



It's time to level up

Rob Vanstone
Technical Director UK

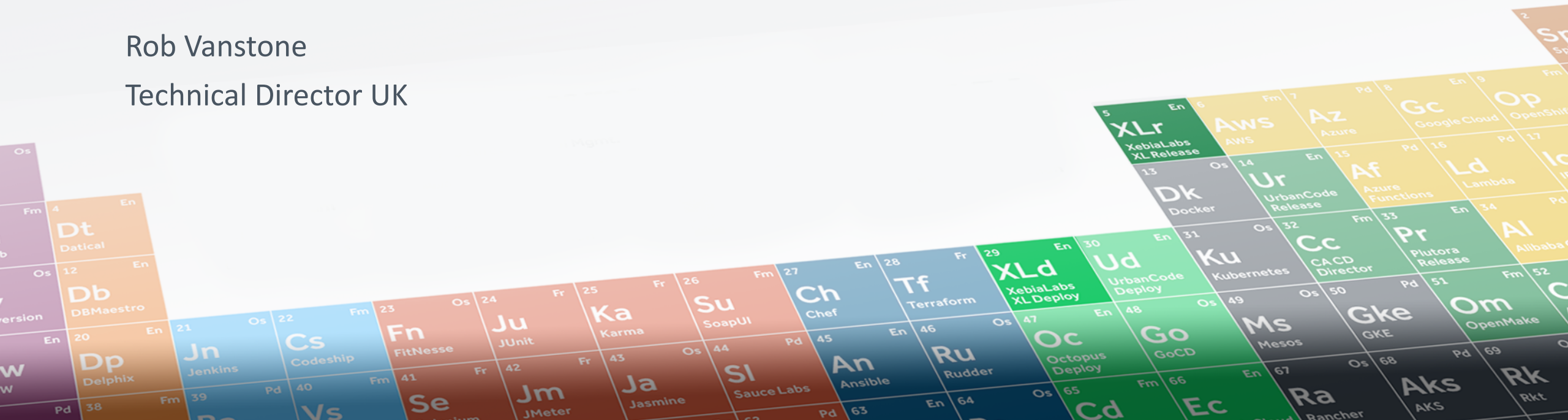




~~*It's time to level up*~~

3 Technology Transformations That Will Drive your Business Agility

Rob Vanstone
Technical Director UK





Welcome – and who is this guy?



Rob Vanstone
@vanrobstone
Technical Director UK

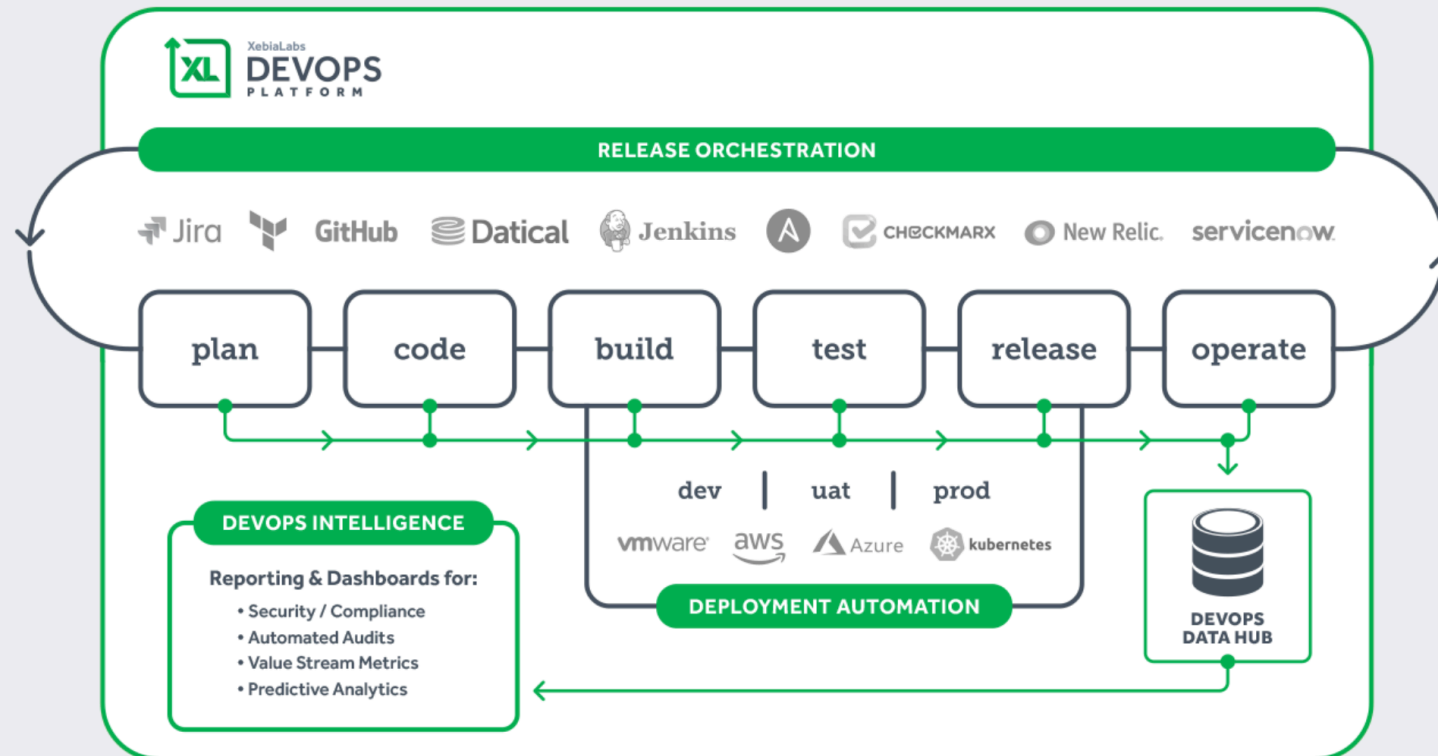




Platform Power

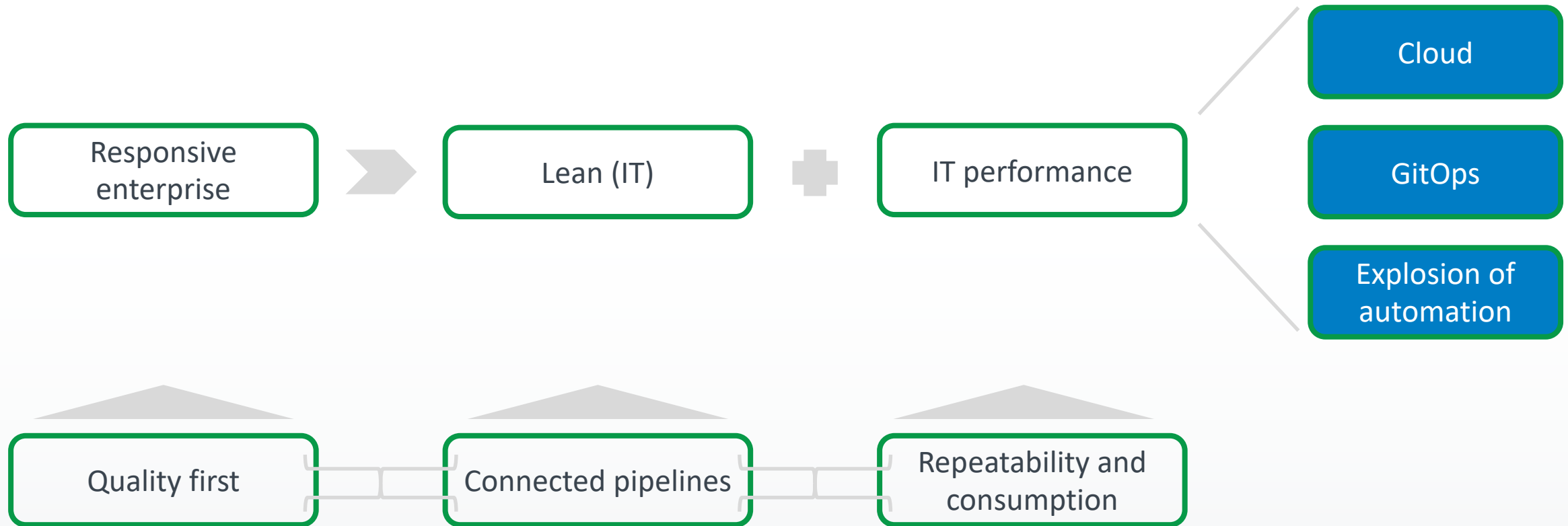
The XebiaLabs DevOps Platform

Power your end-to-end Continuous Delivery process with the XebiaLabs DevOps Platform





The goal, transformation and steps to get there





Elite IT performance is foundational for agility



208
TIMES MORE
frequent code deployments

106
TIMES FASTER
lead time from
commit to deploy



2,604
TIMES FASTER
time to recover from incidents

7
TIMES LOWER
change failure rate
(changes are $\frac{1}{7}$ as likely to fail)





Automation is key to accelerate delivery and increase operational performance

AUTOMATION AND INTEGRATION BY PERFORMANCE PROFILE

	Low	Medium	High	Elite
Automated build	64%	81%	91%	92%
Automated unit tests	57%	66%	84%	87%
Automated acceptance tests	28%	38%	48%	58%
Automated performance tests	18%	23%	18%	28%
Automated security tests	15%	28%	25%	31%
Automated provisioning and deployment to testing environments	39%	54%	68%	72%
Automated deployment to production	17%	38%	60%	69%
Integration with chatbots / Slack	29%	33%	24%	69%
Integration with production monitoring and observability tools	13%	23%	41%	57%
None of the above	9%	14%	5%	4%

Automated build is a well established practice amongst all profiles

Elite performers have 4x more automated deployment to production

Extending toolchain to production and monitoring is very important



GitOps

Explosion of automation



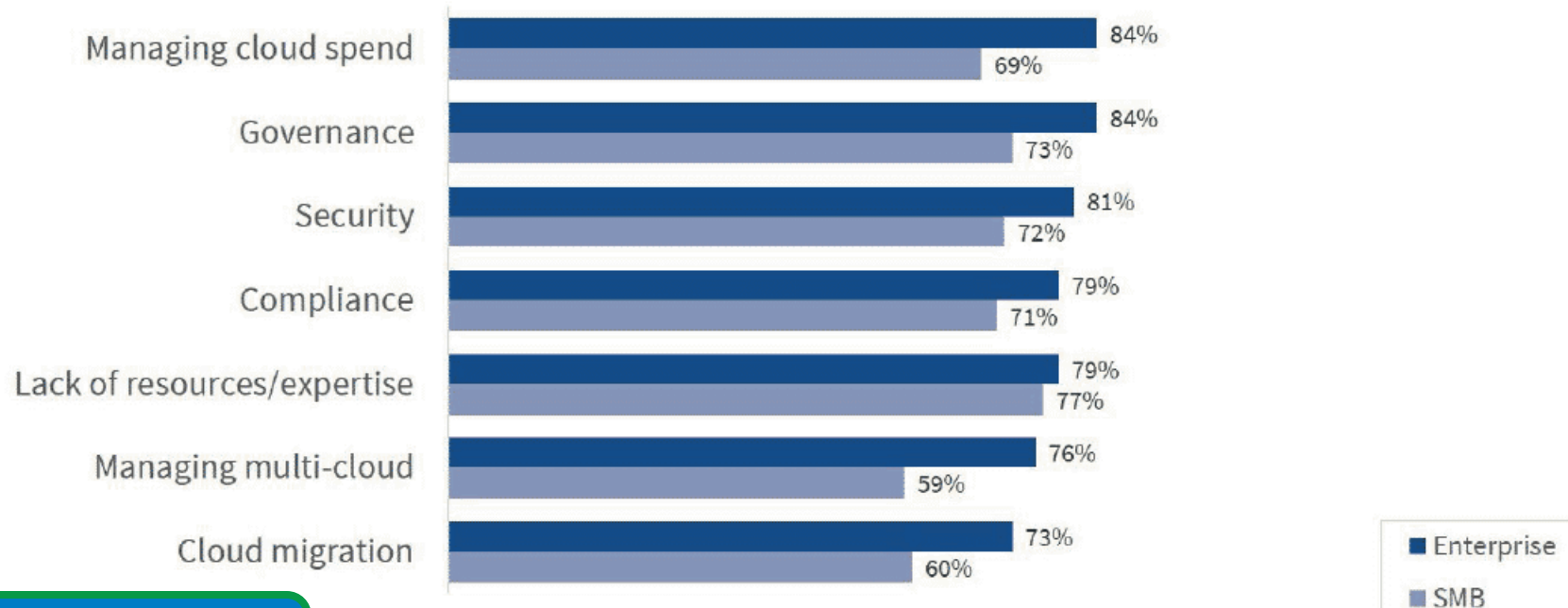
Cloud adoption brings new concerns

Enterprise Cloud Strategy

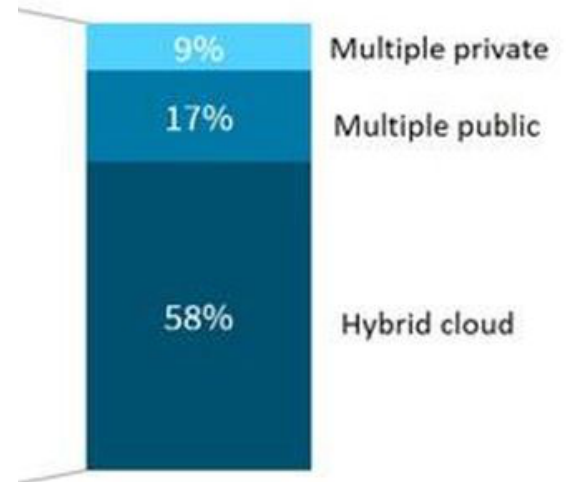
1000+ Employees

Cloud Challenges by Company Size

% of Respondents



Source: RightScale 2019 State of the Cloud Report from Flexera

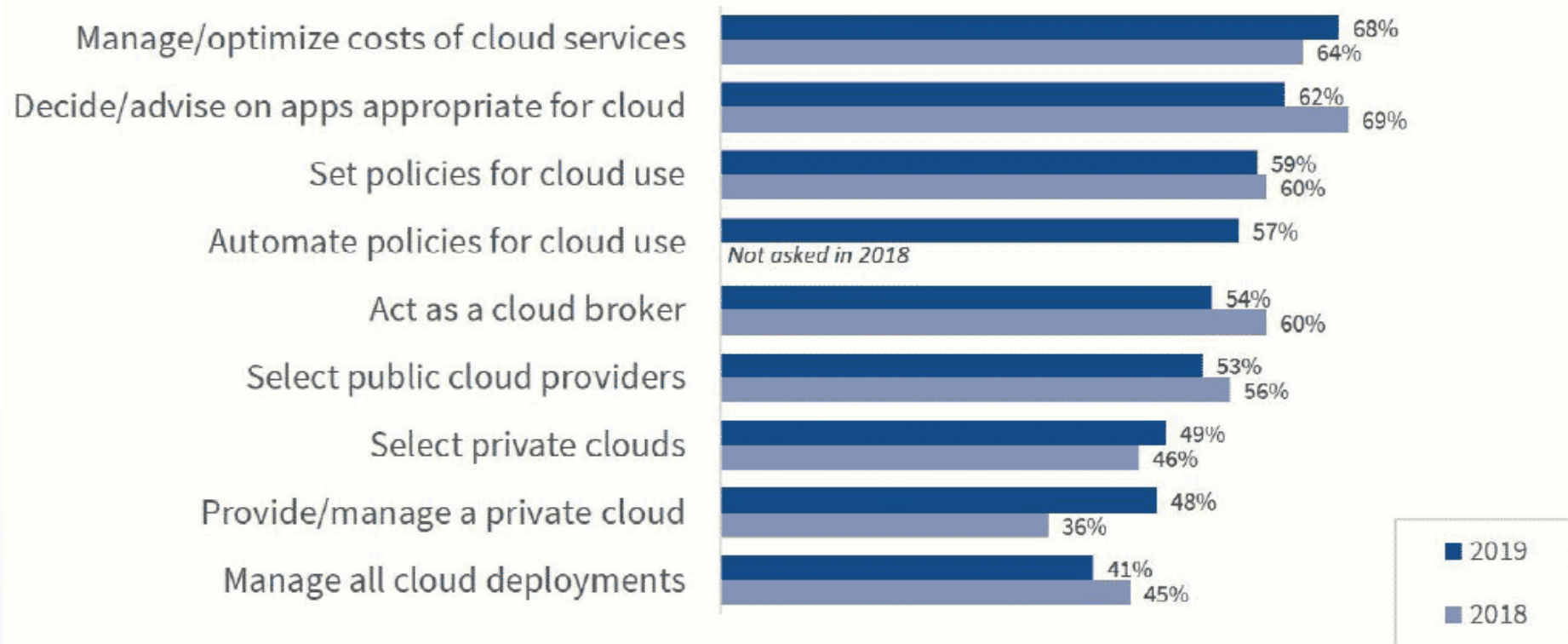


2019 State of the Cloud Report from Flexera

Cloud



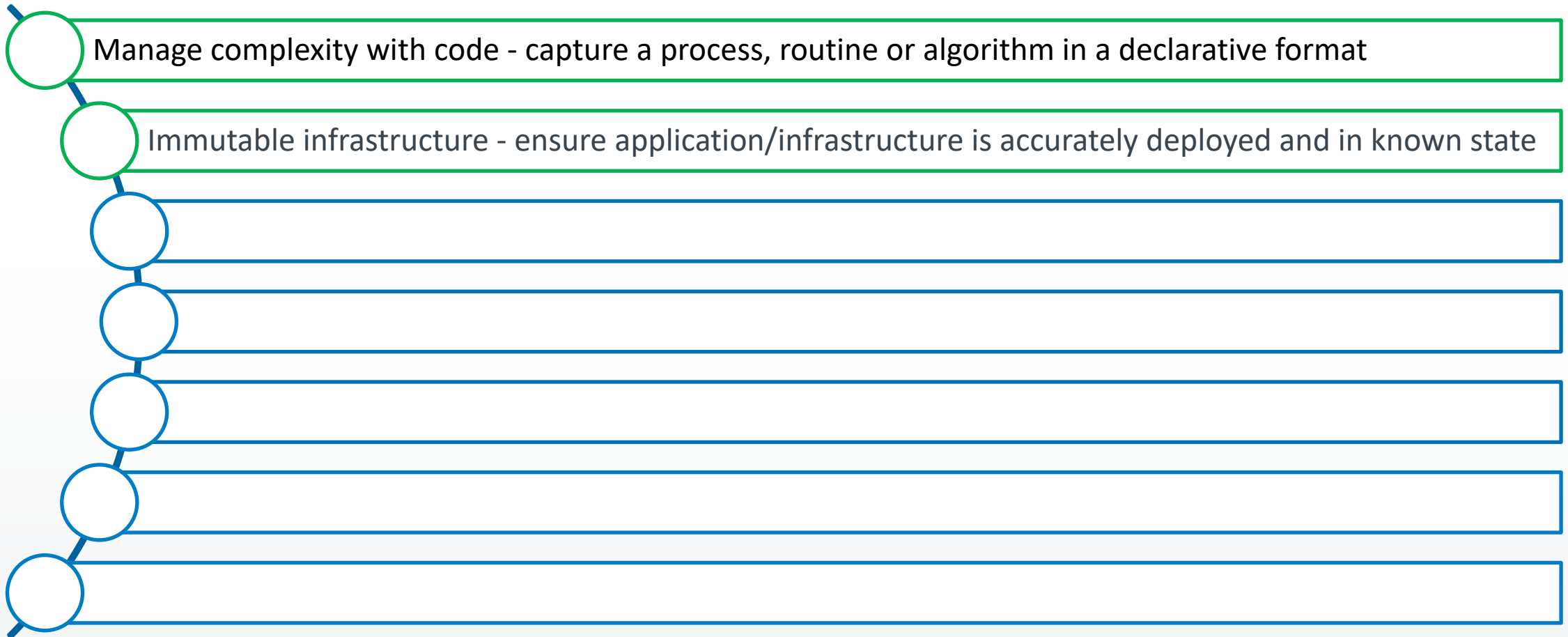
Adoption of cloud extends the role for central IT



Source: RightScale 2019 State of the Cloud Report from Flexera



“As Code” is the preferred way to manage infrastructure and everything else



GitOps



“As Code” is the preferred way to manage infrastructure and everything else

Manage complexity with code - capture a process, routine or algorithm in a declarative format

Immutable infrastructure - ensure application/infrastructure is accurately deployed and in known state

GitOps movement coming into the field of DevOps the last few years, starting in the field of CI

A big shift left of responsibilities has happened as activities are moved into the hands of the Dev

With DevOps as Code, organizations can express and maintain end-to-end pipelines in code

GitOps



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Companies struggle with keeping duplication low - DRY principle

Separation of concerns is an important area of attention

GitOps



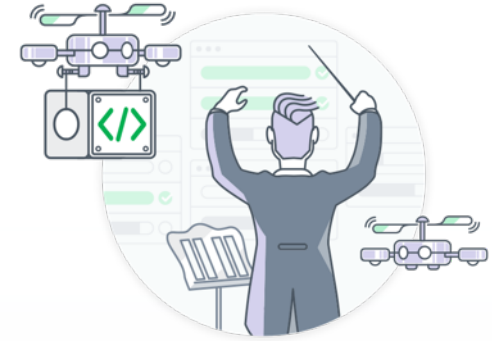
“As Code” is a trend, but it’s still in its early days when it comes to visualization



Troubleshooting



Relationships



Guided Orchestration



DevOps as a Code enables the creation of patterns defined as code, ready for consumption



Operations



SRE



ANSIBLE



Cloud Native Expert



Team 1

Team2

Team 3

Define

GitOps

Consume

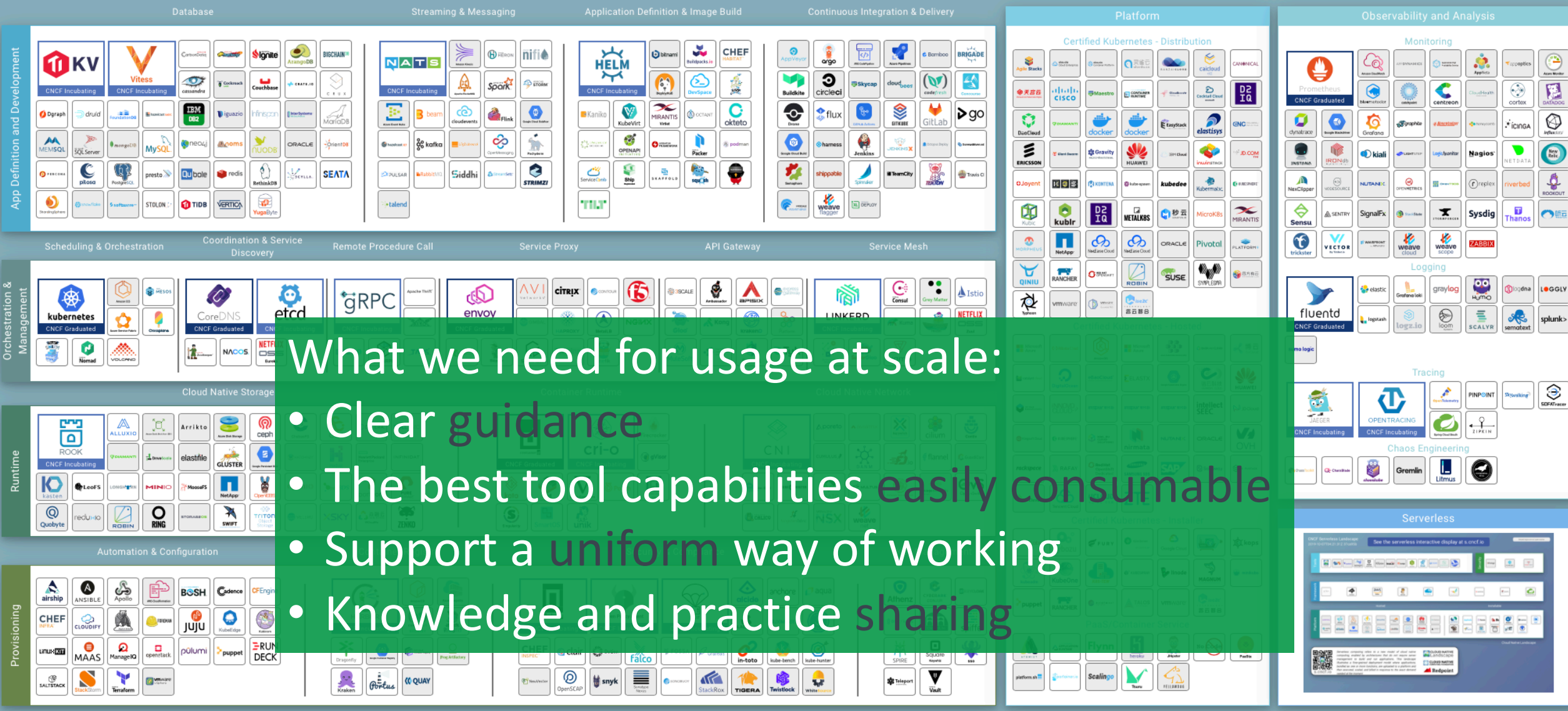




Explosion of automation possibilities



Explosion of
Automation



What we need for usage at scale:

- Clear guidance
- The best tool capabilities easily consumable
- Support a uniform way of working
- Knowledge and practice sharing

Credits: ABN AMRO

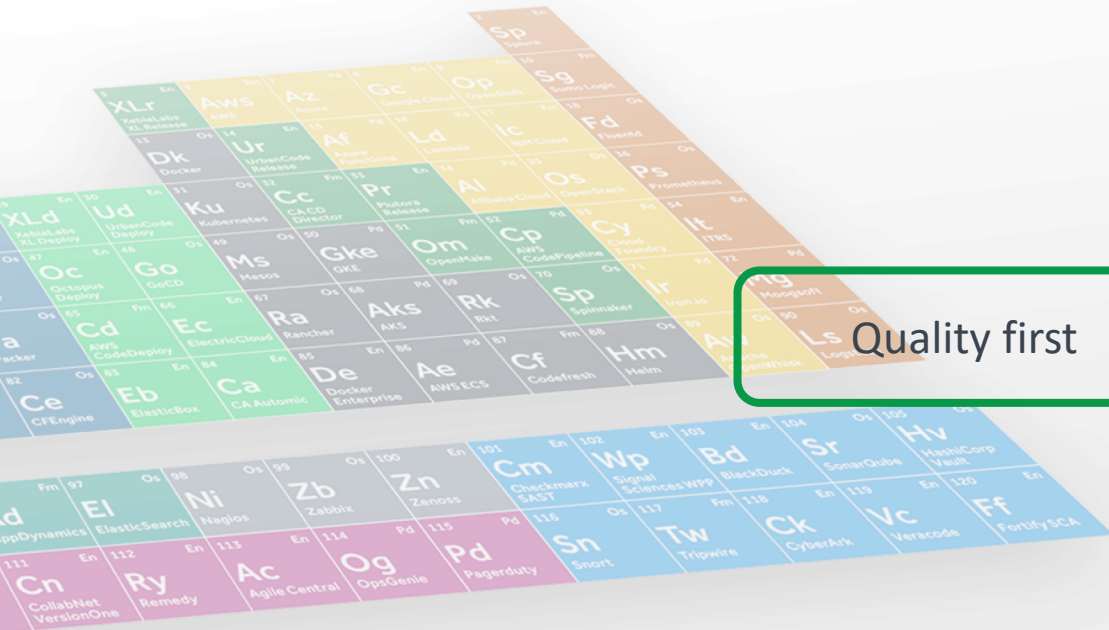
This landscape is intended to show the explosion of automation in the Cloud Native Landscape.

Explosion of Automation

particular well-travelled path



Moving forward



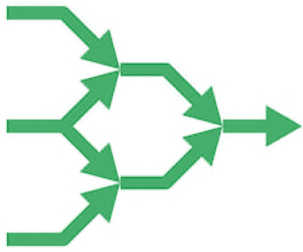
Quality first

Connected pipelines

Repeatability and
consumption



Quality-first thinking to improve customer satisfaction and engineering capacity



Simplification



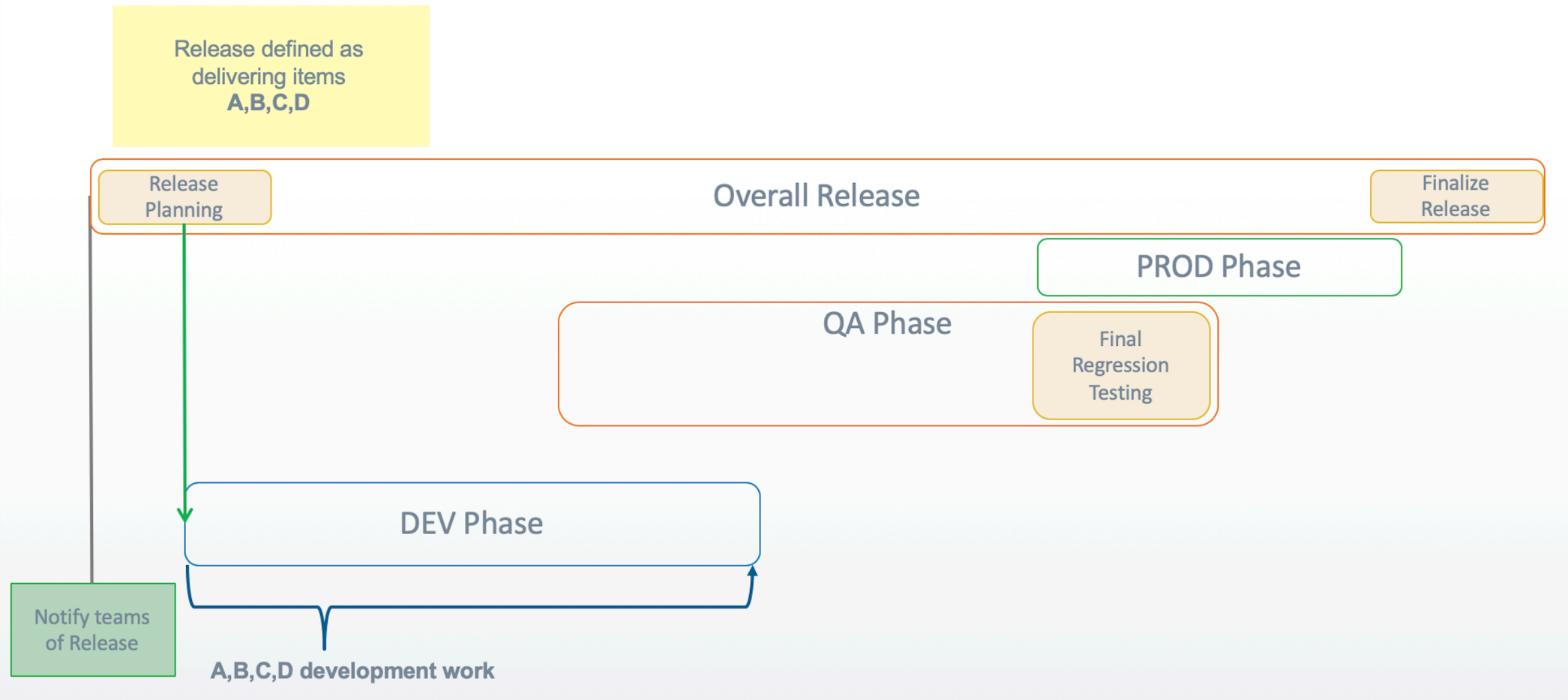
Shift left



Automation



How you WANT a release to happen

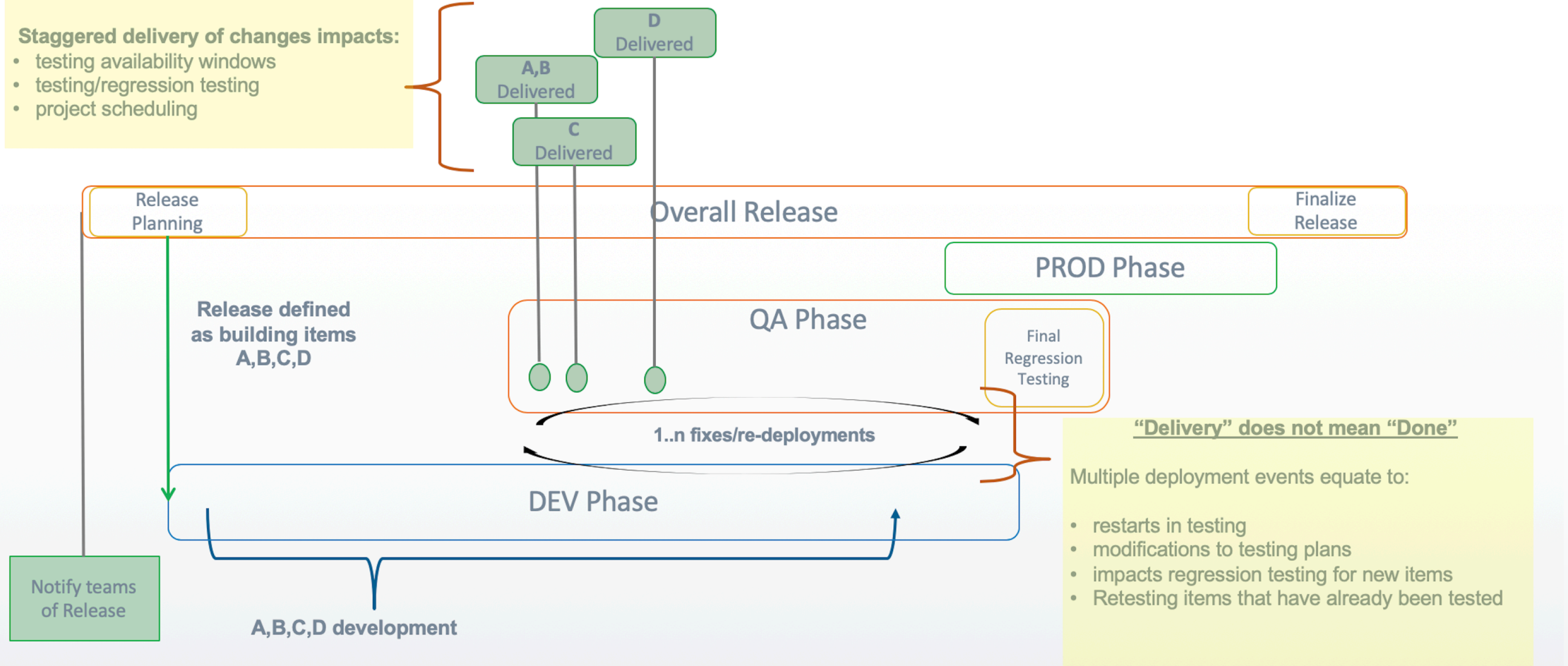




Nice try!

Staggered delivery of changes impacts:

- testing availability windows
- testing/regression testing
- project scheduling





The reality of software delivery

Connected pipelines to drive delivery



Development

Testing

Acceptance
testing

Approvals

Production

Customer
App AWS

Mid-office
OpenShift

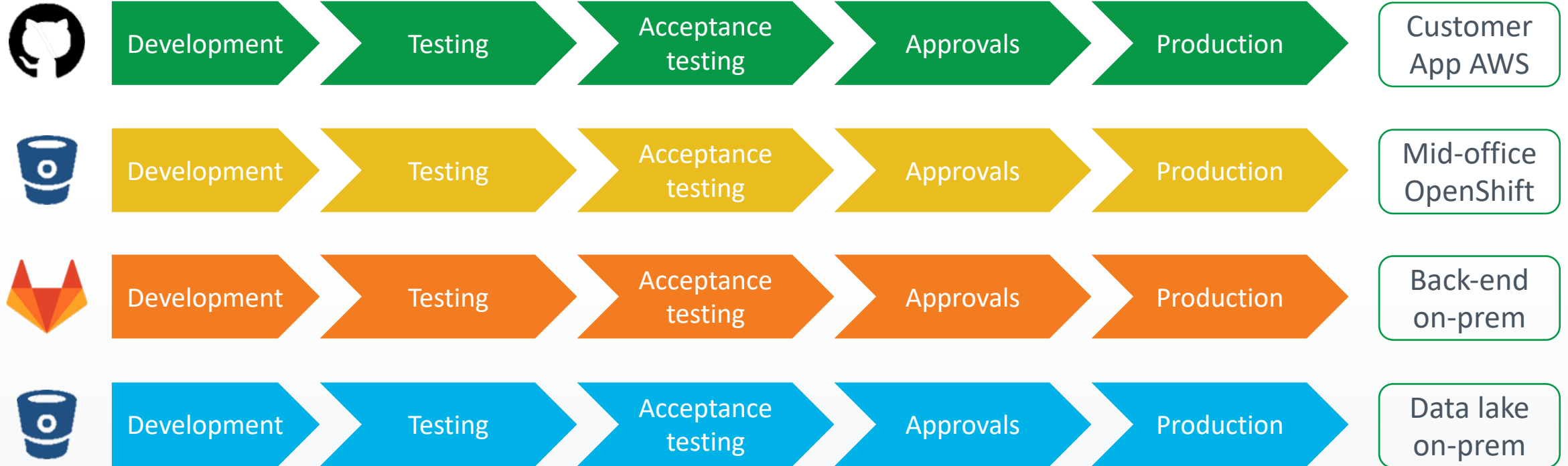
Back-end
on-prem

Data lake
on-prem



The reality of software delivery

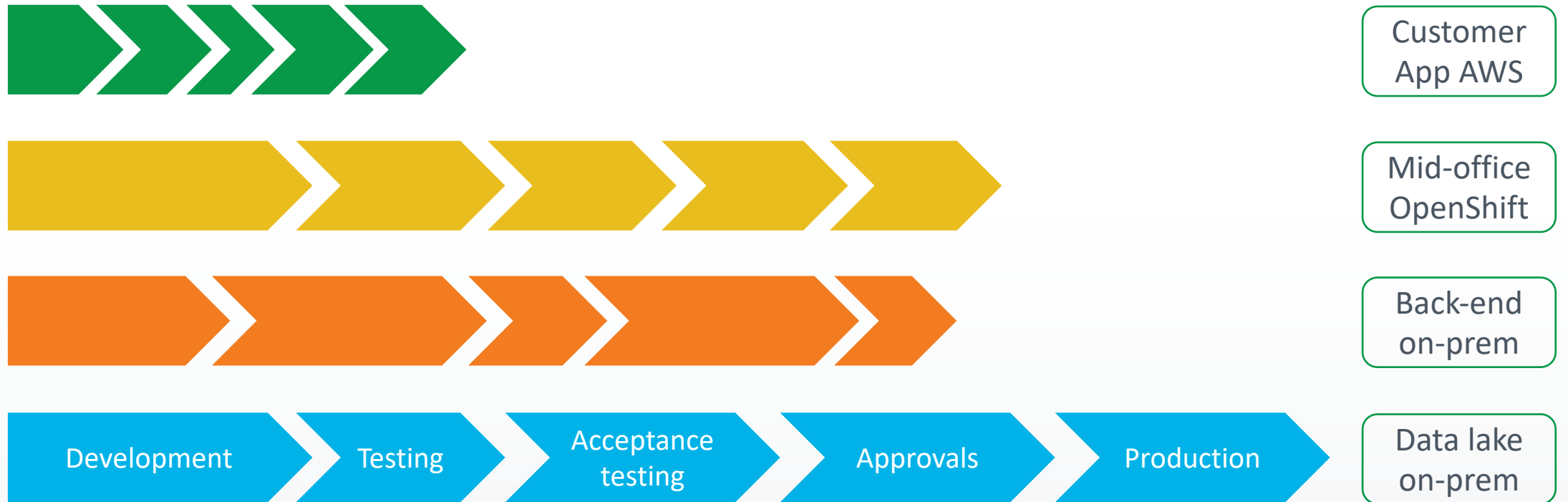
Connected pipelines to drive delivery





The reality of software delivery

Connected pipelines to drive delivery





The reality of software delivery

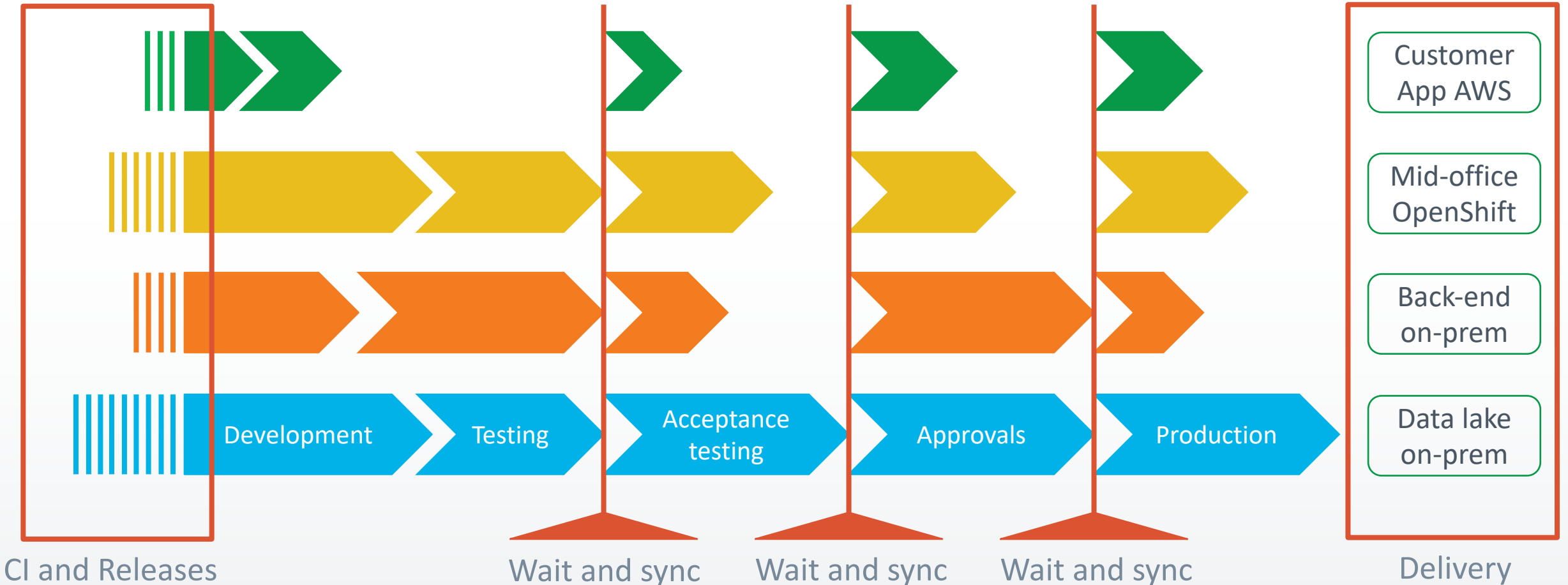
Connected pipelines to drive delivery





The reality of software delivery

Strive for: fast, frequent and independent





DevOps as a Service: A consumption-based, standardized approach to scaling DevOps

DevOps as a Service provides a platform, ready for consumption, with predefined patterns, to scale DevOps practices across the enterprise.



Services ready for use, available to all teams



Predefined patterns, providing expert knowledge to all teams



Enables enforcement of compliance and governance



Enables the acceleration of DevOps adoption