HCL SOFTWARE

DevOps

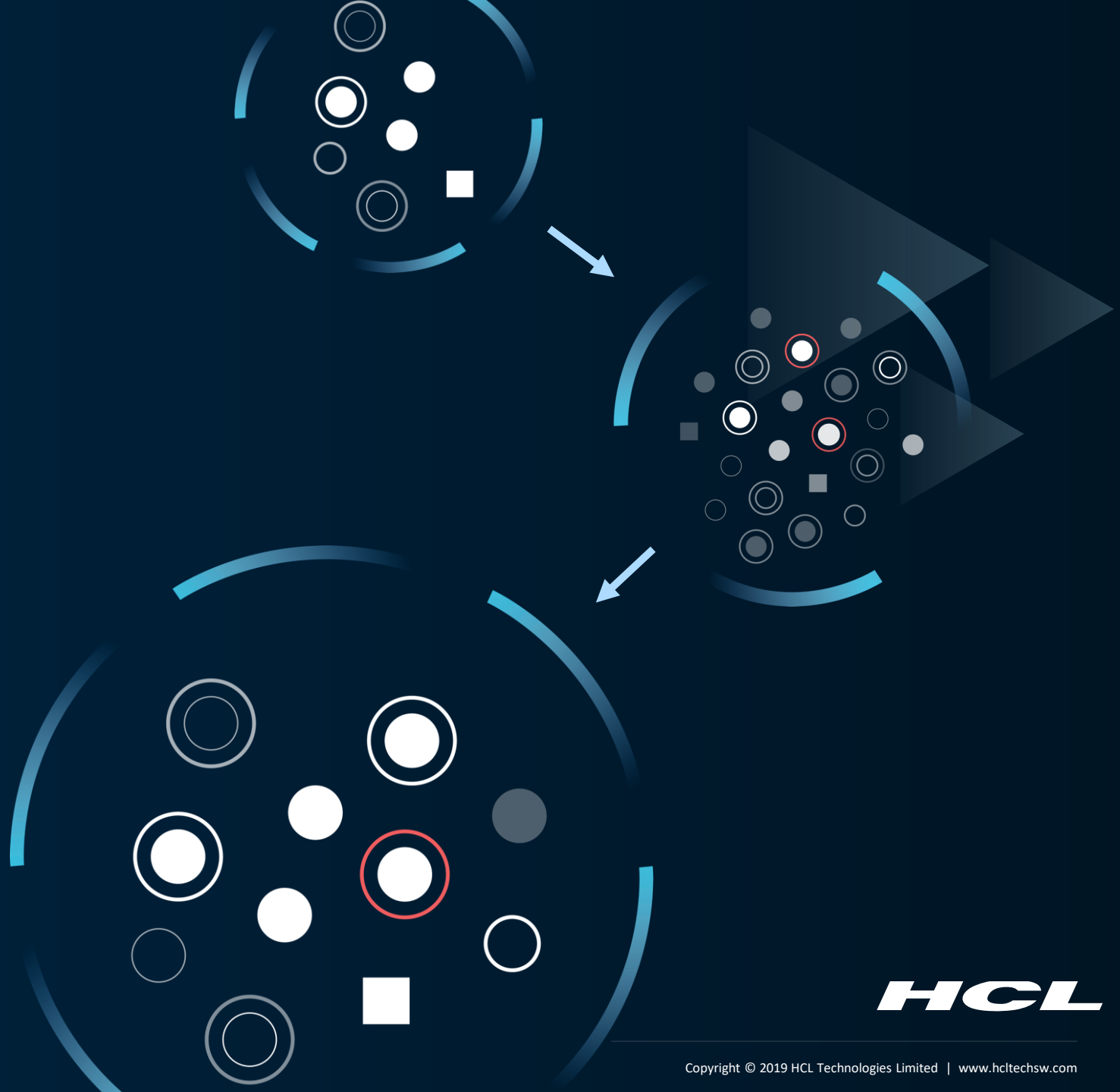
Enterprise Security and Quality
with Elite Delivery Performance

urban {code}

HCL AppScan

HCL OneTest

POWERSHIP



HCL

Copyright © 2019 HCL Technologies Limited | www.hcltechsw.com

Disclaimer

HCL's statements regarding their plans, directions, and intent are subject to change or withdrawal without notice at HCL's sole discretion. Information regarding potential future products is intended to outline our general product direction and it should not be relied on in making a purchasing decision. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for our products remains at our sole discretion.

Information is confidential and must not be shared or redistributed without permission from HCL.

Note: UrbanCode is a trademark of IBM Corporation, registered in many jurisdictions, and is used under license.

Copyright © 2019 HCL Technologies Limited | www.hcltechsw.com

DevOps is the "how" and is Essential to Prevent Being Disrupted

FLOW

Dramatically reduce time from **idea to production** capability while increasing productivity

STABILITY

Minimize re-work, **reduce defects**, and improve change success rates

GOVERNANCE

Avoid catastrophic incidences by catching security problems and other risks earlier in the lifecycle

Examples of benefits that clients have experienced:

Cut implementation time by 95%

Improve code quality by 50%

97% reduction of cost of a release

Achieve a 75 percent reduction in time required for new application releases

Reduce system integration testing time from 3 weeks to 4 hours

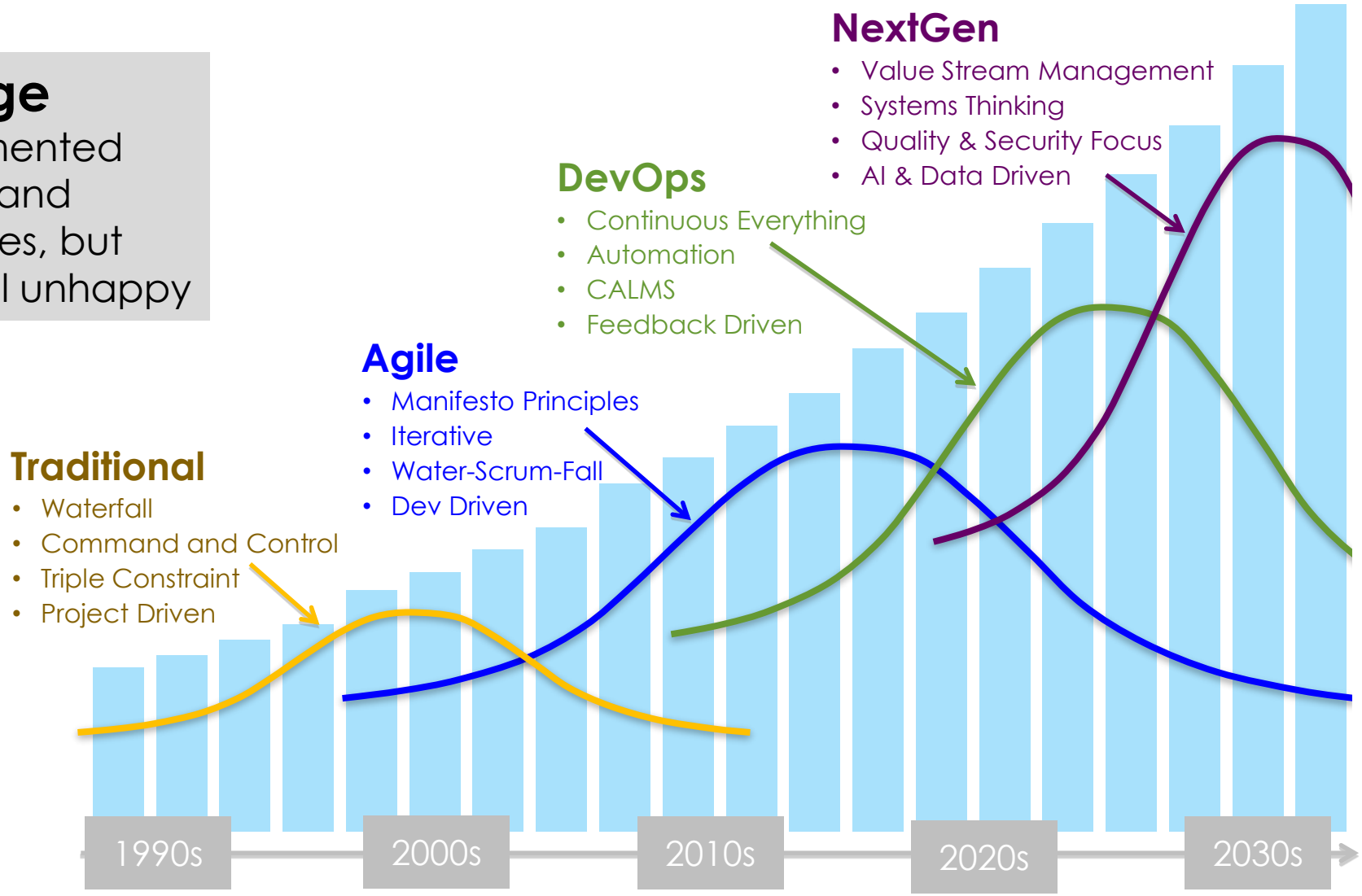
"We used to be in the office all night, now we have guys deploying from their phones."

Copyright © 2019 HCL Technologies Limited | www.hcltechsw.com

We Are Seeing a Fundamental Shift in Software Delivery Trend Waves

The Challenge

We have implemented Agile, new tools and certified processes, but the business is still unhappy



Copyright © 2019 HCL Technologies Limited | www.hcltechsw.com

HCL SOFTWARE

Common DevOps Challenges We Hear from Our Customers

1. Connecting IT Value to Business Value
2. Adapting organizational culture and alignment
3. Scaling best practices across the enterprise
4. Optimizing flow across the end-to-end value stream
5. Managing across many tools and decades of technology platforms
6. Minimizing risk from security and quality exposure
7. Shifting security, quality and governance left
8. Increasing the frequency of production releases

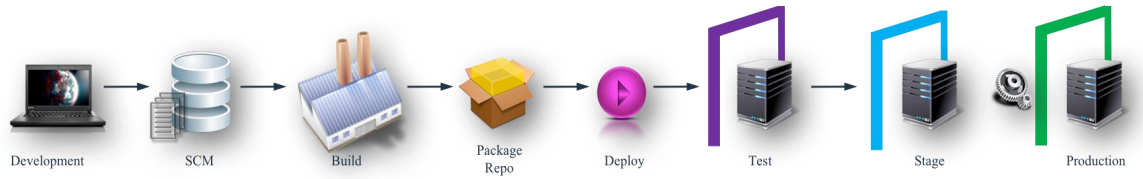
How do I govern my DevOps without sacrificing speed?

Copyright © 2019 HCL Technologies Limited | www.hcltechsw.com

DevOps Leaders Are Moving Beyond Tooling

Day 1: Continuous Delivery Pipeline

- Establish an automated, controlled path to production
- Clear ROI and provides the Infrastructure Backbone
- Often includes CI, CD, Test and Security Tooling



Day 2: Technical leaders are looking to do DevOps better through….

Value Stream Optimization

- **Visualize the flow** of work from idea to production to exploit bottlenecks
- Measure real-time **Value Stream Metrics** to manage for business value, speed and stability
- Driving **business value** with a single pipeline of pipelines view across many tools, components and environments

Shifting Governance Left

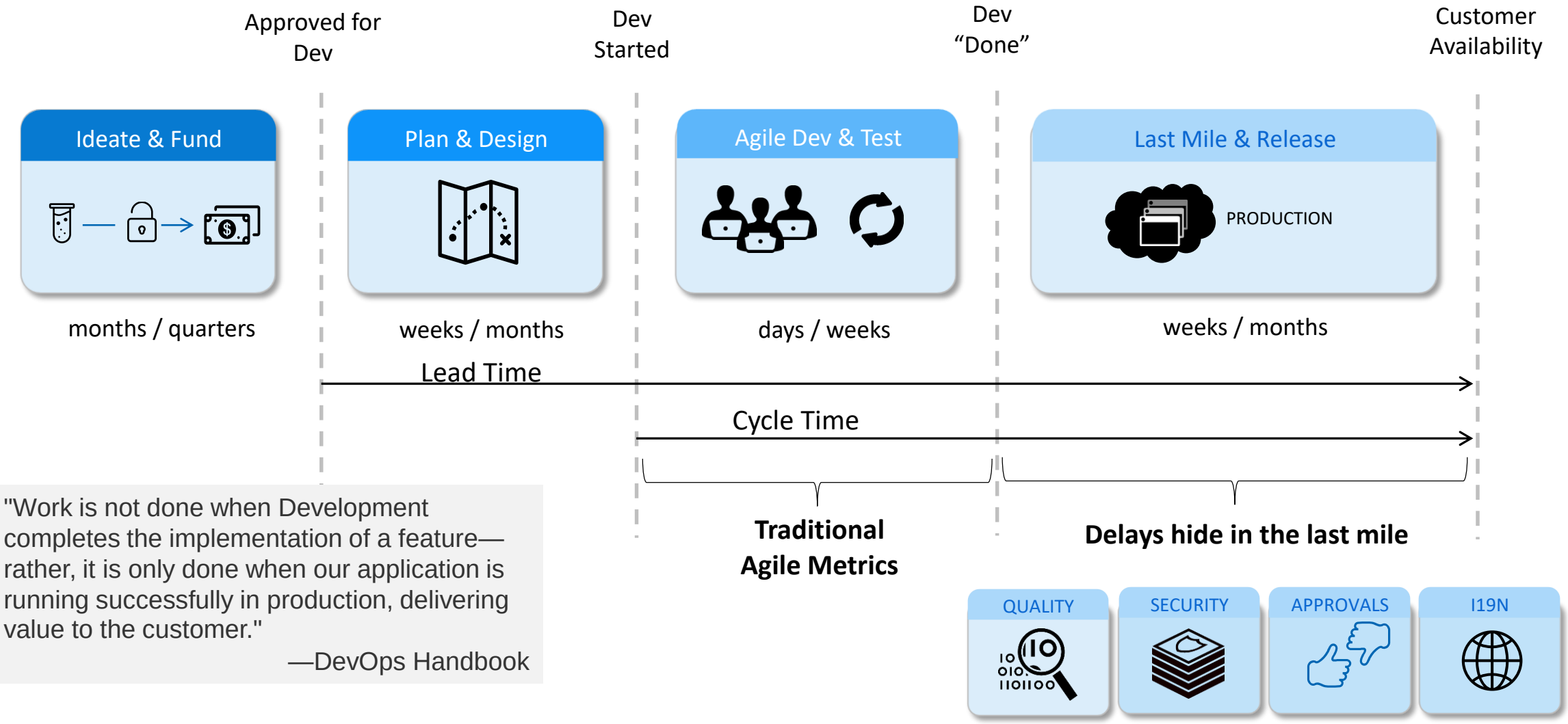
- **Shift** security, quality and governance practices **left** with Smart Gates
- Know what's where by reconciling Agile, testing and CI/CD data across **multiple tools**
- Managing decades of technology platforms from **mainframe to VMs to containers**
- Enable **self-service** and more frequent releases

Enterprise Scale and Insights

- **Align IT investments** with approved business goals and outcomes
- **Measure ROI** of DevOps transformation initiatives across the portfolio
- **Extract best practices** from leading teams and **scale** them throughout the organization
- Make **software delivery** a core competency of the firm

Copyright © 2019 HCL Technologies Limited | www.hcltechsw.com

Agile Only Optimized a Subset of the Value Stream

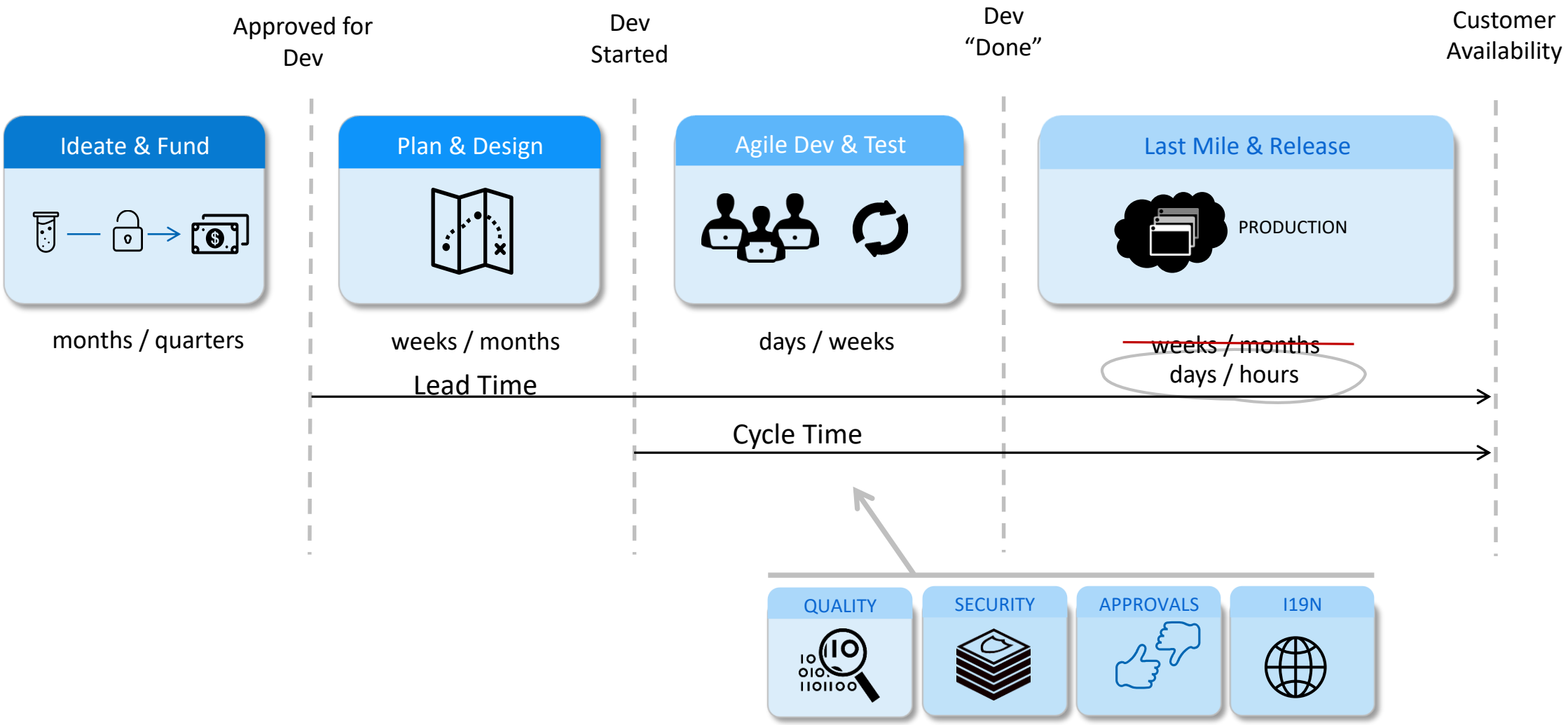


"Work is not done when Development completes the implementation of a feature—rather, it is only done when our application is running successfully in production, delivering value to the customer."

—DevOps Handbook

Copyright © 2019 HCL Technologies Limited | www.hcltechsw.com

Shifting Left Reduces the Cost of Delay, Risk and Cycle Times



Copyright © 2019 HCL Technologies Limited | www.hcltechsw.com

Visibility Provides "Levers" to Optimize Results Across the Value Stream

Prioritization decisions often have trade-offs, can you see and manage them?

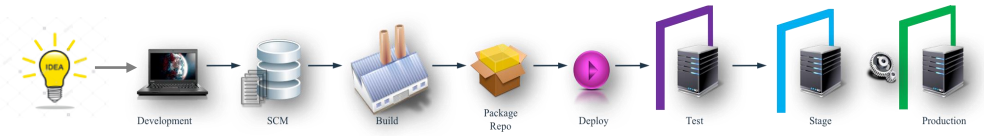
- Are we sacrificing quality or risk for speed?
- Are releases becoming more frequent and predictable?
- What are my high performing teams doing differently?
- Are we delivering more business value?

Copyright © 2019 HCL Technologies Limited | www.hcltechsw.com

HCL SOFTWARE

HCL Software provides a DevOps Suite with Flexibility

Integrated DevOps Suite



urban{code} Velocity

HCL AppScan ↔ urban{code} Deploy ↔ HCL OneTest

- **UrbanCode Velocity** provides value stream management with visibility and orchestration at the team and portfolio level
- **UrbanCode Deploy** automates application deployments of many artifacts and integrates with many CI tools
- **OneTest** provides end-to-end automation that leverages open source test libraries behind an easy to use, scriptless, user interface
- **AppScan** achieves complete security coverage of your web, cloud, mobile and open source applications

Separate tools so you can compose

urban{code} Velocity

Jira → ↔ ↔ HCL OneTest

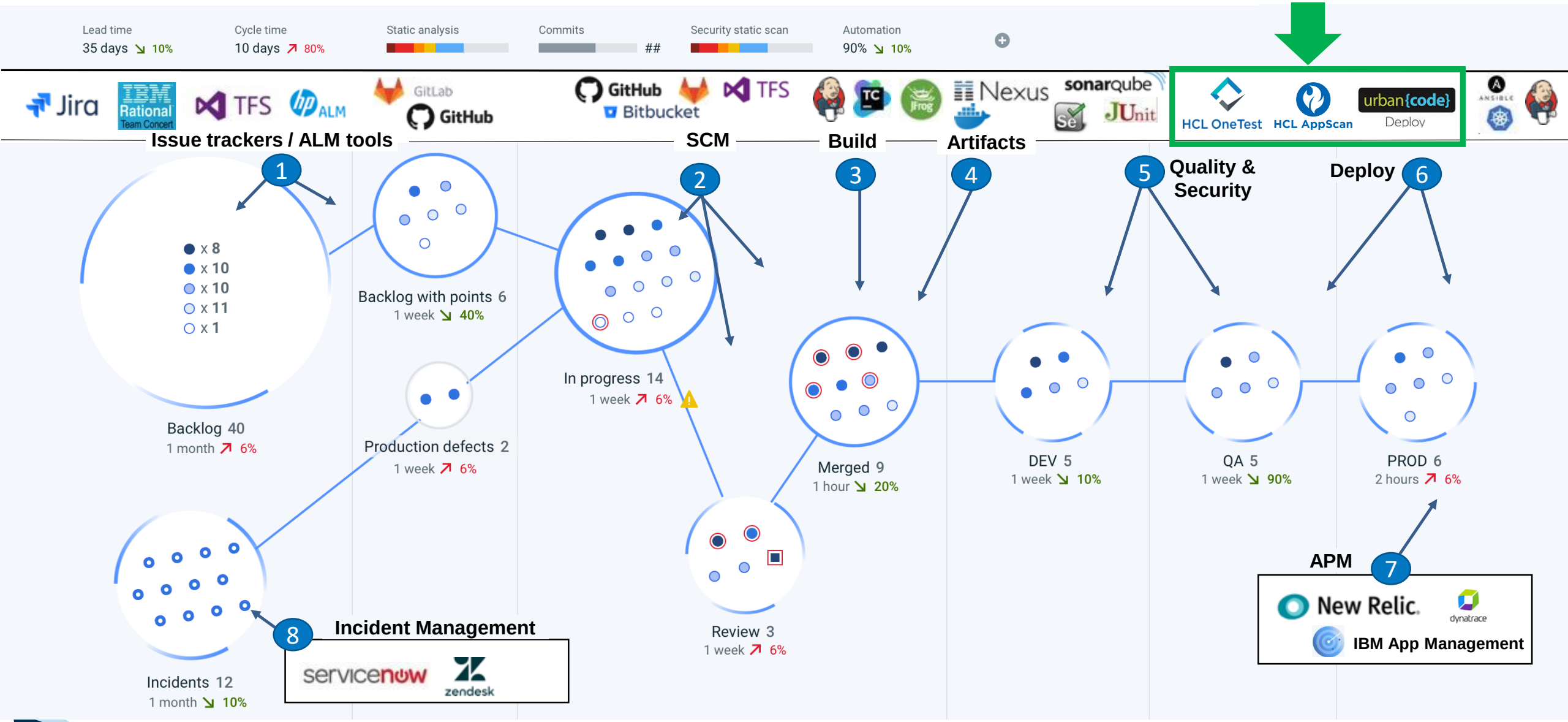
RALLY → → urban{code} Deploy ↔ HCL AppScan

∞ → HCL AppScan ↔ ↔ HCL OneTest

HCL makes open source better

Copyright © 2019 HCL Technologies Limited | www.hcltechsw.com

UrbanCode Velocity integrates all of your tools into a single, real-time value stream



Note: Integrations and Visualizations are indicative, not all are supported yet

Copyright © 2019 HCL Technologies Limited | www.hcltechsw.com

UrbanCode Deploy is Designed to Support the Complex Enterprise

Continuous Delivery for cloud-native, distributed and mainframe

01 Deploy-to On-premise, Public Cloud & Private Cloud platforms

02 Manage all hybrid application components including traditional apps and full stack containers

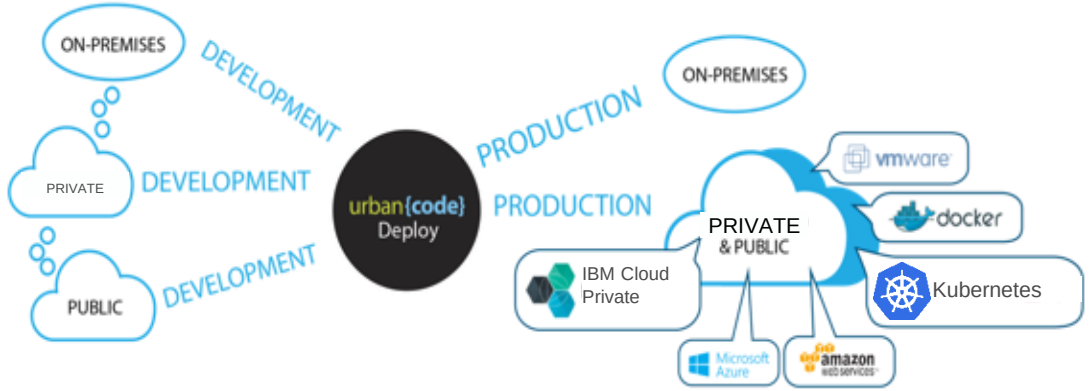
03 Development to Test to Production Environments

04 Full governance for tracking and control

05 Lift & Shift automation including moving legacy WAS applications and configuration to Cloud

06 Kubernetes container orchestration for cloud native microservices

Deploy hybrid applications with UCD



Deploy Anything; From Anywhere, To Anywhere

Copyright © 2019 HCL Technologies Limited | www.hcltechsw.com

OneTest provides a suite of Test Automation capabilities

HCL

HCL OneTest

FUNCTIONAL TESTING

Testing of applications through desktop UIs, terminals, browsers and mobile interfaces.

HCL OneTest UI

PERFORMANCE TESTING

Create realistic workloads on your systems, track SLAs, and analyse the root causes of any issues.

HCL OneTest Performance

API TESTING

Trigger and validate a system's APIs across a range of network protocols and message formats.

HCL OneTest API

TEST DATA

Generate new, synthetic data sets for your testing environments to maximize coverage.

HCL OneTest Data

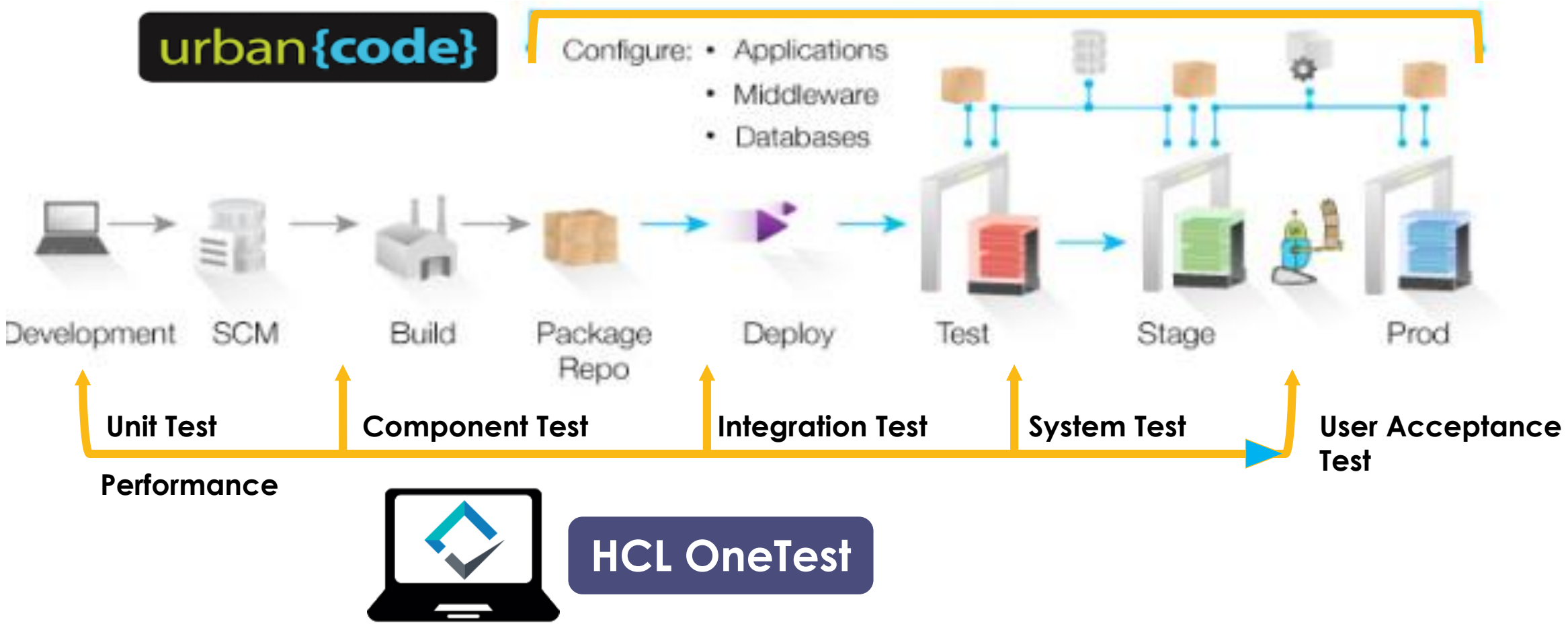
SERVICE VIRTUALIZATION

Virtualize missing components of the system to enable faster development and testing.

HCL OneTest Virtualization

Copyright © 2019 HCL Technologies Limited | www.hcltechsw.com

UrbanCode and OneTest enable Fast Delivery with High Quality



Copyright © 2019 HCL Technologies Limited | www.hcltechsw.com

AppScan helps product teams proactively tackle application security

Security

Developers

Application Security Management

Use a single console for managing application risk, test results, reporting and policies

Dynamic
Identify vulnerabilities in running applications

Mobile
Interactive testing of a Mobile binary

Static
Trace Analysis of Application code

Open Source
Identify Vulnerabilities introduced by open source packages

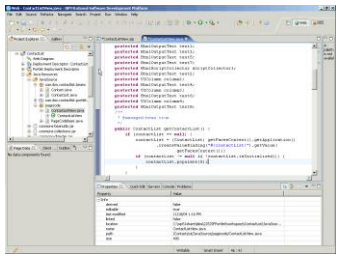
eclipse · IntelliJ IDEA · Visual Studio · Jenkins · Bamboo · Maven · urban{code}

Copyright © 2019 HCL Technologies Limited | www.hcltechsw.com

Integrated Application Security with your Continuous Delivery Pipeline

Value Stream Management & Deployment Automation with urban{code}

CODE → BUILD → QA → PRODUCTION



IDE Static Analysis

Automated Static Analysis

Automated Dynamic Analysis
Automated Mobile Analysis

Automated Dynamic Analysis

Application Security Management

Static / Open Source Analysis

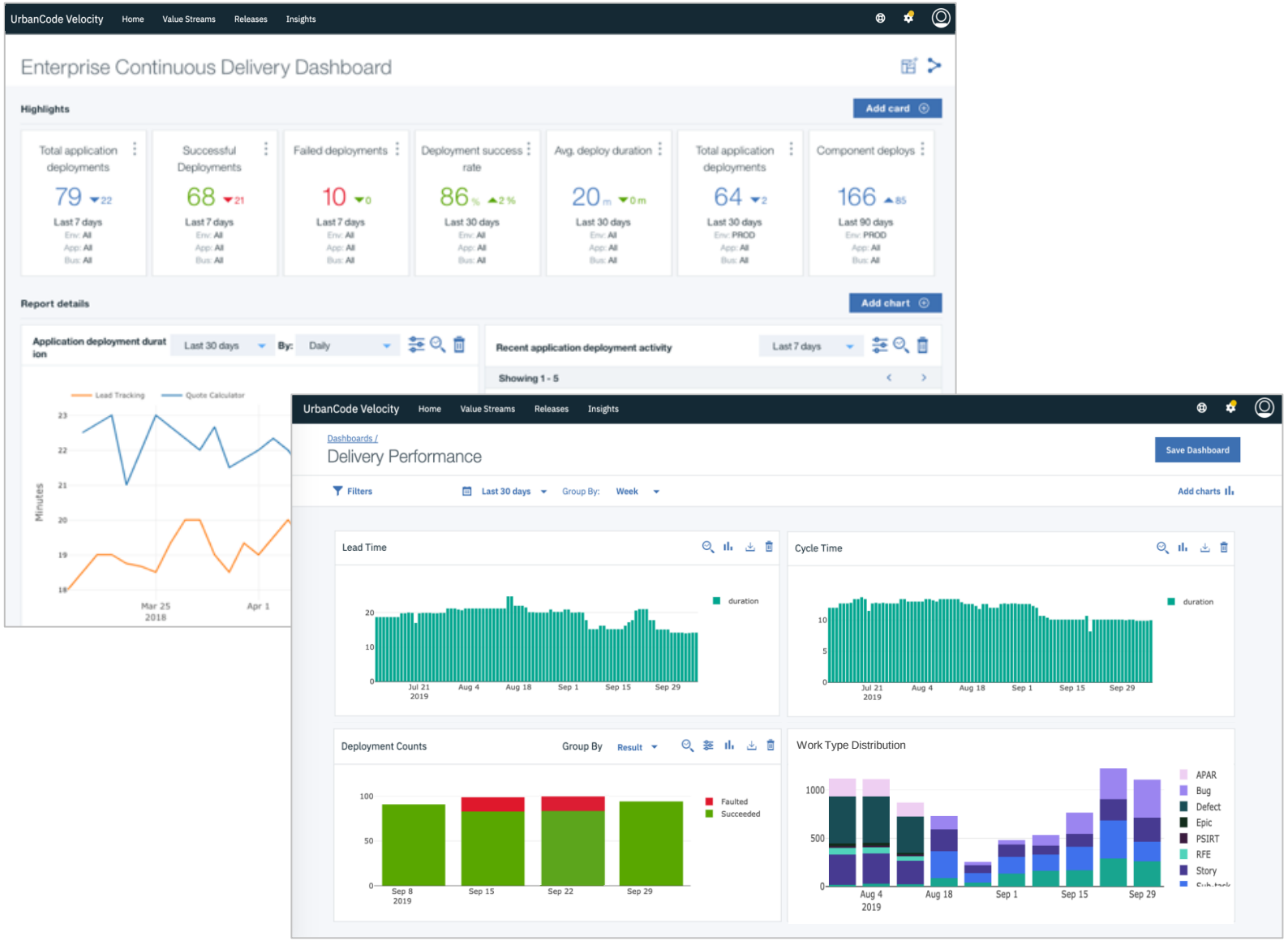
Dynamic / Mobile Analysis

Copyright © 2019 HCL Technologies Limited | www.hcltechsw.com

HCL SOFTWARE

DevOps Data is Aggregated and Rolled up For the Team and Portfolio

- **Delivery Flow**
  - Lead and Cycle Times
  - Deployment Frequency
  - Failure Rates
  - Throughput
  - Cost of Delay
- **Value**
  - Work Item Distribution
  - Customer Satisfaction
  - Business Objectives
- **Risk**
  - Quality and Security Test Results
  - Technical Debt
- **Custom Reports**
  - Audit reports with traceability across work item management, CI/CD, SCM and more

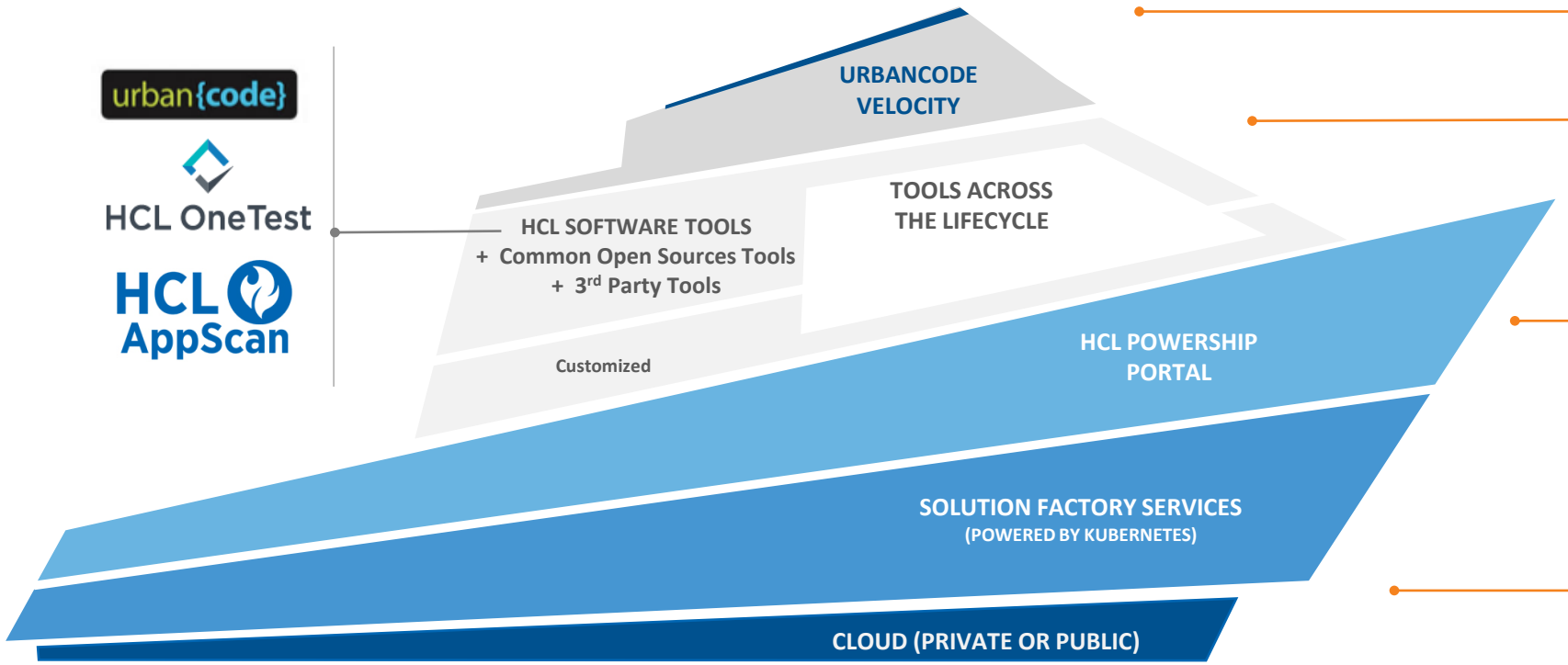


Copyright © 2019 HCL Technologies Limited | www.hcltechsw.com

HCL SOFTWARE

Introducing POWERSHIP, an Integrated DevSecOps Platform

IN TECH PREVIEW!



VISUALIZE with HCL UCV

LEVERAGE INTEGRATED TOOLCHAINS
incl. HCL OneTest, AppScan, UrbanCode Deploy and common OSS & 3rd party tools

SIMPLIFY PIPELINE DEPLOYMENT AND MANAGEMENT
with our Self Service portal, powered by HCL Solution Factory services & Kubernates

DEPLOYMENT SUPPORT FLEXIBILITY
on Public or Private Cloud

KEY SCENARIOS

START-UP	Rapid install - Easy upgrade Reduced admin cost.
SCALE-UP	Rapidly on-board new teams and applications.

Copyright © 2019 HCL Technologies Limited | www.hcltechsw.com

HCL Software DevOps Enables Action and Improved Results

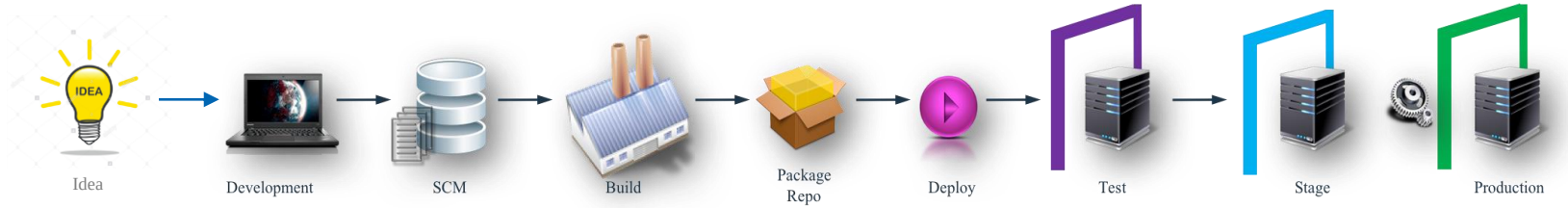
Using a data-driven approach, teams can make their software delivery practices "smarter"

Align planned work to business priorities

Stop bad builds based on metrics from unit, integration & performance tests

Orchestrate deployments across many services and tools

Monitor Changes and Evaluate Results to Create Feedback Loops



Identify problematic code that needs refactored based on operational feedback

Spot and eliminate Process Bottlenecks and Delays

Identify quality and security risks early with visibility into results across many tools

Inform and automate "smart gate" risk assessment and leverage change registration

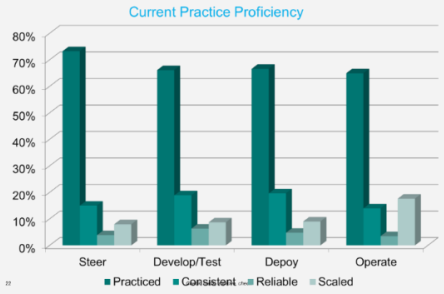
Generate one-click audit reports with full traceability

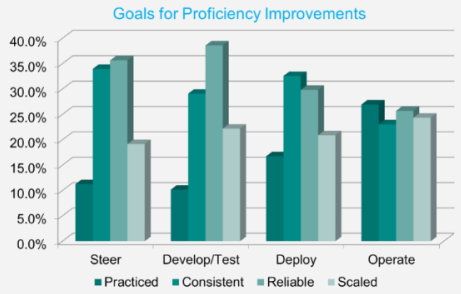
Copyright © 2019 HCL Technologies Limited | www.hcltechsw.com

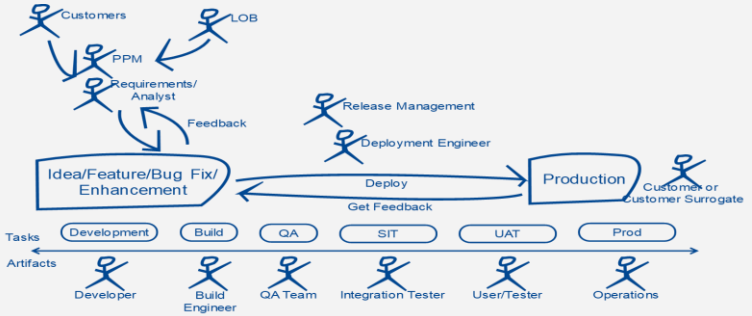
HCL SOFTWARE

Where are your opportunities?

- Integrate, collaborate, and optimize across the software delivery value stream
- Accelerate delivery
- Balance speed, stability & governance
- Improve feedbacks loop







DevOps assessment and workshops

Copyright © 2019 HCL Technologies Limited | www.hcltechsw.com

HCL Software Technical Advisor Offerings

Our 1-2-3 services delivery model provides a customized approach for each client to address their specific needs. We provide services offerings for each of these stages in various solution areas.

1 ASSESS

Assessment and Planning Workshop (1-3 days)

- Understand your strategy, goals and constraints and provide recommendations
- Understand business drivers, current integration capabilities and pain points. Identify and prioritize candidate projects.

2 ADOPT

Quick Start (2 weeks)

- Goal is to enable your core team to adopt Rational tools successfully
- Typical activities include product installation, training, and initial configuration

Quick Win Pilot (~90 days)

- Implement a set of capabilities by taking a project team through the full solution life cycle
- Typically results in Rational solutions successfully servicing one or more applications into production environments.

3 SCALE

Enterprise Adoption (3+ mths)

- Execute the enterprise deployment plan to implement the solution across the organization
- Typical activities include creating centers of excellence, project mentoring, and train-the-trainer workshops

Custom Services

- Provide tailored consulting and development services as needed
- Typical activities include integration development, train-the-trainer workshops, and architectural guidance

ONGOING MANAGEMENT AND SUPPORT

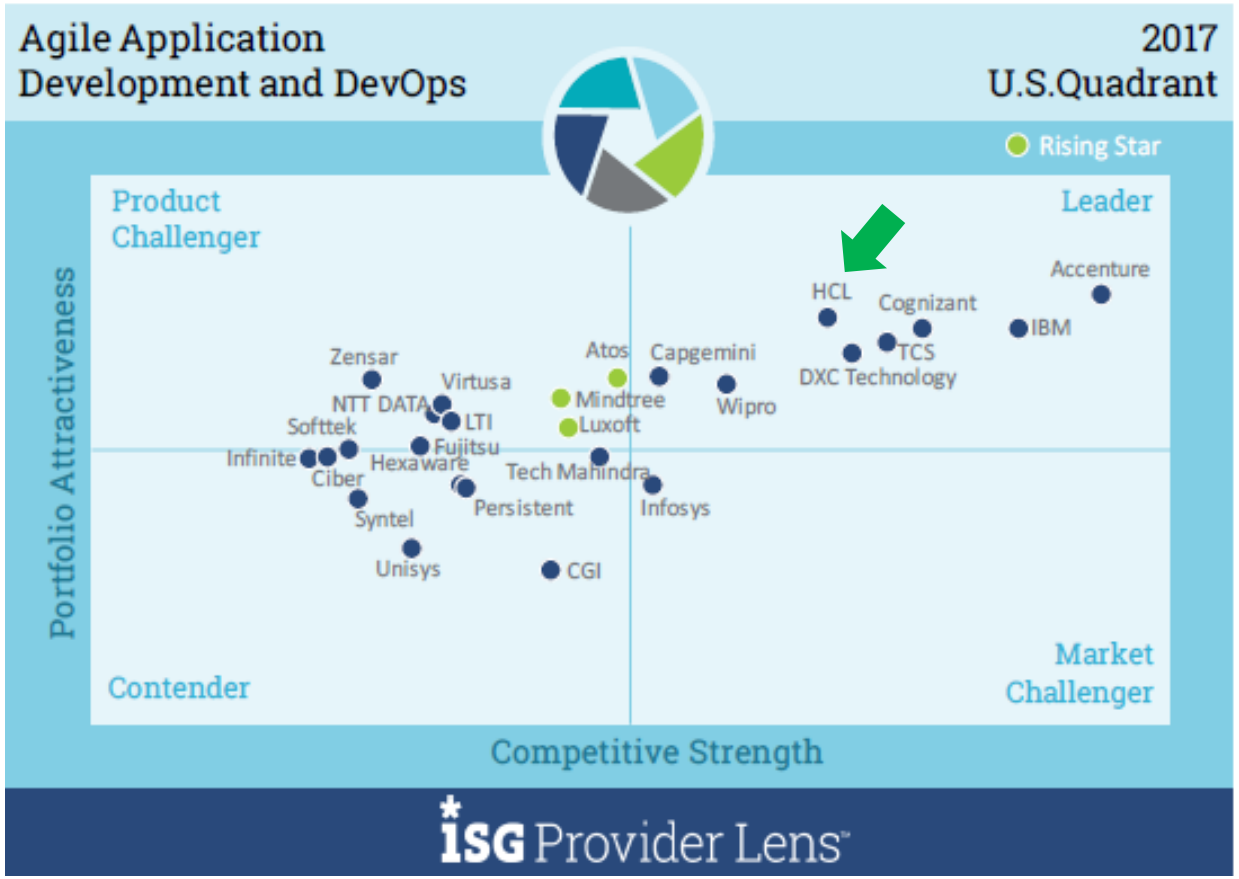
Managed Services

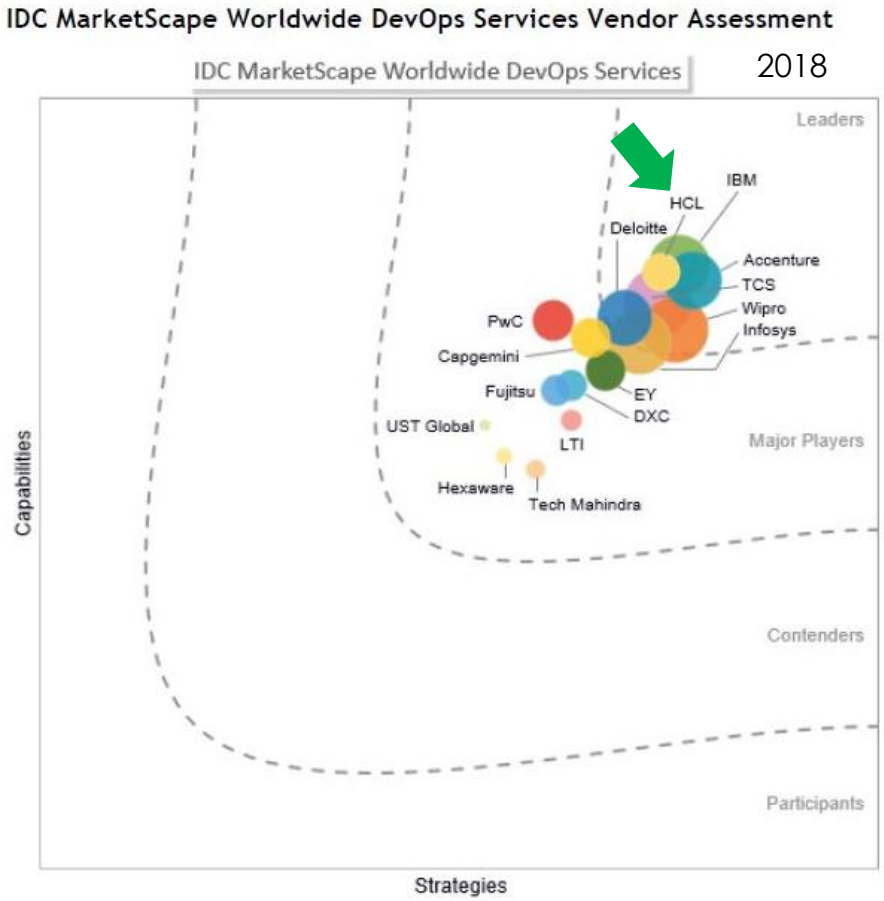
- Transition to for Proactive, Preventative and Personalized Services

**Average timeframes noted; timeframe may vary by client needs and services offering selected*

Copyright © 2019 HCL Technologies Limited | www.hcltechsw.com

Analysts Agree: HCL is A Leader in DevOps





Copyright © 2019 HCL Technologies Limited | www.hcltechsw.com

Why do customers choose HCL Software for DevOps?

BEST IN BREED

The industries top analysts consistently rank HCL Software DevOps products as leaders in their space.

TRACK RECORD

The HCL Software Team has helped Fortune 500 companies improve Continuous Delivery, Quality and Security Practices for over 20 years

ENTERPRISE PROVEN

Hundreds of the world's top companies run their businesses HCL Software products.

AUDIT PROOF

Enforce corporate governance and compliance requirements including out of the box audit reports while without sacrificing speed by leveraging self-service and automation.

Copyright © 2019 HCL Technologies Limited | www.hcltechsw.com

HCL

Relationship™

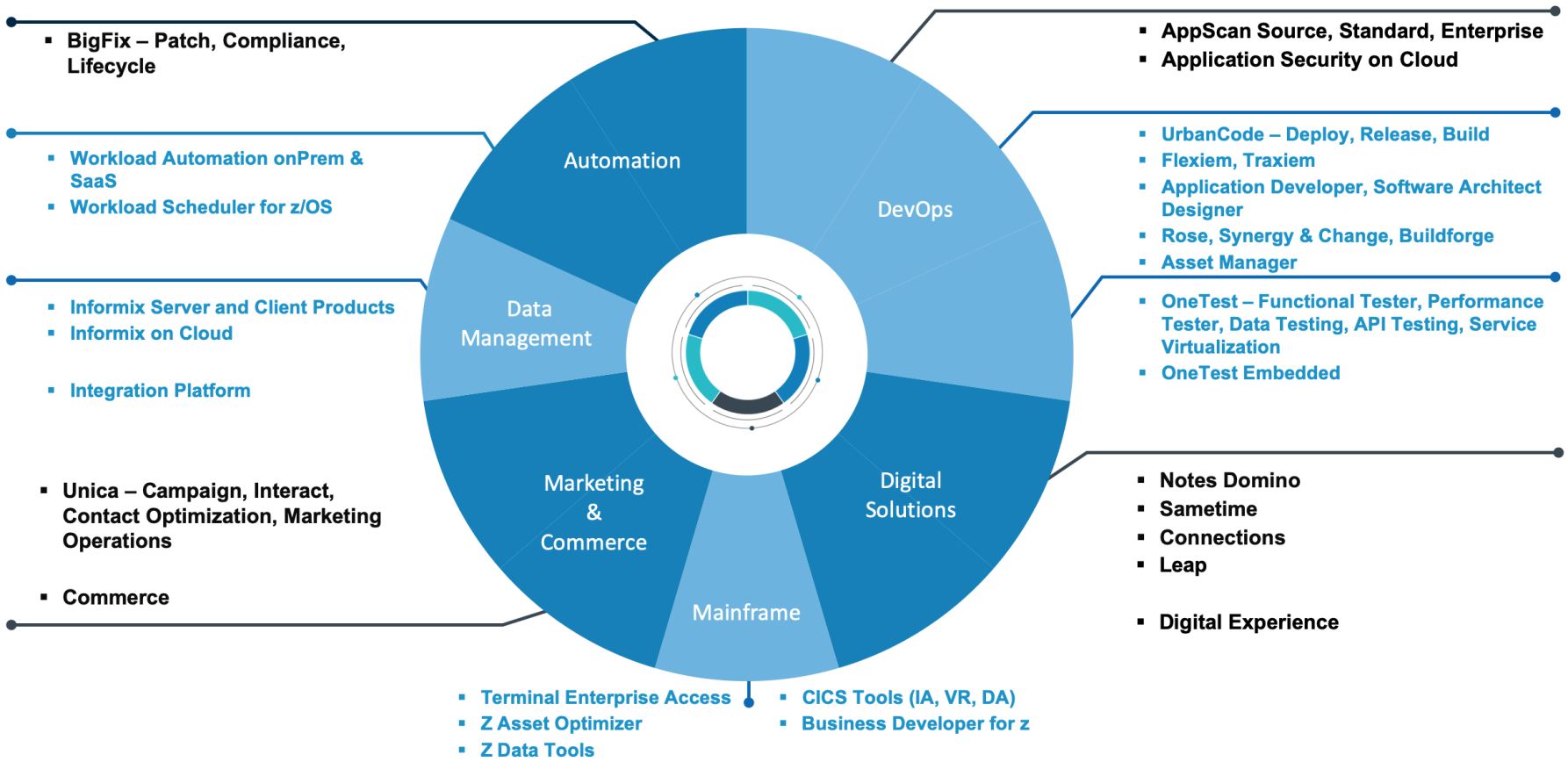
BEYOND THE CONTRACT

$8.4 BILLION ENTERPRISE | 132,000 IDEAPRENEURS | 44 COUNTRIES

WATCH THE FILM

HCL Software Overview

- Total 3,200+ workforce
- Presence in 31 countries
- 11 Product Development Labs
- 55% workforce growth
- 12 Software Product families
- FY20 revenue 1B+



Copyright © 2019 HCL Technologies Limited | www.hcltechsw.com