Extending DevOps to the Full Value Stream
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- A developer, team lead, project manager, product manager
- Helping enterprises with Agile for over a decade
- Part of the SAFe framework team
- 3rd degree black belt
- Family at scale
Where did DevOps come from?

2009
San Jose, CA - O'Reilly Velocity Conference

Continued conversations on Twitter (#DevOps)

New tools emerged

2011
Gartner caught on and predicted enterprise adoption

Global movement spawned

2013
The Phoenix project

2012 to 2014
Vendors flood in and took it mainstream

2015
The DevOps Handbook

Continued conversati on on Twitter (#DevOps)
What is DevOps

- Maximum speed
- Maximum stability
Building a culture of alignment between Dev and Ops
The commit to deploy value stream

Build → Test End-to-End → Stage → Deploy
When waterfall development meets a deployment pipeline
Agile Development

Development Team

- Flow
- Architecture & Design Quality
- Code Quality
- System Quality
- Release Quality

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The develop to deploy value stream
Pressing the release button
Separating deploy from release
Verifying in production
Responding to problems
The develop to release value stream

- Develop
- Build
- Test End-to-End
- Stage
- Deploy
- Verify
- Respond
- Release
We think we know what customers want
Or do we...
We’re building unused features

Usage of Features and Functions in Typical System

Always, 7%
Sometimes, 16%
Often, 13%
Rarely, 19%
Never Used, 45%

Source: Standish Group
Study of 2000 projects at 1000 companies
…now even FASTER
Adding the learning cycle

Hypothesize (Plan)

Learn (Adjust)

Build (Do)

Measure (Check)
Continuous exploration of customer needs
Applying learning
The Explore to Learn Value Stream
We’re finally done
Extending to operations
A train that builds and runs a solution
Dev and Ops enough

Working together for speed and stability
A fully functional value stream
Where to start?