

# State of ITSM *and...* 2021



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**Donna Knapp**

**@ITSM\_Donna**

# Welcome!

## ITSM Academy

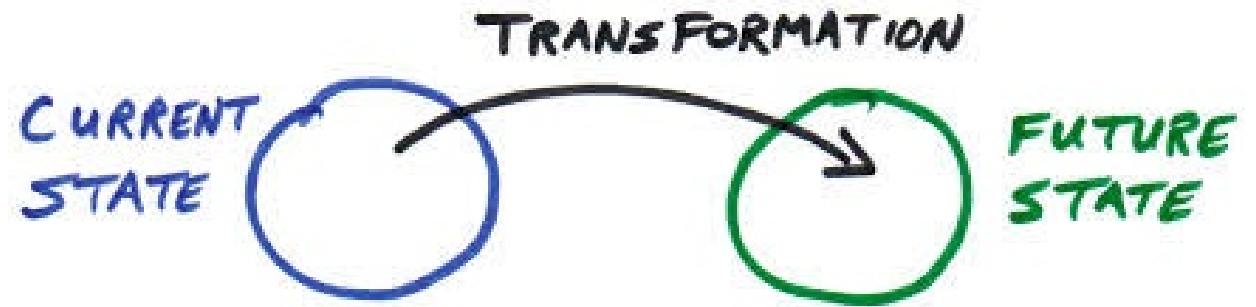
- Full service provider of IT Service Management (ITSM) education and advice
- Accredited and sustainable education and training
  - ✓ ITIL®
  - ✓ DevOps
  - ✓ Employee Experience
  - ✓ Process Design (CPDE)
  - ✓ Lean/Value Stream Mapping
  - ✓ Agile Service Management

## Donna Knapp

- Author
- Curriculum Development Manager
- Certified Process Design Engineer
- ITIL Expert, ITIL Managing Professional, ITIL Strategic Leader
- DevOps Foundation, DOL, CDA, DSOE, DTE
- Certified Scrum Master
- Certified Agile Process Owner
- Certified Agile Service Manager
- VeriSM Foundation
- Certified in Knowledge-Centered Support (KCS) Principles
- Certified ISO/IEC 2000 Consultant/Manager

# Transformations are Underway

- Digital transformation
- Technology transformation
- Agile transformation
- DevOps transformation
- Service management transformation
- Cultural transformation



***“A process of profound and radical change that orients an organization in a new direction and takes it to an entirely different level of effectiveness.”***

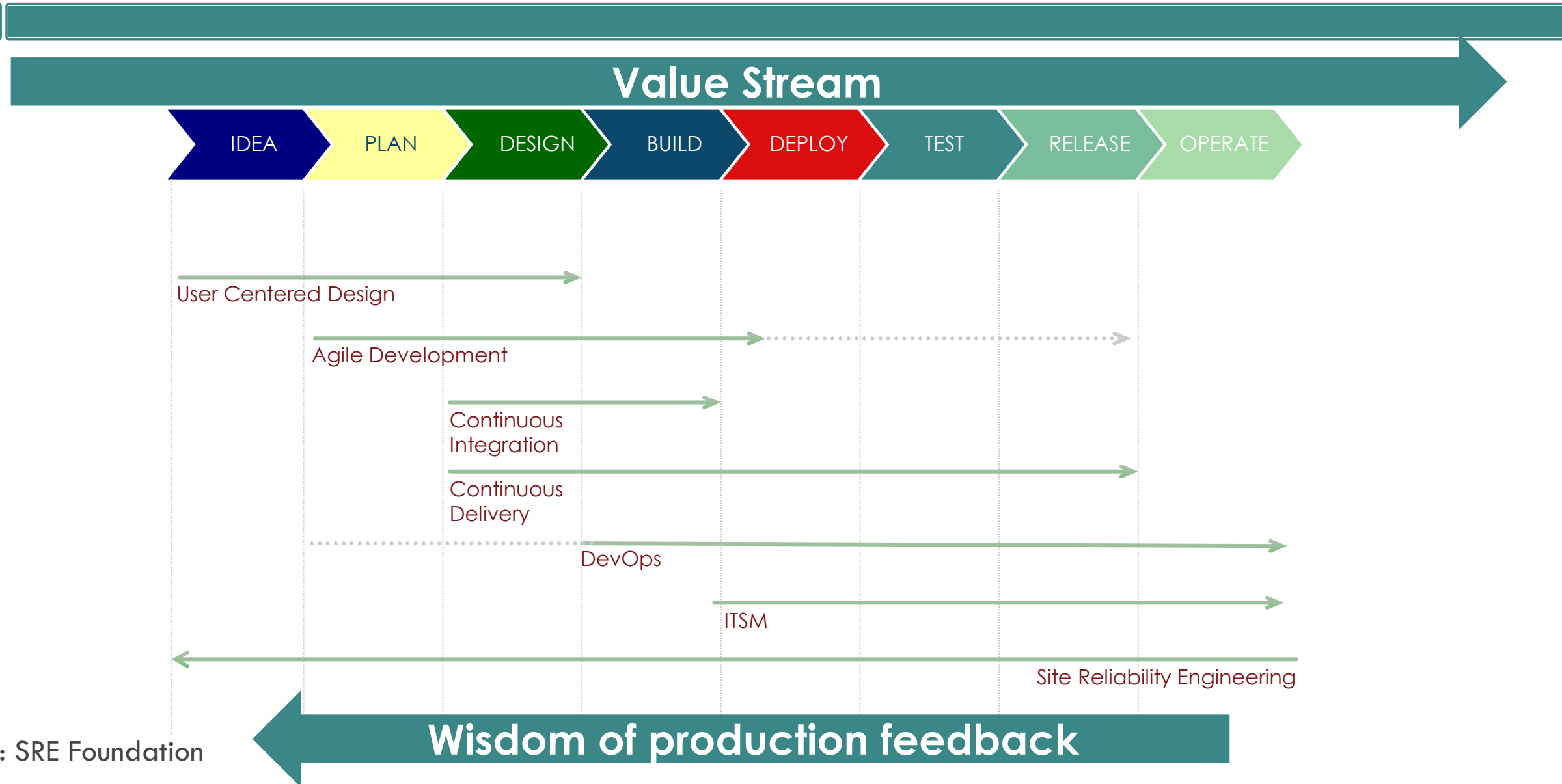
**Business Dictionary**

# The Impact of COVID-19

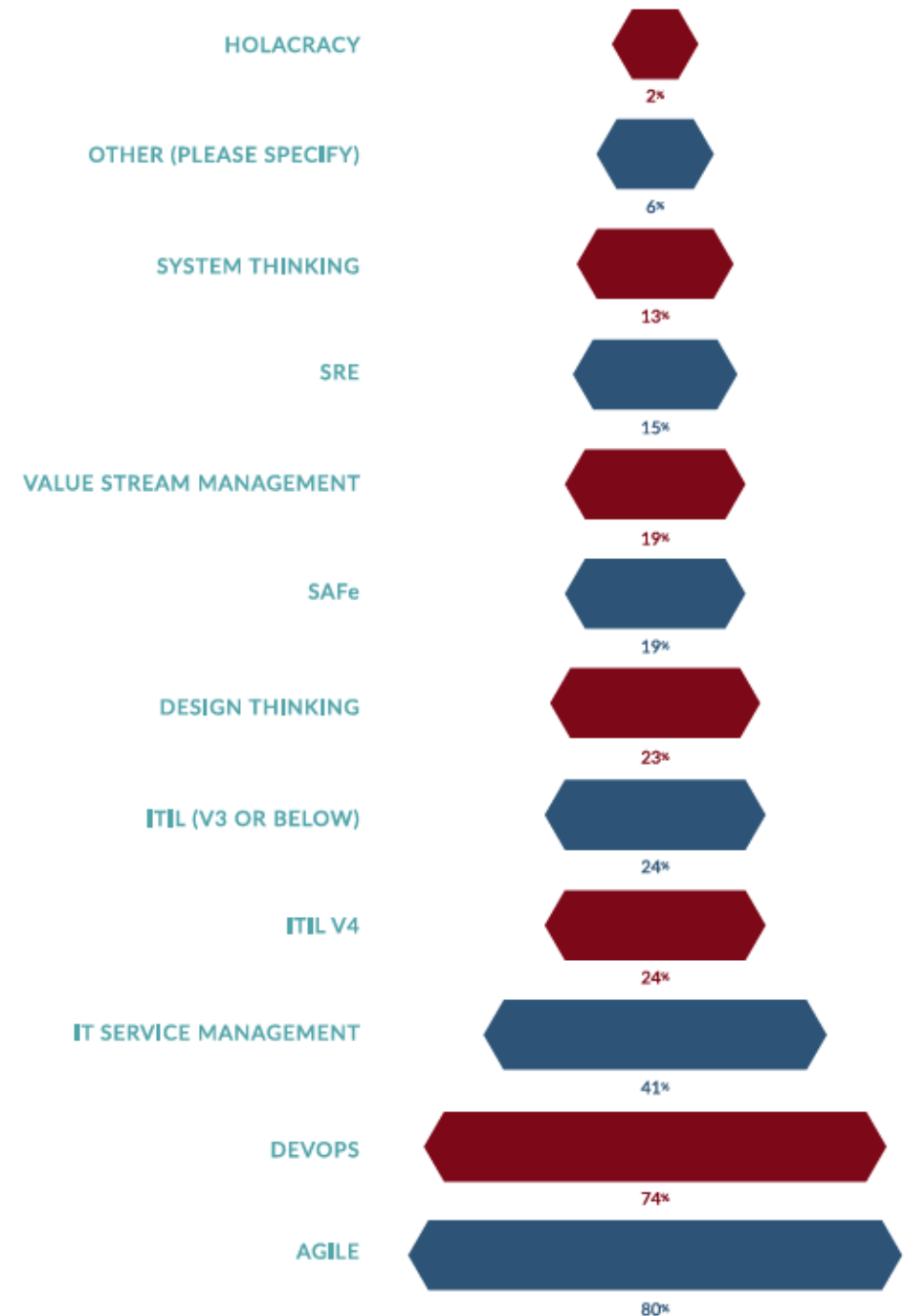
- 69% of boards of directors say that the effects of the pandemic crisis, the economic crisis and the social crisis are accelerating digital business initiatives (Gartner)



# Framework Alignment is Paying Off



Source: SRE Foundation





# The Role of IT Service Management (ITSM)

# ITSM and Digital Transformation

- IT service management is an important part of digital transformation
- The increasing reliance of businesses on technology means a smarter approach is needed





# Accelerating ITSM



- The 'what' and 'why' of ITSM hasn't changed
- It's the 'how' that **MUST** change
- Agile, Lean, DevOps, SRE... represent new ways of thinking and working
- ITSM can use these same new ways of thinking and working to adapt

**We've got to...**

- Speed up
- Streamline
- Integrate
- Automate

# ITSM Trends

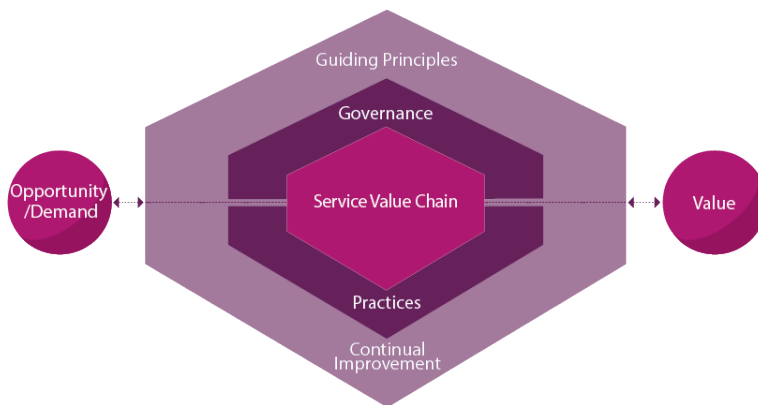


- Experience matters
- ITIL 4 is gaining acceptance
- Enterprise service management is gaining ground
- Reducing toil and automation have become major priorities
- We're learning how to focus on outcomes

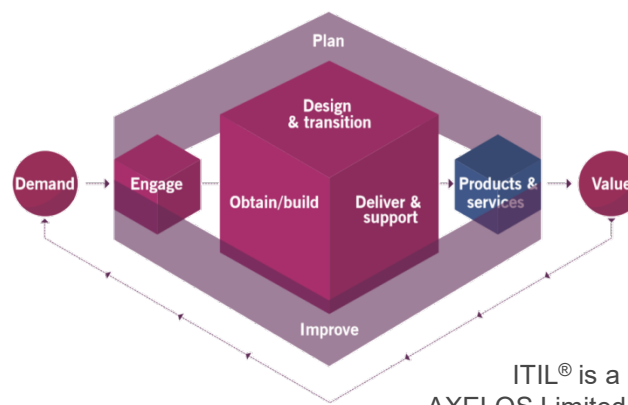
# About ITIL® 4

- Co-creation of value
- Best practices *and* exploratory ways of working
- Principles-based
- Value-stream centric
- Alignment with adjacent ways of working
  - ✓ Agile, Lean, DevOps, SRE...

Service Value System  
(Replaces the Service Lifecycle)

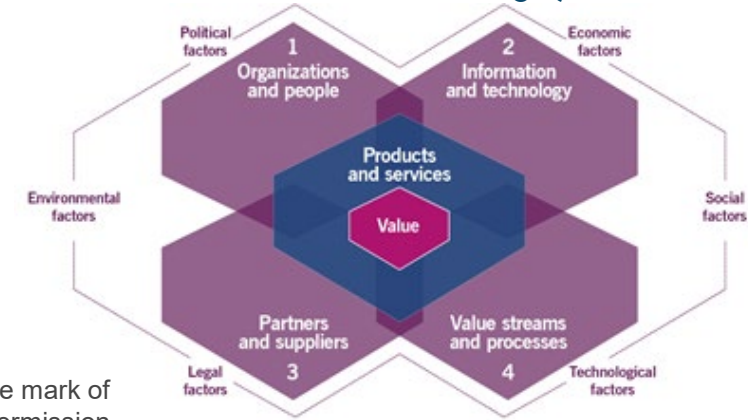


Service Value Chain  
(Flexible and adaptive)



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Four Dimensions  
(Evolution of the 4 Ps of Service Design)

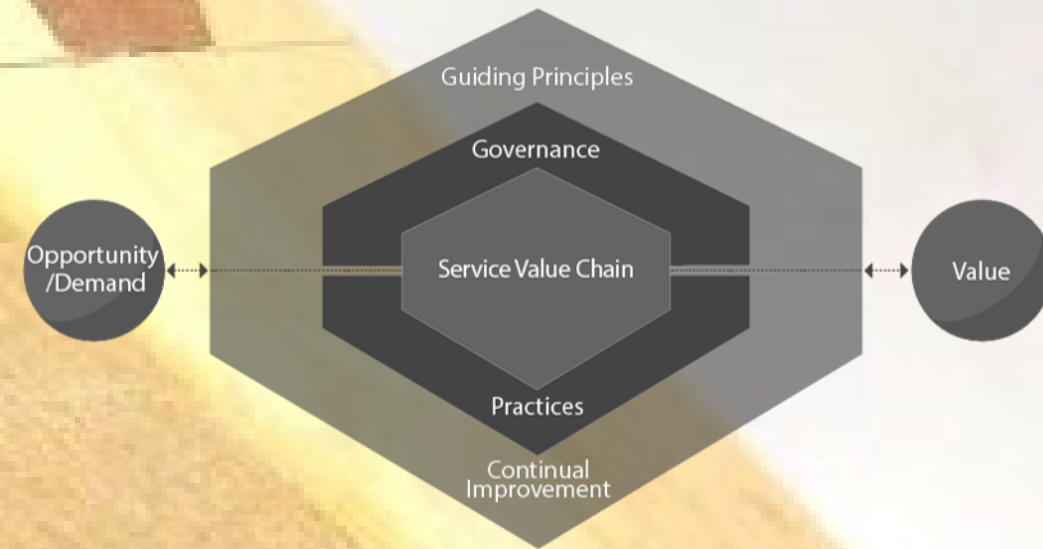
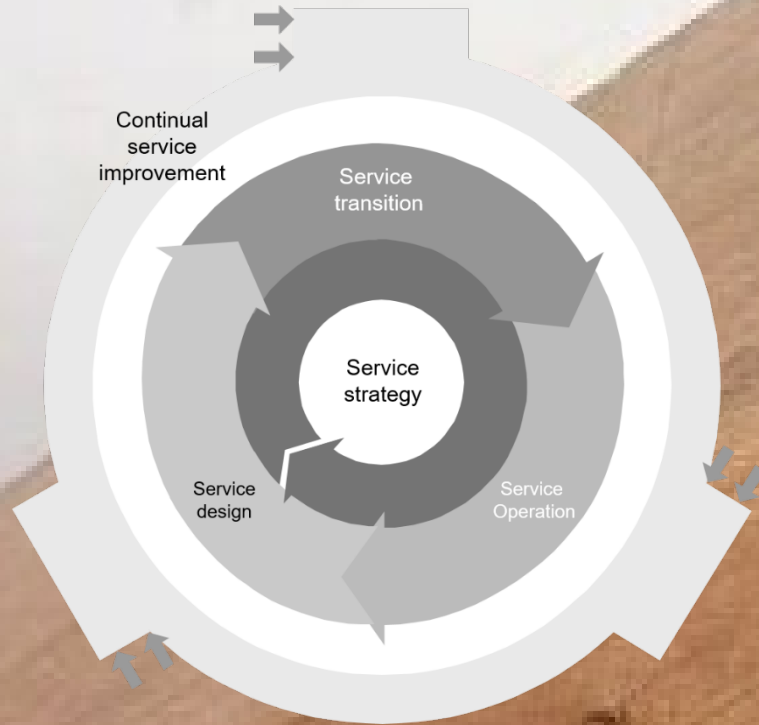


# ITIL v3 Retirement

AXELOS has announced the following:

- ITIL v3 Foundation (English) to be discontinued as of 1 July 2021
- ITIL v3 Intermediates (English) to be discontinued as of 1 January 2022
- ITIL 4 Managing Professional Transition examination (English) to be discontinued as of 1 July 2022
- Translated guidance and examinations discontinuation dates will be announced on a case-by-case basis based on the corresponding product release dates for the ITIL 4 higher modules

# ITIL Will Come Together in the End



**Forge your own way through continual improvement.**

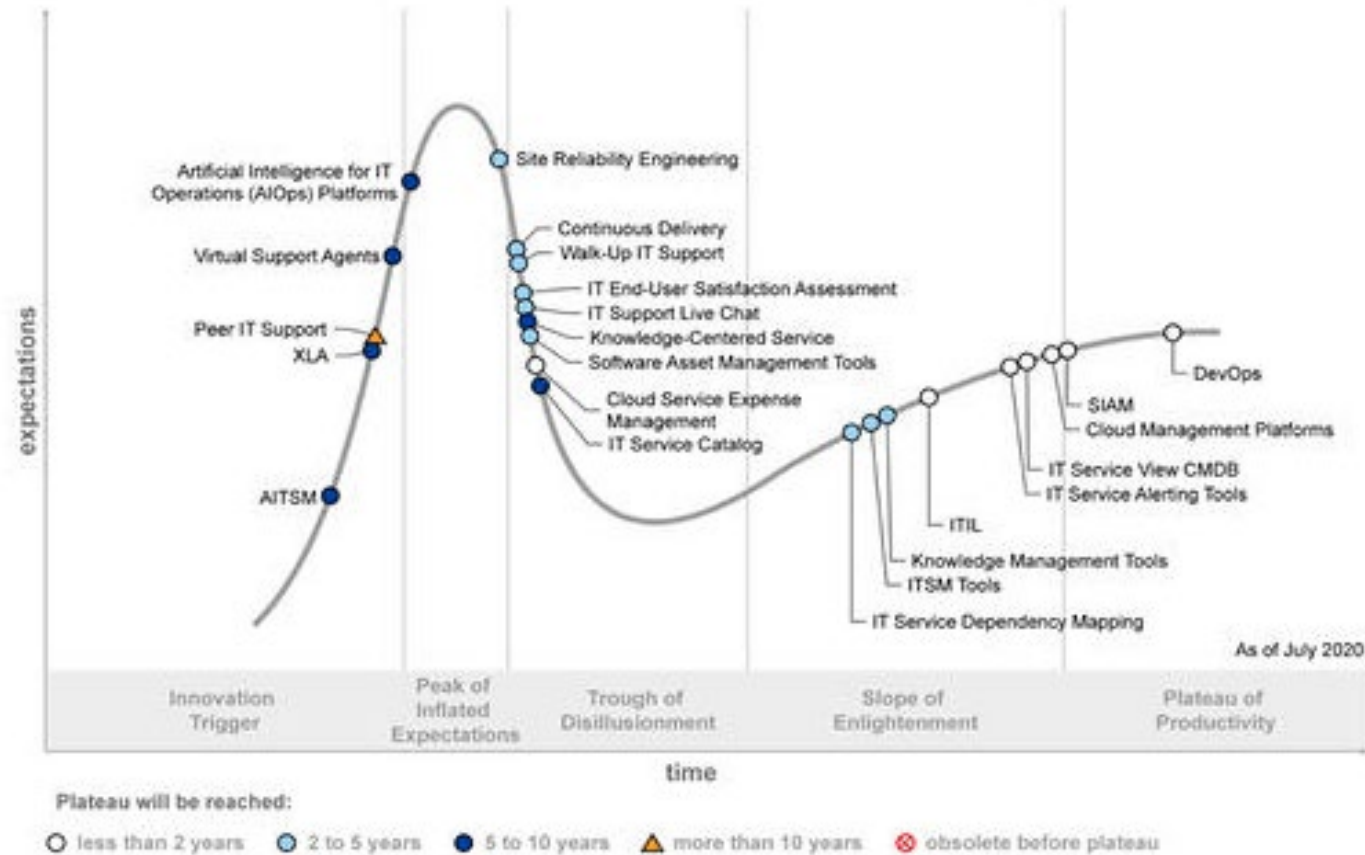


# The State of DevOps

*DevOps is an organizational and cultural movement that aims to increase software delivery velocity, improve service reliability, and build shared ownership among software stakeholders.*

# Gartner Hype Cycle

## Hype Cycle for ITSM, 2020



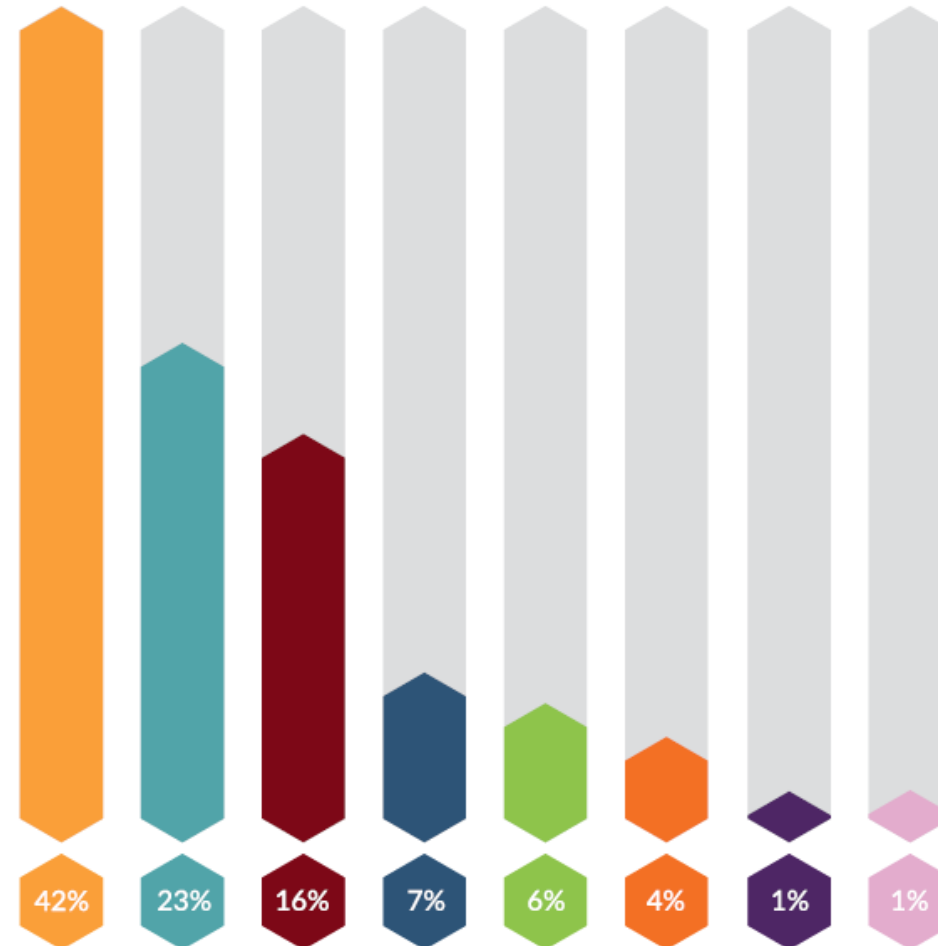
# DevOps Adoption

Q Which of the following best describes the DevOps journey within your company today?

- Applying DevOps at Project Level or Multiple Projects
- Applying DevOps Across Our Enterprise
- Planning Stage and/or Initial Stage for Our Enterprise (Planning Horizon within the Next 12 Months)
- We Have Not Engaged in DevOps
- Plan to Leverage DevOps in the Future (Planning Horizon Longer than 12 Months Out)
- Other
- Consciously Avoiding DevOps
- Previously Attempted and Failed

22.6% are in planning stage  
6.6% have not adopted DevOps

N 906





*DevOps enables organizations to reliably produce quality changes at speed.*

Version control

Dark launches

Continuous testing

CI/CD

DevSecOps

Feature toggles

Peer reviews

Compliance as code

Blue/green deployments

*DevOps requires that ITSM lighten up!*

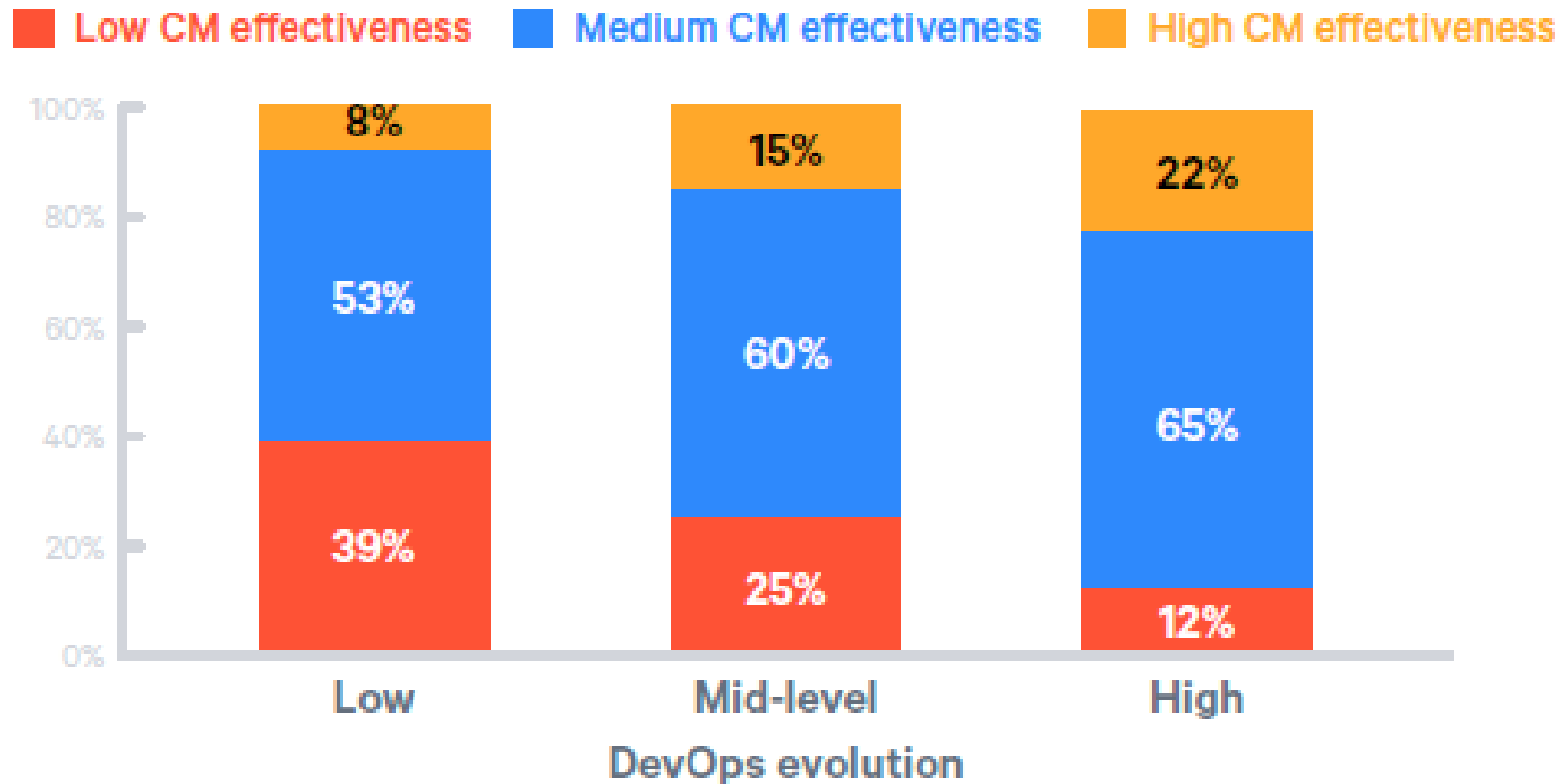
REPEAT AFTER ME...



**AKA – Minimum Viable Process**

# DevOps and Change Management

## Change management effectiveness and level of DevOps evolution



# About that CAB...

## 2014 STATE OF DEVOPS REPORT



W. Edwards Deming

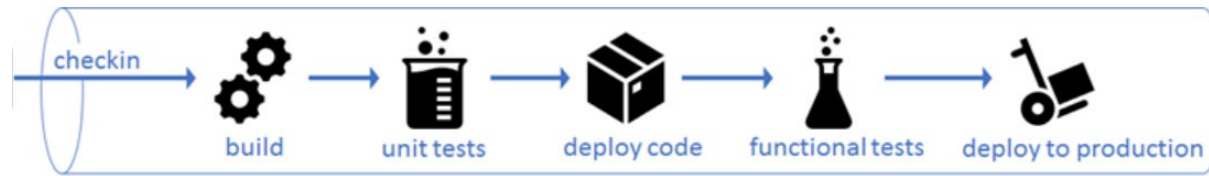
***“We found that when external approval (e.g., change approval boards) was required in order to deploy to production, IT performance decreased. But when the technical team held itself accountable for the quality of its code through peer review, performance increased.”***

***“Cease dependence on inspection to achieve quality. Eliminate the need for inspection on a mass basis by building quality into the product in the first place.”***

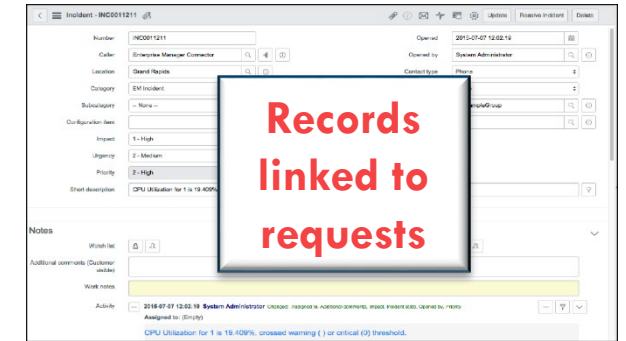


# Make It Easy for People to Do the Right Thing!

Track related incidents and service requests



## Pipeline



Connect features and user stories to change records

## An important point...

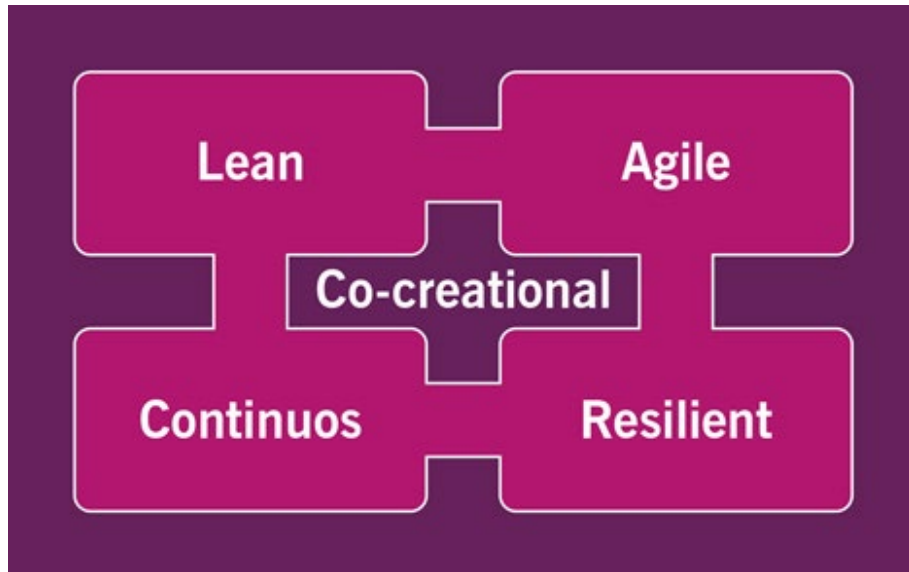


- The need for DevOps arose from the increasing success of Agile software development and from applying Lean principles to the IT value stream
- Service management plays a crucial role and the “lack of a service management approach is hurting competitiveness”\*

*DevOps practitioners are 'doing' ITSM, they're just not calling it that.*

\*Source: Delivering Value to Today's Digital Enterprise: The State of IT Service Management, 2017

# ITIL 4 and...



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Dominant characteristics of high velocity approaches include

- **Lean** helps to improve flow and reduce waste (via techniques such as value stream mapping and Kanban)
- **Agile** adds close and iterative collaboration with users
- **Resilient** maintains workable availability and performance (via approaches such as site reliability and chaos engineering)
- **Continuous** ensures fast and reliable deployment (e.g., continuous integration, delivery, deployment, and testing)

*DevOps builds on these characteristics by emphasizing close collaboration between the roles of software development and technical operations.*



# Agile





*“Once an almost exclusive domain of IT, agile has now permeated almost every part of the business.”*

Mckinsey



# Harnessing the Effectiveness of Extended Agile Teams

What COVID-19 has taught us about being agile

- Work on objectives, not simply tasks
- Optimize team size
  - ✓ The ideal effective team size is five to nine people
- Nurture empowered and iterative ways of working
- Embed a culture of experimentation, learning and iterating



# Lean/Value Stream Mapping



*“If we do not apply Lean principles, we will digitalize waste.”*

Thomas Walke Head of Lean Management Swisscom AG



# Lean Is a Mindset, Skill Set and Toolset

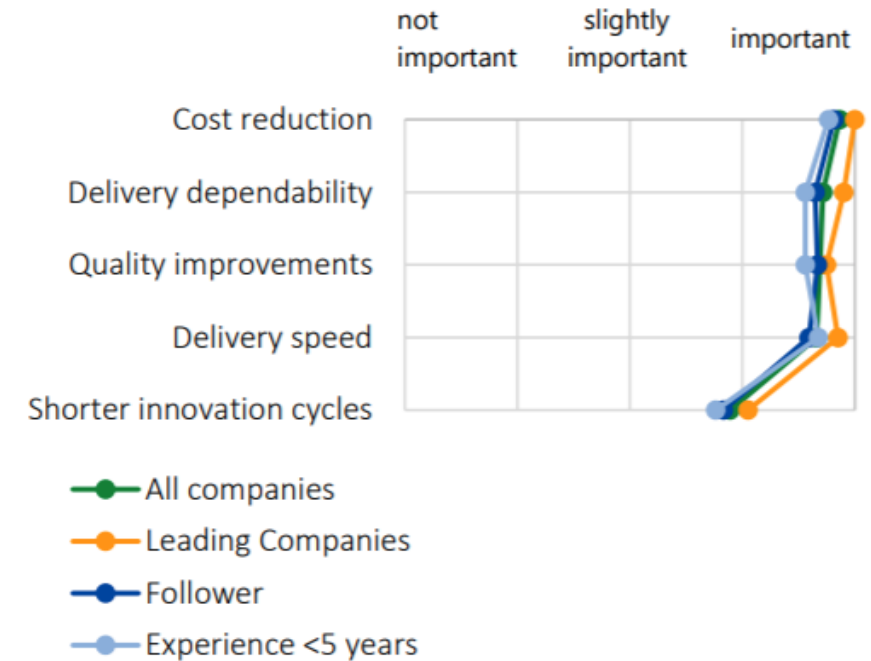
Lean tools have become commonplace

- Value stream mapping
- Kanban
- Toyota Kata
- A3 problem solving
- Root cause analysis

Figure 5

Which goals do you aim to achieve with your Lean efforts?

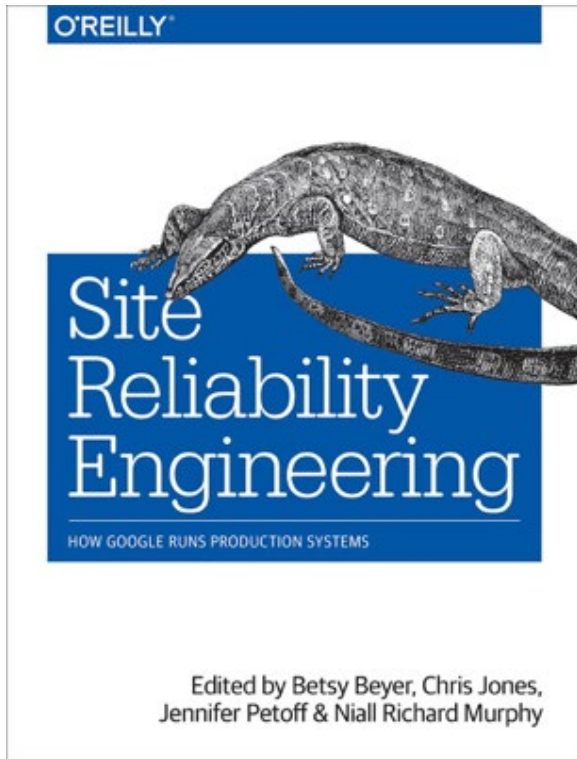
n = 75





# The Rise of Site Reliability Engineering

# What is Site Reliability Engineering?



- **Site Reliability Engineering (SRE)** is a discipline that incorporates aspects of software engineering and applies them to infrastructure and operations problems
- SRE (Site Reliability Engineer) is also a job role

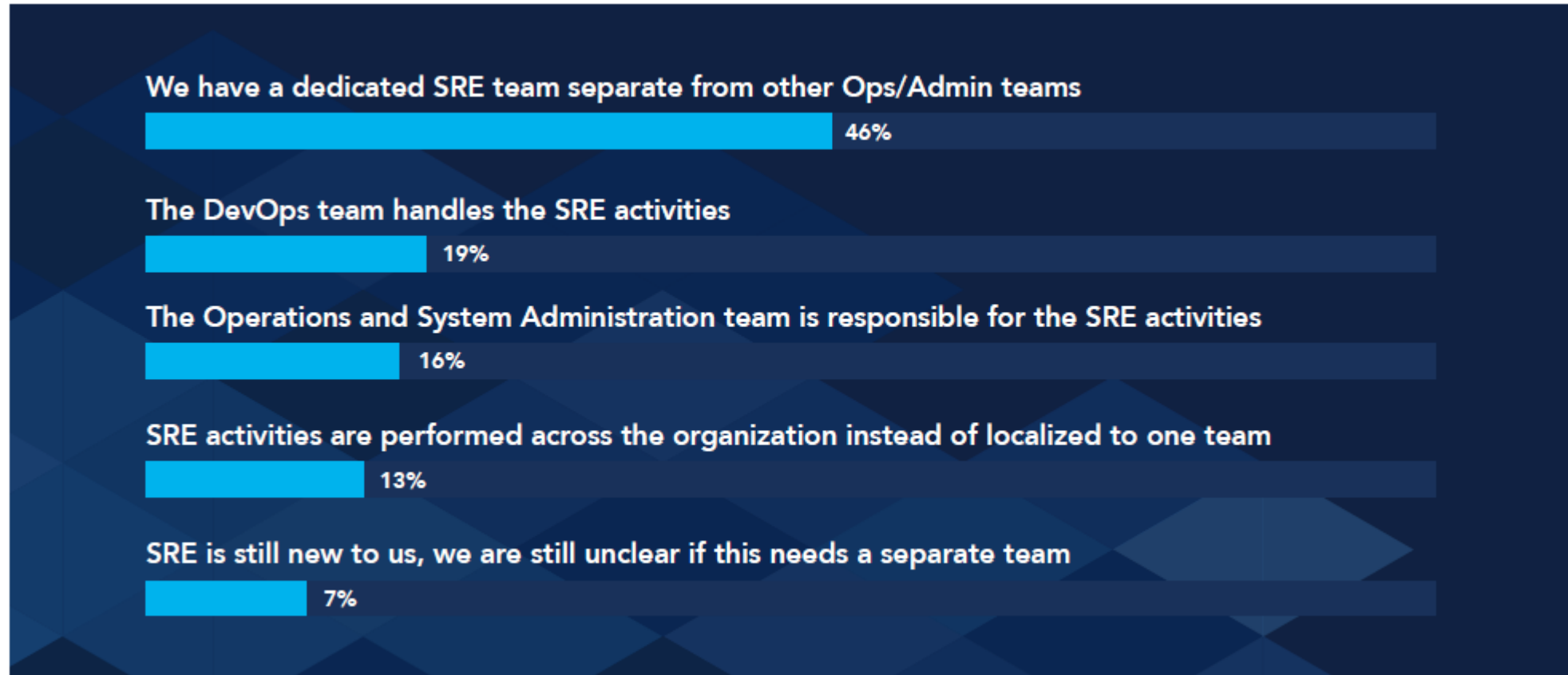
“What happens when a software engineer is tasked with what used to be called operations.”

Ben Treynor, Google

*Google defines reliability as “The probability that [a system] will perform a required function without failure under stated conditions for a stated period of time.”*



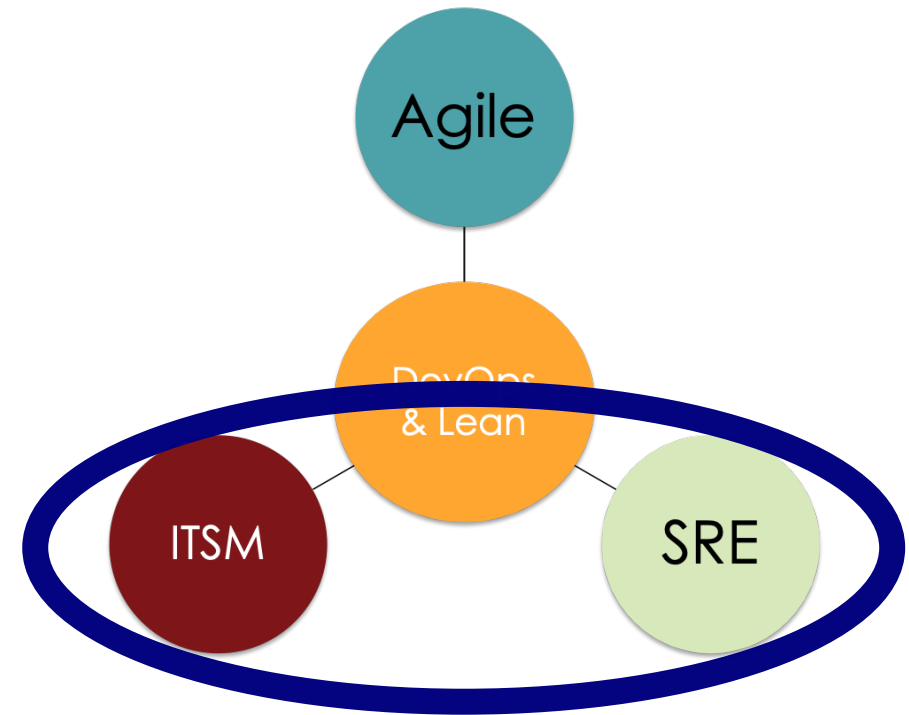
# 2020 SRE Report (Catchpoint)





# SRE and ITSM/ITIL

- Like SRE, ITIL processes are underpinned by automation particularly during transition and operation processes as part of continuous testing and delivery
- In SRE failure is a learning opportunity, continuous learning is embedded in ITSM
- ITIL provides guidance and structure to processes such as Change, Configuration, Release, Incident and Problem Management – areas that SRE are involved in
- SRE can help with ITSM compliance activities through automation & engineering



# ITSM Process Models Support SRE

- Predefined procedures
  - ✓ Steps to be taken
  - ✓ Chronological order and dependencies
  - ✓ Responsibilities
  - ✓ Timescales and thresholds
  - ✓ Escalation procedures
- Define steps for handling specific types of transaction
- Ensure a defined path or timeline is followed
- Can be automated

## Examples

- Change models
- Release models
- Test models
- Incident models
- Problem models
- Request models



# Where We Go From Here

**Not back to Normal!**

# The Impact of COVID-19

- Companies have accelerated the digitization of their customer and supply-chain interactions and of their internal operations by 3 to 4 years, and the share of digital or digitally enabled products in their portfolios has accelerated by 7 years (McKinsey)
- We found that the top 10 percent of companies in terms of revenue growth are more than 50 percent more effective than peers in testing, measuring, and executing based on what they've learned. (McKinsey)

# The Future is Here...



# We Go Forward

## Embrace guiding principles

- Start now
- Start where you are
- Progress iteratively
- Continuously experiment, learn and improve

## Learn from high performers

- Put the business first
- Master technology
- Invest in speed
- Make customers a priority
- Be proactive

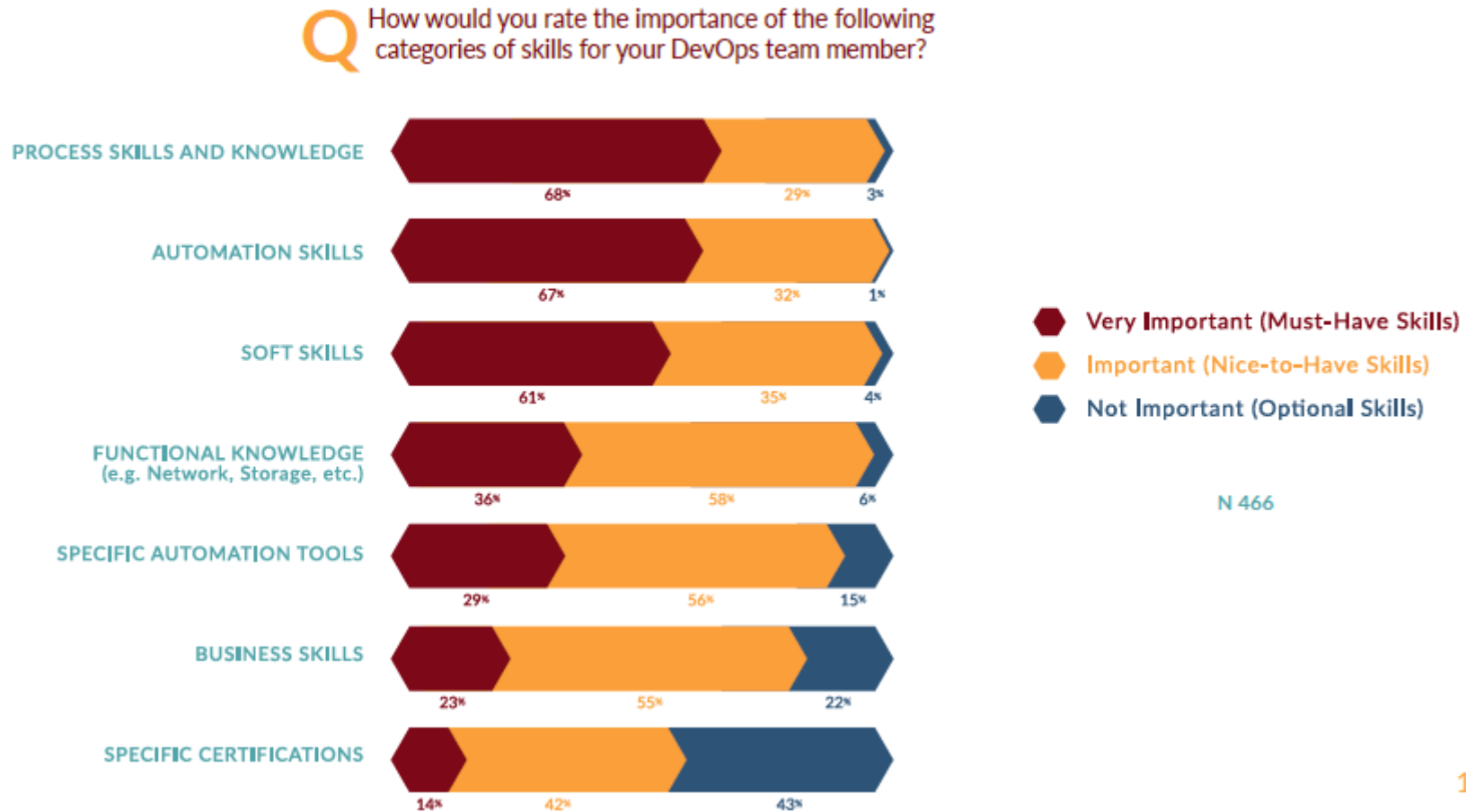
Source: Atlassian/HDI Research – 5 Qualities of High-performing IT Teams

*Figure out how progressive practices and emerging technologies (e.g., AI, machine learning) can augment your work to increase efficiency, improve productivity and free you up to innovate.*

# Hone Your Skills



# Skill Categories



Source: Upskilling 2020: Enterprise DevOps Skills Report



# Just Be Human!

DevOps  
Humans  
Top5 Skills are



- Collaboration ☐
- Interpersonal Skills ☐
- Problem Solving ☐
- Sharing and Knowledge Transfer ☐
- Flexibility ☐



# Want to Learn More?



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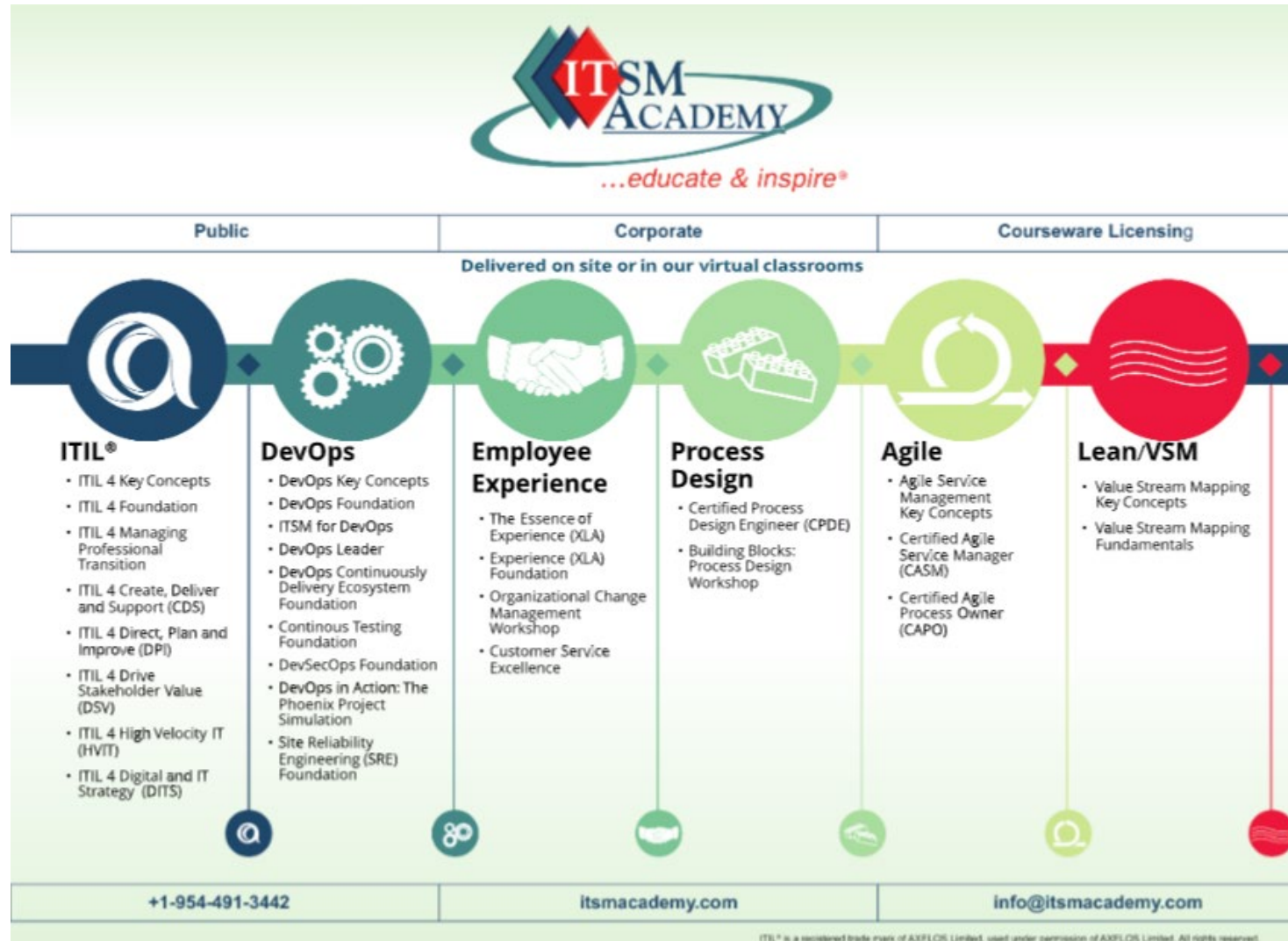
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# ITSM Academy Course Catalog



# ITIL 4 Certification Scheme

## Core Publications and Certification Courses



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## Practices Guides



***A one year's subscription to My ITIL is included for all new ITIL® certificates.***

# Which ITIL 4 Courses Are For You?

- ITIL Managing Professional *and* ITIL Strategic Leader
  - ✓ **Direct, Plan, & Improve (DPI)** – focuses on supporting a defined strategy
    - The ability to use ITIL methods in overall modern IT strategy
    - Creating a ‘learning and improving’ IT organization with a strong and effective strategic direction
    - A clear alignment between strategy and operations and how to maximize desired business / digital outcomes

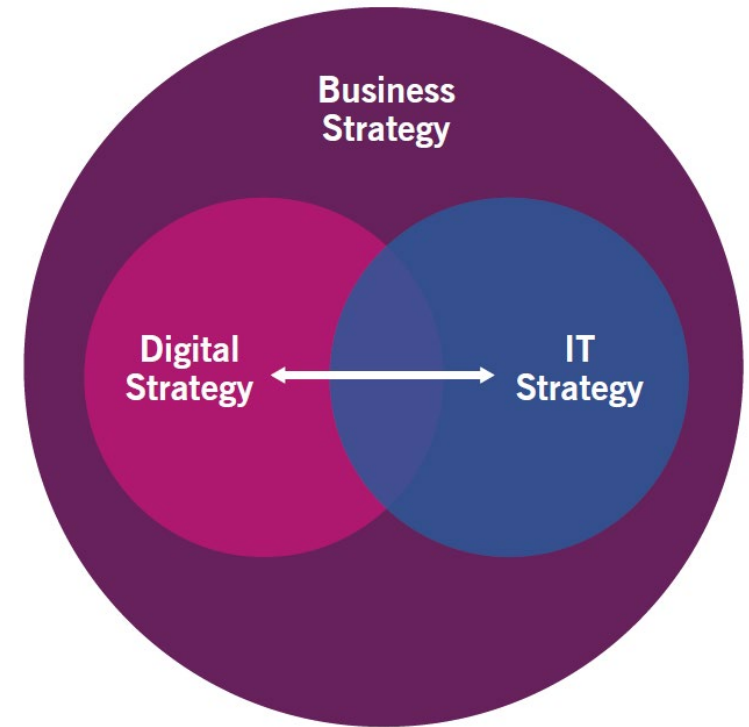
# Which ITIL 4 Courses Are For You? (2)

- ITIL Managing Professional Stream
  - ✓ **Create, Deliver, and Support (CDS)** – focuses on value streams
    - Core service management activities and how to expand the current scope of ITIL
    - Logical and actionable next step to enable immediate, tangible changes
    - Co-creation of innovative yet reliable tech-enabled services
  - ✓ **Drive Stakeholder Value (DSV)** – focuses on the customer journey
    - All types of engagement & interaction between service providers and their customers, users, suppliers, and partners
    - How to convert demand into value via IT-enabled services
    - Multi-dependent workflows and systems for both consumers and producers
    - The tools needed to increase and sustain stakeholder satisfaction
  - ✓ **High Velocity IT (HVIT)** – focuses on ITSM in the context of digital
    - The digital perspective and a new way of looking at ITIL
    - ITIL's operating model, principles and operational practices can be used for digital delivery and transformation
    - Ways in which digital organizations and digital operating models function in high velocity environments
    - The difference between IT transformation and digital transformation – knowing where to make your digital investment for maximum return

# Which ITIL 4 Courses Are For You? (3)

## ■ ITIL Strategic Leader

- ✓ **Digital & IT Strategy (DITS)** – focuses on defining and executing a digital strategy
  - Elevates the discussion around ITIL concepts to the strategic level
  - Focuses on the importance and challenges of creating a digital strategy to enable business success
  - Provides leaders and aspiring leaders guidance that can be used to strategically manage risk and survive and thrive in a VUCA\* environment

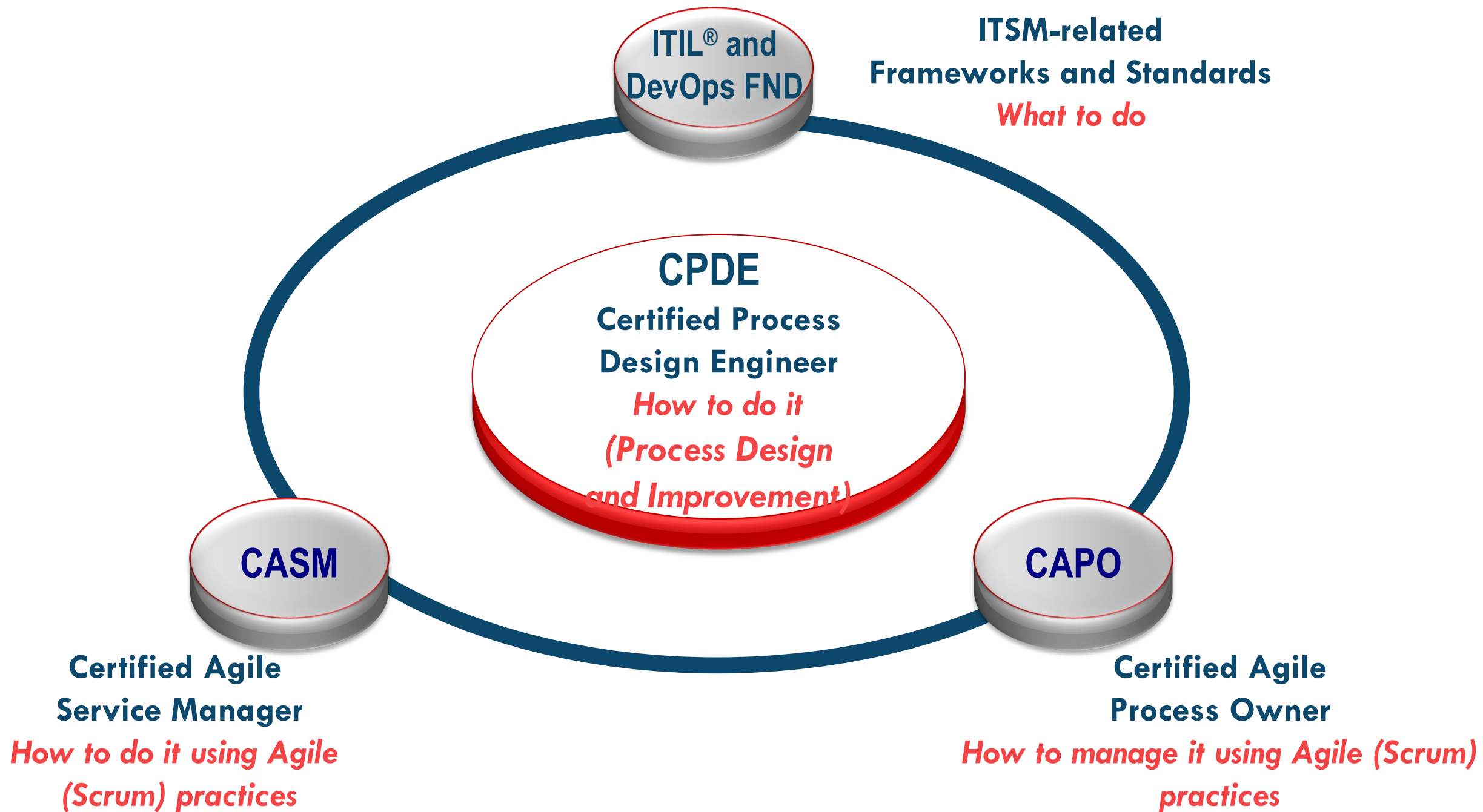


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# DevOps Certifications









Thank You for Attending!