



Enterprise DevOps: Steps to Consider on the Dev Side for Faster App Releases

April 21, 2016

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Hosted By



Jim Copio
Carolinas Chapter Leader
BSM SIG Leader



Today's Speakers



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Hewlett Packard Enterprise



Housekeeping

- This “LIVE” session is being recorded
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Please type questions in the Questions Pane

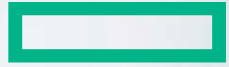


Webinar Control Panel

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Full screen/window mode.

Questions





Hewlett Packard
Enterprise

Accelerating innovation: Enterprise DevOps



Digital revolution

Software driving differentiation



Innovating faster...

means **building, testing and releasing**
quality software **faster** and more
frequently.

Every business is a software business today!

The challenge:

Building high quality apps at the speed of business

With today's competing priorities,
**how do I prioritize
my investments
and planning?**

How do I
**deploy
apps faster?**

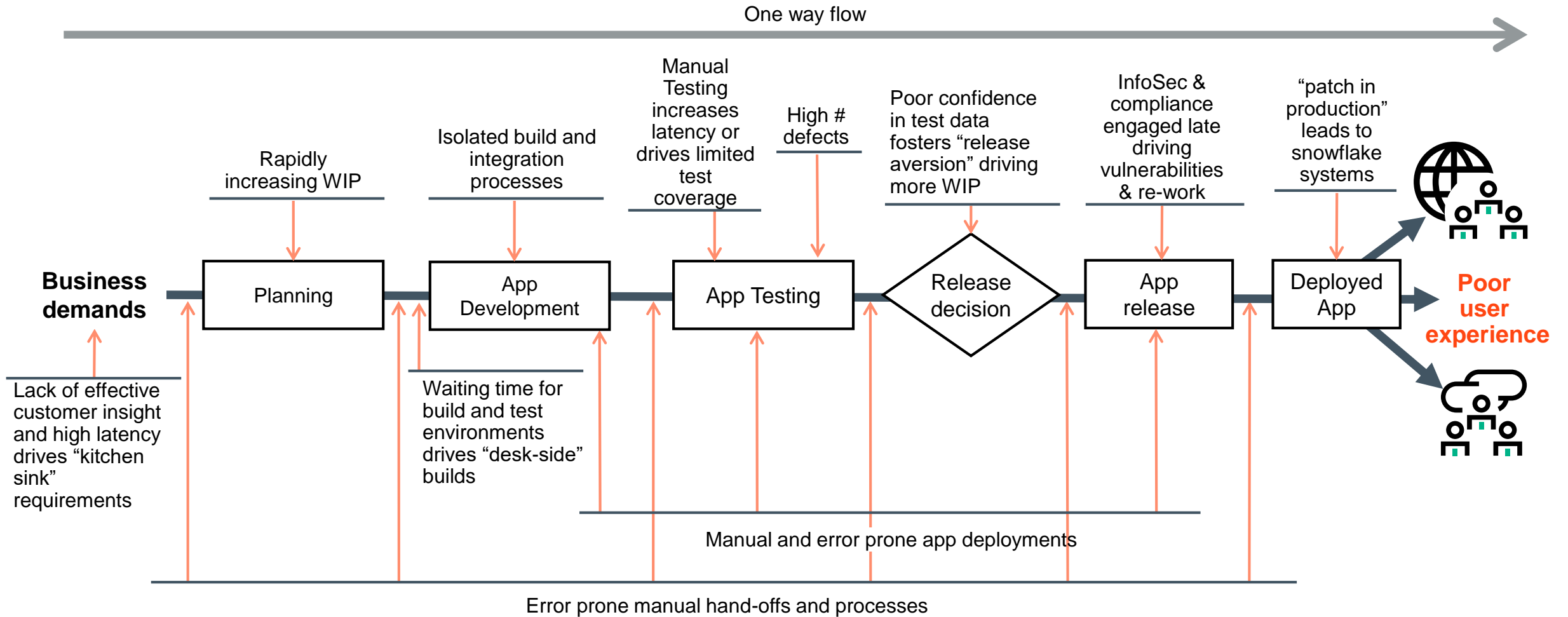
How do I decide
what to test,
how to do it
continuously, and
manage it all?

How do I ensure my app
**is secure and
reliable**
To minimize business
risk?

How do I measure how
**end users are
experiencing
my apps ?**

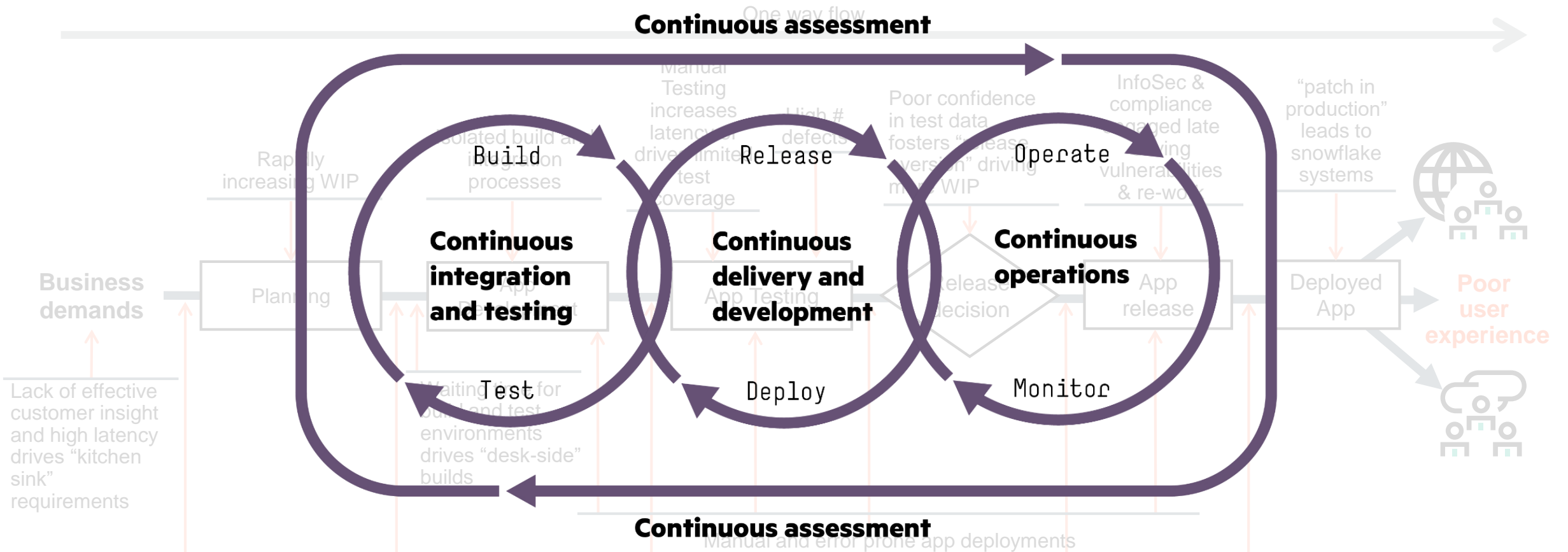
How do I
**isolate
problems
faster?**

High velocity innovation, multiple constraints



Locally optimized teams, measures and tools drives escalating WIP, lack of end-to-end visibility and trust

DevOps addresses high velocity innovation

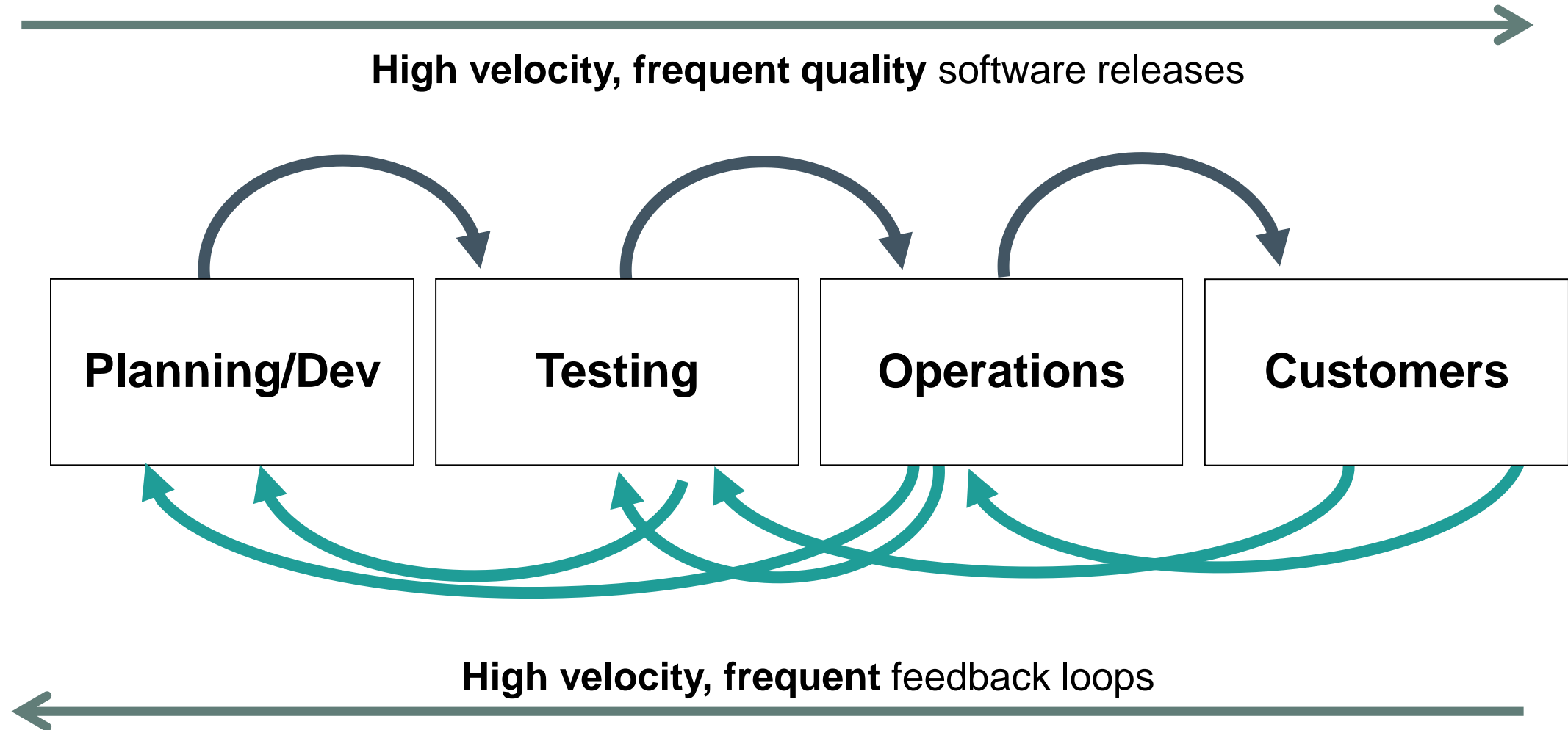


DevOps allows development, quality assurance, and IT operations to meet customer needs.

This integrated team approach facilitates communication, collaboration and integration to manage today's rapidly changing business demands.

Increased velocity requires rapid feedback

DevOps enhances feedback at all steps in the lifecycle

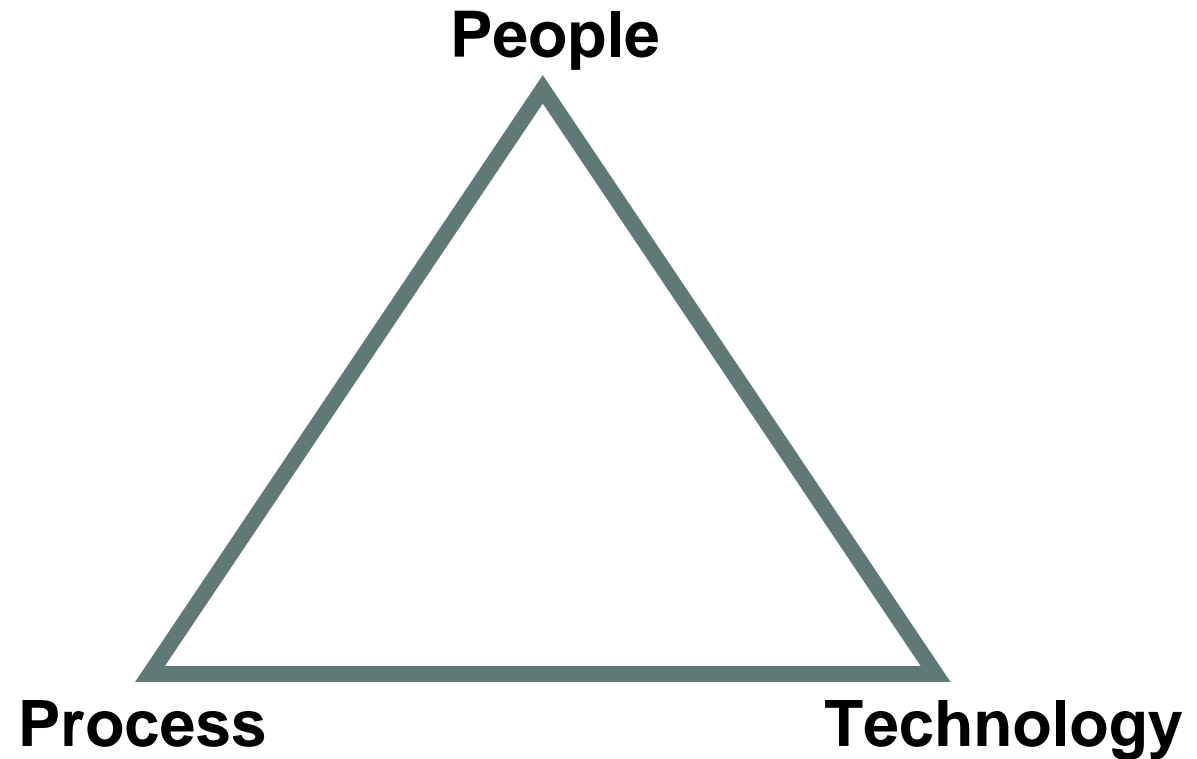


However, getting to DevOps calls for a collaborative approach

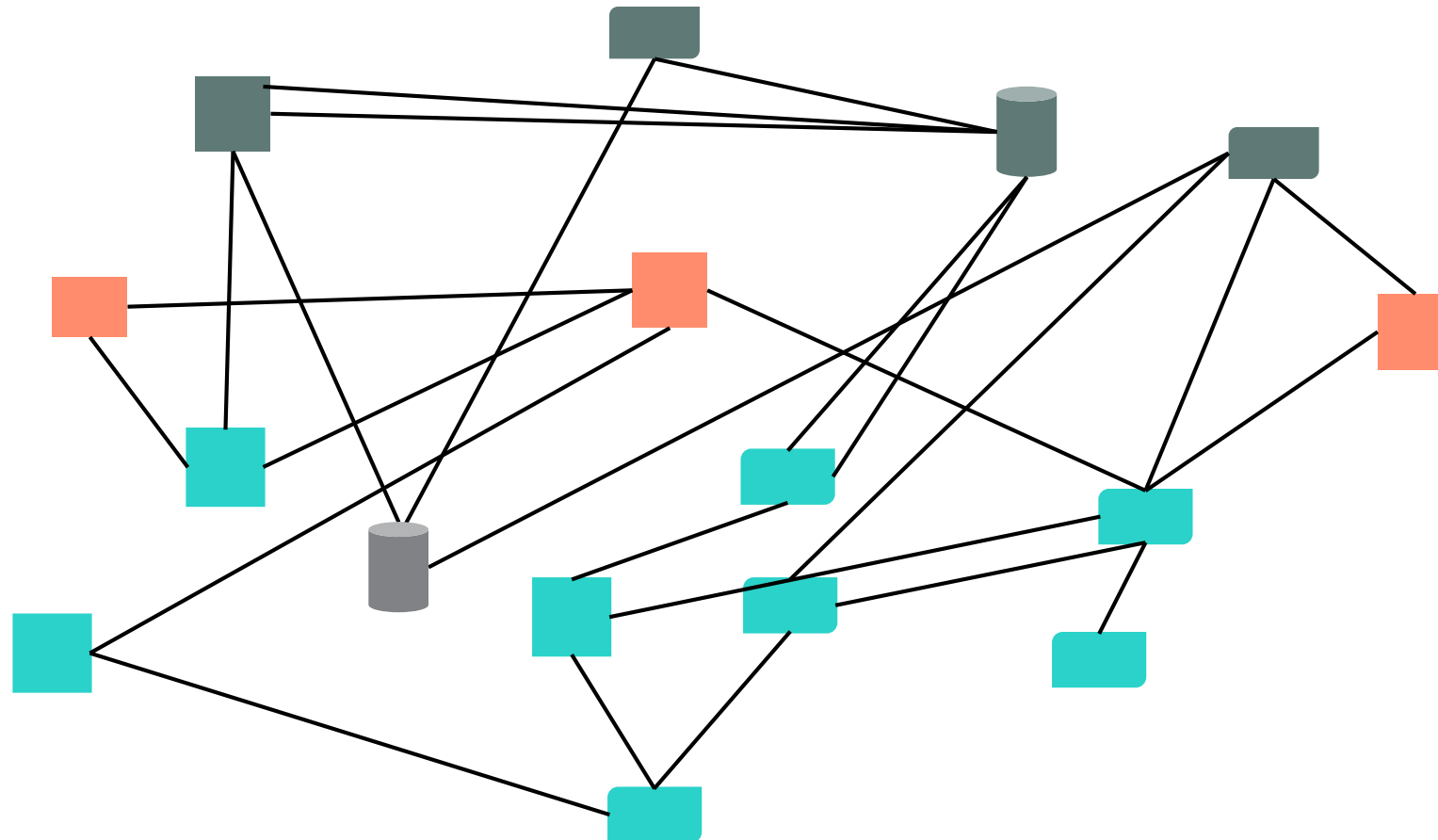
It requires sustained effort



- Not a product, spec, job title
- No one true authority
- No one way



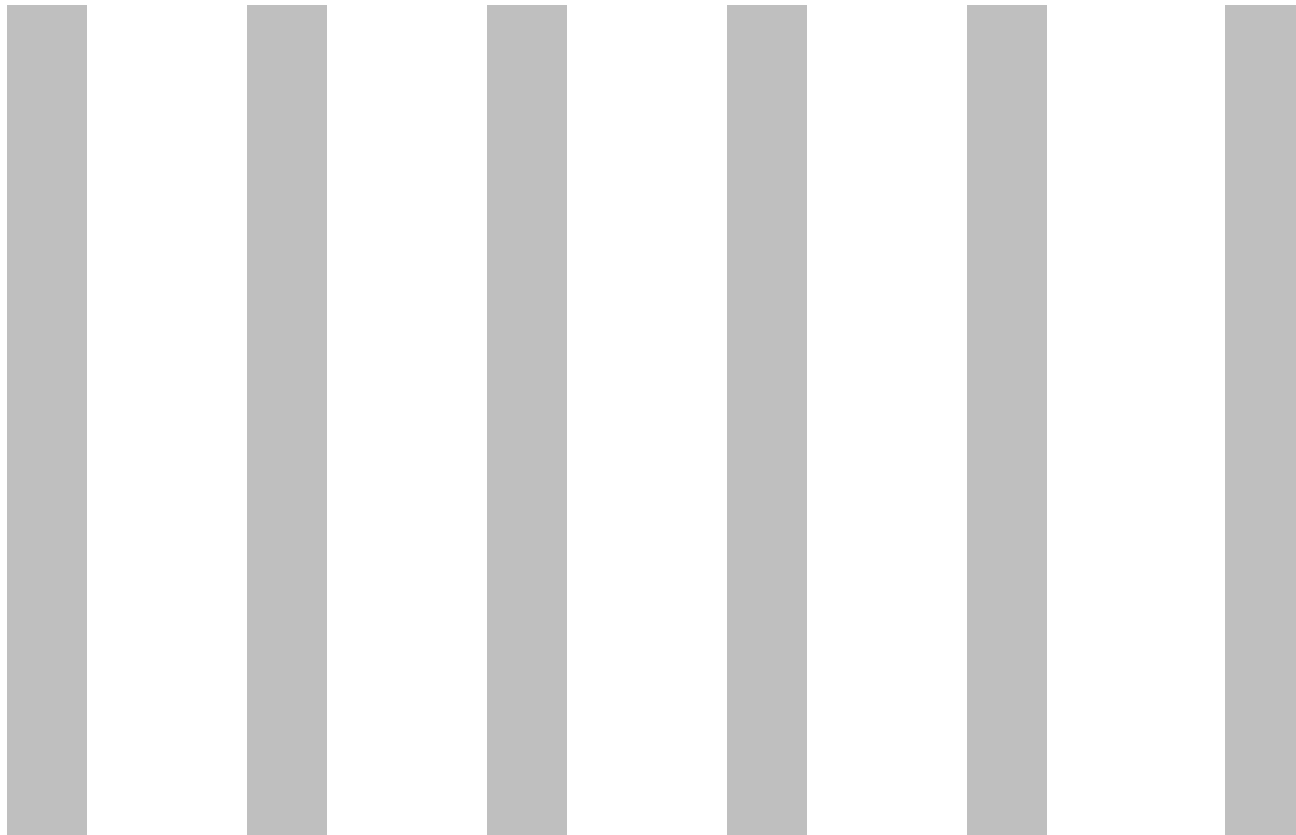
Enterprise IT is very complex



Systems are tightly coupled
Interrelated
Complex
Brittle

IT is built on silos

PMO Requirements Dev Test Security Production

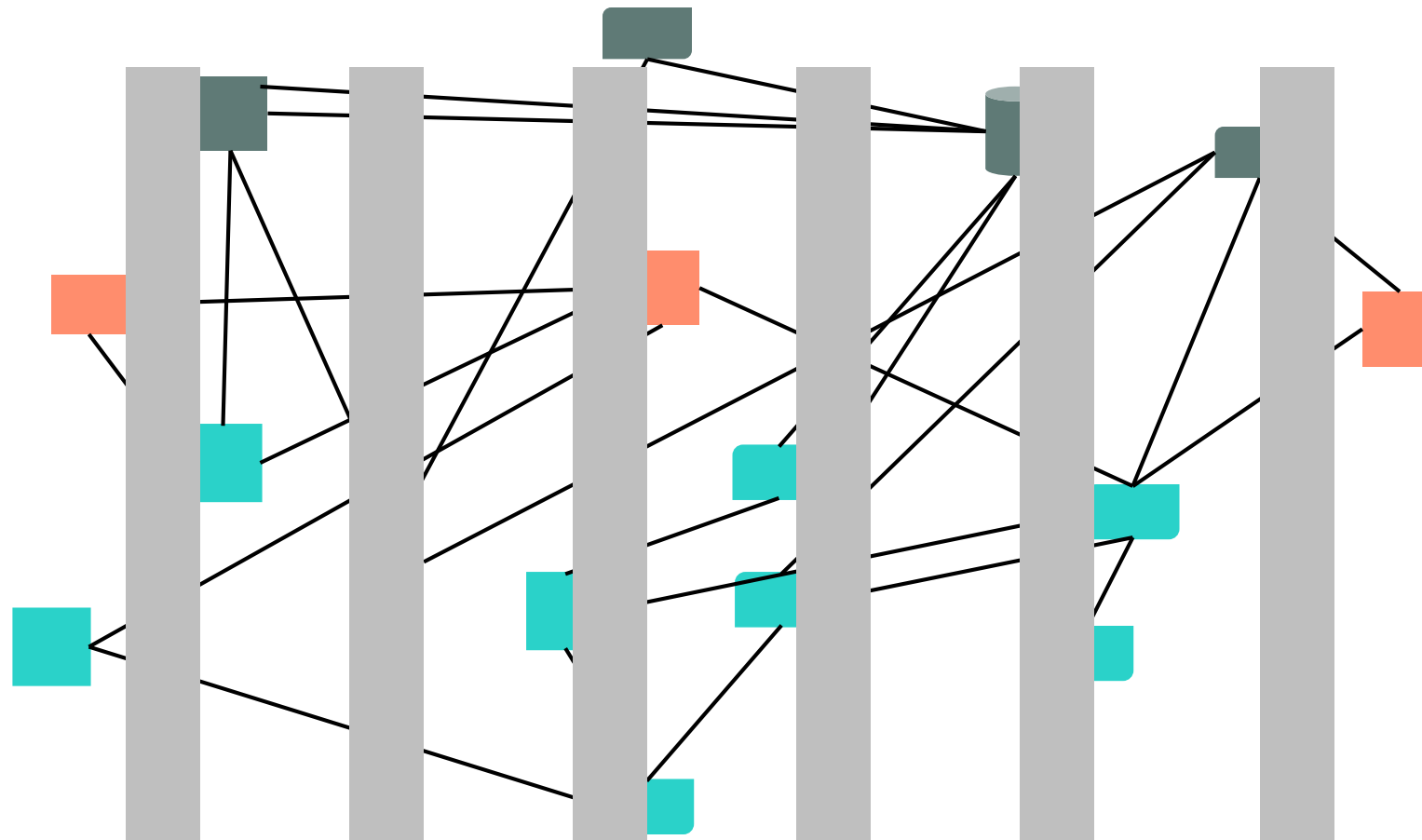


IT is organized into teams based on common skills, disciplines and technology

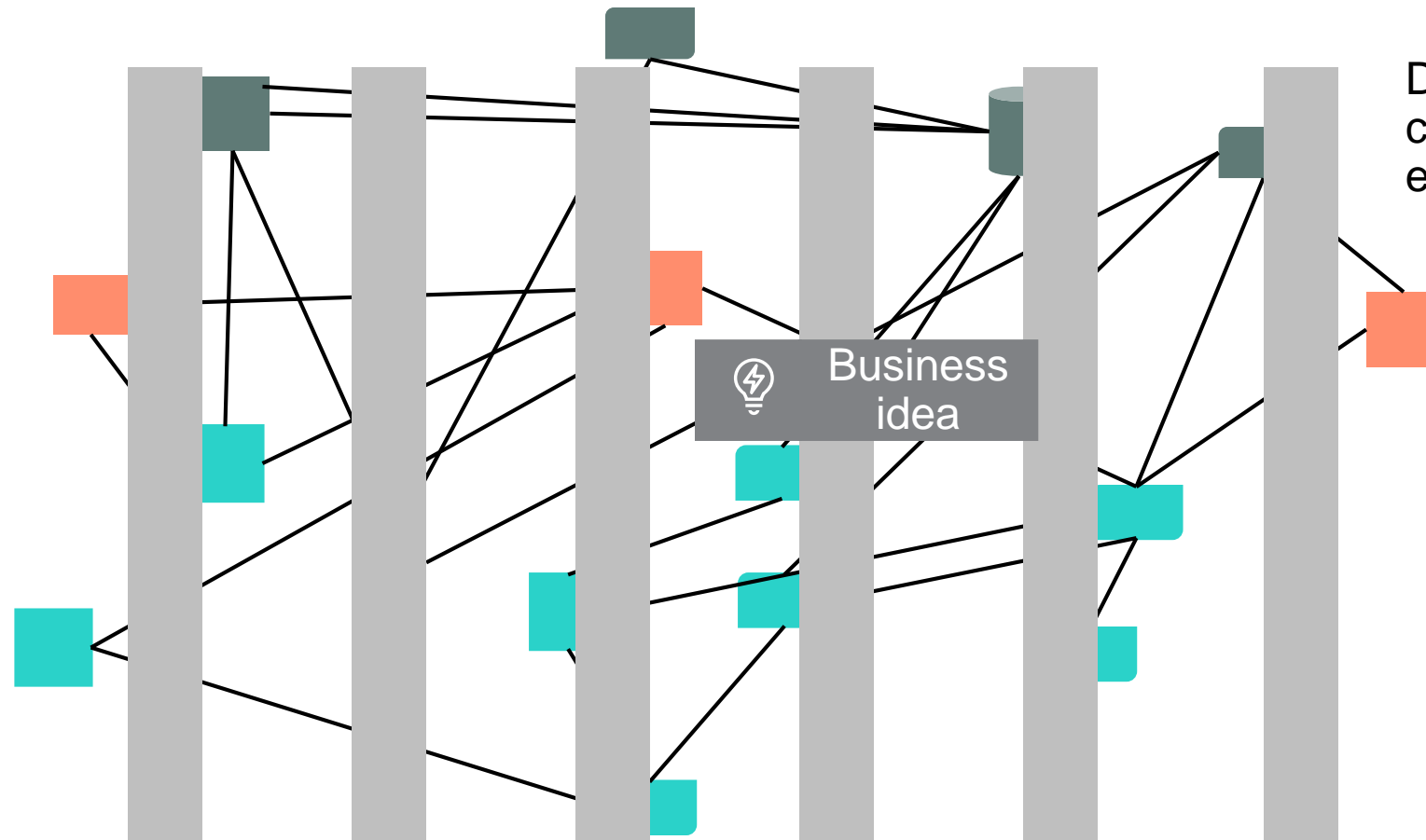
Each plays a vital role in running IT

Work typically flows from team to team

PMO Requirements Dev Test Security Production

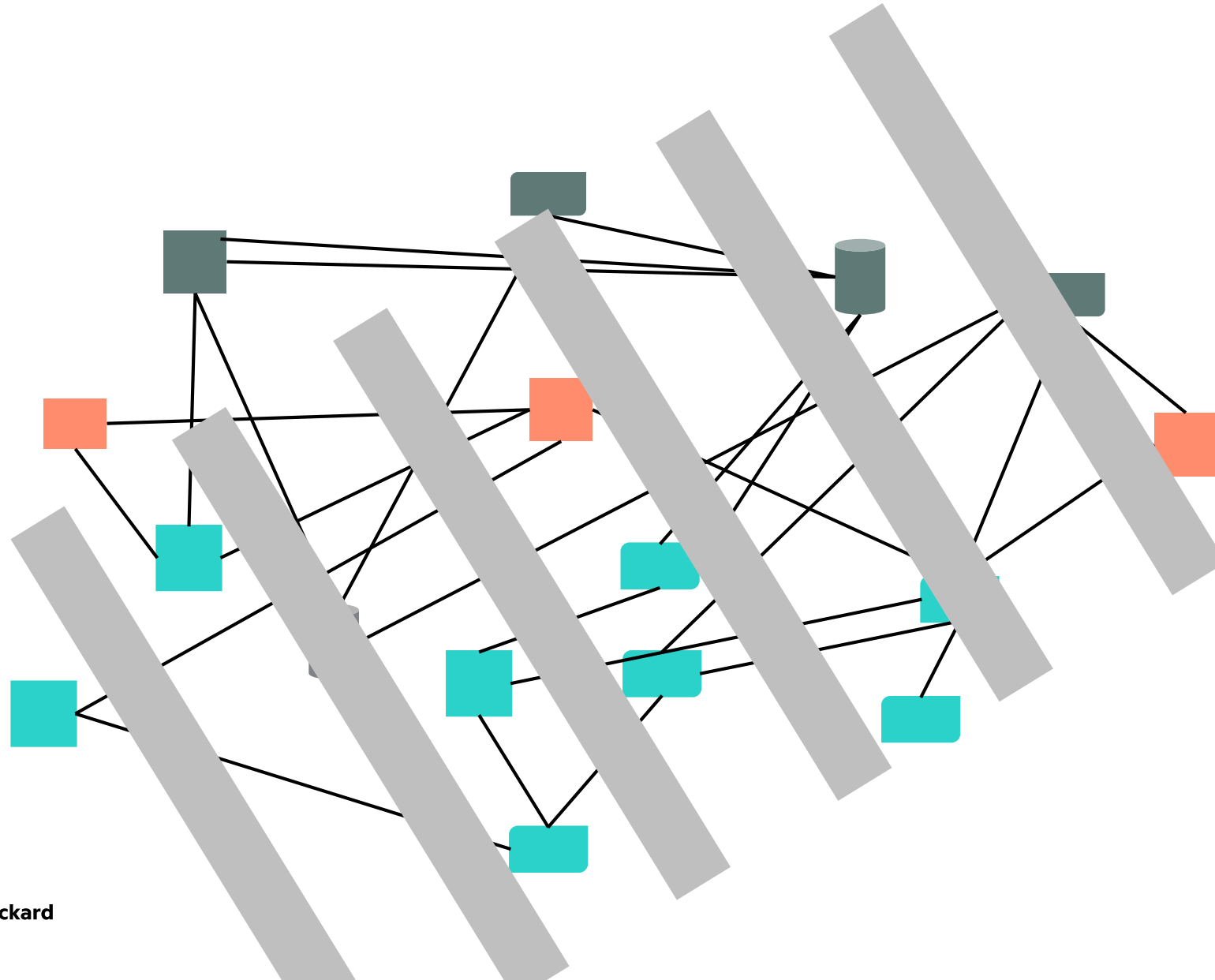


PMO Requirements Dev Test Security Production

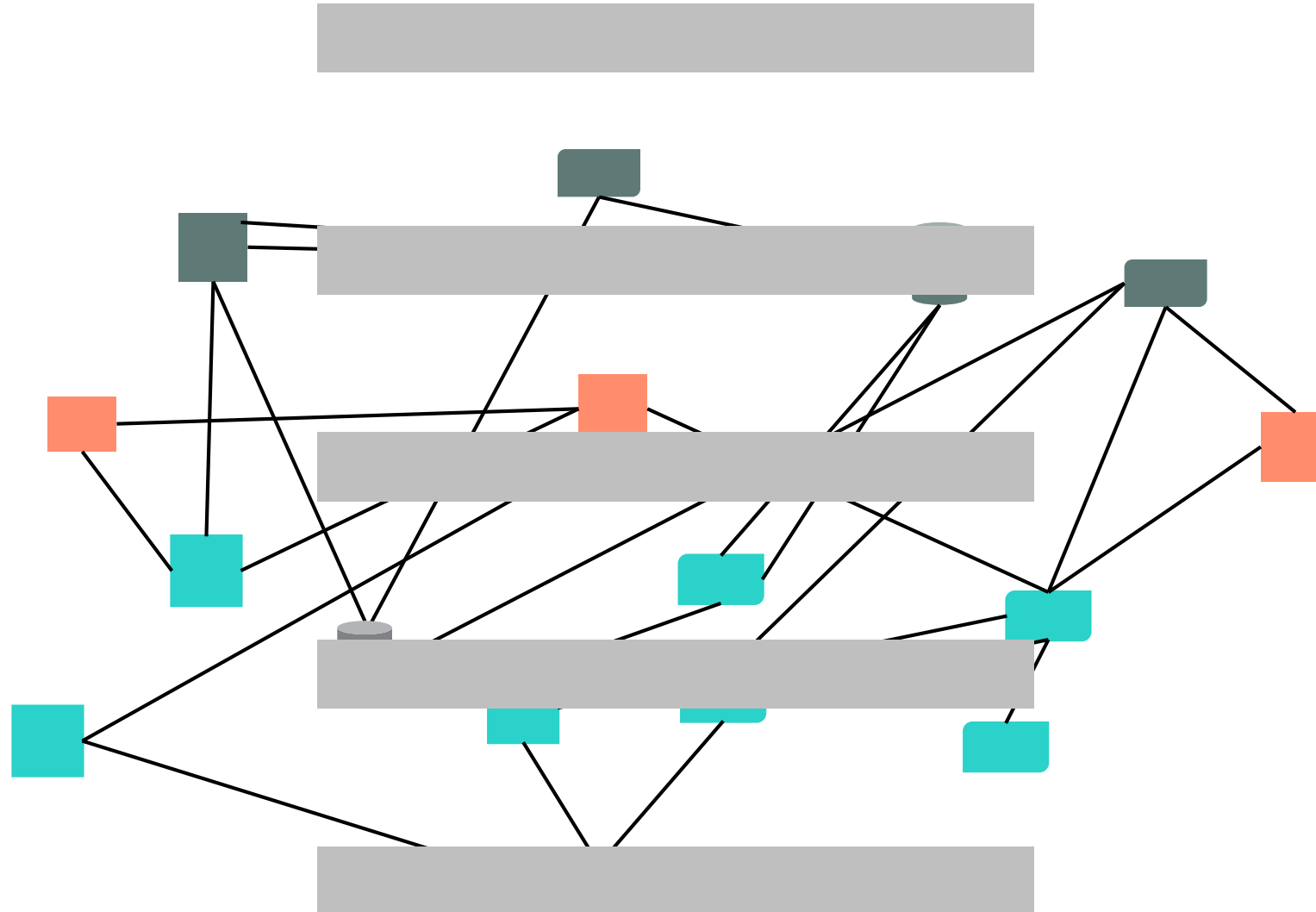


Delivering a new business idea
can be very, very, very, very
expensive, slow and hard

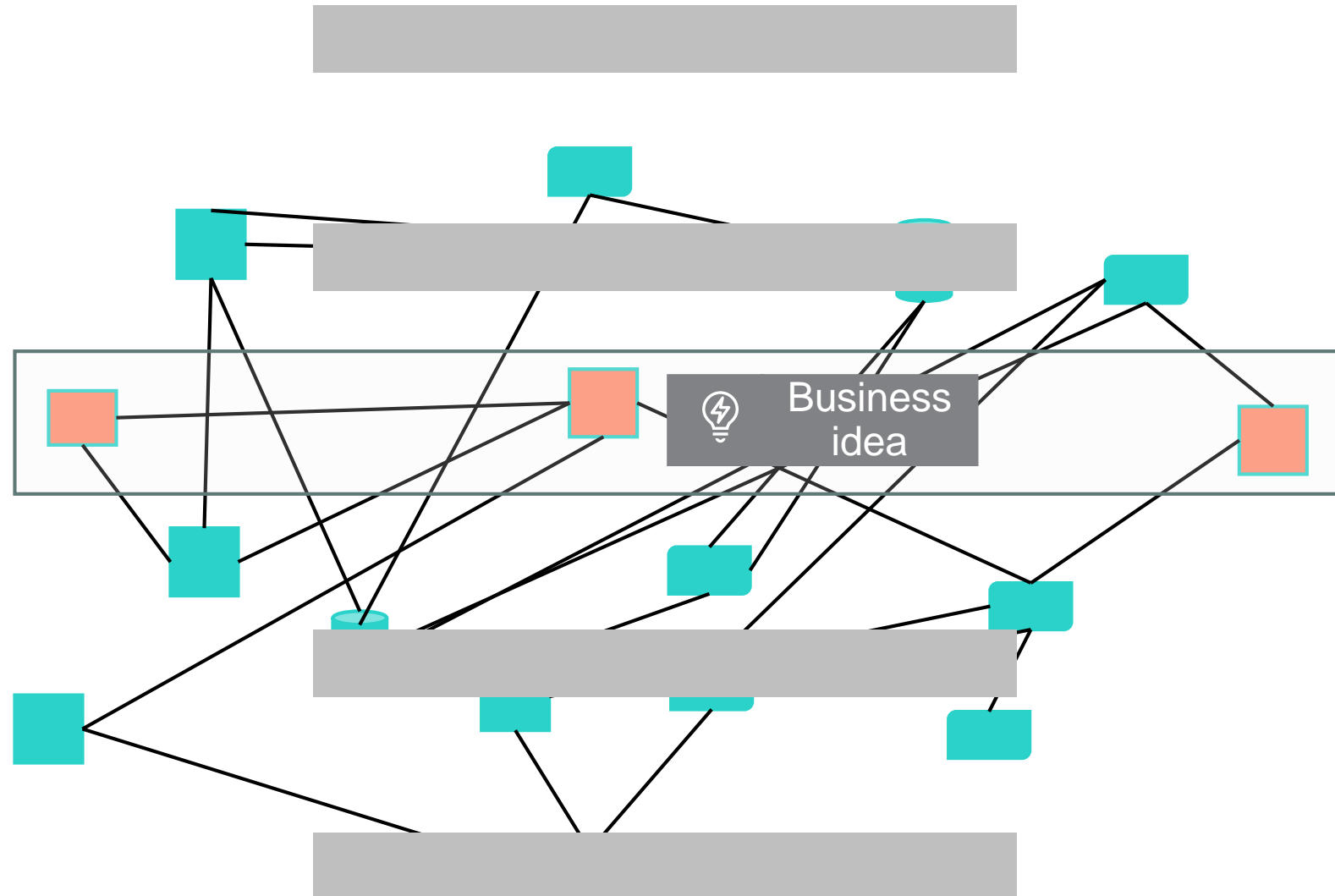
We need to think about flow...pipelines



To build a pipeline, you have to think end to end and isolate

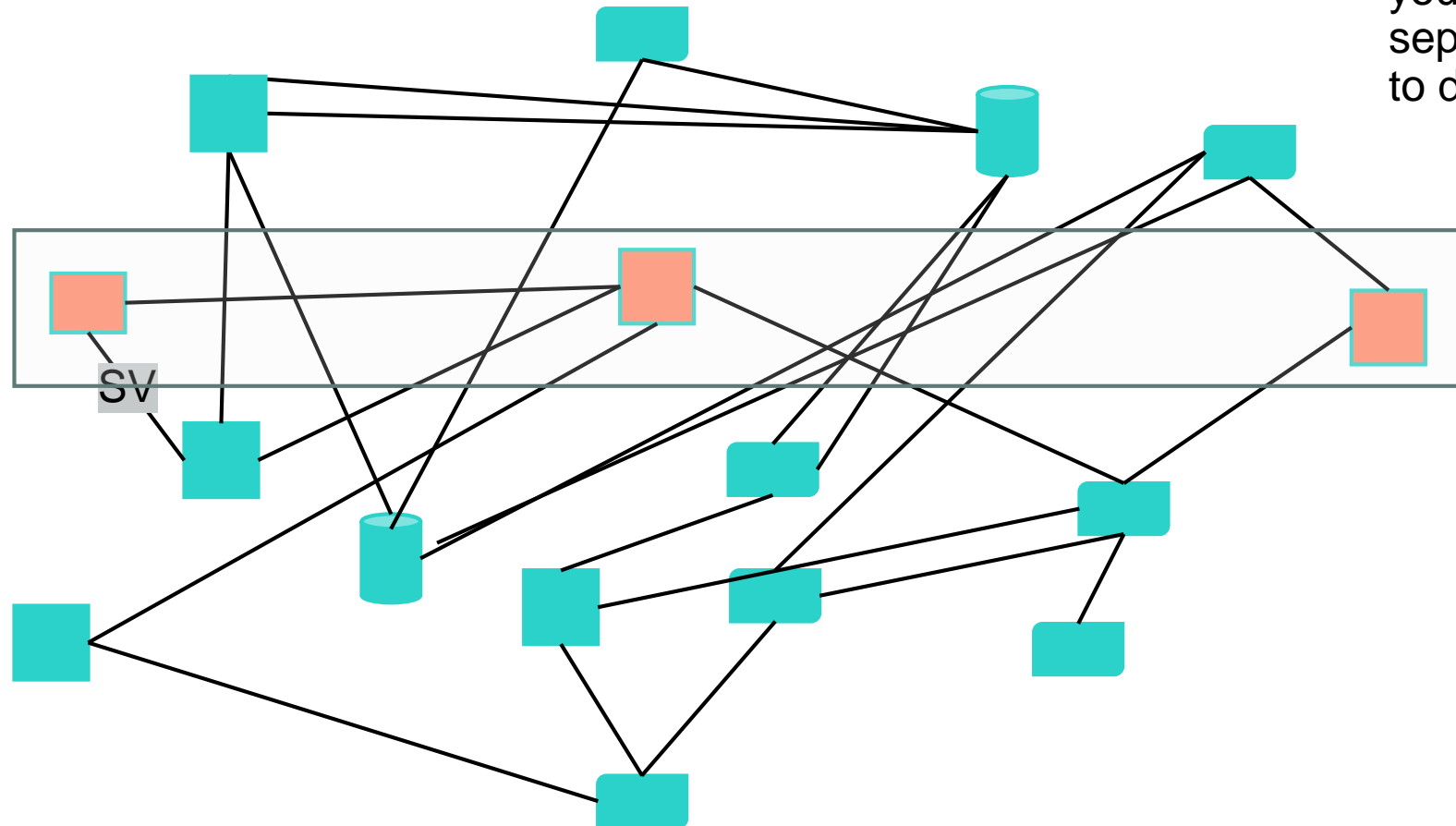


Consider this function. There is a pipeline of related systems



To isolate the pipeline, virtualization is a key concept

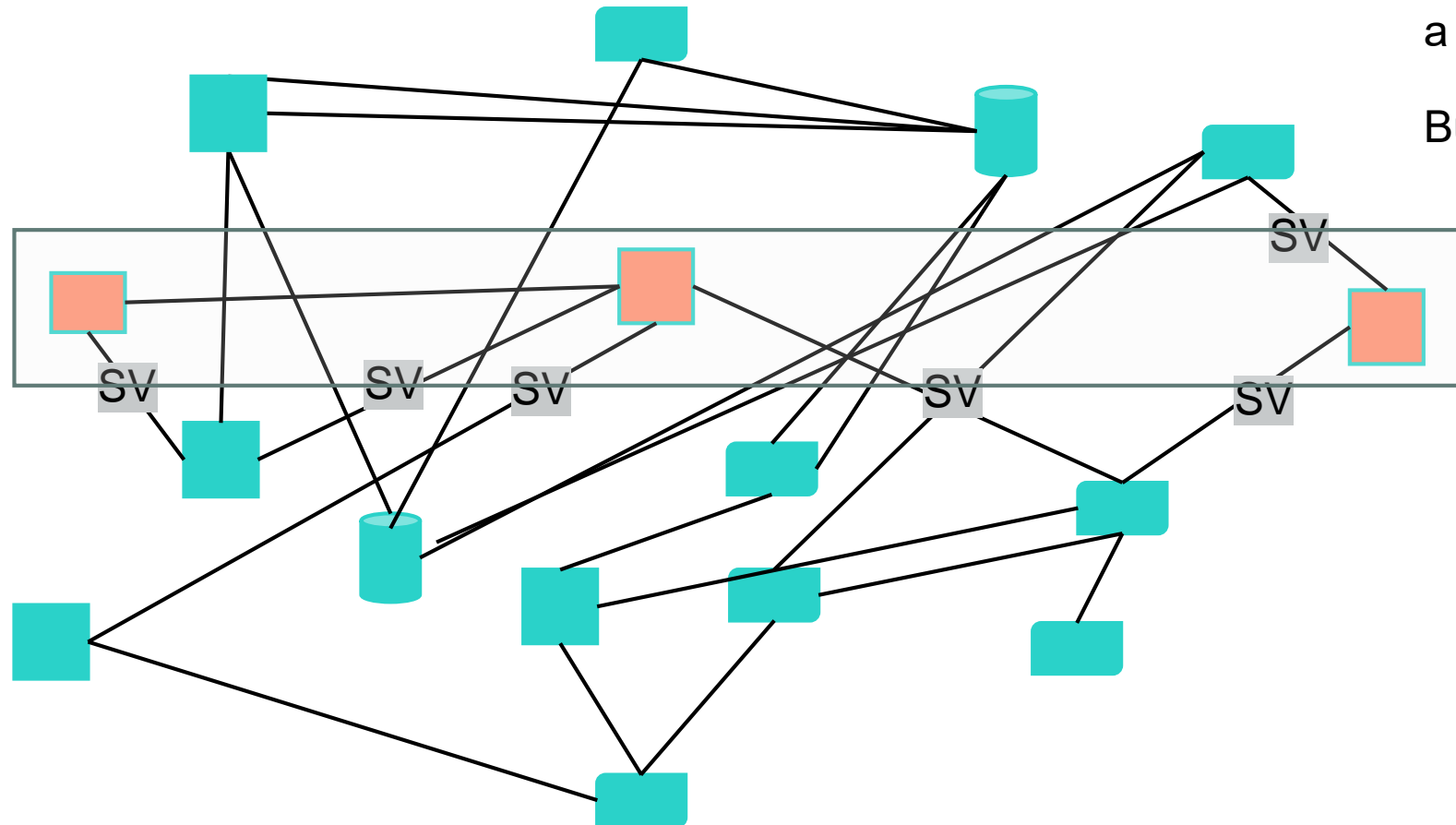
With everything interconnected you have to create some separation between systems to develop and test the idea.



Now, we can introduce change, test it and isolate our change from the rest of the systems... (at least in dev and early test)

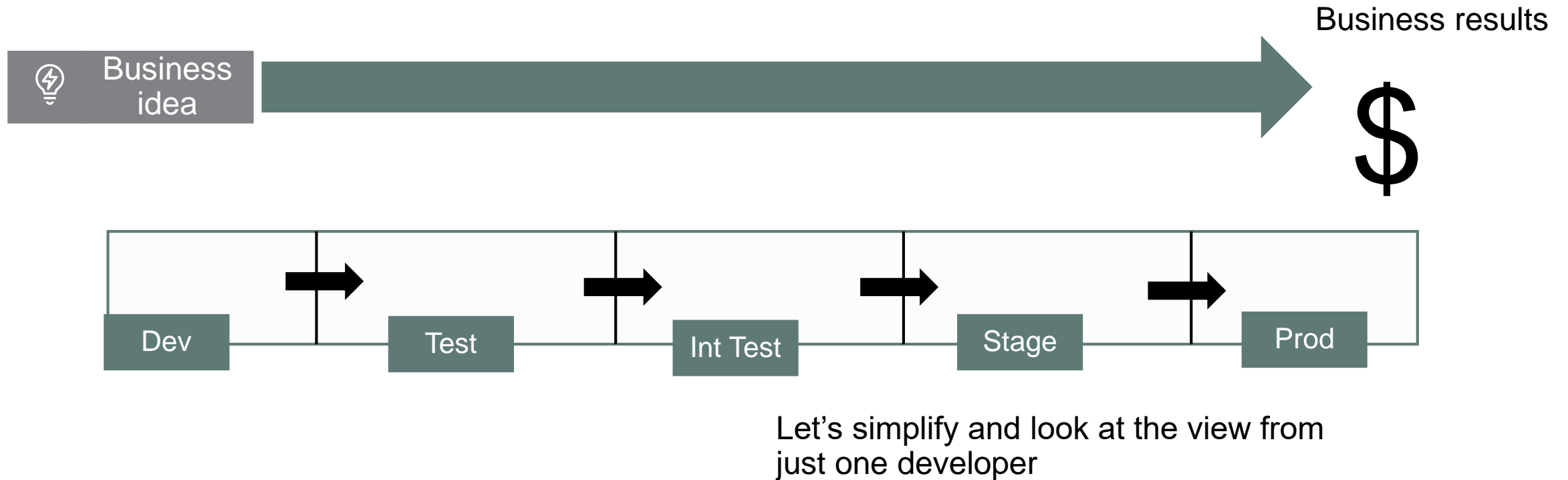
Creating virtual endpoints for other systems and services is a key strategy....

But it's not everything.

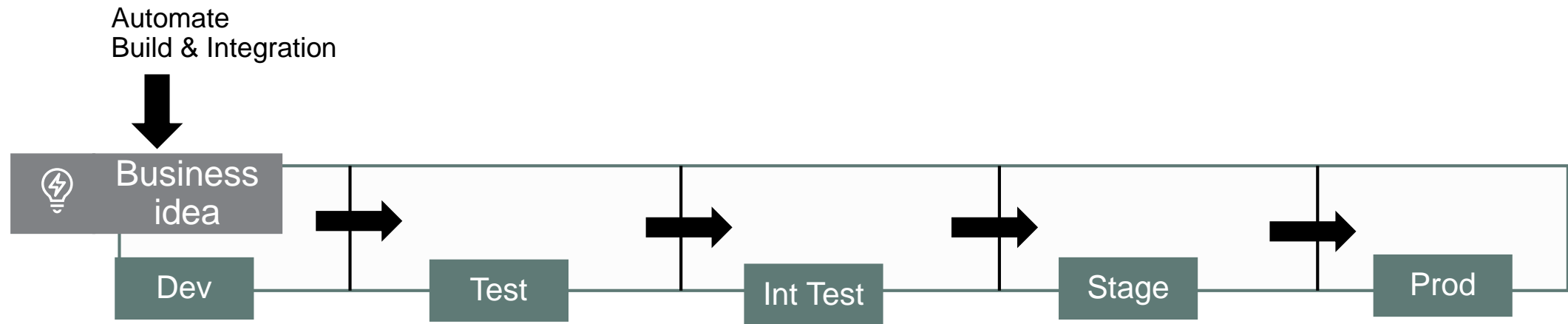


On the topic of Dev, Test, etc. Remember the silos?

The idea and the pipeline has to go through the silos

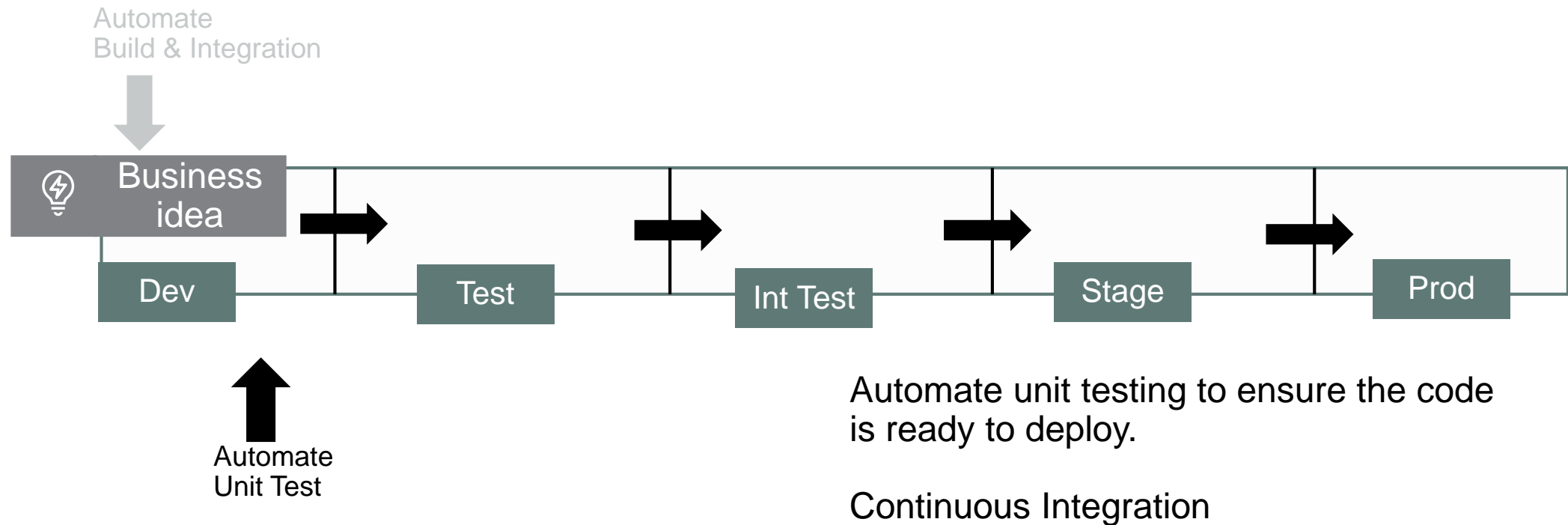


Treat the pipeline like a factory and focus on flow, eliminate waste, rework and bottlenecks. Automate wherever you can

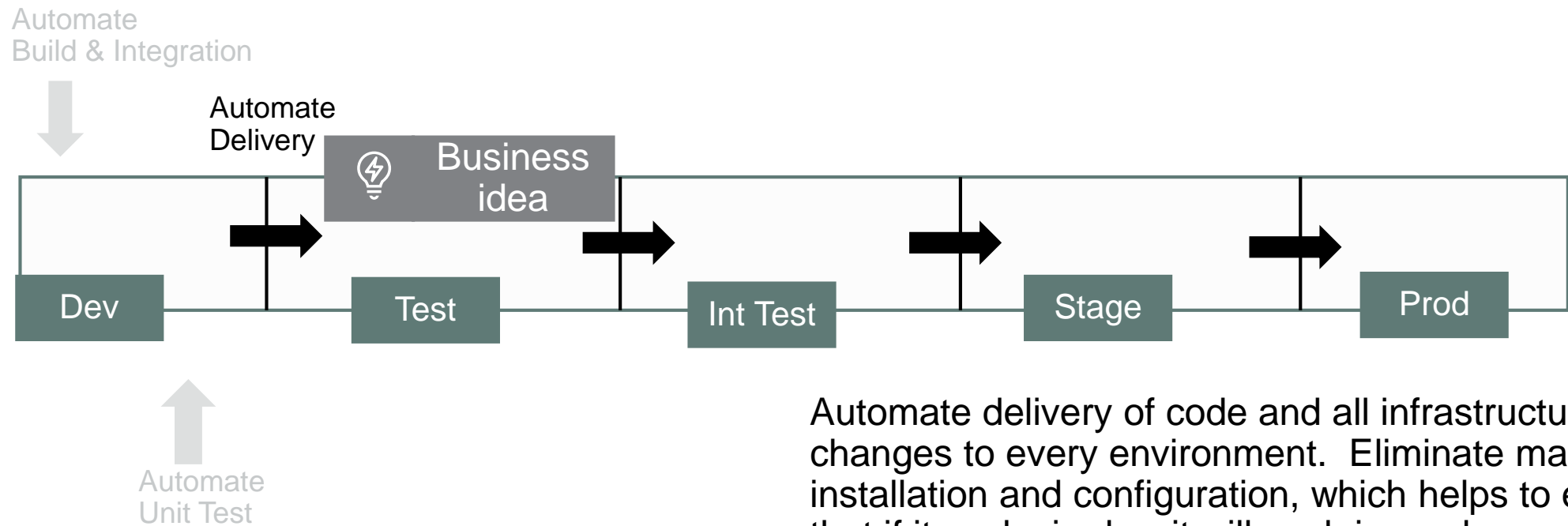


Automate builds and integration of code changes.
Developers should work on the same code base
Share their changes every day
and always keep their code integrated and ready to
deploy. Continuous Integration

Treat the pipeline like a factory and focus on flow, eliminate waste, rework and bottlenecks

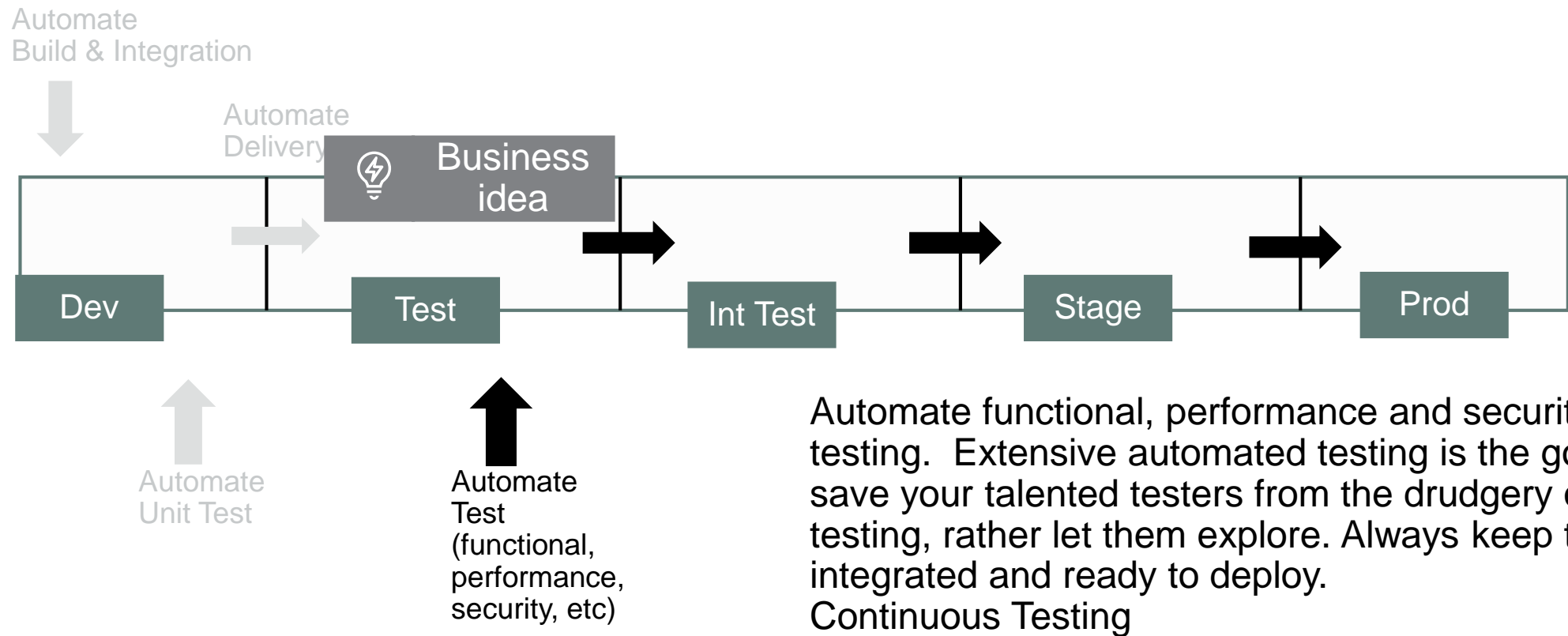


Treat the pipeline like a factory and focus on flow, eliminate waste, rework and bottlenecks

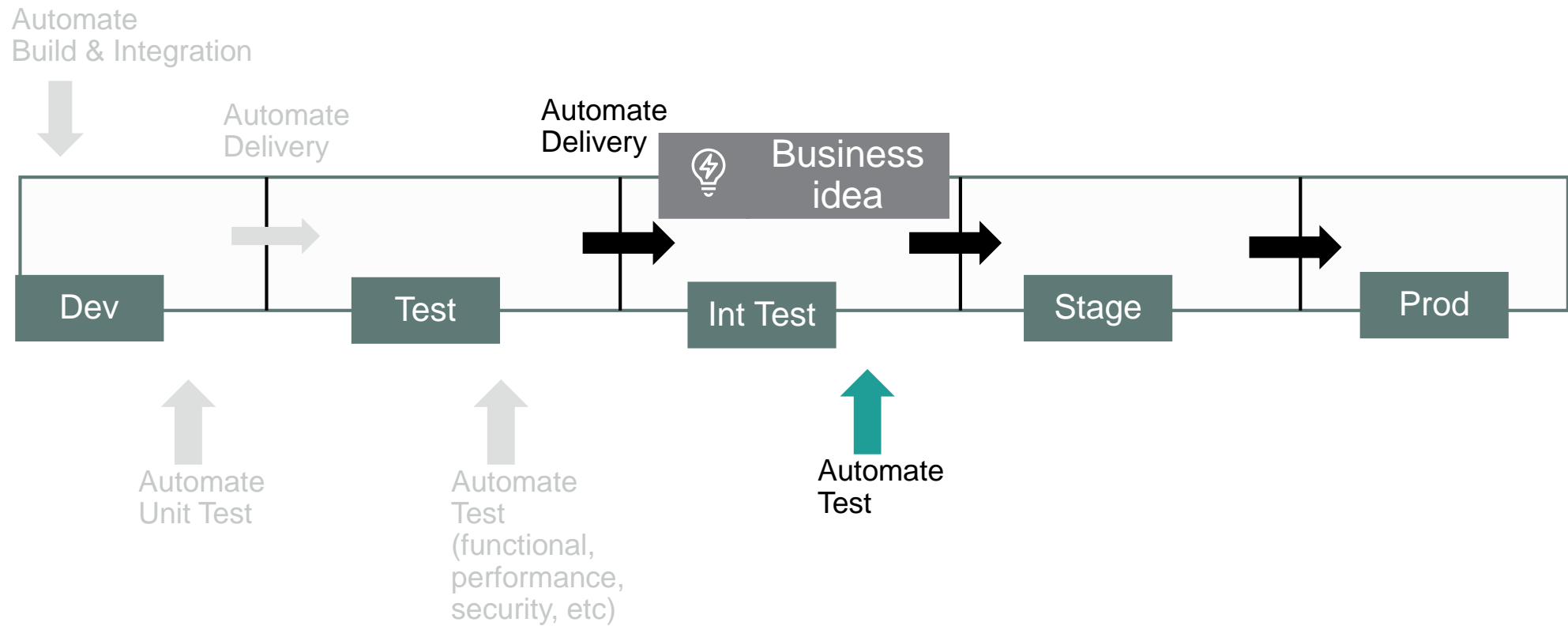


Automate delivery of code and all infrastructure changes to every environment. Eliminate manual installation and configuration, which helps to ensure that if it works in dev, it will work in prod. Each Delivery is a rehearsal for Production Deployment
Continuous Delivery

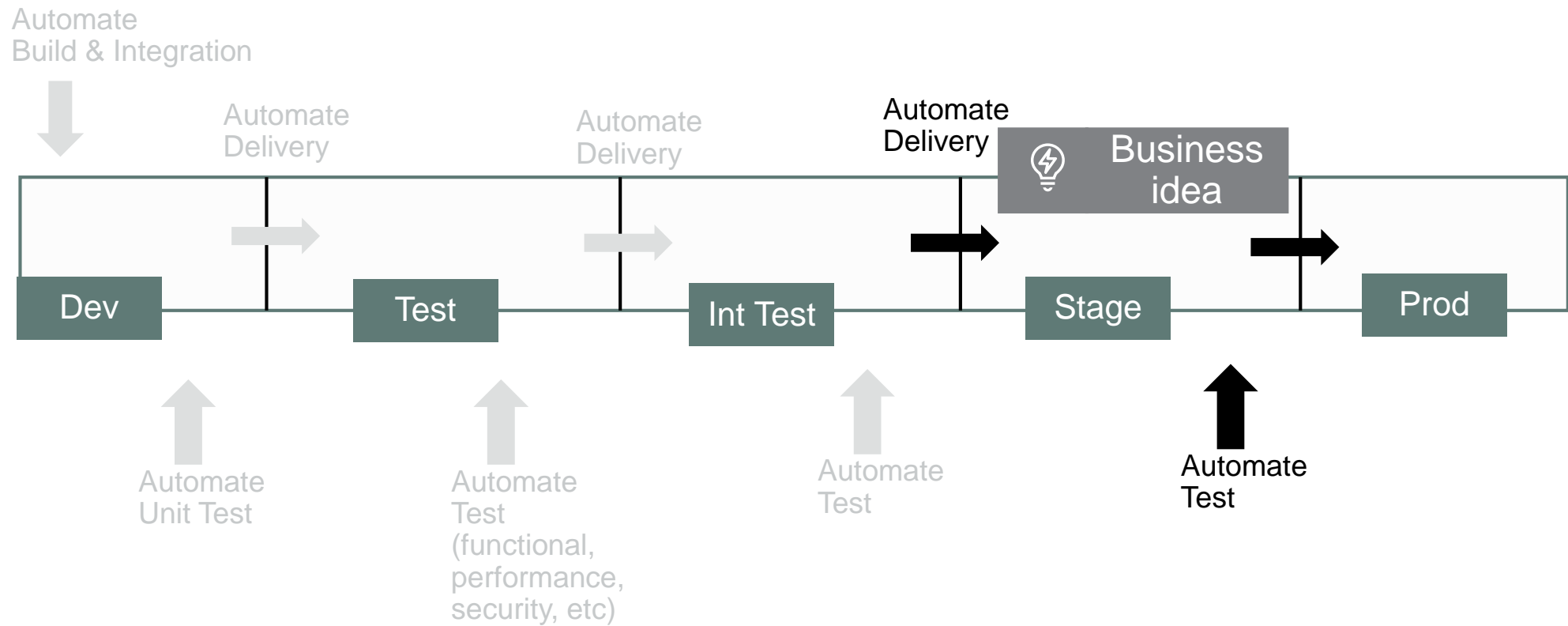
Treat the pipeline like a factory and focus on flow, eliminate waste, rework and bottlenecks



Continue to test, deliver and validate the code...

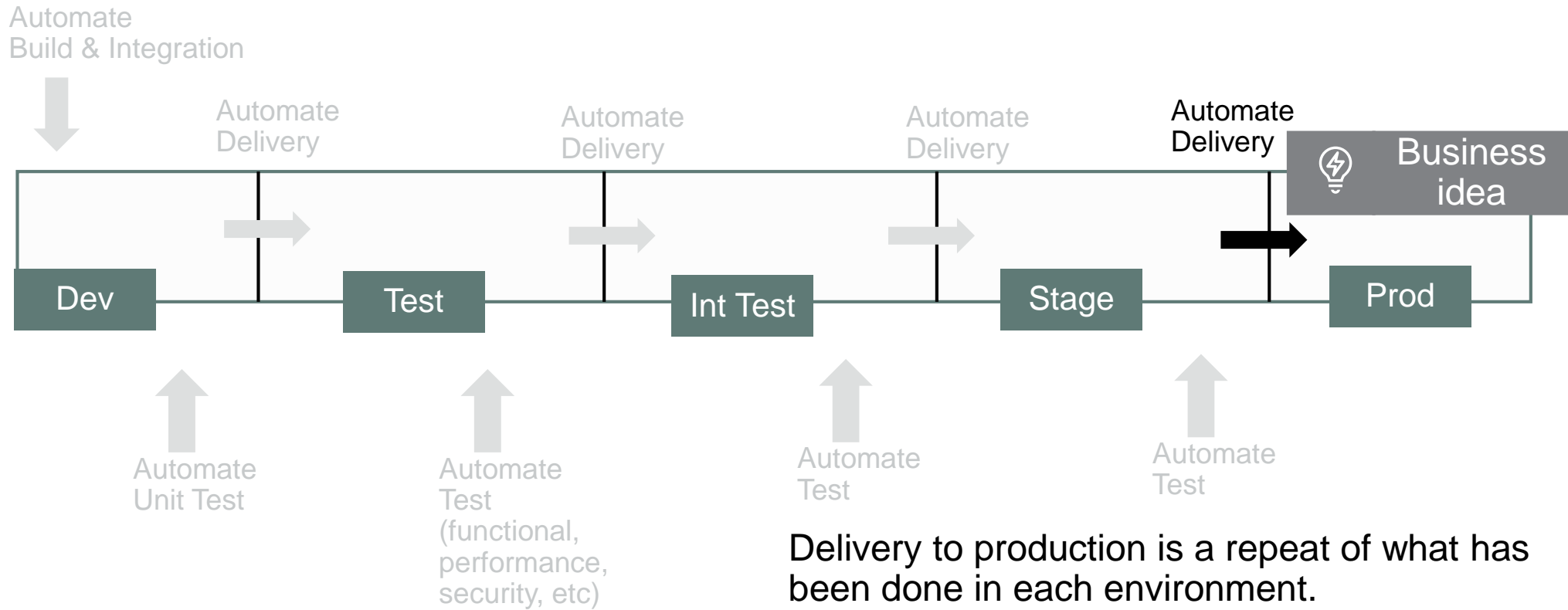


Continue to test, deliver and validate the code...

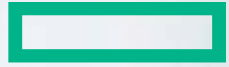


Continue to test, deliver and validate the code...

Designed for quality and speed



Delivery to production is a repeat of what has been done in each environment.
It should be a non event.
Continuous Delivery



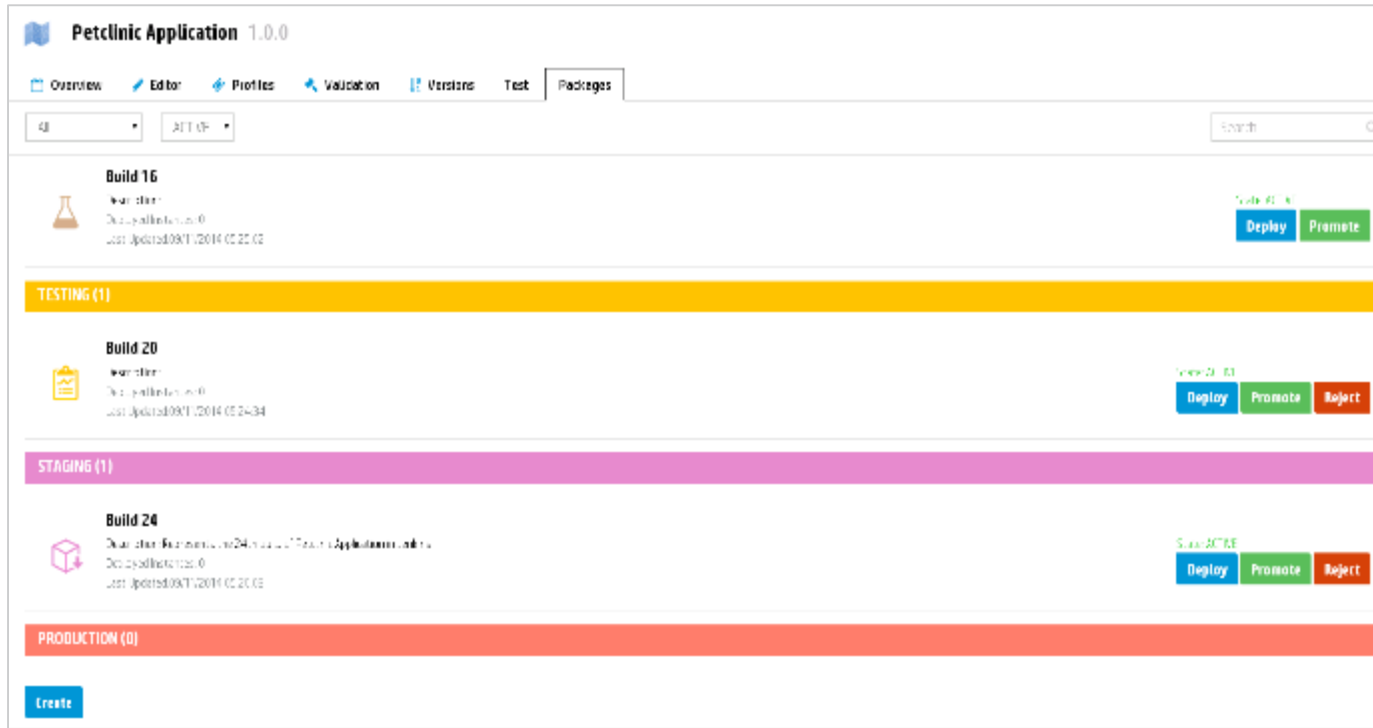
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Enterprise**

**Deliver
amazing apps
with confidence.**



Continuous delivery and deployment

HPE Codar



Model Based Deployments
Infrastructure as Code

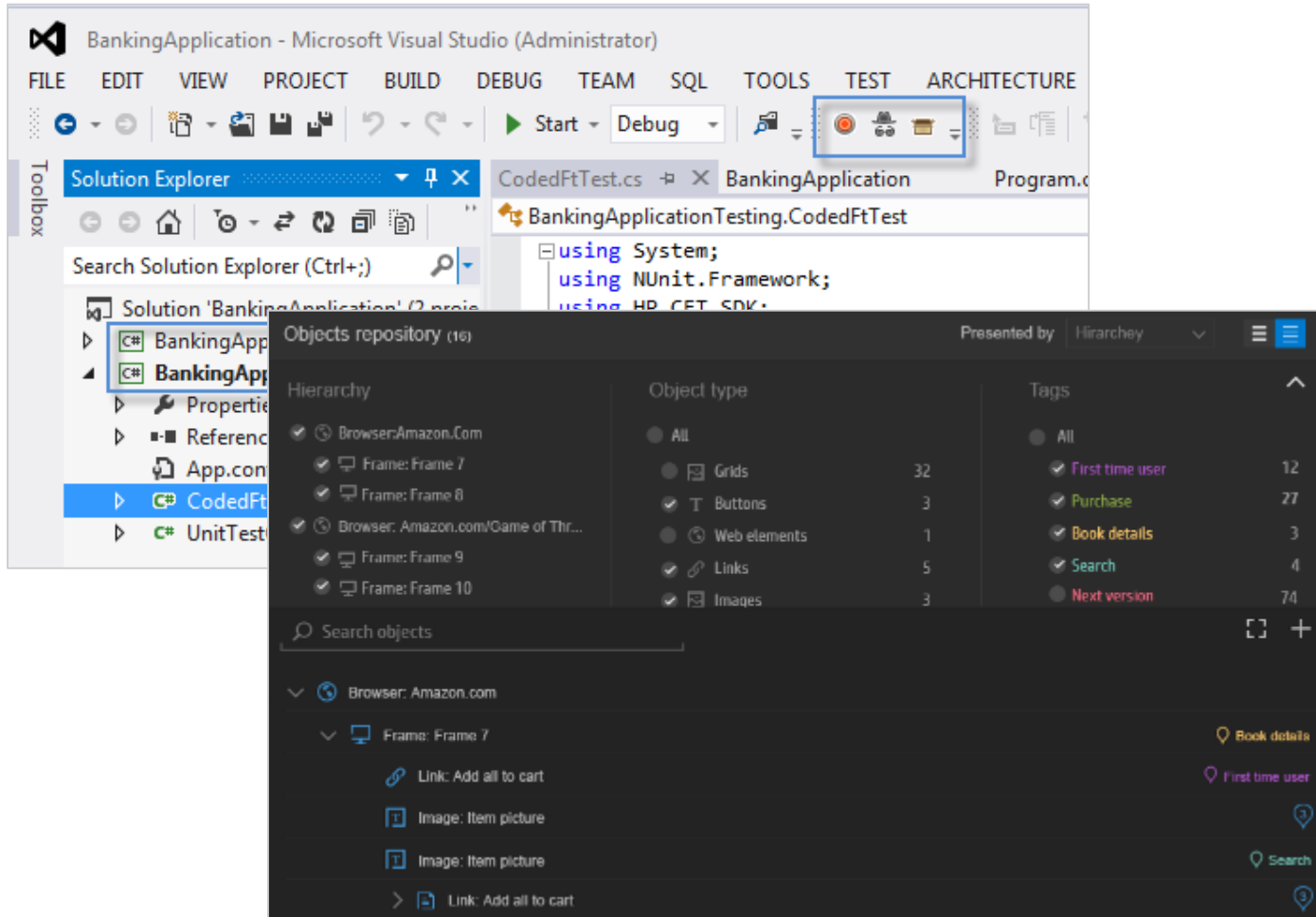
Increased visibility
Pipeline Management

Quick time to automate
Topology App Designs

Integrated to DevOps Tool Chain
Open APIs & Jenkins integ.

Continuous integration and testing

HPE LeanFT



Scripted functional testing

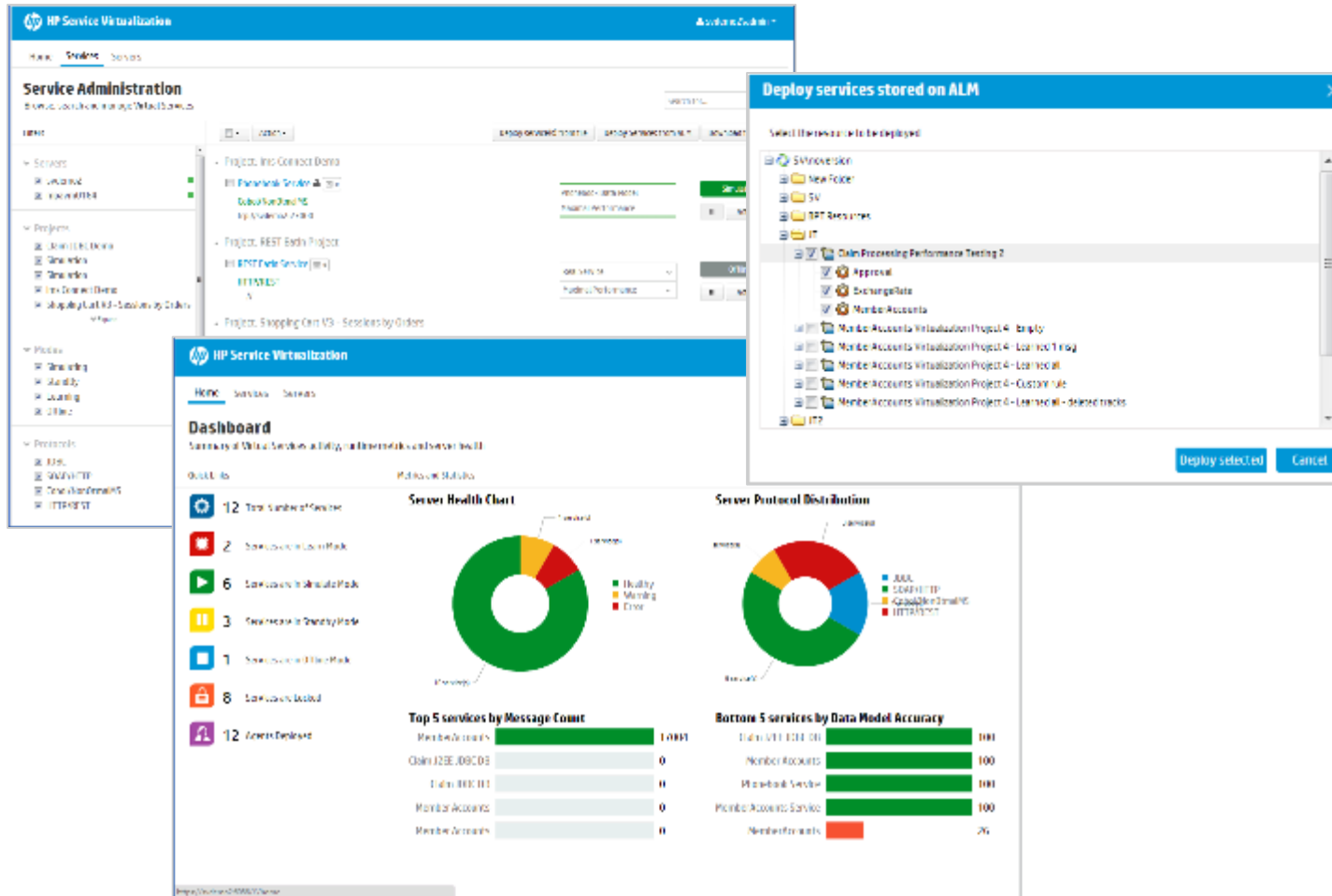
Visual Studio / Eclipse (C# or Java)
Nunit/Junit

UFT Object Recognition

Small footprint

Purpose built for test-driven
development (TDD), Behavior
Driven Development (BDD), Agile
Testing, CI integration

Continuous integration and testing HPE Service Virtualization



Quickly 'learn' and configure virtual services.

Simulate services, and system components as needed

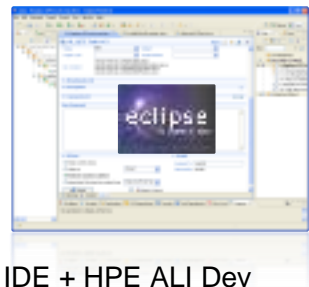
Eliminate delays or availability of services or components (Dev, Test)

Integrated to DevOps Tool Chain
Open APIs, Jenkins, Release and Lab Automation

Continuous integration and testing

HPE ALM and Agile Manager

Developers



IDE + HPE ALI Dev
Implement requirements defined in HPE ALM
HPE DevInspect's Security Assistant scans as code is written within IDE

Check-in
Check-out

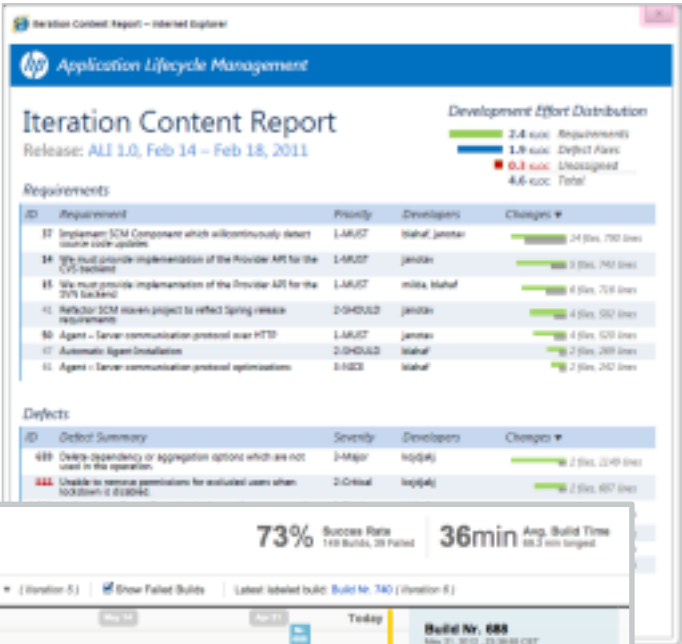
SCM System



Req/Tasks/Defects

HPE ALM
and
HPE AGM

ALI Reports

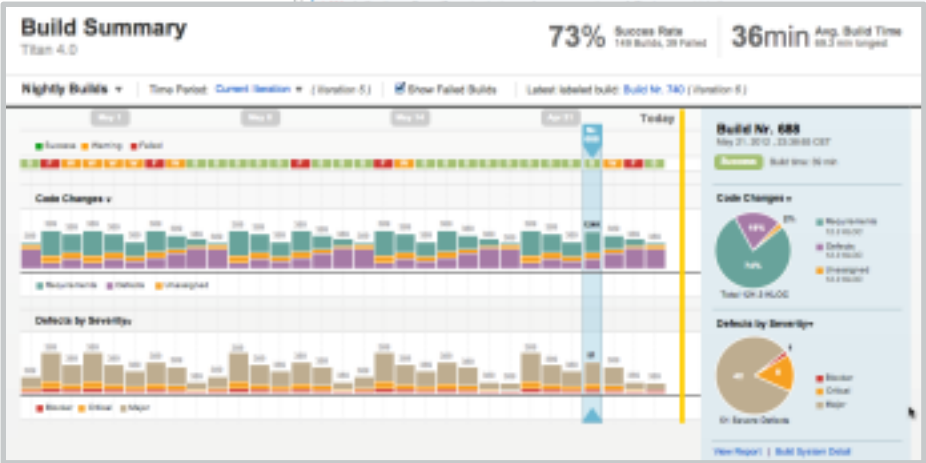


Change sets

Builds

Build System

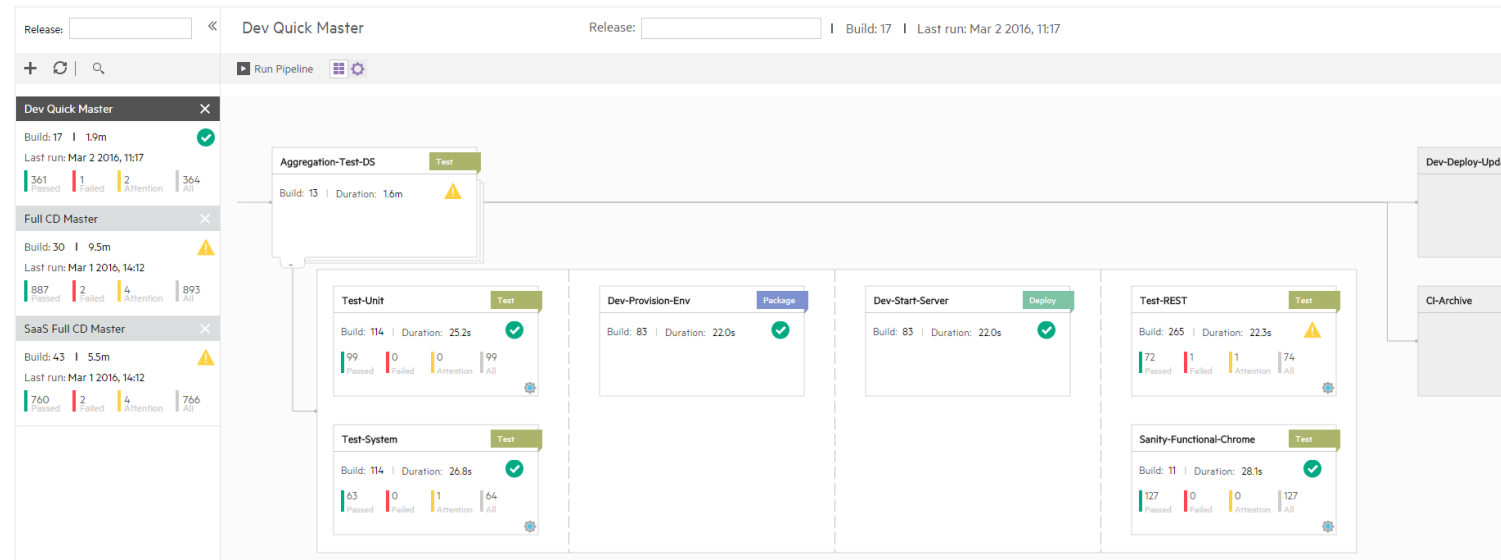
Continuous
Integration



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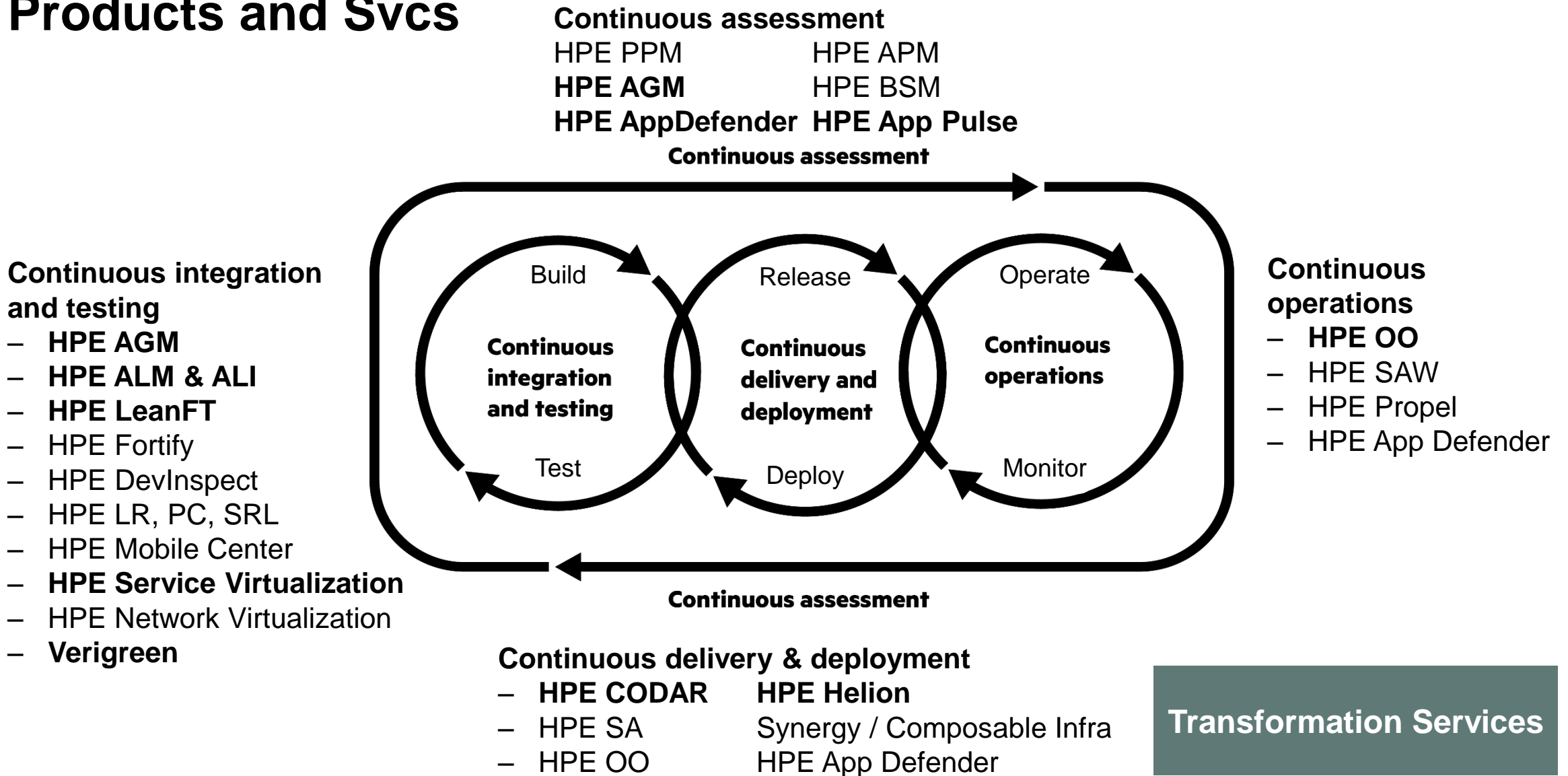
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Public beta is live on SaaS

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Products and Svcs



Continuous innovation practices



A/B testing



Feature toggling

Real time **market insight**

Smarter **releases**

Improved **user experience**

DevOps upcoming highlights



DevOps track
DevOps CAC



Next Vivit DevOps web event – May 17
**Enterprise DevOps: What Ops Teams
Need to Consider for Faster App Releases**



Forum

- Portland
- Apr 27-28

DevOps Enterprise Summit

EMEA

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- June 30 – July 01
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- Nov 7 – Nov 9
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Discover overview – DevOps track

- DevOps CAC
- 11 breakout sessions
- 3 Discover Theatre sessions
- 4 Discover Forum sessions
- 1 Digital Session
- 2 Demos in Discover Zone Showcase
- Demo Self guided tour
- Including speakers:
 - James Governor
 - Gary Gruver
 - Gene Kim



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40+ members
Knowledge Sharing
YOUR agenda!
Roundtable Topic
LinkedIn Group coming soon

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