

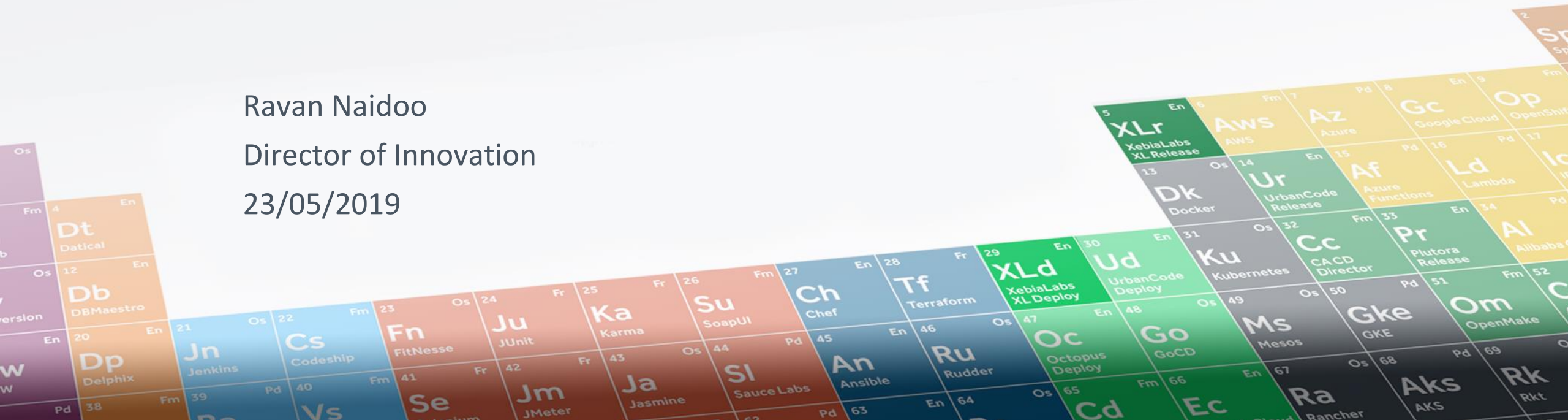
Delivery

Continuous ~~Deployment~~ at Enterprise Scale

Ravan Naidoo

Director of Innovation

23/05/2019



XebiaLabs DevOps Platform

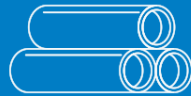
providing intelligence, automation and control
across the entire software delivery process



Shift to
the Cloud



Migrate to
Containers



Connect all
Pipelines



Connect
CI/CD &
ITSM



Improve
Governance
& Security






● ————— SCALE DEVOPS ACROSS THE ENTERPRISE ————— ●

Hundreds of Companies
deliver software with
XebiaLabs



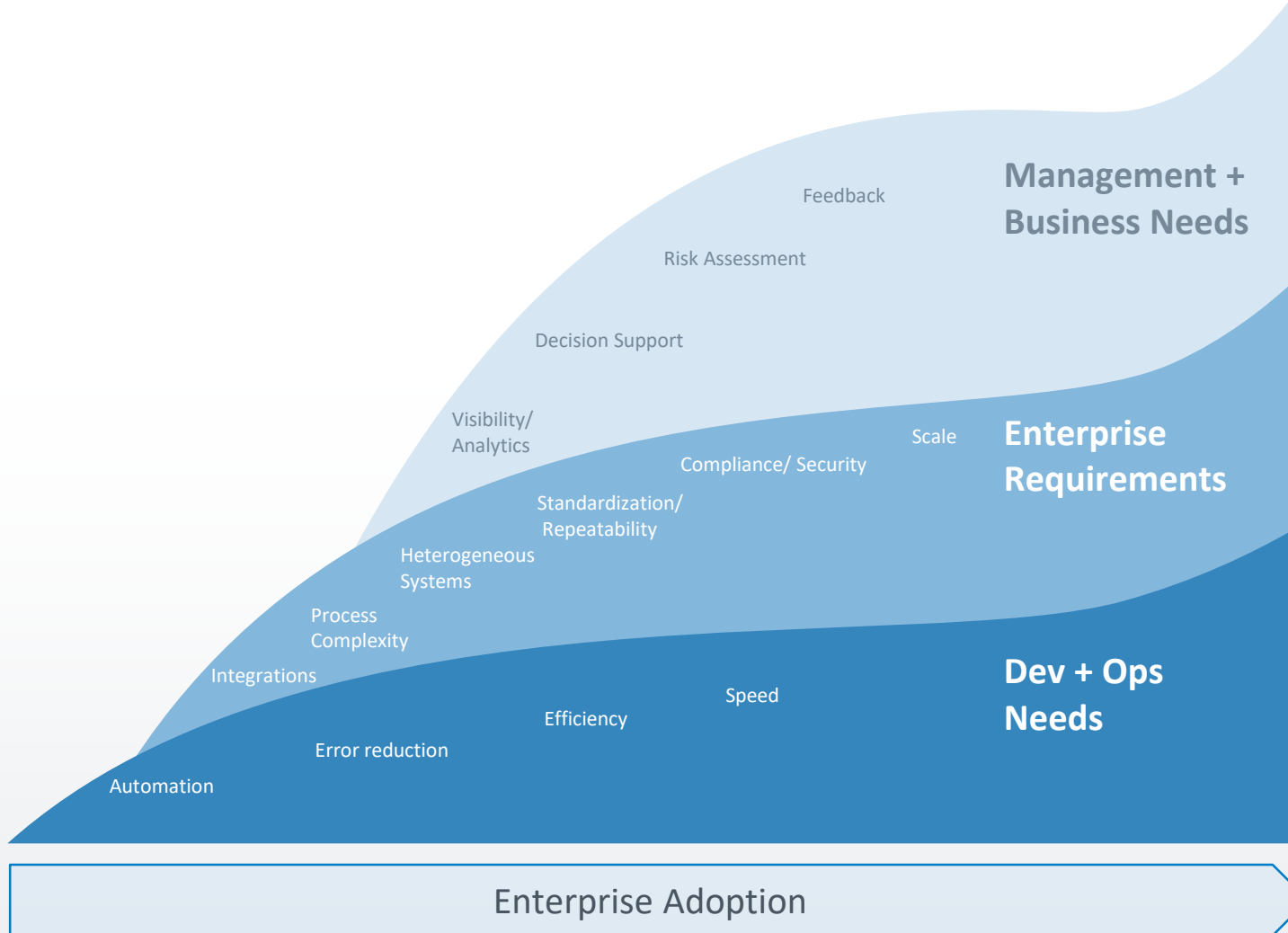


The IT World is continuously evolving

Development Methodologies	Waterfall	→	Agile	→		DevOps
Application Architecture	Monolithic	→	N-Tier	→		Microservices
Deployment and Packaging	Physical Servers	→	Virtual Servers	→		Containers
Application Infrastructure	Data Center	→	Hosted	→		Cloud
Application Test Data	Quarterly Refresh	→	Monthly Refresh	→		On-demand (within minutes)



Adoption Timeline



Use Cases

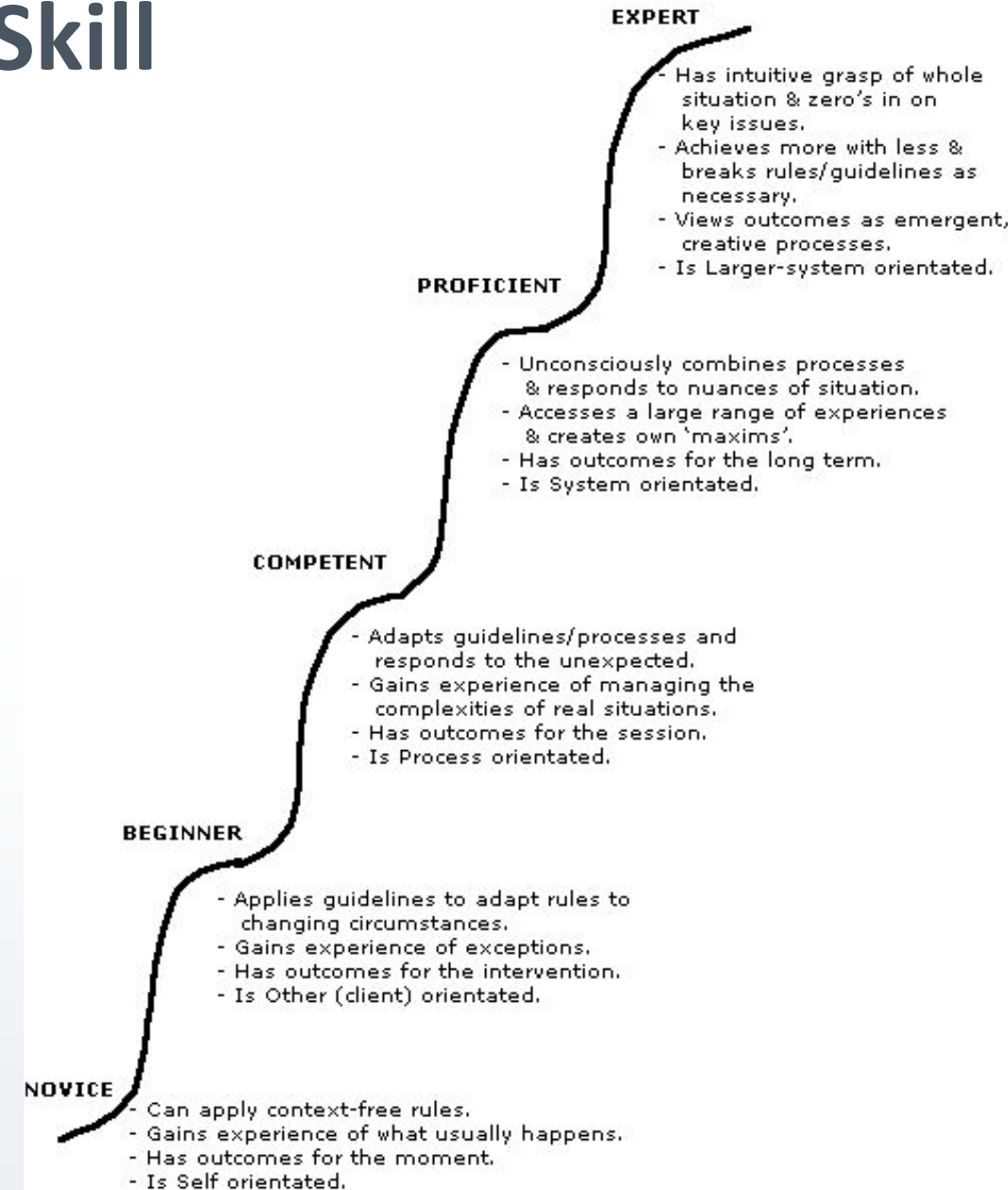
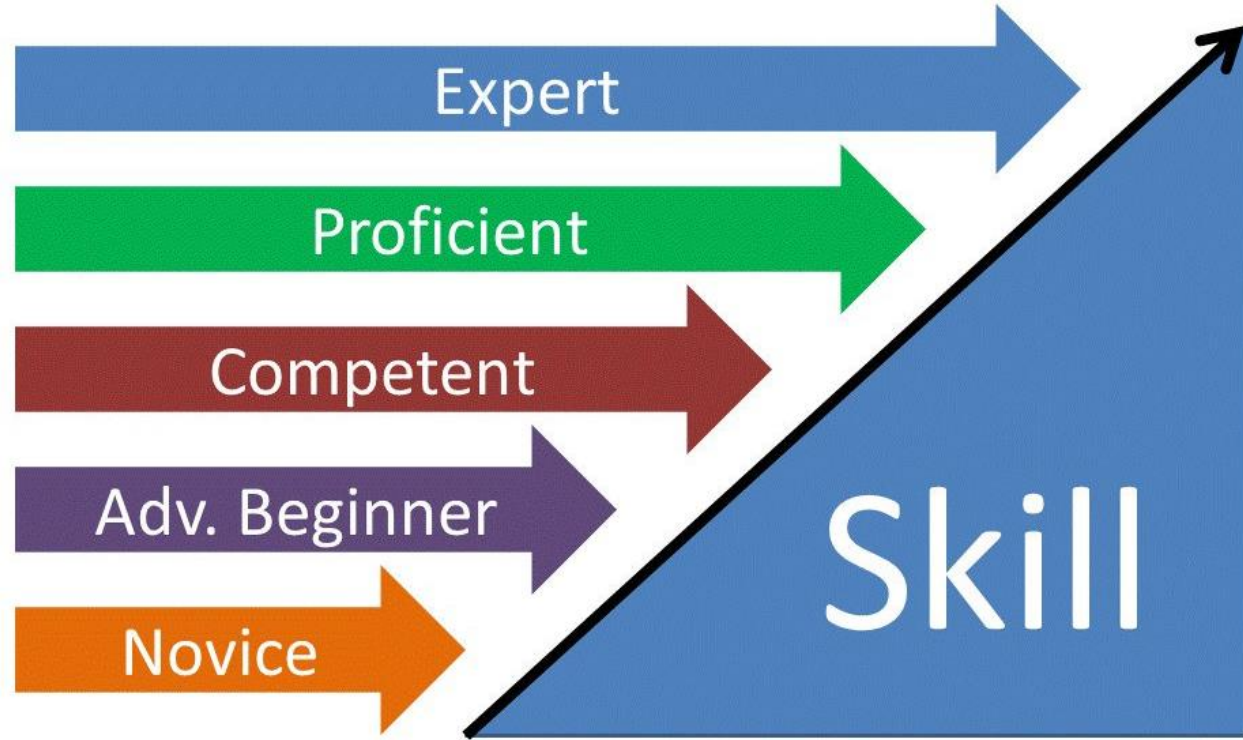
"I lack a clear view of what's going on in my releases."
"I need to know when there's risk to the schedule."
"We must meet Audit and Compliance requirements."
"I need CD to fully realize the benefits of agile."
"My failure rate is too high."

"I need to enhance legacy apps & modernize my delivery process."
"I have heterogeneous applications & mainframe apps."
"We need standardization to ensure consistency & repeatability."
"Automate all the things!"
"All steps & manual interactions need tracking."

"Microservices & apps with complex dependencies need to be delivered consistently."
"Public/private cloud, hybrid and on-premise all need to be standardized. We've hit a wall trying to manage everything with scripts."
"My developers need self-service."
"We need to find & eliminate bottlenecks in our process."

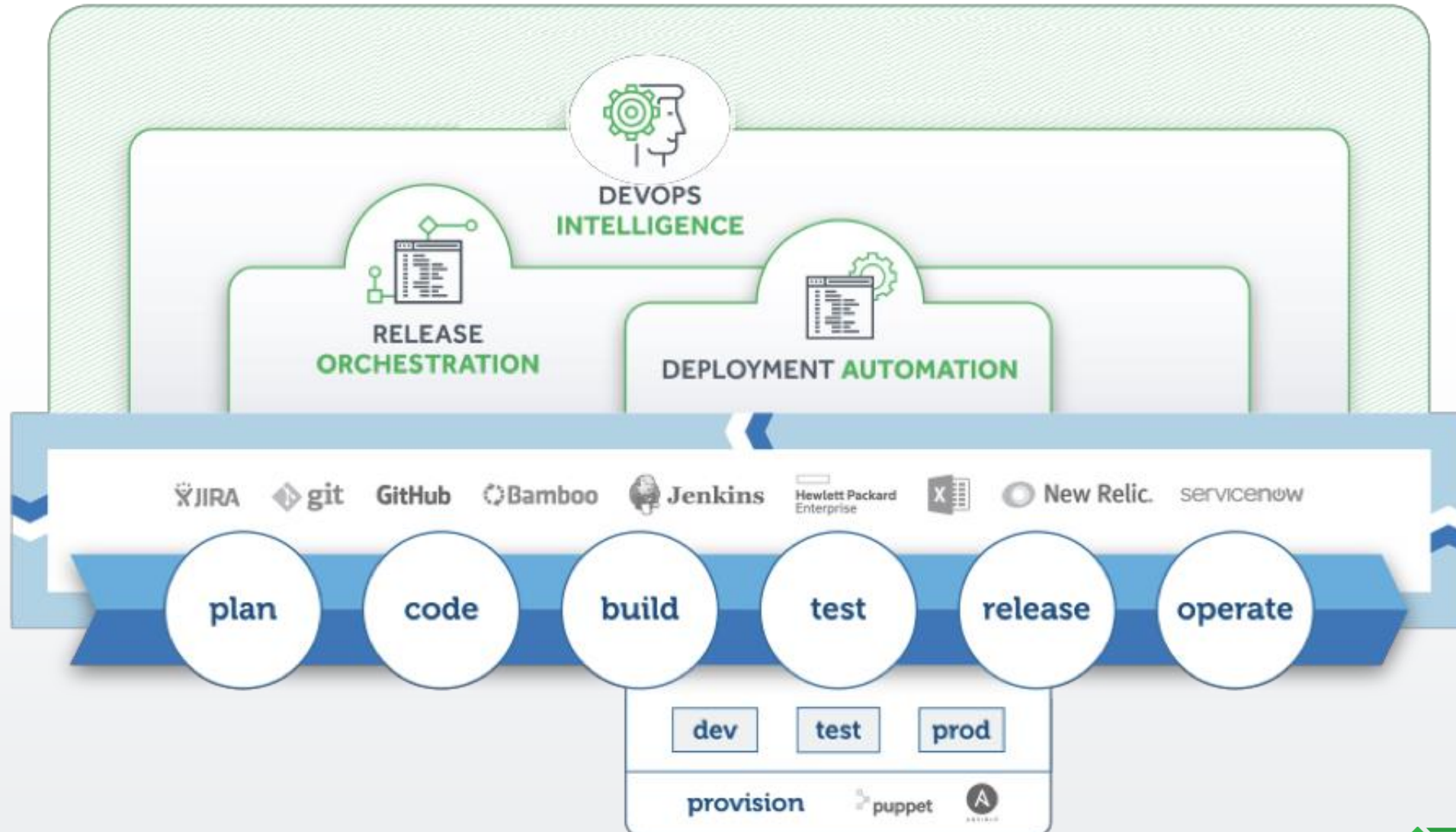


Persona's Level of Skill





Connecting all your disciplines with automation, insight and control of your software delivery process





Four disconnects to consider when scaling CD in your organisation





Disconnect 1:

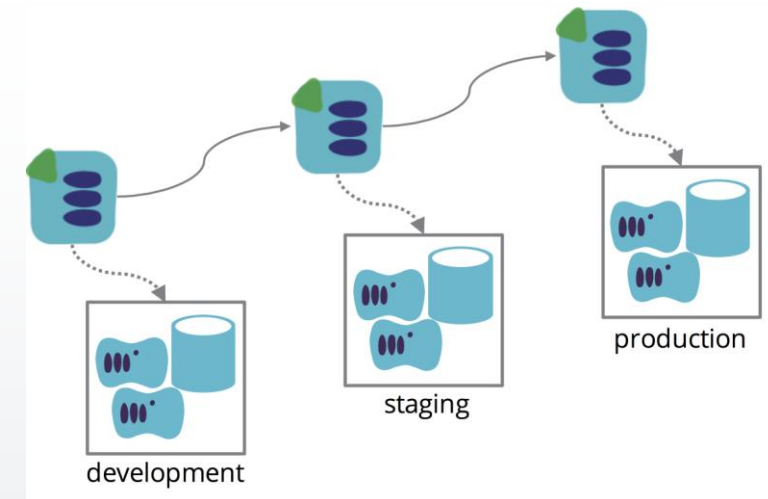
CI/CD is going lightning fast, but at the same time, happening in the dark for many





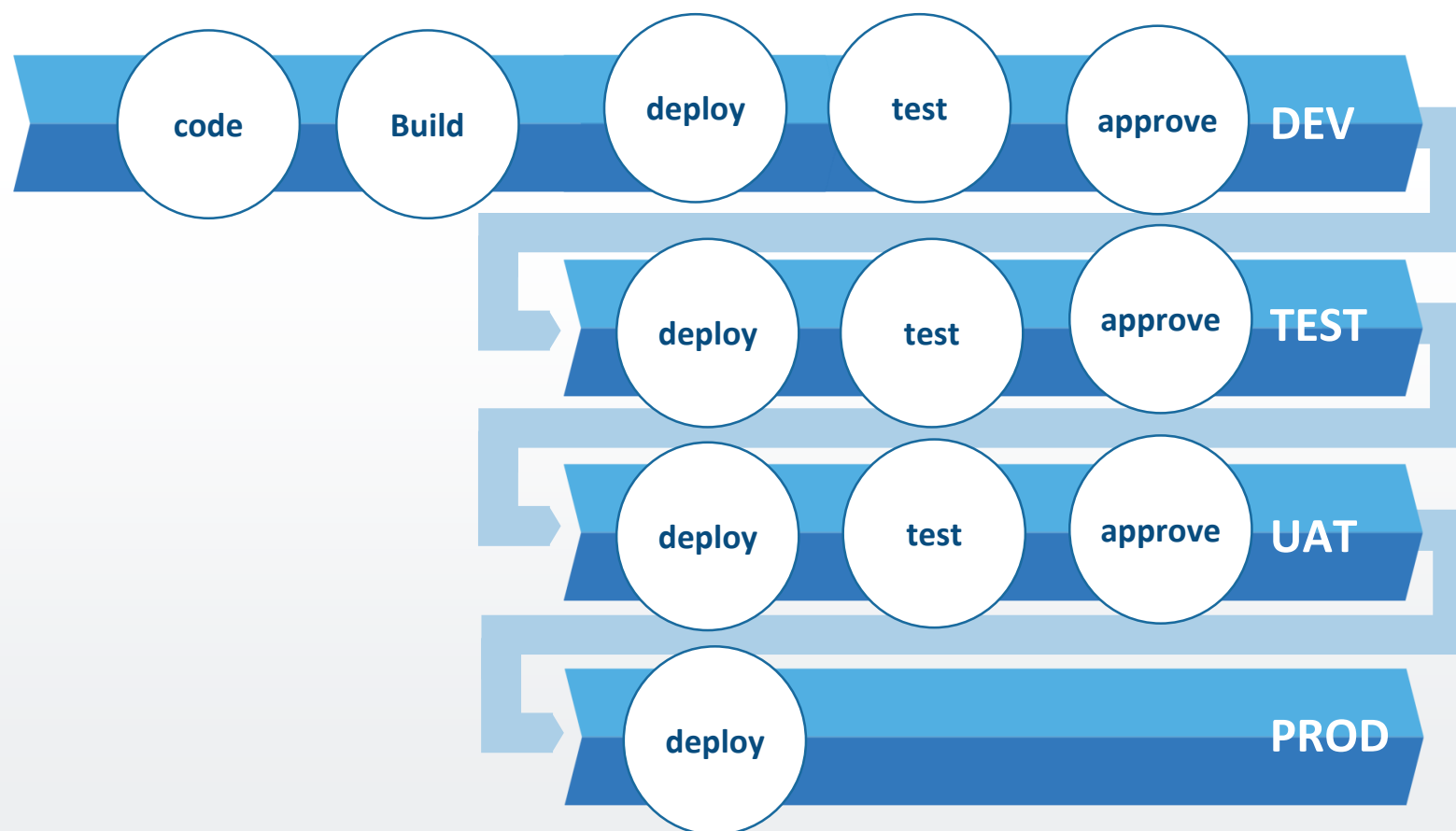
Modern DevOps deployment process driven by Team

- ❑ Checkout **GIT** repo
 - ❑ `git pull —rebase`
- ❑ Adjust variable **settings** for environment.
 - ❑ `vi values.yaml`
- ❑ Apply **templating** tool of choice to **generate** Declarative Application Management (DAM) definition
 - ❑ `helm template mycloudformation-chart >> dam.yaml`
- ❑ Use DAM command-line tool to **apply** DAM definition
 - ❑ `aws cloudformation create -stack -f dam.yaml`





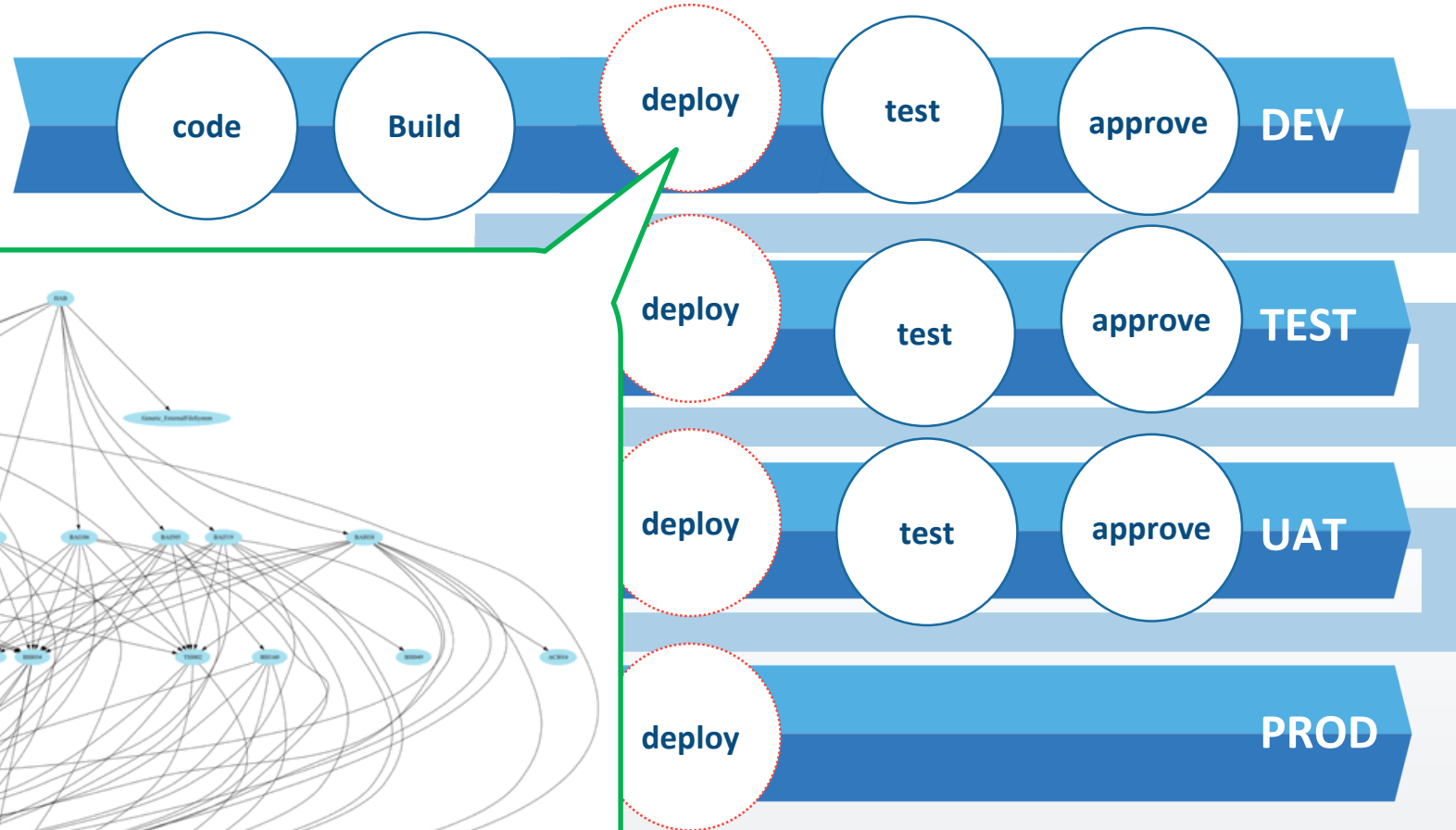
DevOps deployment process automation driven by pipelines





Enterprise Reality... deployment orchestration complexity

... added complexities with dependencies through the growing use of microservices

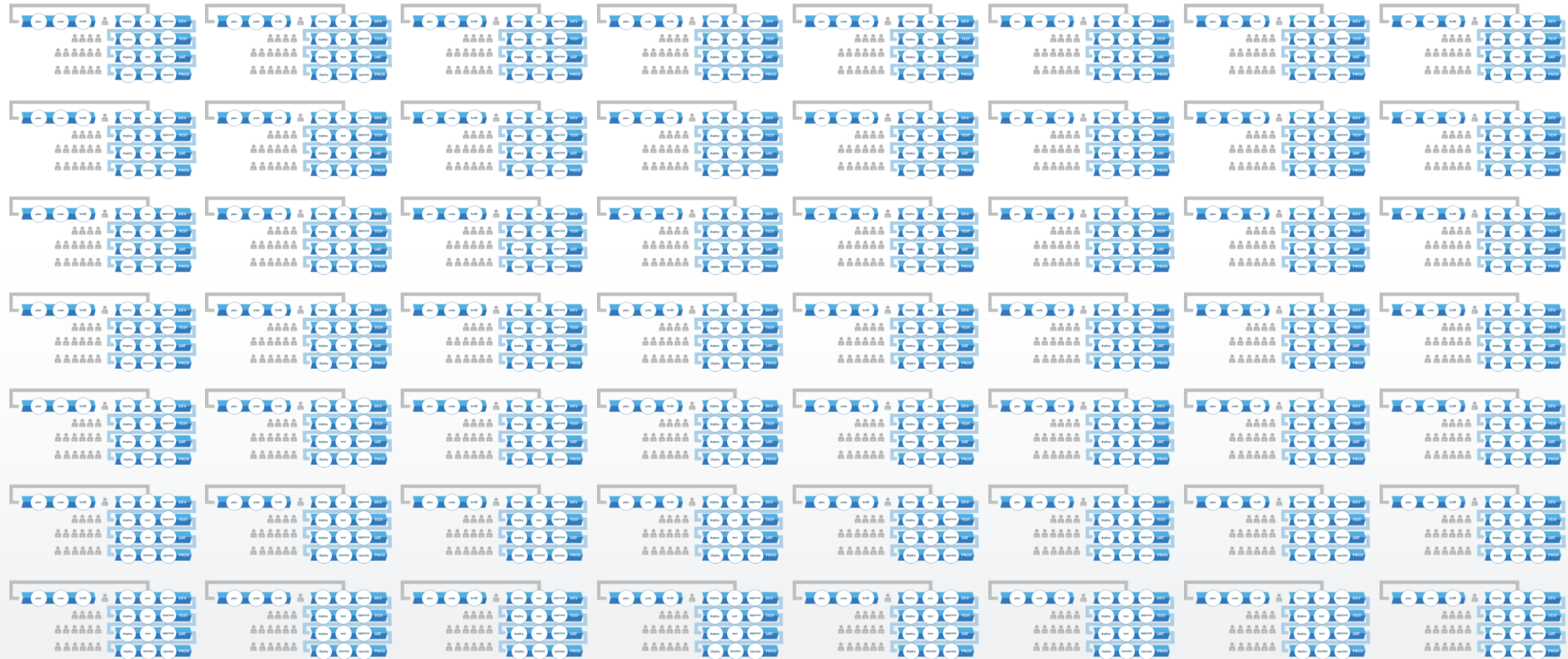




Enterprise Reality... deployment orchestration

duplication

... copy paste templates, scripts, deployment pipeline definitions across teams or even microservices





Xebia Labs Deploy Demo



Model driven deployment orchestration independent of technology
(cloud, container, legacy)

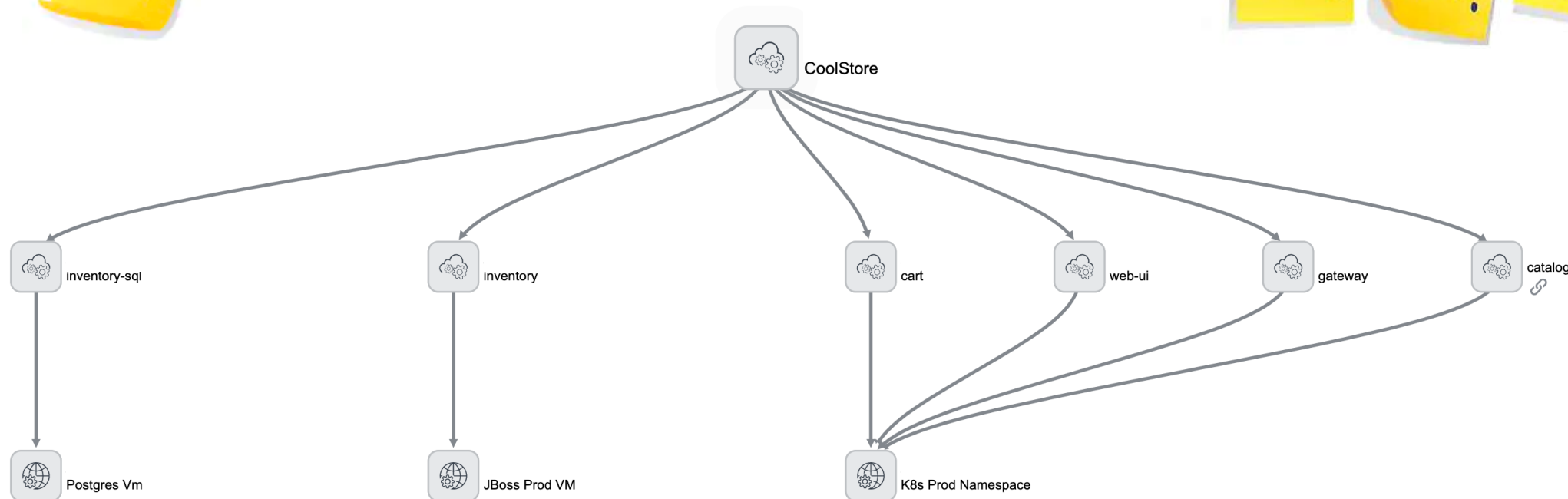
WHAT?

WE DON'T COPY
WE MODEL

HOW?

WHEN?

WHERE?





Continued look into disconnects...





Disconnect 2:

So many powerful tools, so little time for integrations

1

Os

GI

GitLab

2

En

Sp

Splunk

3

Fm

Gh

GitHub

4

En

Dt

Datical

11

Os

Sv

Subversion

12

En

Db

DBMaestro

19

En

Cw

ISPW

20

En

Dp

Delphix

21

Os

Jn

Jenkins

22

Fm

Cs

Codeship

23

Os

Fn

FitNesse

24

Fr

Ju

JUnit

25

Fr

Ka

Karma

26

Os

Su

SoapUI

27

En

Ch

Chef

28

Fr

Tf

Terraform

29

En

Xld

XebiaLabs XL Deploy

30

En

Ud

UrbanCode Deploy

31

Os

Ku

Kubernetes

32

Fm

Cc

CA CD Director

33

En

Pr

Plutora Release

34

Pd

Al

Alibaba Cloud

35

Os

Os

OpenStack

36

Os

Ps

Prometheus

37

Os

At

Artifactory

38

En

Rg

Redgate

39

Pd

Ba

Bamboo

40

Fm

Vs

VSTS

41

Fr

Se

Selenium

42

Fr

Jm

JMeter

43

Os

Ja

Jasmine

44

Pd

Sl

Sauce Labs

45

Os

An

Ansible

46

Os

Ru

Rudder

47

En

Oc

Octopus Deploy

48

Os

Go

GoCD

49

Os

Ms

Mesos

50

Pd

Gke

GKE

51

Fm

Om

OpenMake

52

Pd

Cp

AWS CodePipeline

53

Os

Cy

Cloud Foundry

54

En

It

ITRS

55

Os

Nx

Nexus

56

Os

Fw

Flyway

57

Os

Tr

Travis CI

58

Fm

Tc

TeamCity

59

Os

Ga

Gatling

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Fr

Tn

TestNG

61

Fm

Tt

Tricentis Tosca

62

Pd

Pe

Perfecto

63

En

Pu

Puppet

64

Os

Pa

Packer

65

Fm

Cd

AWS CodeDeploy

66

En

Ec

ElectricCloud

67

Os

Ra

Rancher

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Pd

Aks

AKS

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Os

Rk

Rkt

70

Os

Sp

Spinnaker

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Pd

Ir

Iron.io

72

Pd

Mg

Moogsoft

73

Fm

Bb

BitBucket

74

En

Pf

Perforce HelixCore

75

Fm

Cr

Circle CI

76

Pd

Cb

AWS CodeBuild

77

Fr

Cu

Cucumber

78

Os

Mc

Mocha

79

Os

Lo

Locust.io

80

En

Mf

Micro Focus UFT

81

Os

Sl

Salt

82

Os

Ce

CFEngine

83

En

Eb

ElasticBox

84

En

Ca

CA Automic

85

En

De

Docker Enterprise

86

Pd

Ae

AWS ECS

87

Fm

Cf

Codefresh

88

Os

Hm

Helm

89

Os

Aw

Apache OpenWhisk

90

Os

Ls

Logstash

Os

Open Source

Fr

Free

Fm

Freemium

Pd

Paid

En

Enterprise

Source Control Mgmt.

Database Automation

Continuous Integration

Testing

Configuration

Deployment

Containers

Release Orchestration

Cloud

AIOps

Analytics

Monitoring

Security

Collaboration

5

En

Xlr

XebiaLabs XL Release

6

Fm

Aws

AWS

7

Pd

Az

Azure

8

En

Gc

Google Cloud

9

En

Op

OpenShift

10

En

Sl

Sumo Logic

13

Os

Dk

Docker

14

En

Ur

UrbanCode Release

15

Pd

Af

Azure Functions

16

Pd

Ld

Lambda

17

Fm

Ic

IBM Cloud

18

Os

Fd

Fluentd

PERIODIC TABLE OF DEVOPS TOOLS (V3)

EMBED

DOWNLOAD

ADD



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106 En Sw ServiceNow	107 Pd Jr Jira	108 Fm Tl Trello	109 Fm Sl Slack	110 Fm St Stride	111 En Cn CollabNet VersionOne	112 En Ry Remedy	113 En Ac Agile Central	114 Pd Og OpsGenie	115 Pd Pd Pagerduty	116 Os Sn Snort	117 Os Tw Tripwire	118 En Ck CyberArk Conjur	119 En Vc Veracode	120 Os Ff Fortify SCA



Disconnect 3:

Lack of focus on Security and Operations

The background is a dark blue field filled with a pattern of glowing hexagons. Inside many of these hexagons are white padlock icons. The entire scene is overlaid with a faint, glowing grid of binary code (0s and 1s).

Dev : Sec : Ops
100 : 1 : 10



Disconnect 4:

Business process of delivering value is not connected to the IT process





XebiaLabs Release Demo



Software delivery pipelines for everyone

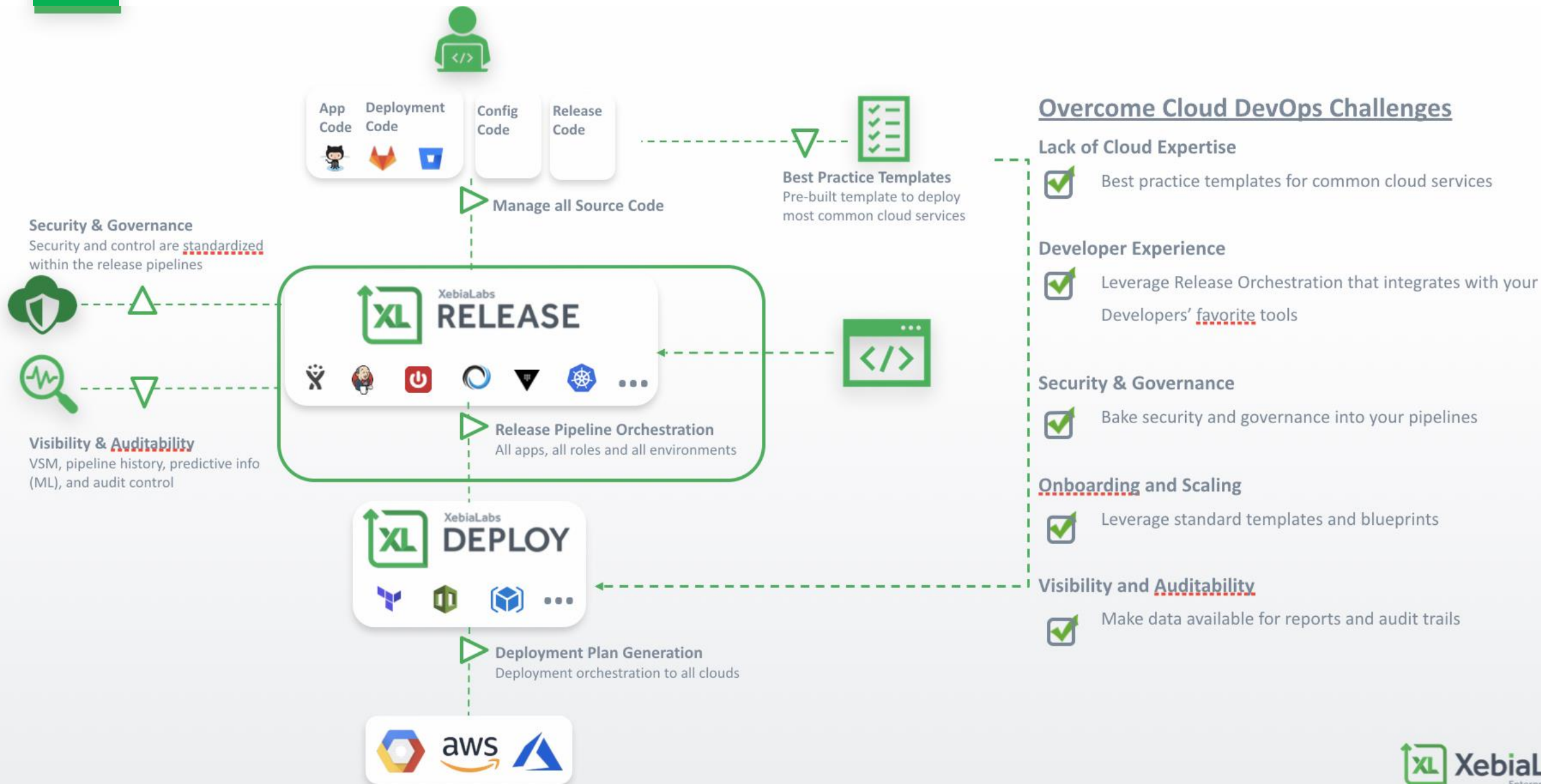
***“With XebiaLabs we enable
DevOps for all Tools,
DevOps for all Apps,
DevOps for Everyone”***

*Kurt Straube, Systems Director
John Hancock*





XebiaLabs DevOps Platform



Thank you for listening!

