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# **DEVOPS IN PRACTICE**

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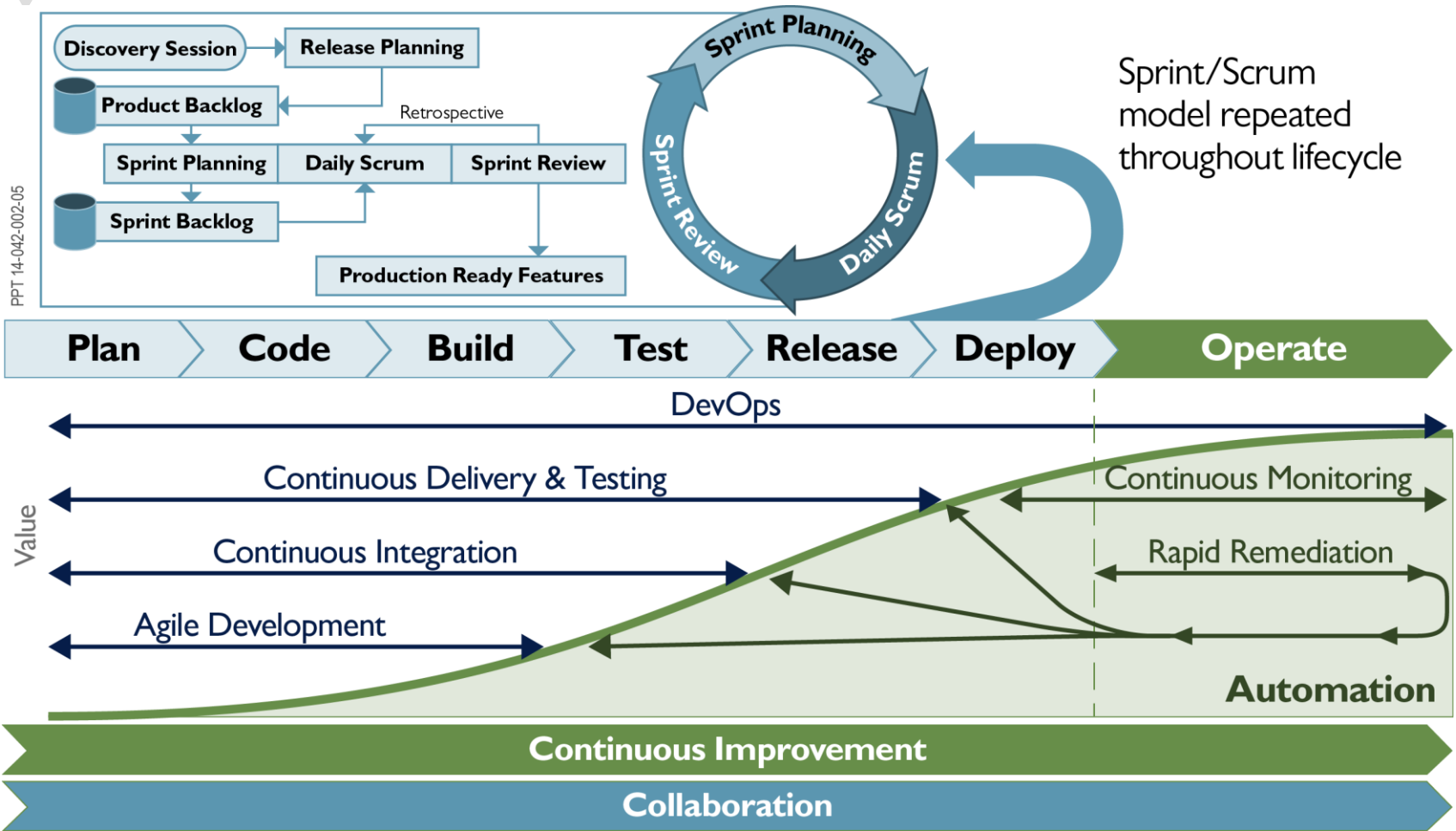
# AGENDA

- What is DevOps?
- What does DevOps look like?
- How CVP does DevOps
- Why is DevOps important?
- DevOps is fundamentally changing IT delivery models
- How can DevOps help your organization?
- How can DevOps benefit you?

# WHAT IS DEVOPS?

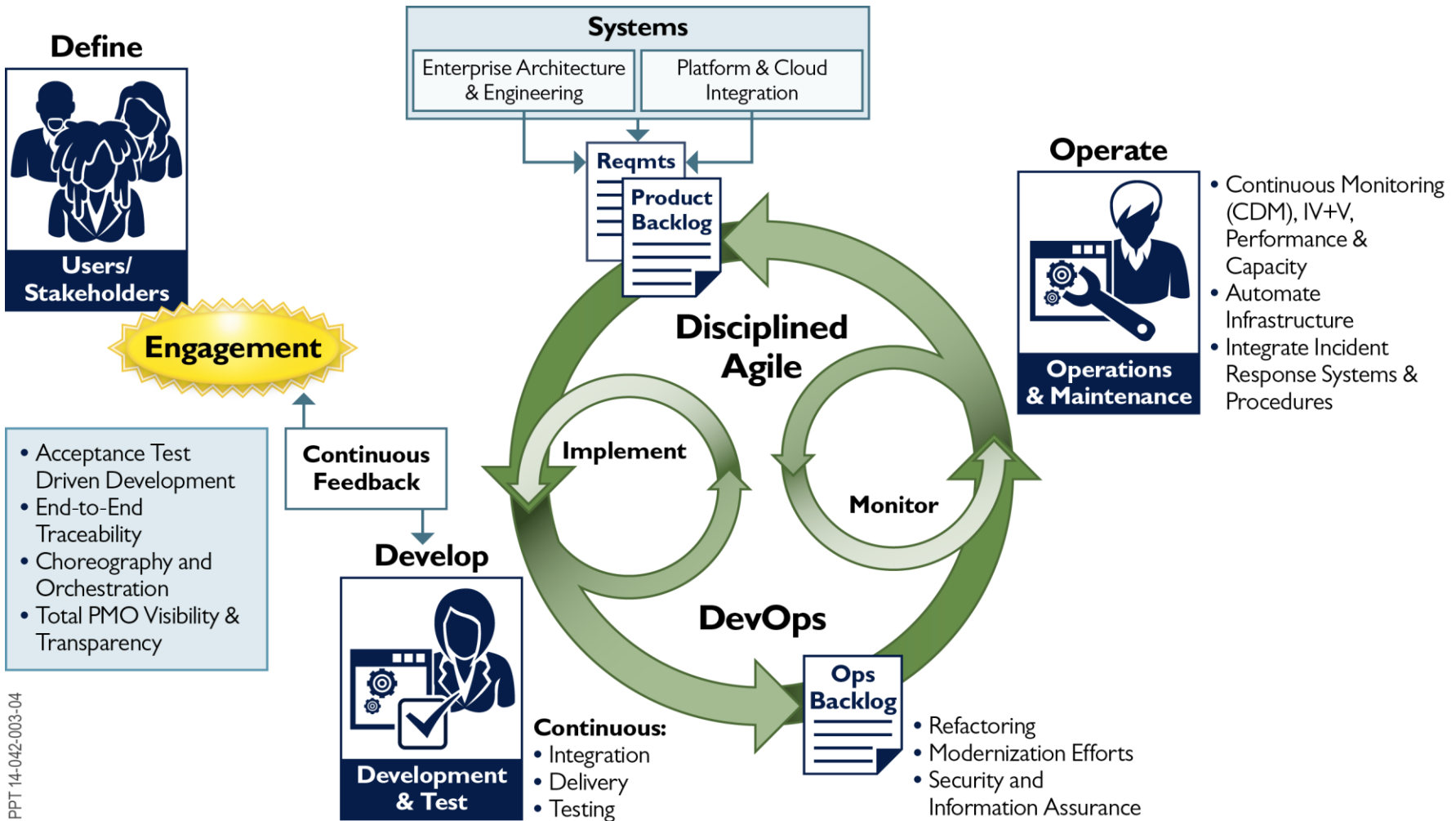
- Next step in the evolution of IT delivery and the integration of multiple operating concepts, including Agile Development, Continuous Integration and Continuous Delivery, Lean, and ITIL
- Involvement of shared services delivery chain organizations early and often throughout the development project, to include
  - ◆ Configuration Management (CM)
    - To enable continuous delivery of tested software solutions into controlled baselines, to maximize validation and integration efforts
  - ◆ Independent Verification and Validation (IV&V)
    - To enable repeated quality verification and validation within development iterations, minimizing the time and effort for formal IV&V post-development
  - ◆ Operations
    - To incorporate operational requirements into software designs, minimizing deployment and sustaining operations risk

# WHAT DOES DEVOPS LOOK LIKE?



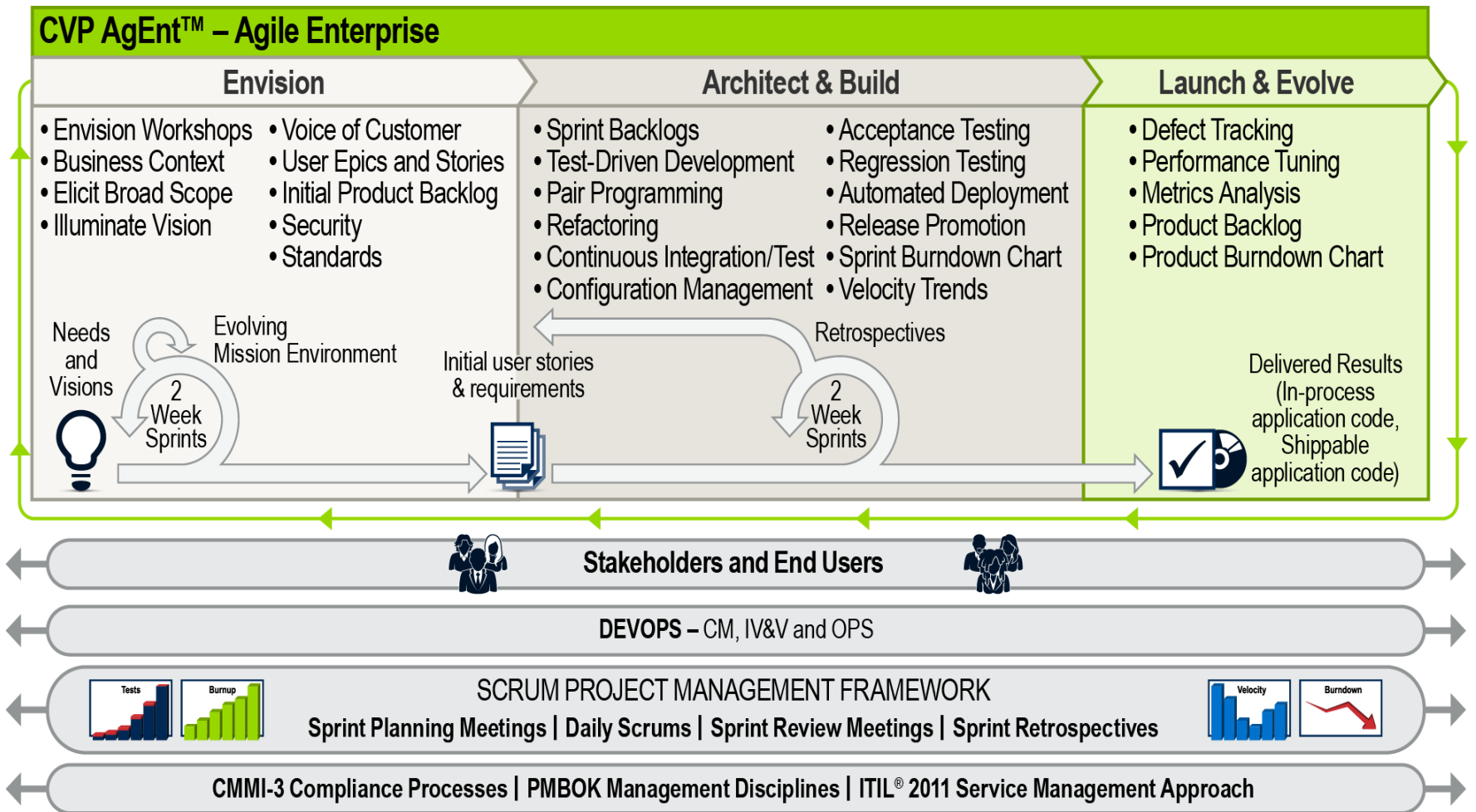
*in relation to the application lifecycle management view of the world*

# WHAT DOES DEVOPS LOOK LIKE – ACROSS THE SDLC?



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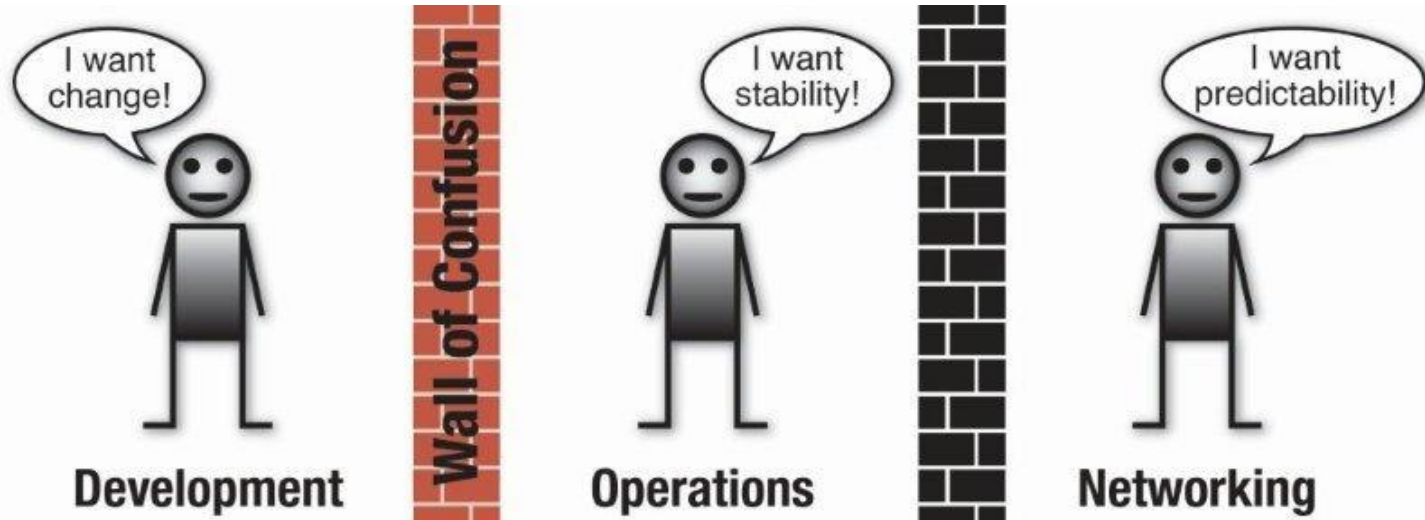
# How CVP DOES DEVOPS



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# WHY IS DEVOPS IMPORTANT?

- It is an effective response to the reality that nearly every IT organization and provider is under tremendous pressure to respond more quickly to business needs AND provide stable, secure, predictable IT services...in spite of the fact that the different functional delivery teams are typically not organized for, or focused on same success criteria



# DEVOPS IS CHANGING FACE & PACE OF BUSINESS

- DevOps is showing significant business effects for early adopters and is making the attentive large businesses of the world change their strategies before they become irrelevant.
  - ◆ Organizations applying DevOps principles deploy code 30x more frequently with 50% fewer failures, which experience a 12x faster MTTR.
  - ◆ Amazon has dramatically improved its capacity for simultaneous deployments in its hosted and production environments from 1,079 max deploys in a single hour, to an average number of 10,000 hosts and a max of 30,000 hosts receiving deploys simultaneously as of Oct '14.
  - ◆ Companies of all sizes are seeing similar improvements
    - “what once required 6-14 hours and an army of resources, now takes 15 min and 1 person”.
    - We have gone from 30+ deploys per day in 2013 to 50 deploys/day in March 2014 to 80-90 deploys/day in April 2014.



# HOW CAN DEVOPS HELP YOUR ORGANIZATION?

- Start small and expand from there
- Meet delivery expectations – quicker delivery time, shorter time to market
- Meet objectives of IOE (Improving Operation Efficiency) – doing more with less
- More secure environment (network, infrastructure, systems) – data security
- Engage user community early on and keep their interest/focus
- Enterprise architecture

# HOW CAN DEVOPS HELP YOU?

- Closer relationships with end users, sponsors, and all IT parties/groups involved
- Better understanding of all of the requirements
- More manageable scope and activities
- Quicker time to find out if something needs to be abandoned

# CONTACT INFORMATION

- We appreciate the opportunity to present our capabilities
- Please contact us with any additional questions

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