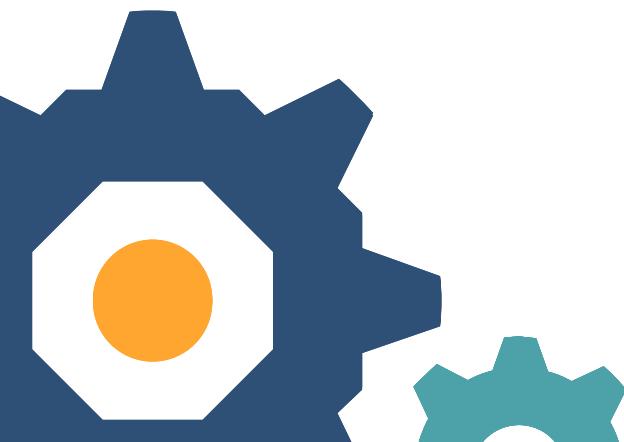




“Digital Skills” – Accelerating Digital Transformation

Dheeraj Nayal
APAC – Business Head
DevOps Institute™



About Me



APAC – Business Head at DevOps Institute,
Intrapreneur, Speaker, DevOpsologist, Evangelist
Emerging Tech Learning Expert.

Wanna know more ?
Find me on Linkedin



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About DevOps Institute

The DevOps Institute (DOI) is the continuous learning community for emerging DevOps practices.

DevOps Institute's vision is to facilitate a community where learning is a lifestyle and members have access to the most innovative, inspirational and transformational DevOps content, courses and certifications. We strive to provide content that inspires discussion, collaboration and transformation.



The Digital Transformation Is Real



- ***Every organization is now a digital technology business***
- Software/Applications drives the world (literally)
- Your biggest competitor is a disruptive start-up
- Attention spans have been reduced to 1 min videos and 140 characters
- Migration to the cloud is accelerating
- Information is available at the speed of your connection

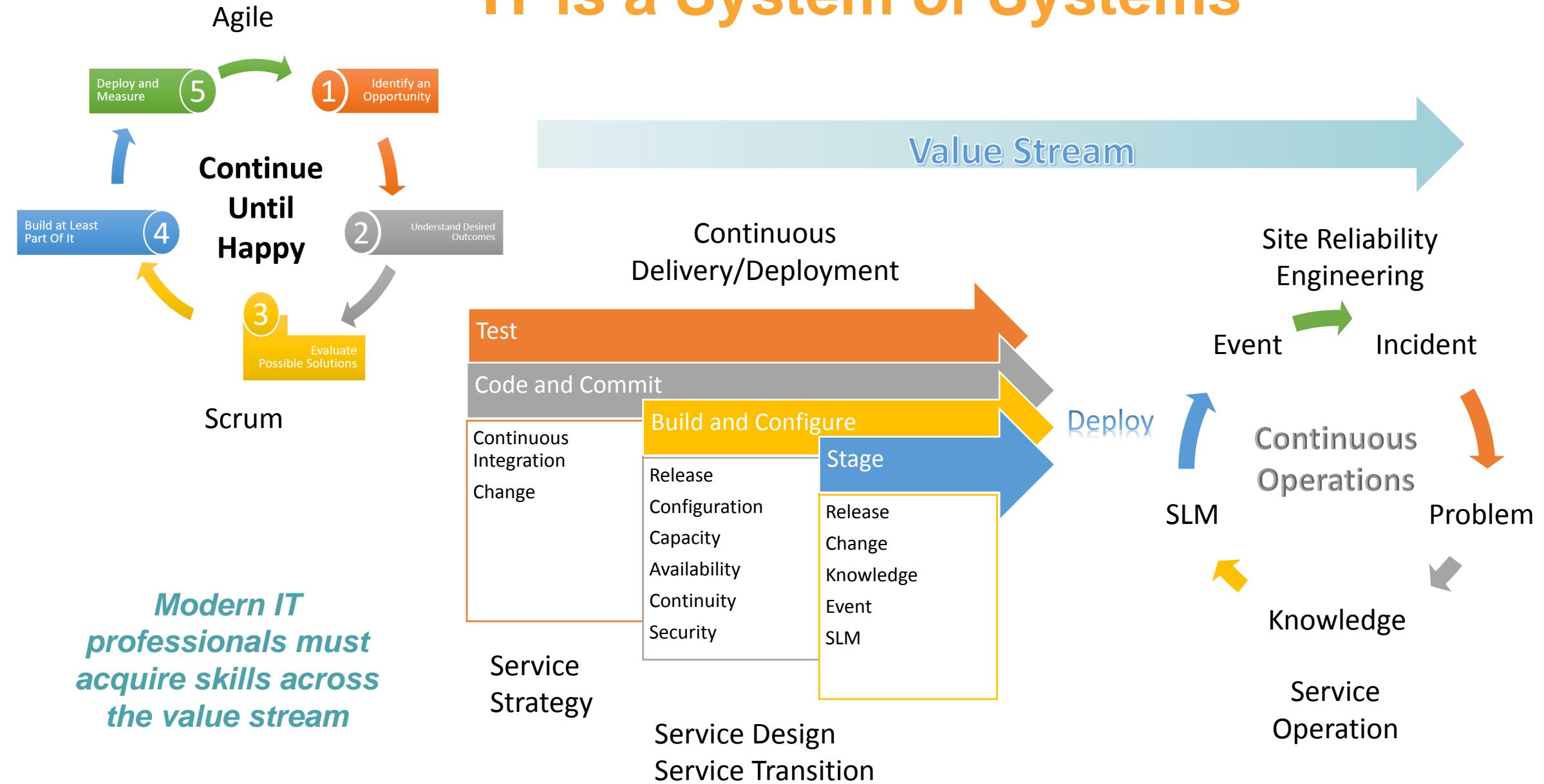
Moore's Law: Rates of improvement will increase exponentially over time.

How does that affect IT systems?

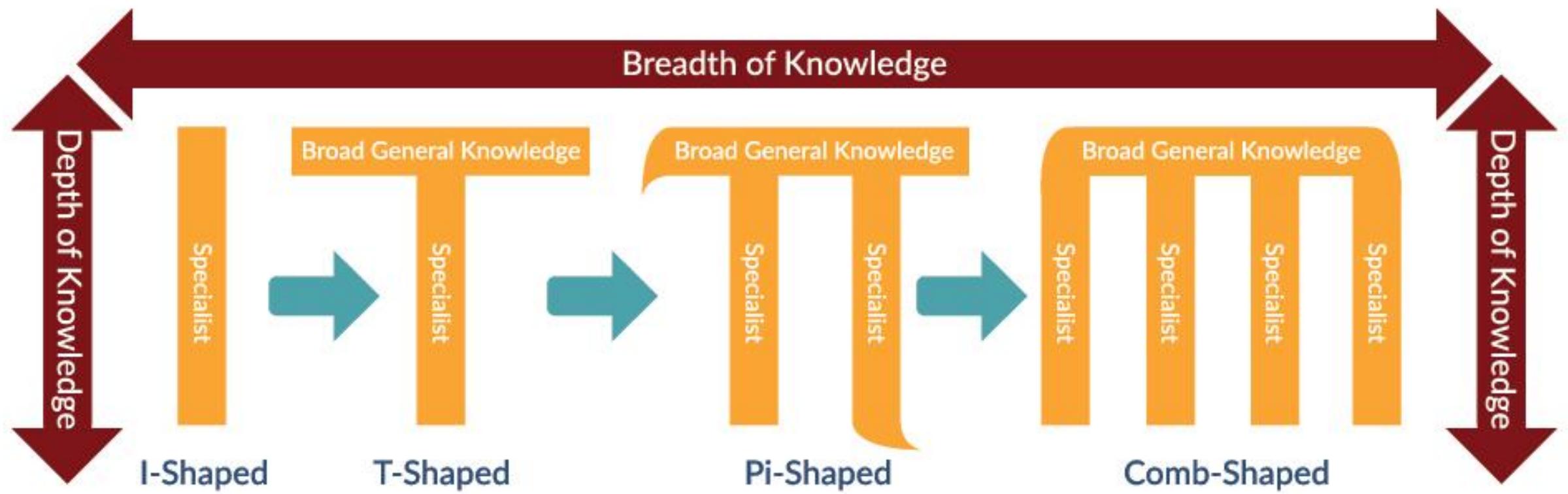


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IT is a System of Systems



Systems Thinking Requires Multi-Dimensional Professionals



Breadth of Knowledge is as Important as Depth

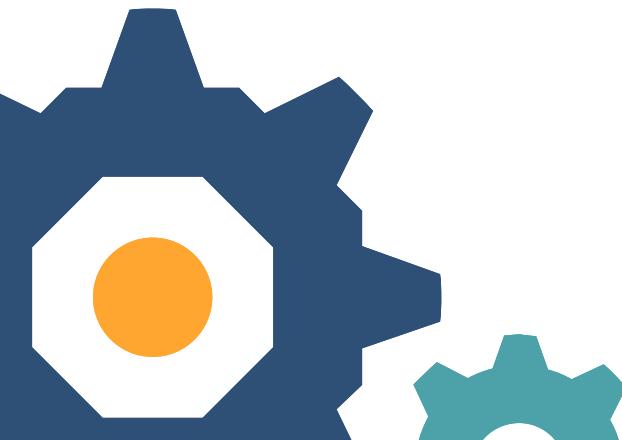
- Business strategies
- Principles, processes and practices
- Technology and automation
- Cultural considerations



Skills modernization requires a holistic approach that encourages cross-functionality and higher level thinking.



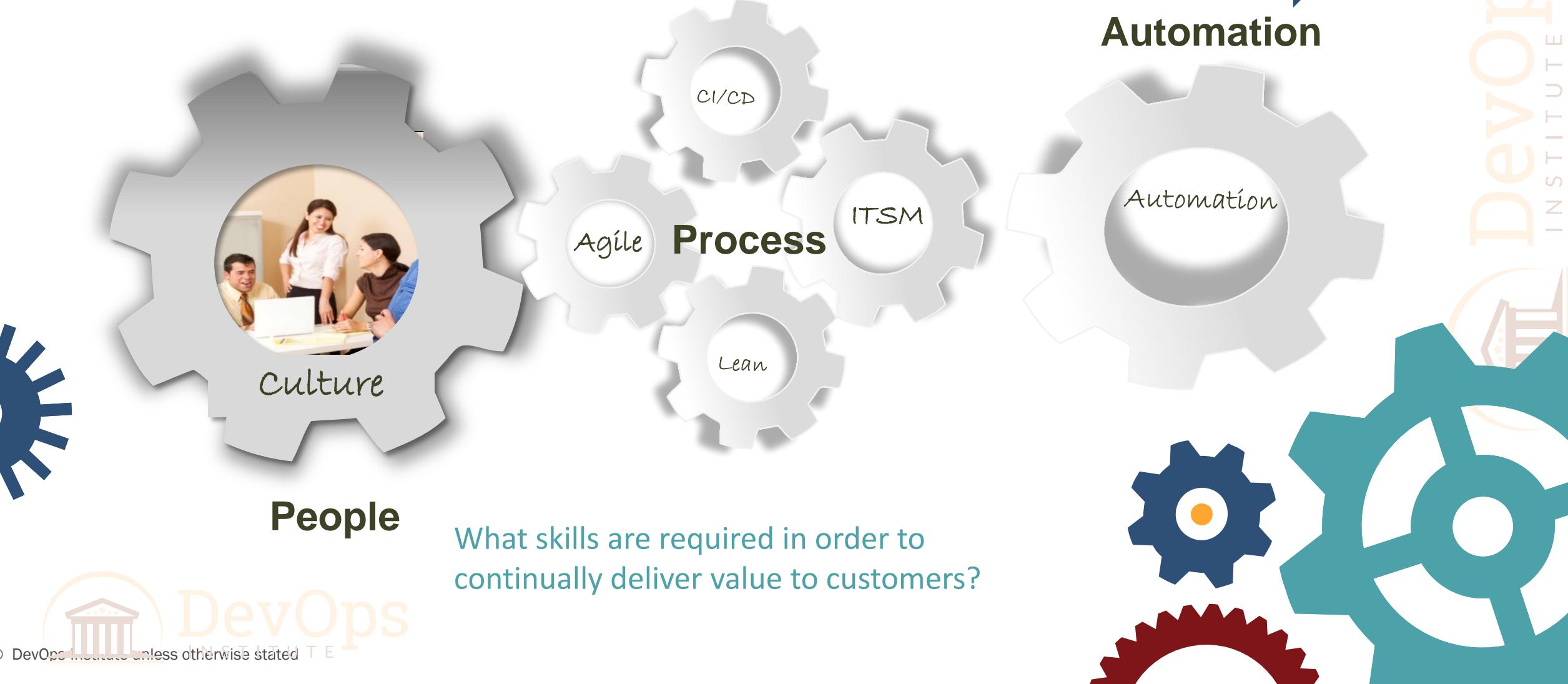
Skills for the Digital Age



Study Your Value Stream

Value Stream

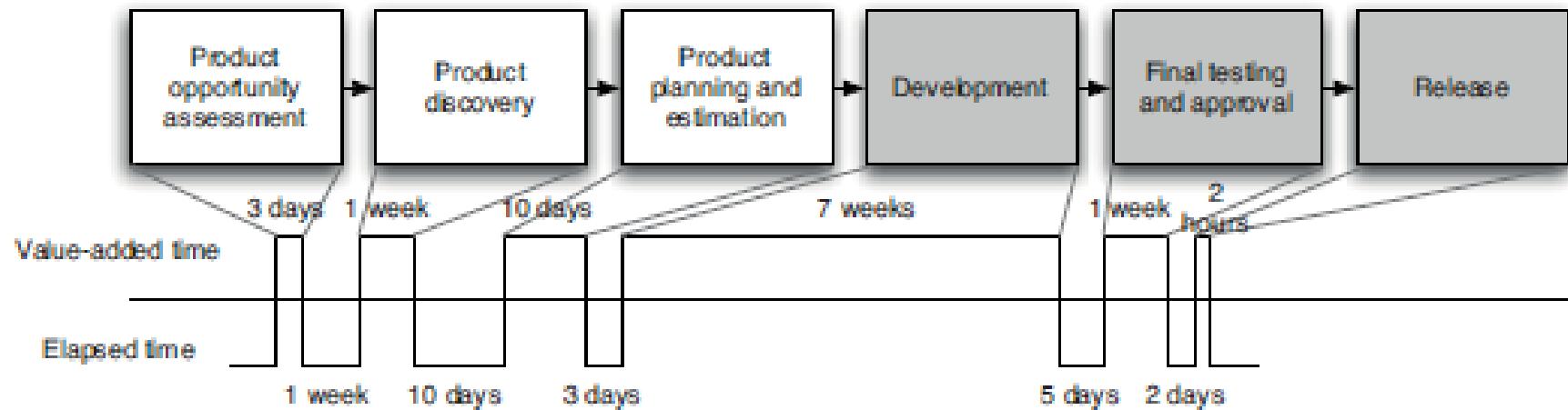
Automation



Value Stream Mapping (VSM)

“Every successful DevOps transformation starts with a Value Stream”

VSM is a tool that is used to evaluate processes to identify bottlenecks, waste, and ultimately improvement opportunities



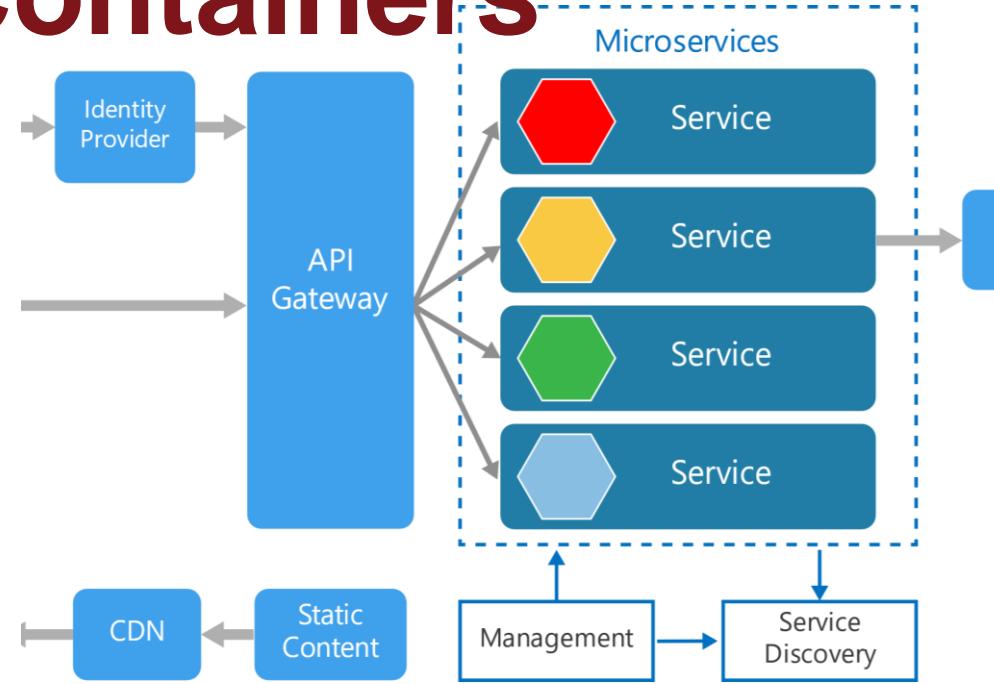
Source:
Jez Humble -Continuous Delivery:
Reliable Software Releases through
Build, Test, and Deployment
Automation



Microservices and Containers

A microservices architecture consists of a collection of small, autonomous services.

Each service is self-contained and should implement a single business capability.



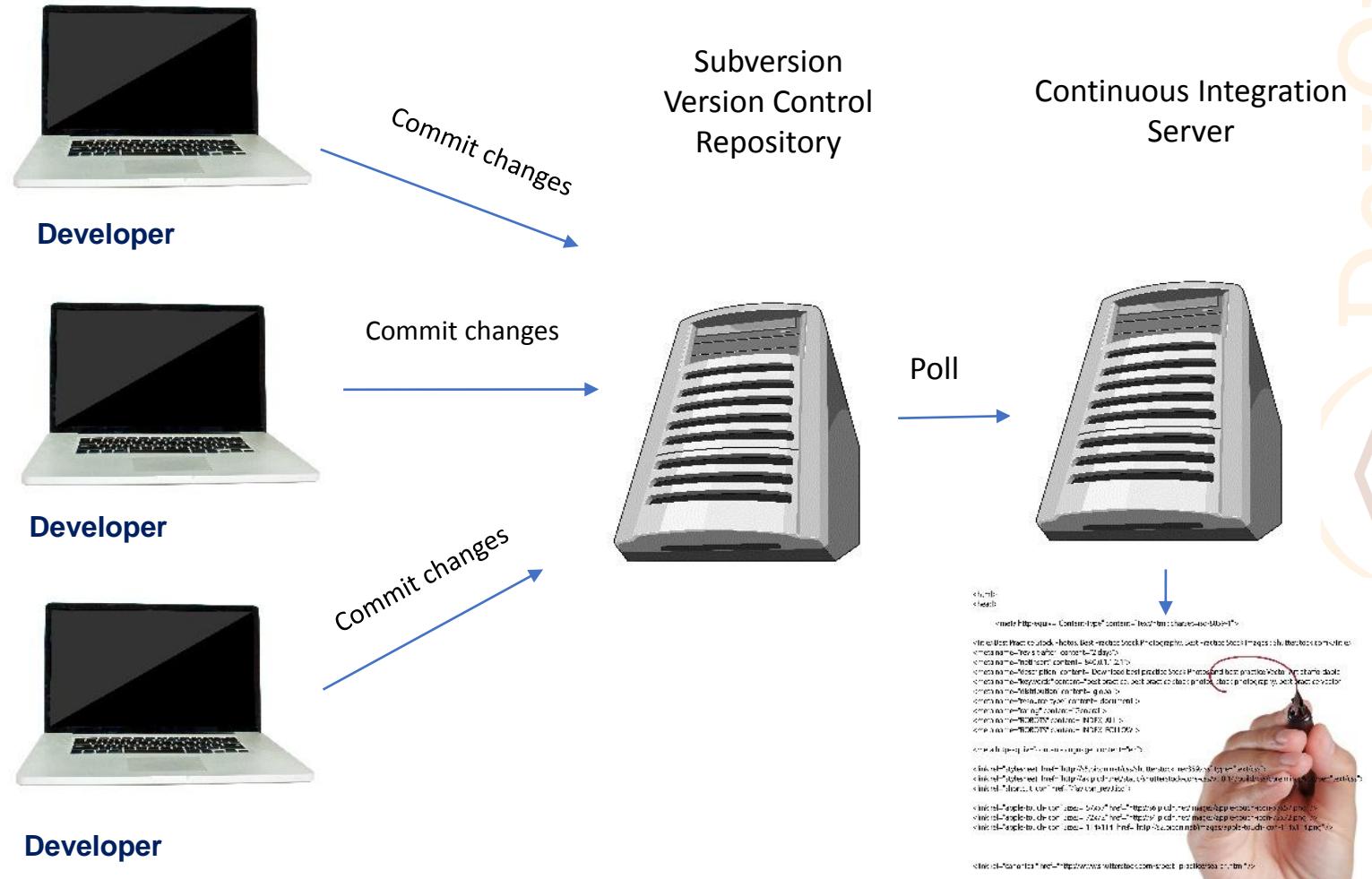
<https://docs.microsoft.com/en-us/azure/architecture/guide/architecture-styles/microservices>

A container consists of an entire runtime environment: an application, all of its dependencies, libraries and other binaries and configuration files needed to run it, bundled into one package



Continuous Integration

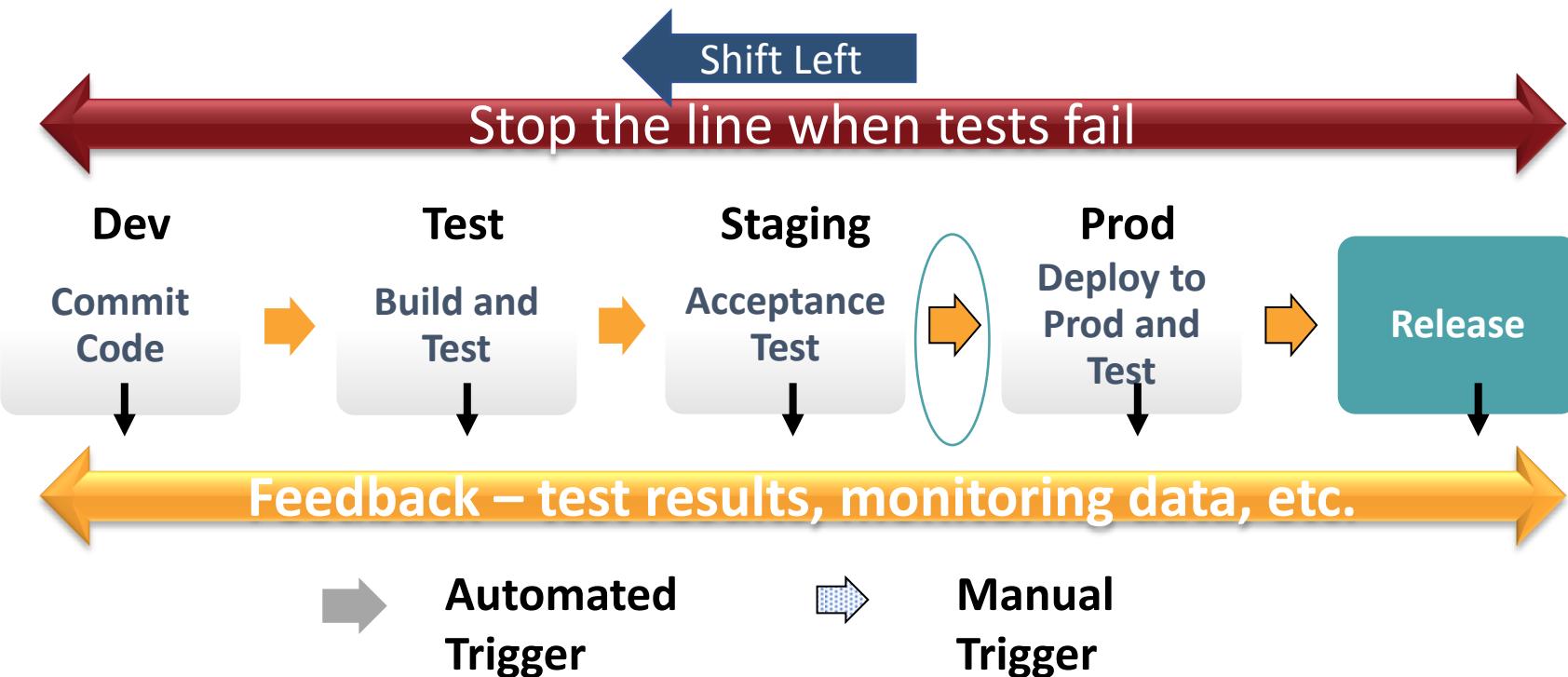
Continuous integration is a **DevOps** software development practice where developers regularly merge their code changes into a central repository, after which automated builds and tests are run.



Continuous Testing & Continuous Delivery

Continuous testing is the process of executing automated tests as part of the deployment pipeline to obtain immediate feedback on the business risks

Continuous delivery is a methodology that focuses on making sure software is always in a releasable state throughout its lifecycle.



DevSecOps

- DevSecOps implements security to be full integrated into the business by:
 - Making heavy use of **automation**
 - Moving **security earlier** and more often
 - Supporting organization **transformation**
- DevSecOps supports security as code with the intent of making security and compliance consumable as a service
- Are you following DevSecOps Days ? Next edition is in Singapore on 24th July for APJ region



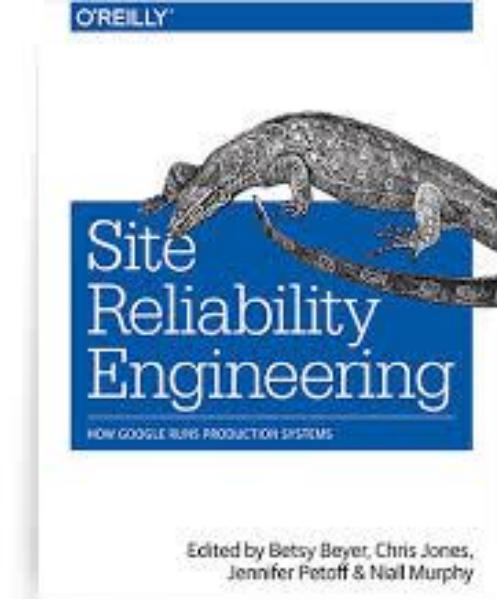
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Site Reliability Engineering

An innovative approach to Operations as an engineering practice.

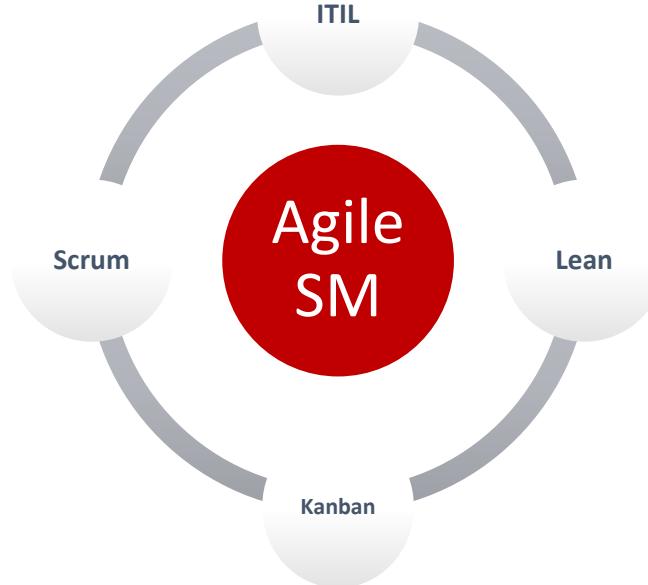
- Uses software engineers to design operational functions and automated systems
- Is responsible for availability, latency, performance, efficiency, change management, monitoring, emergency response, and capacity planning
- Integrates ITSM processes and practices



Is SRE actually Continuous Operations?



Agile Service Management



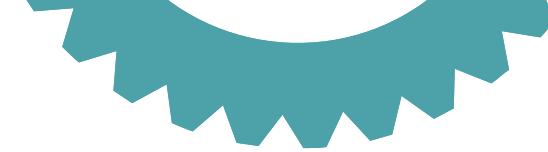
Agile Service Management (Agile SM) ensures that ITSM processes reflect Agile values and are designed with “just enough” control and structure in order to effectively and efficiently deliver services that facilitate customer outcomes when and how they are needed.

Agile Service Management Guide

Agile Service Management does not reinvent ITSM – it modernizes the approach.



Groom Your Cultural Skills



*You can't directly change culture.
But you can change behavior, and behavior becomes culture."*
Lloyd Taylor

Westrum

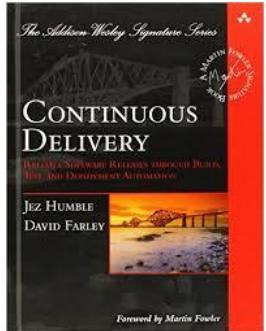
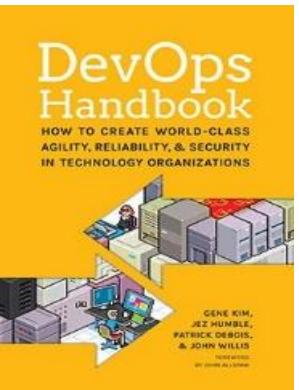
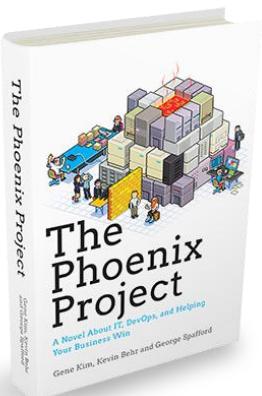
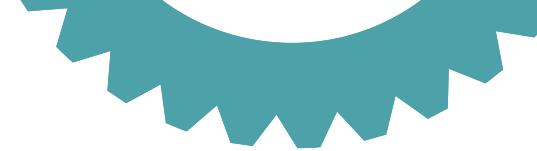


LaLoux

Transformational Leadership

Squads, Tribes, Guilds, Chapters

Optimize Best Practices



Become Familiar with Key Tools and Tool Categories



splunk > **PAGERDUTY**



A N S I B L E

kubernetes

and many more...

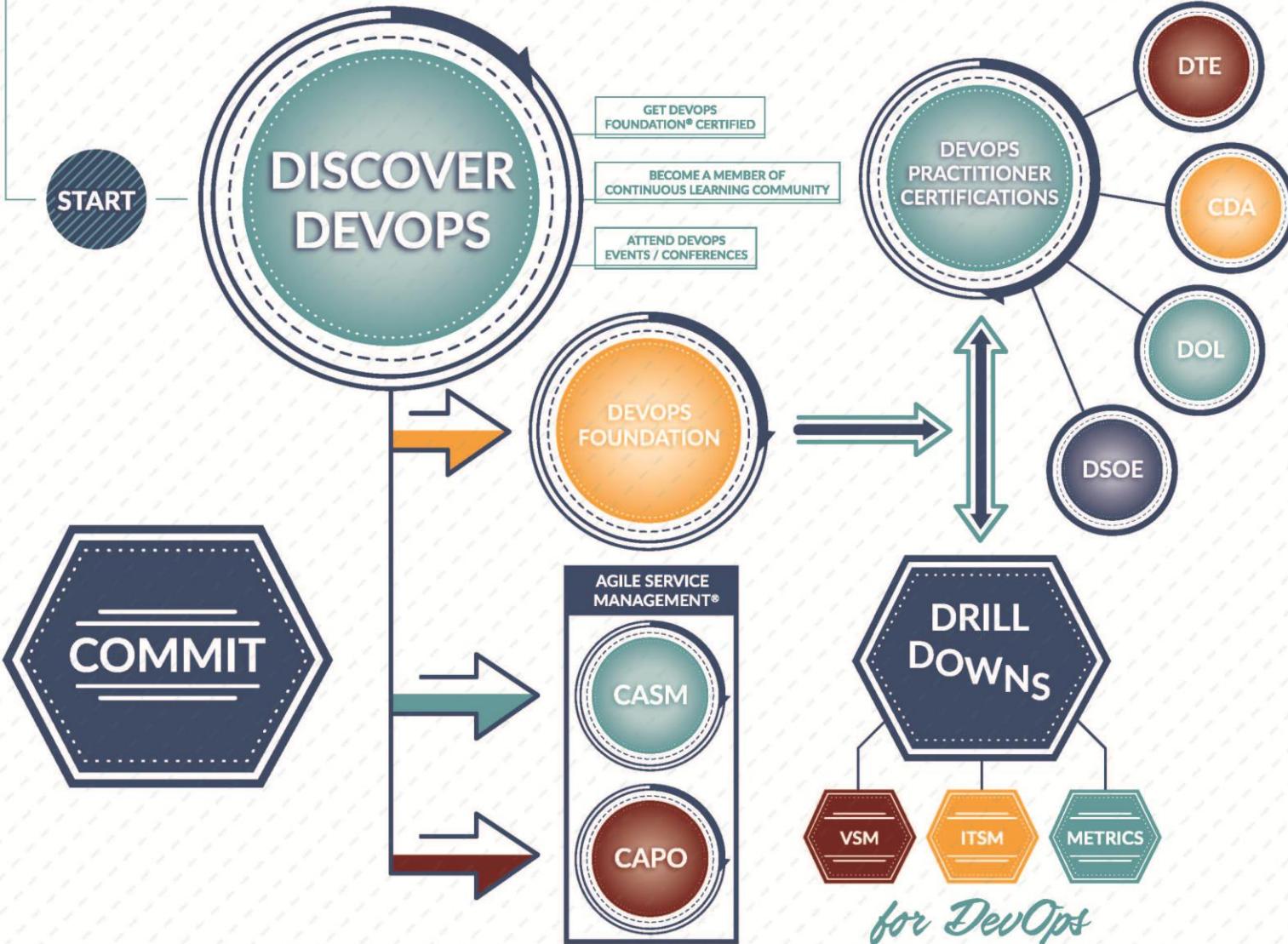
Become a Continuous Learner

- True to its core values, DevOps is emerging through a shared and collective body of knowledge (CBok) including
 - Publications
 - Conferences
 - Videos and webinars
 - Blogs and articles
 - Case studies
 - Subject matter expertise



The DevOps Institute actively researches and influences emerging DevOps practices so as to create meaningful certifications and content.

DEVOPS CERTIFICATION MODEL *At-A-Glance*



Must Have IT Skills: DevOps Knowledge

The DOI Difference: Why Certifications Accredited by the DevOps Institute Matter?

We are the only Continuous Learning Community that offers 7 DevOps competency-based certification courses and 3 non-certification courses through our global network of Registered Education Partners. We have more than 160 Hours of Learning Materials (the most in the market) and a dedicated full-time staff 100% focused on the advancement of DevOps learning.

Our curriculum is based on research and the most up-to-date and relevant resources. Simply put, our role-based development approach focuses on the most modern competencies required by organizations adopting DevOps—these are actionable and hireable skills.

Certification Courses

DevOps Foundation®
DevOps Test Engineering (DTE)®
DevOps Leader (DOL)™
Continuous Delivery Architecture (CDA)™
DevSecOps Engineering (DSOE)™
Certified Agile Service Manager (CASM)®
Certified Agile Process Owner (CAPO)®

Non-Certification Courses

Value Stream Mapping for DevOps™
ITSM for DevOps™
Metrics for DevOps™



The DevOps Institute is the Continuous Learning Community around emerging DevOps practices. Working with recognized thought leaders, the DevOps Institute is setting the quality standard for DevOps competency-based education and qualifications.

DevOpsInstitute.com

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Continuous Learning Community



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Thank You

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