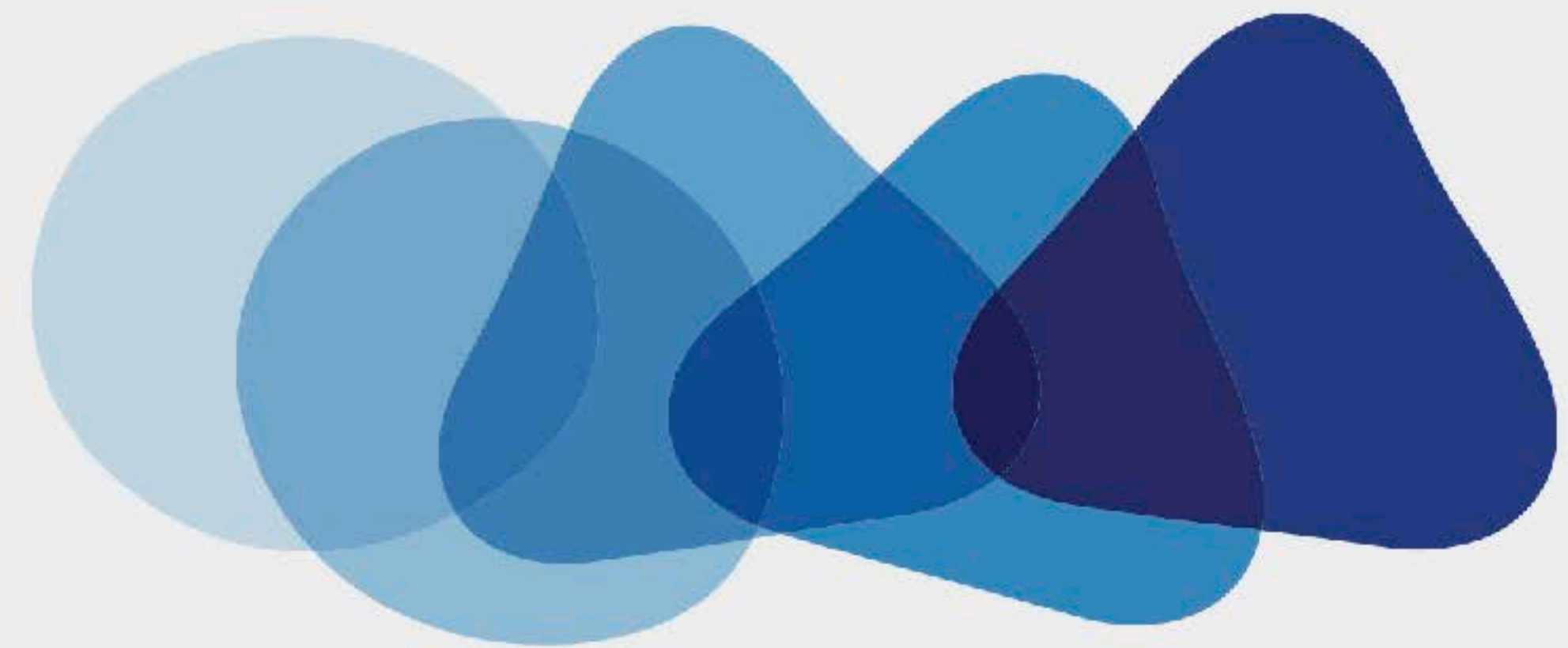
ENGINEERING CULTURE



ThoughtWorks®

TECHNOLOGY RADAR VOL.18

Our thoughts on the technology and trends that are shaping the future



thoughtworks.com/radar

#TWTechRadar

Engineering Culture



^ colab



REA Tech Building Blocks

ENGINEERING CULTURE

DX

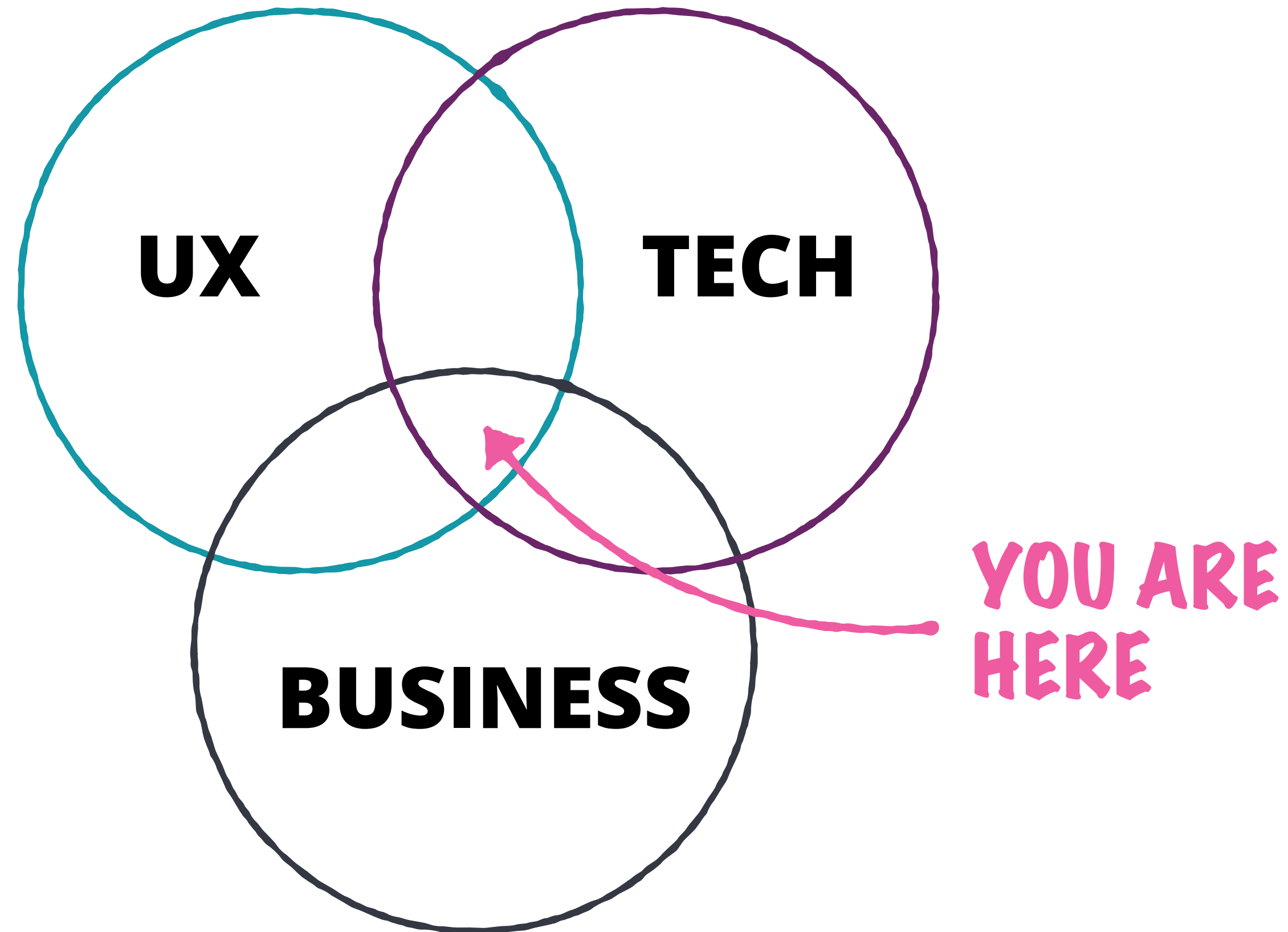
developer experience as a fitness function

DX HIERARCHY OF NEEDS



WHAT IS THE MODEL FOR TODAY'S ENTERPRISE TECHNOLOGY LEADER?

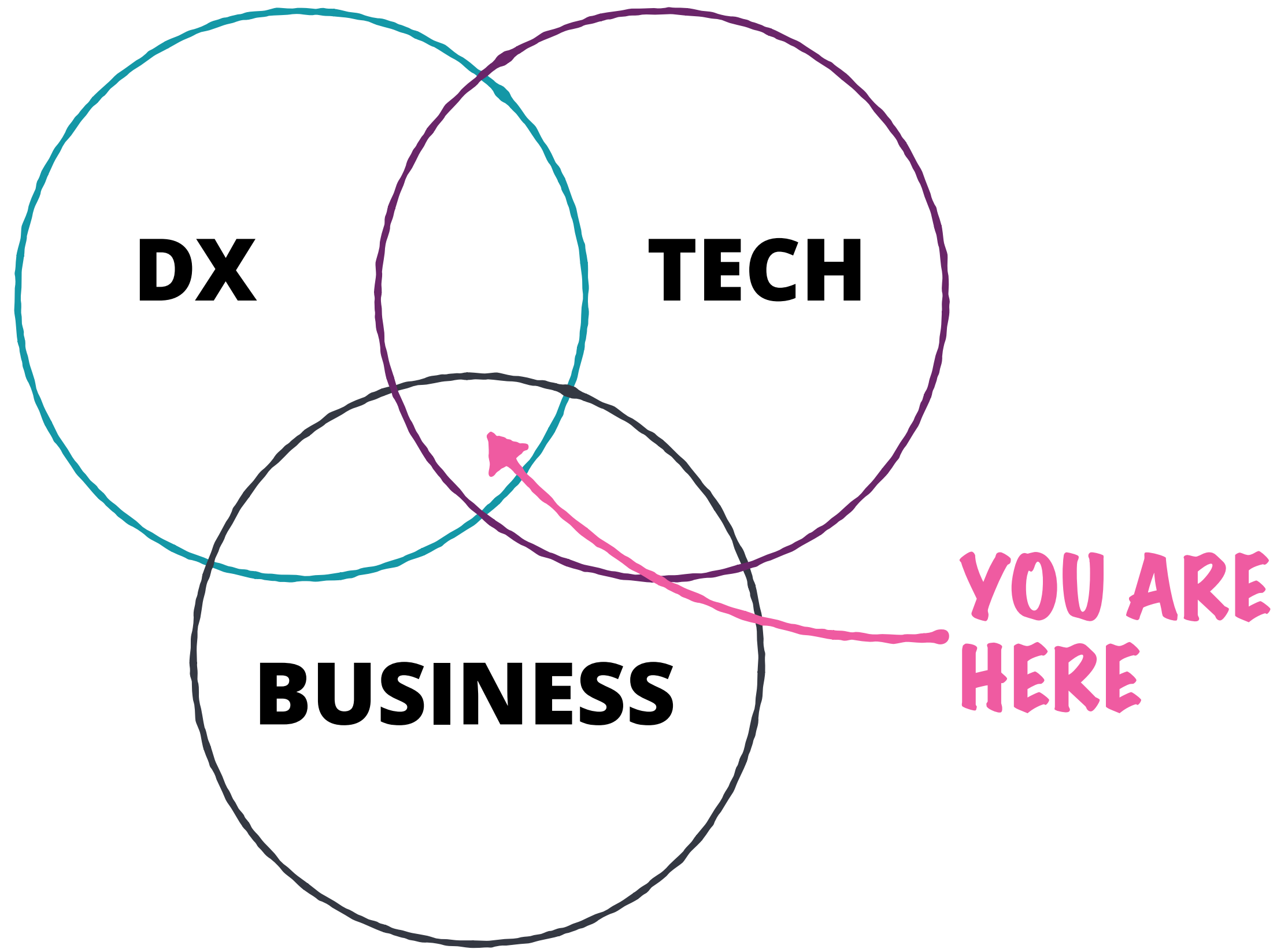
CONSIDER THE PRODUCT MANAGER



“A good product manager must be experienced in at least one, passionate about all three, and conversant with practitioners in all.”

- Martin Eriksson

THE NEW ENTERPRISE TECH LEADER



Steward of the
technology asset

Deeply technical

Partner to the business

Empathy for the
developer experience

THANK YOU!

Scott Shaw

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