

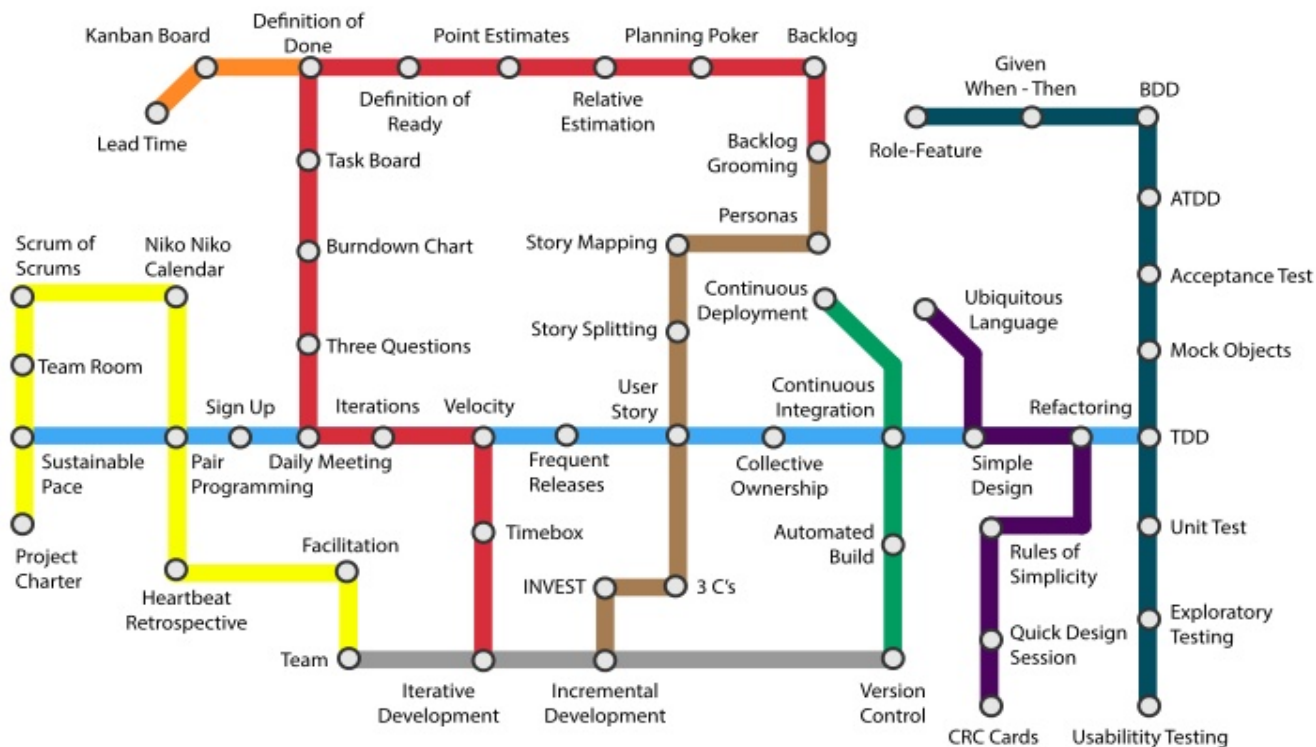
Please evaluate
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mobile app!



**WORKED FINE IN
DEV**

OPS PROBLEM NOW

Agile Tribes



Practice Areas

Extreme Programming
Teams
Lean

Scrum
Product Management
DevOps

Design
Testing
Fundamentals

What is your cycle time



A high-angle, wide shot of a modern automotive manufacturing plant. The floor is filled with robotic workstations. Several large, orange and white robotic arms are positioned around car chassis, performing tasks like welding or assembly. The background shows a complex network of metal frames, pipes, and other industrial equipment. The lighting is bright and even. A semi-transparent banner with the text "Process optimization." is overlaid in the center.

Process optimization.

Cost and value

Invest in the delivery pipeline to decrease the cost of running your process



Software and cars are different

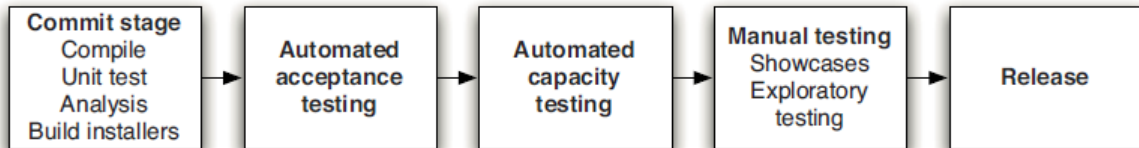






Deployment

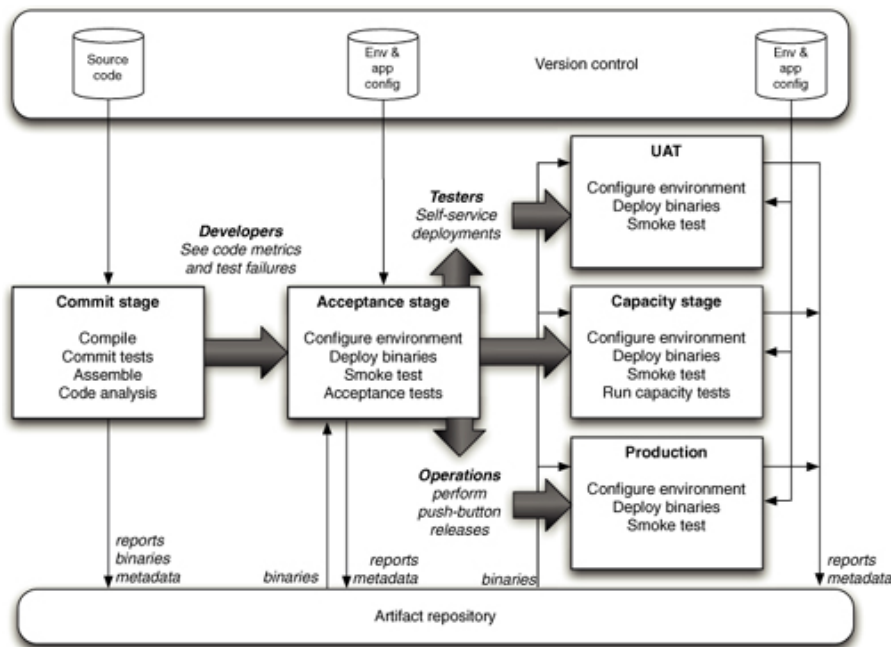
The deployment pipeline as a solution



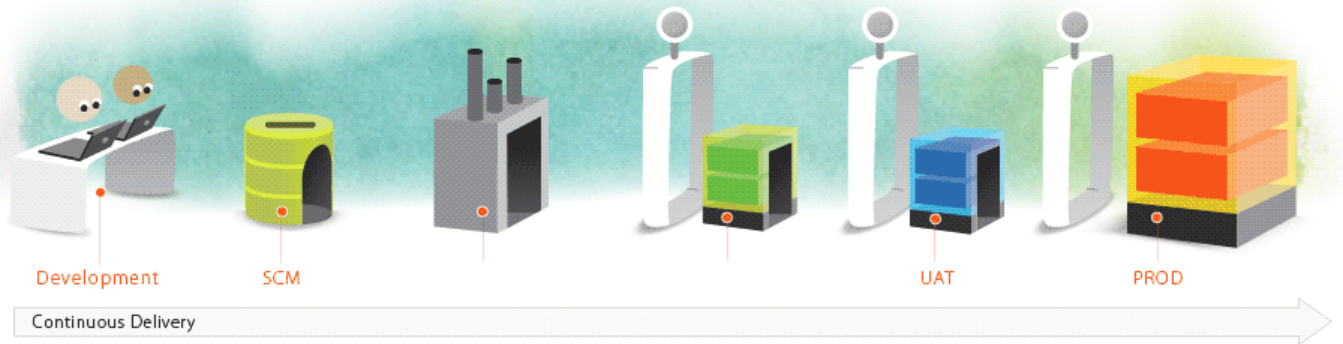
- Every change should trigger the feedback process
- Feedback must be received as soon as possible
- The delivery team must receive the feedback and act on it

Release software **automated** and **frequent**

Deployment pipeline in detail



As described by Jez Humble and Dave Farley



Cost Reduction Estimate

Phase cost / Project Type	New projects / CRs		Upgrade Projects	
	Current	Target	Current	Target
Architecture	2	2	0	0
Design	8	8	5	5
Development	25	13	10	7
E2ETest	20	4	25	5
UAT Test	25	16	30	20
Performance	5	4	5	4
Go-Live	2	1	15	10
Post PROD	3	1	5	4
Operations	5	5	5	5
PMO	5	5	0	0
Total	100	65	100	60
Estimated Cost Savings	30% to 40%		40% to 45%	

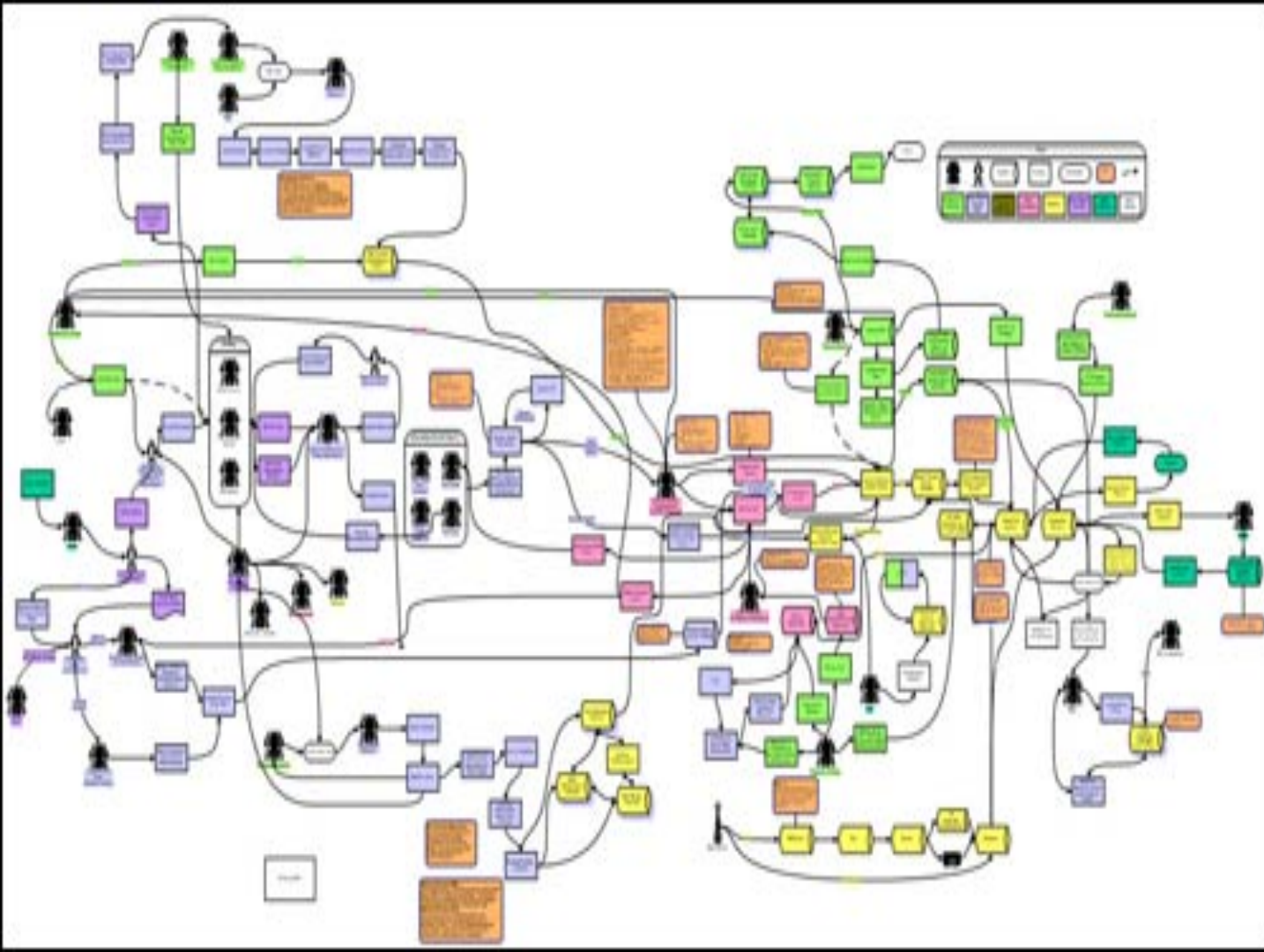
Note: Automation will be introduced on items in **blue**.
Items in black will receive reduction through indirect impact

An aerial photograph of the New York City skyline at sunset. The image shows a dense cluster of skyscrapers in the foreground, including the MetLife building and the Chrysler Building. The Hudson River is visible on the right, and the East River is on the left. The background shows the city extending to the horizon under a hazy, orange-tinted sky.

Process

Do you recognize this?

- Software is deployed manually
- Deployment to a production-like environment only after development is complete
- Manual configuration management of production environments





Principle #7:

Improve the System /

See the Whole /

Optimize the Whole





Teams



How the customer explained it



How the Project Leader understood it



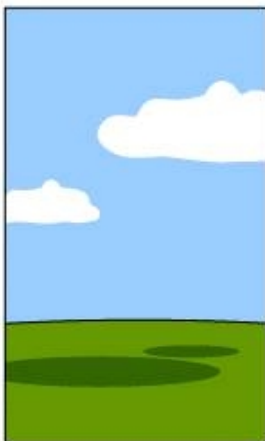
How the Analyst designed it



How the Programmer wrote it



How the Business Consultant described it



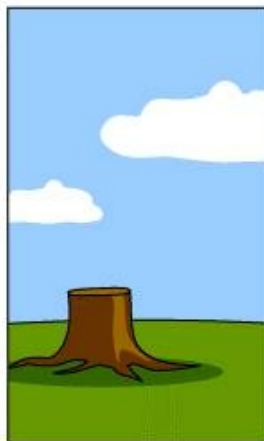
How the project was documented



What operations installed



How the customer was billed



How it was supported



What the customer really needed

Teams per product not per project



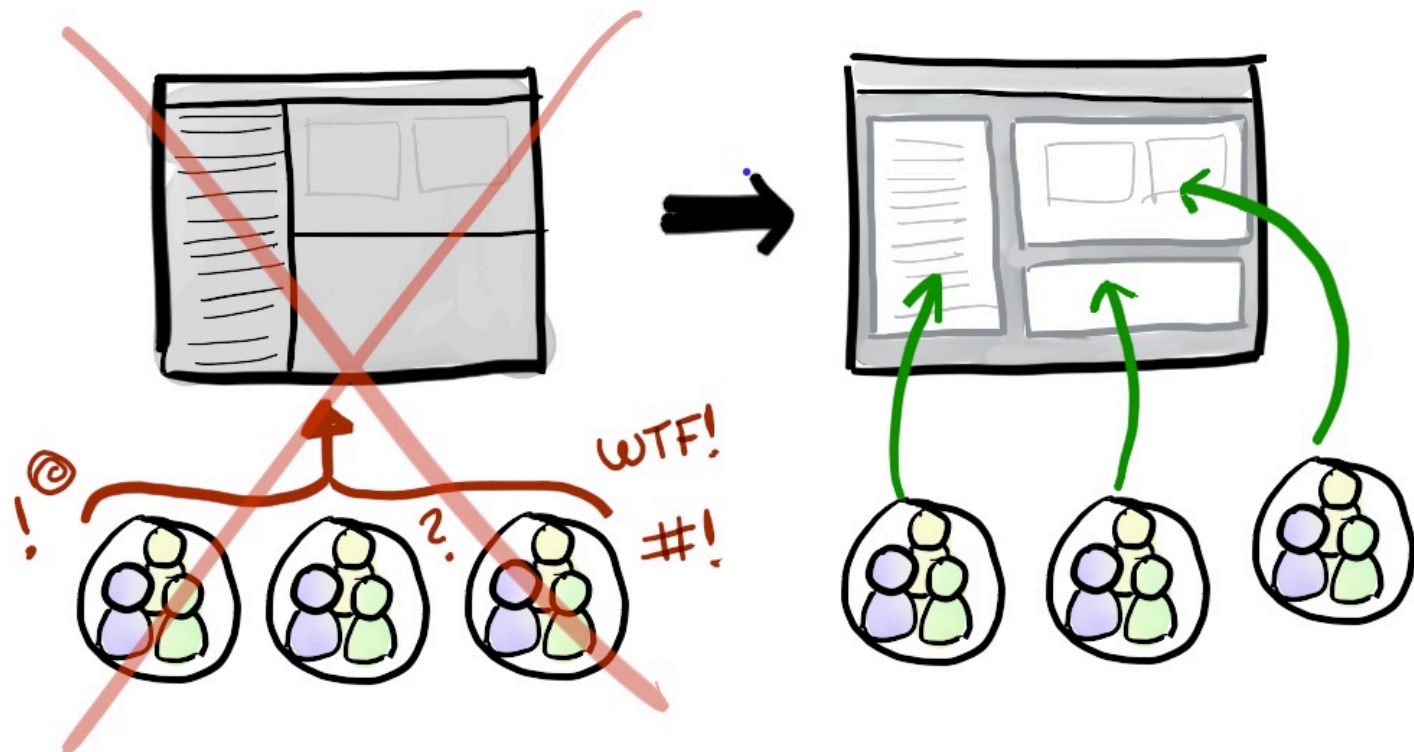


**KEEP
CALM
And
RESPECT
THE PEOPLE**

An aerial night photograph of a city, likely New York City, showing a dense grid of streets illuminated by streetlights. A large body of water, possibly a river or harbor, is visible in the center-left. The image is tilted slightly to the right.

Architecture

Decoupled releases

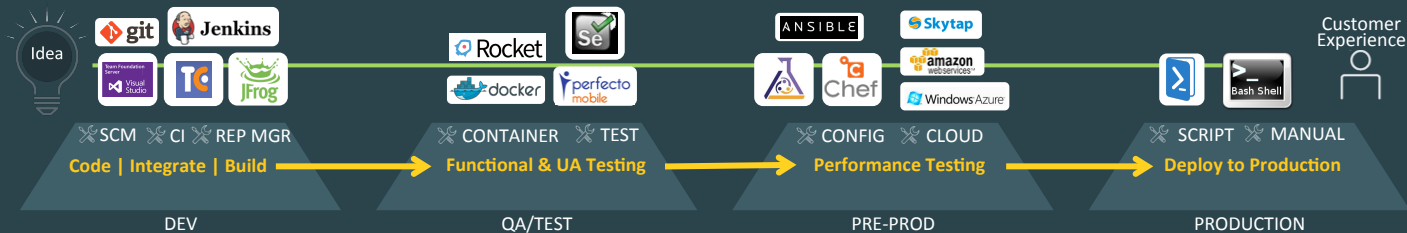


Tools



CA Release Automation

Continuous Delivery Value Chain is Chaotic and Complex



Traditional “software factory”

Developers
Deadlocked

Constrained
Environments

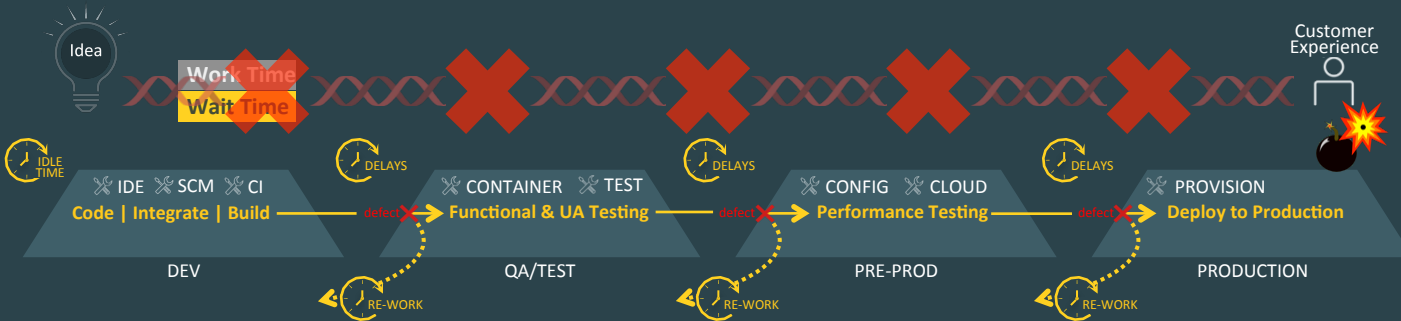
Manual
Testing

Too little
testing, too late
in the cycle

Too many
disparate
tools

Manual
Scripting

Poor
customer
experience



Continuous Delivery from CA

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Parallel
Work
Streams

Quality
Acceleration

End-to-end
Automation

Idea

Work Time

Customer
Experience



Code | Integrate | Build

Functional & UA Testing

Performance Testing

Deploy to Production

DEV

QA/TEST

PRE-PROD

PRODUCTION

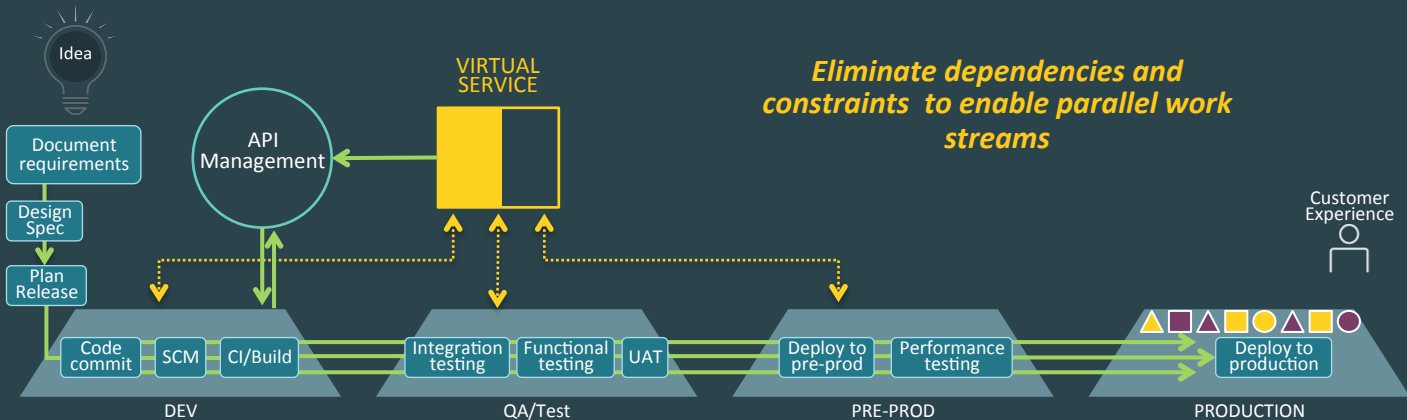
Tooling for highly automated, end-to-end software pipeline

Parallel Work Streams

Quickly create, edit and deploy virtual services

Accurately simulate dev, test and production

Virtualize APIs and manage access



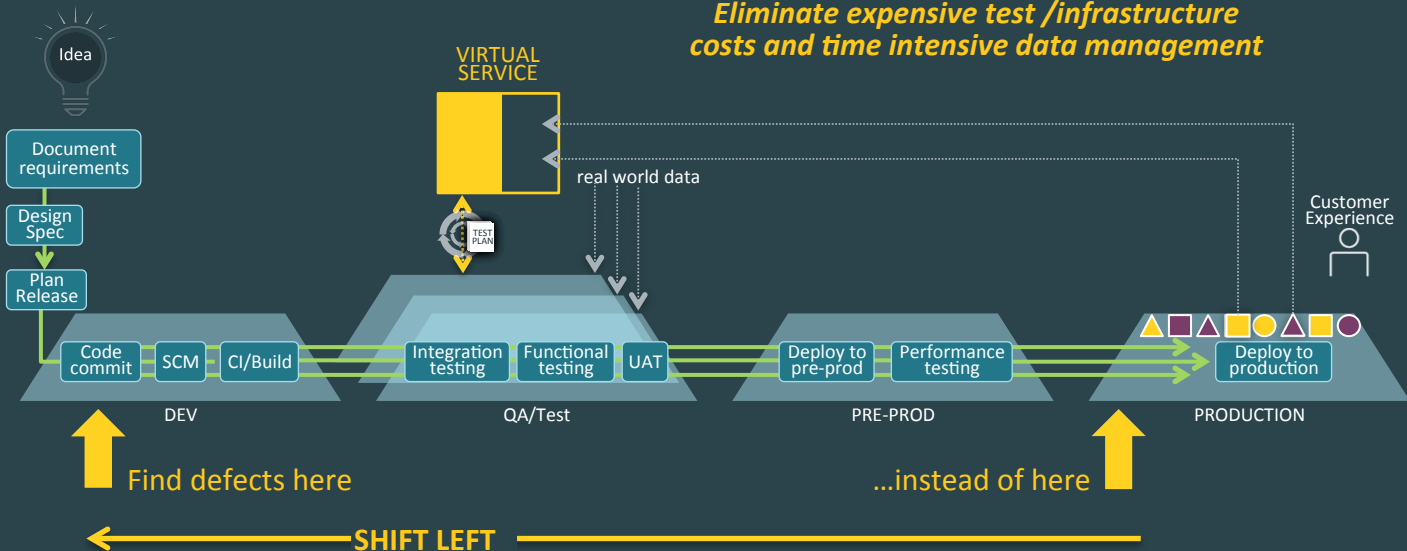
Quality Acceleration

Extract real-world data to provision test environments

Automatically generate test cases and virtual services

Test on any device or platform mobile-to-mainframe

Eliminate expensive test /infrastructure costs and time intensive data management

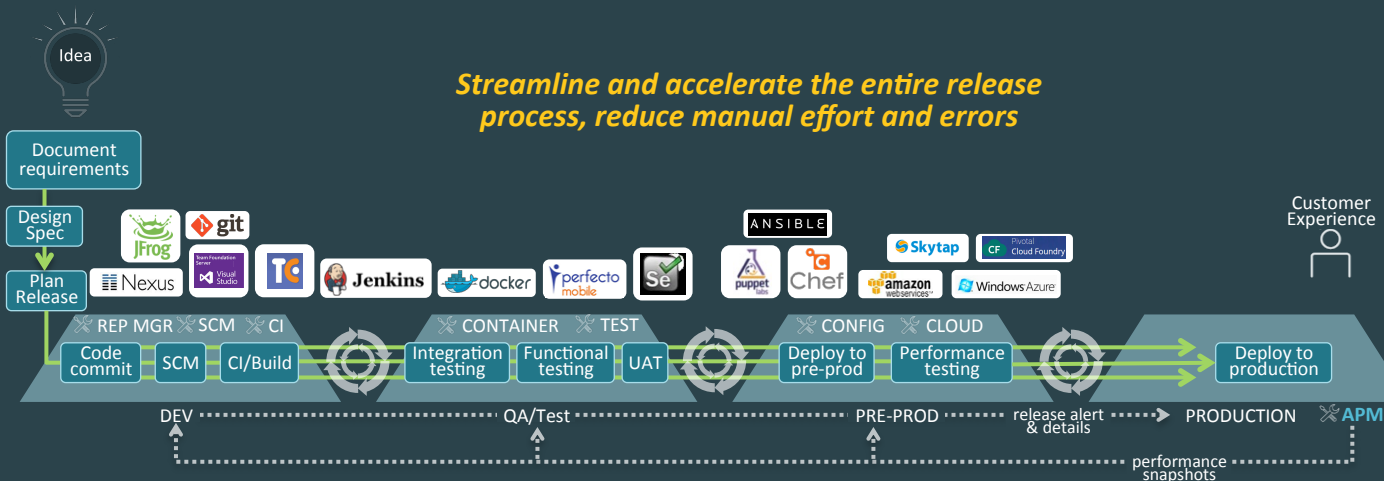


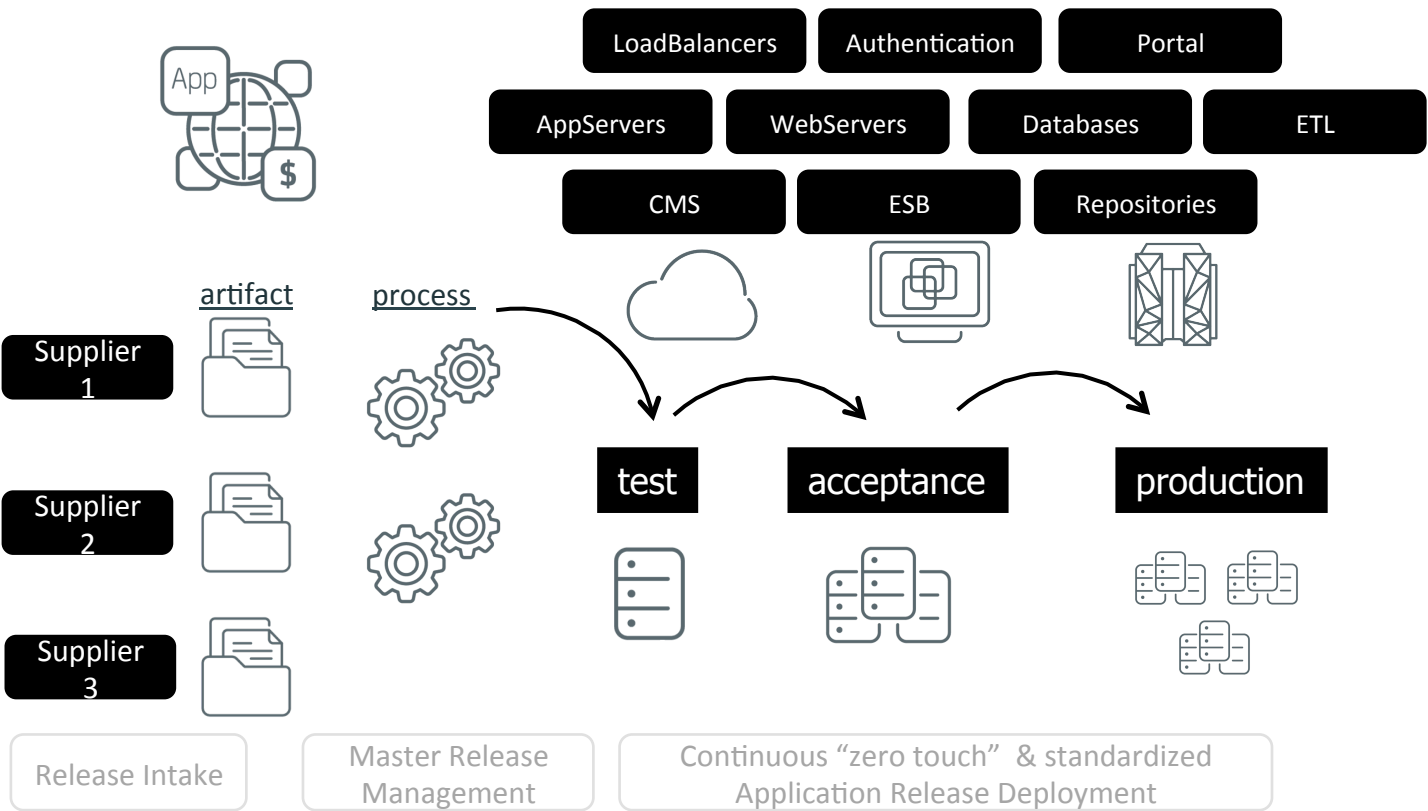
End-to-end
Automation

Integrate 100+ open
source and 3rd party
tools

Automate application
deployment & promotion

Create continuous
feedback loops







artifact



Supplier
1



Supplier
2



Supplier
3

prod



Standardization

Shared Components – No Scripting - Capture Knowledge

Agile Transformation

Increase from 10 to 4000 release deployments/month

Consistency and Efficiency

Reduce release failures and manual effort by 90%

Continuous Delivery Transformation

Reduce Cycle Time from 13 weeks to 1 week

Release Intake

Master Release
Management

Continuous “zero touch” & standardized
Application Release Deployment

CA Continuous Delivery Customer Value

REGIONAL BANK

- Cut 3 ½ Months from Dev. time
- Cut 65-85% testing cycle costs
- Cut Dev. Env set up time 42 days to 3 days

GLOBAL TELCO

- Reduced major defects per release
- Saved at least US\$ 280K/yr.
- Access to end-to-end environments 90% of the time.

HEALTHCARE PROVIDER

- 25% efficiency gain
- Shortened cycle by 4 weeks
- Better Testing found 30 fewer bugs - a \$600K saving

MULTINATIONAL GROCER

- Reduced release cycles from 3 days to 20 min.
- Updates to international online grocery app.
- \$420K/month saving

GLOBAL CREDIT CARD

- Nearly 100% uptime for Virtual Services
- Zero defects in UAT
- \$319K/year net annual savings estimate
- 15 month ROI

GOVERNMENT

- Mainframe cost drop 50%-60% expected
- Improved product quality and expedited time-to-market
- Replaced testing environment

INSURANCE

- Reduced regression cycles by 40%-70%
- Reduced 4 weeks of first release of new solution
- \$1.2M efficiency gained in first 2 years after implementation

HEALTHCARE GROUP

- ROI in 8 Months
- 300% increase in weekly deployments
- 200% increase in number of deployed environments

Contact



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