

# Introduction to Agile

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advanced product delivery

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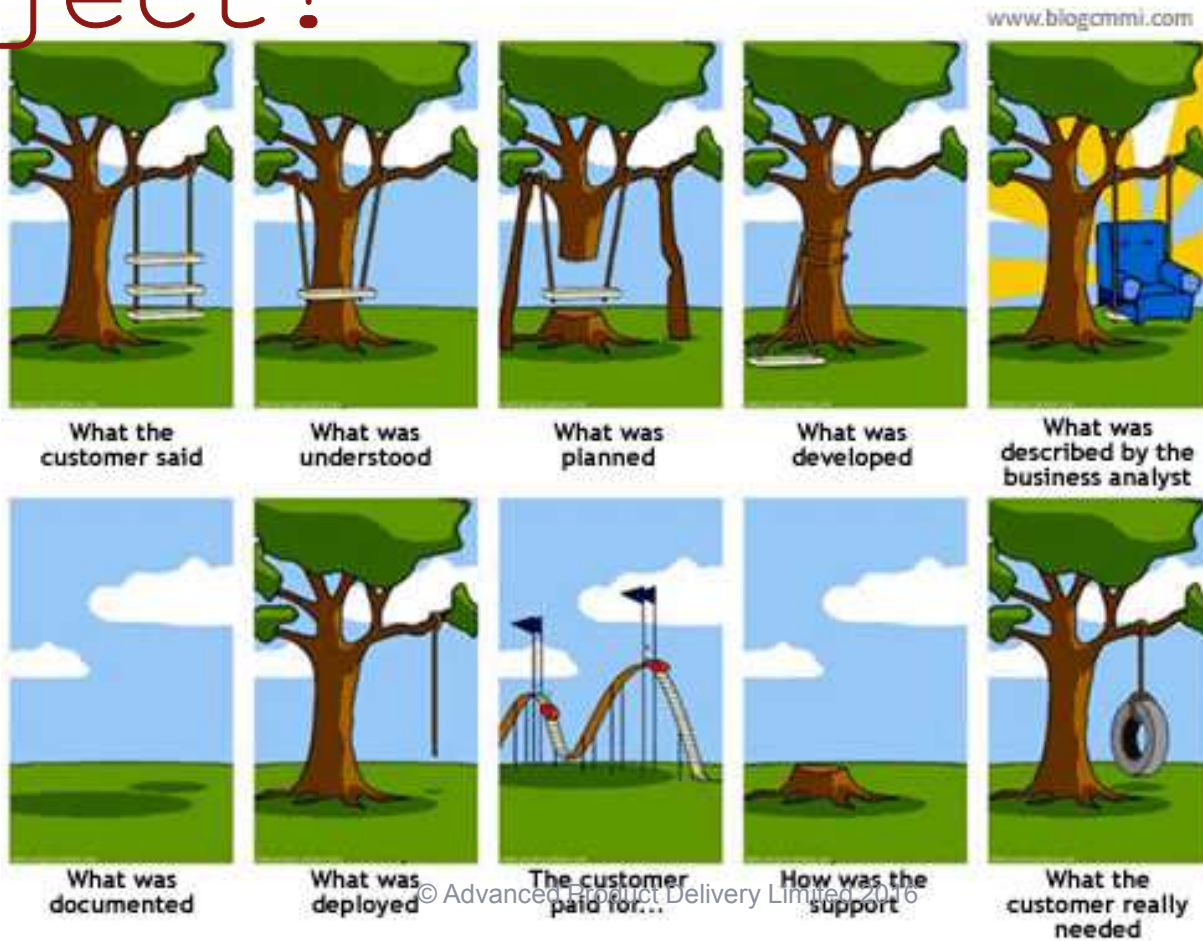


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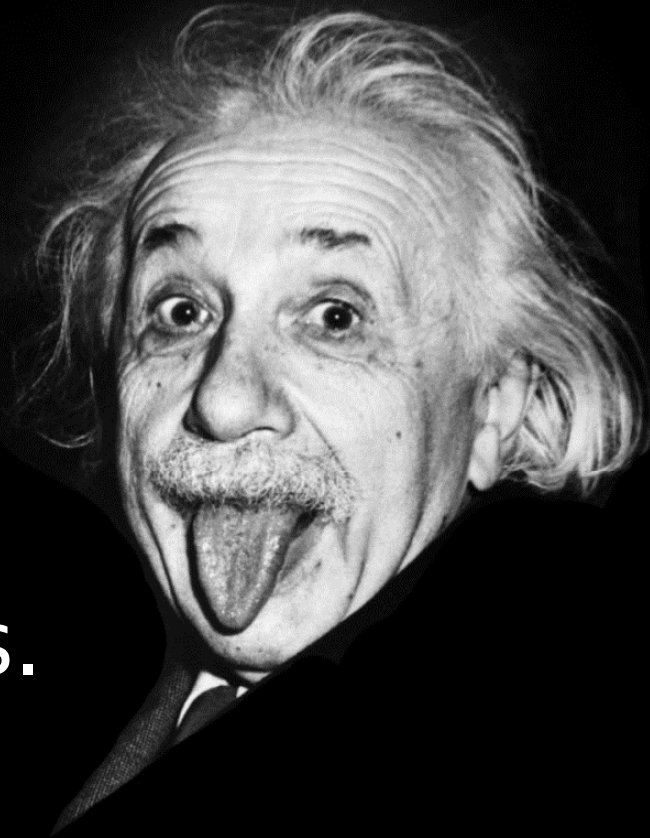


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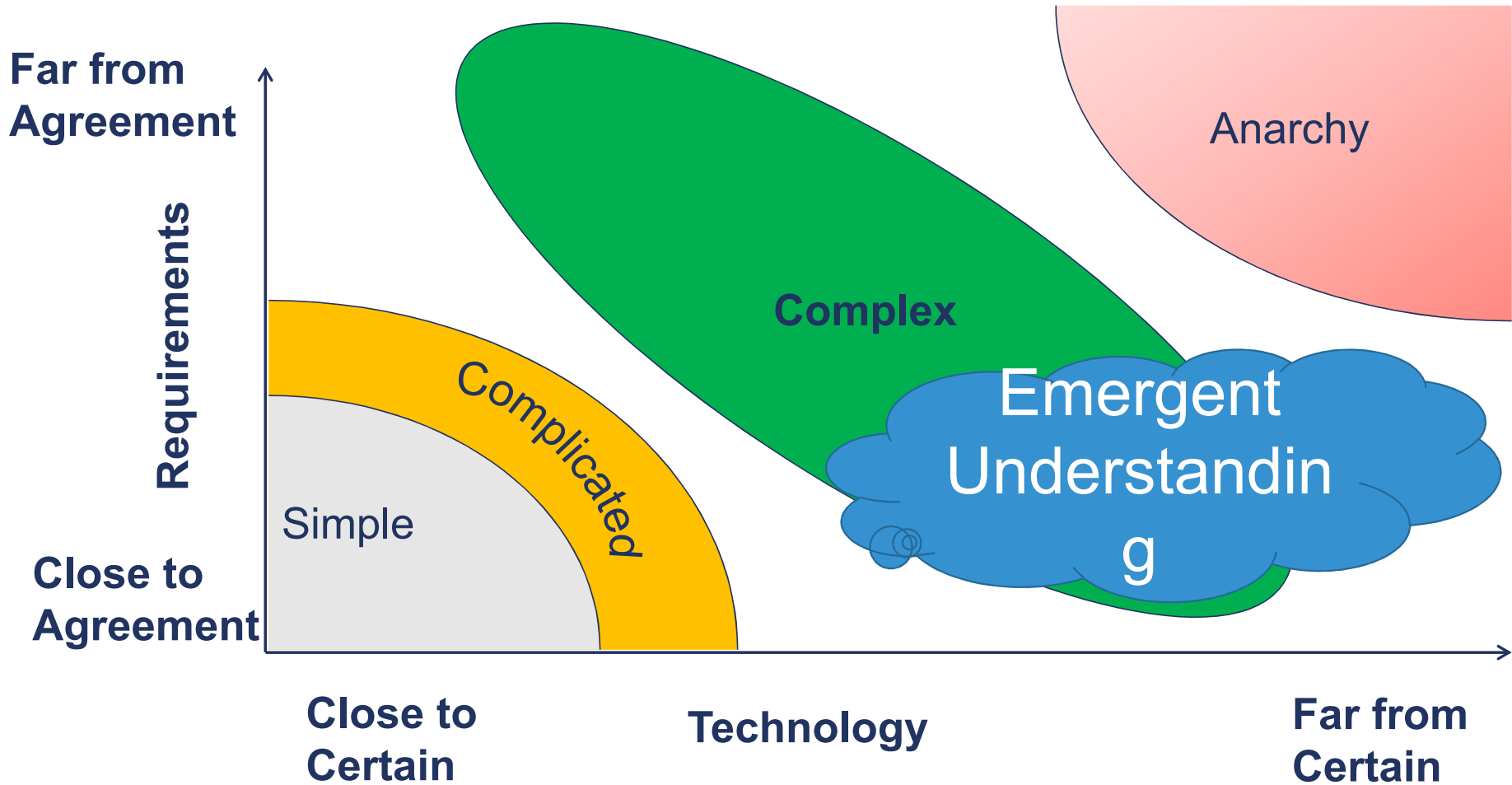
# Has this happened to your project?



Insanity: doing  
the same thing  
over and over  
again and  
expecting  
different results.  
Albert Einstein



# Process Complexity



# A different (scientific) approach

- Iterative
- Incremental
- Fast Feedback
- Frequent checks with the consumer  
(user)
- Focus on solving the problem, not  
documenting it

# Agility



## Definition of **agile** **adjective**

- able to move quickly and easily

## **adverb**

- agility

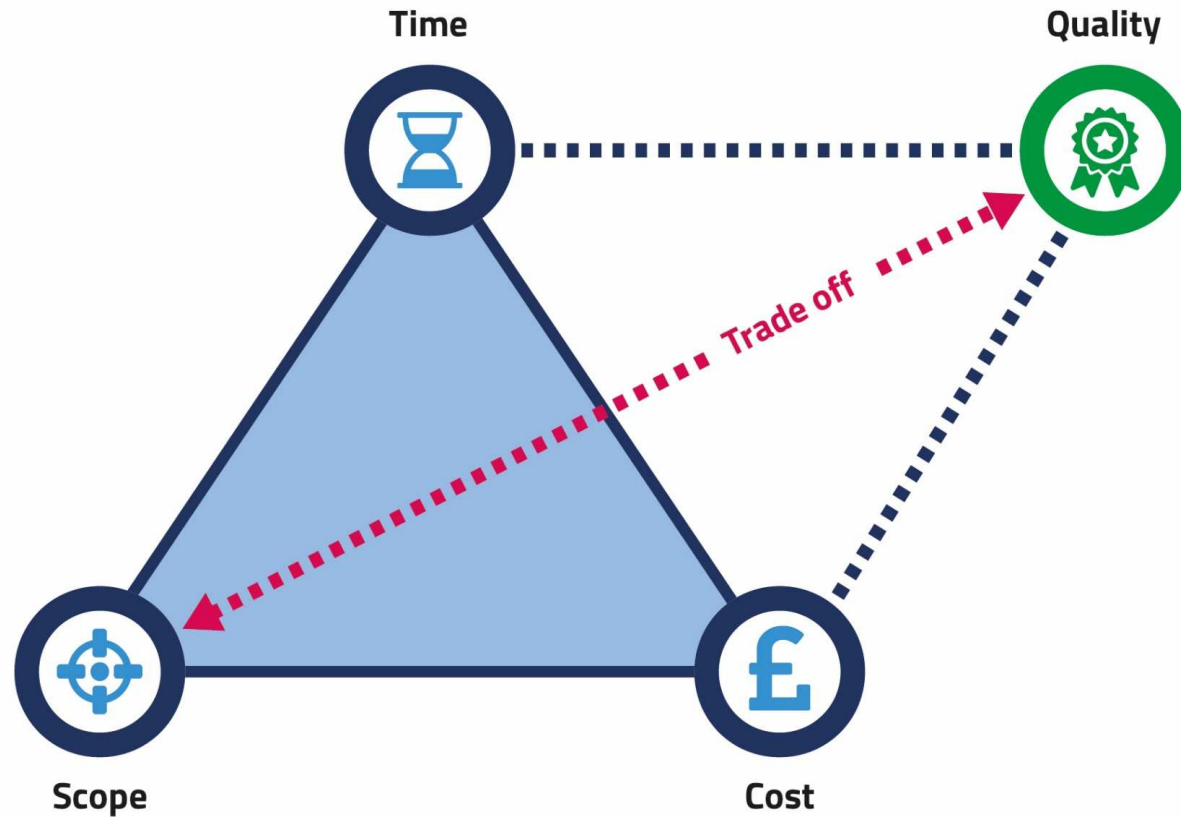
from Latin *agilis* - 'do'

***Quickly and deliberately  
respond to change while  
managing risk***

"Do, or do  
not ... there  
is no try"

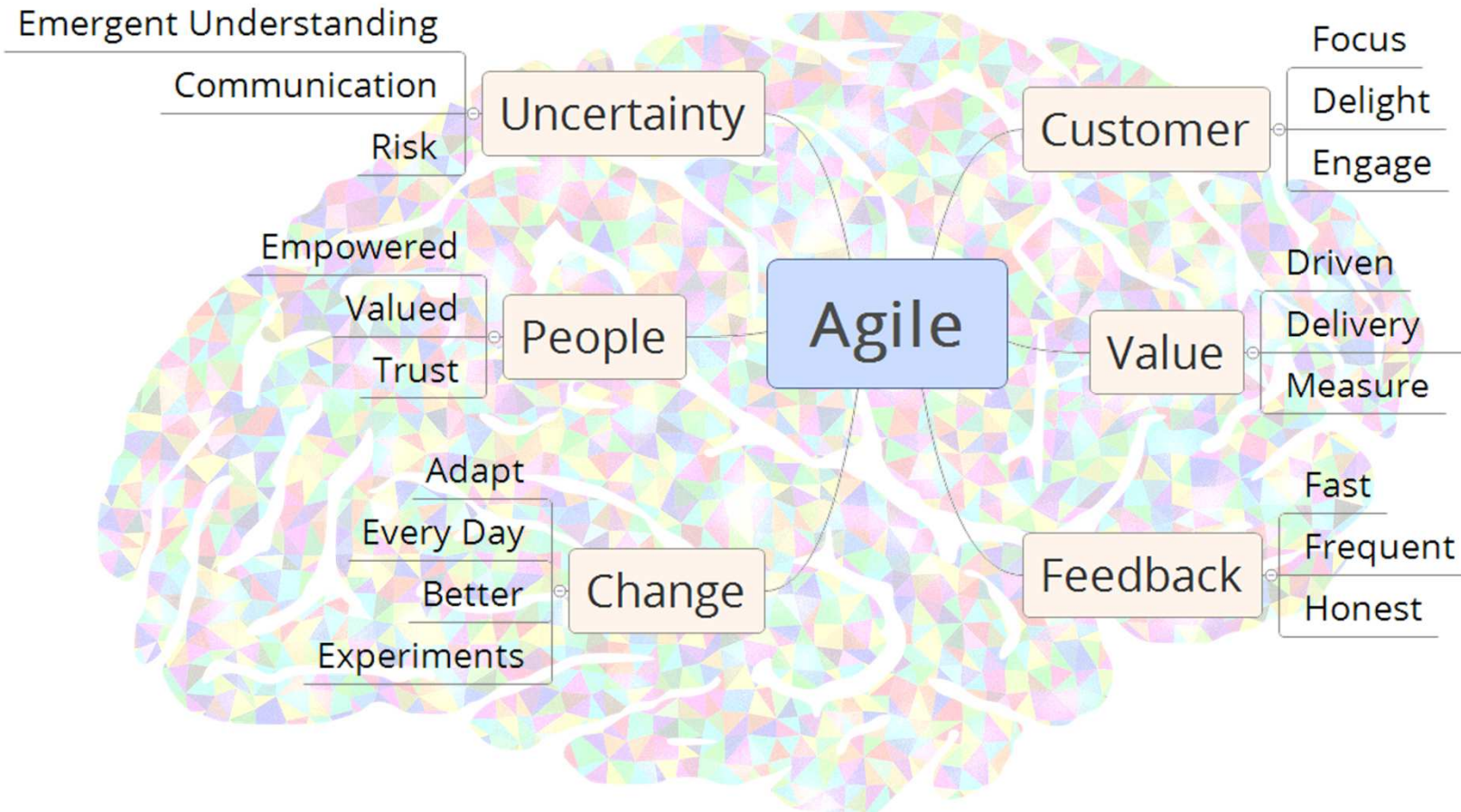
Yoda

# What is important?



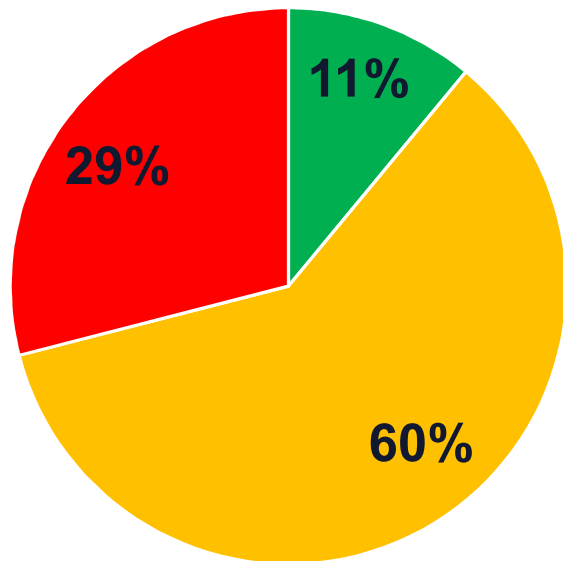


# Agile is a mindset



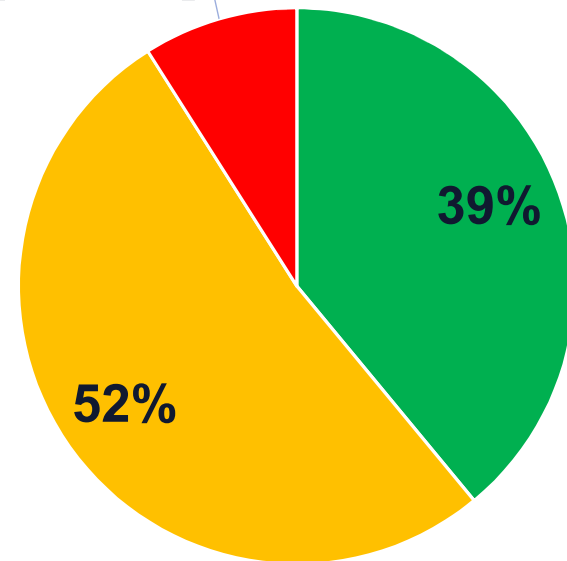
# The CHAOS Manifesto (2015)

Waterfall



■ Successful ■ Challenged ■ Failed ■

[VALUE] Agile



■ Successful ■ Challenged ■ Failed ■

# Agile Frameworks share 3 pillars

Transparency

Inspection

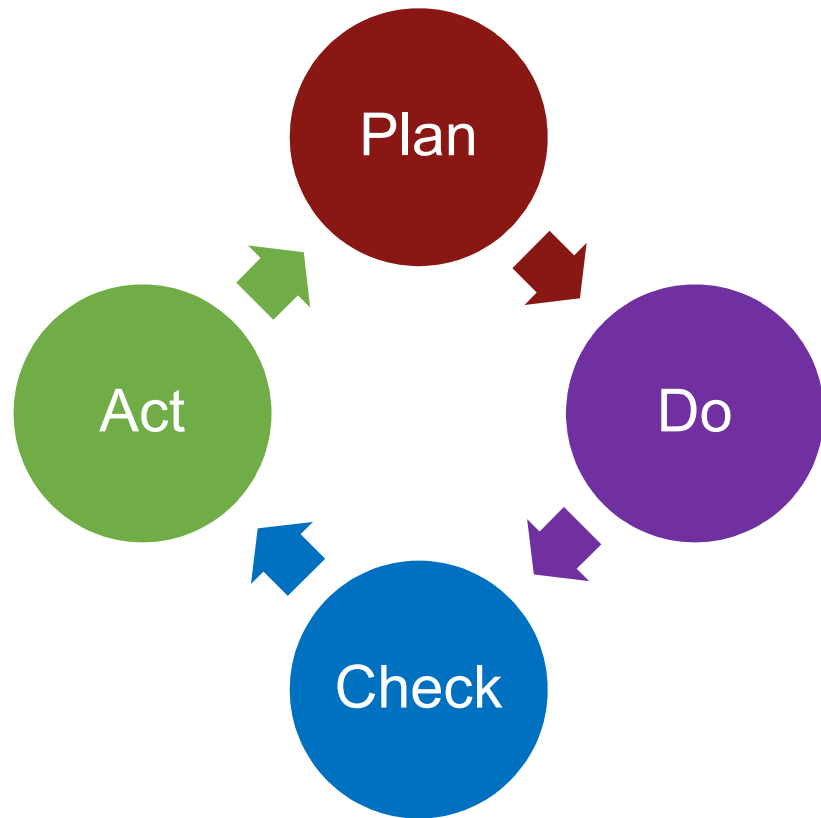
Adaptation

# Act on the Feedback

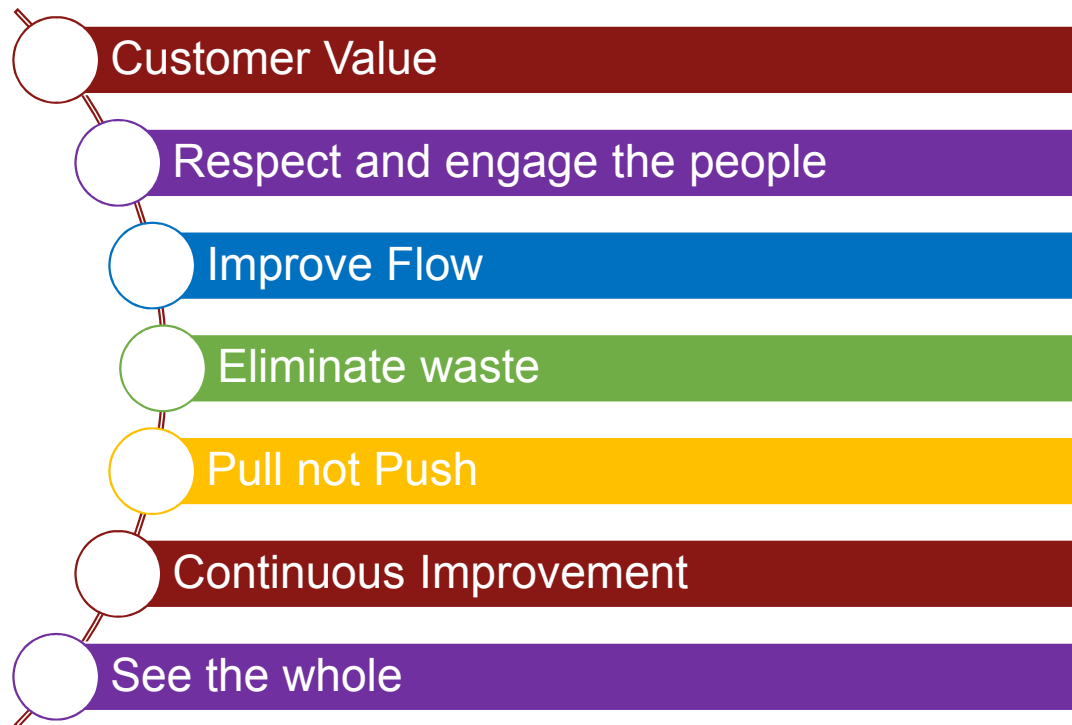
- Measure
- Understand
- Act



# Continuous Improvement



# Lean Principles



# Agile Manifesto...

... we have come to value:

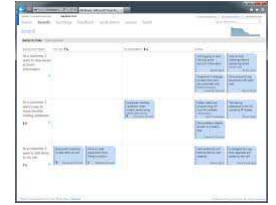
Individuals and interactions over processes and tools

Working software over comprehensive documentation

Customer collaboration over contract negotiation

Responding to change over following a plan

# Frameworks Overview



**Plan Driven**

**Predictive**

Prince 2

PMBOK

CMMI

Iterative

**Value Driven**

**Empirical**

Scrum

XP

Kanban



# Range of Agile Frameworks

Prescriptive

Adaptive



RUP	DSDM	XP	Scrum	Kanban	None
120+		12	11	3	0



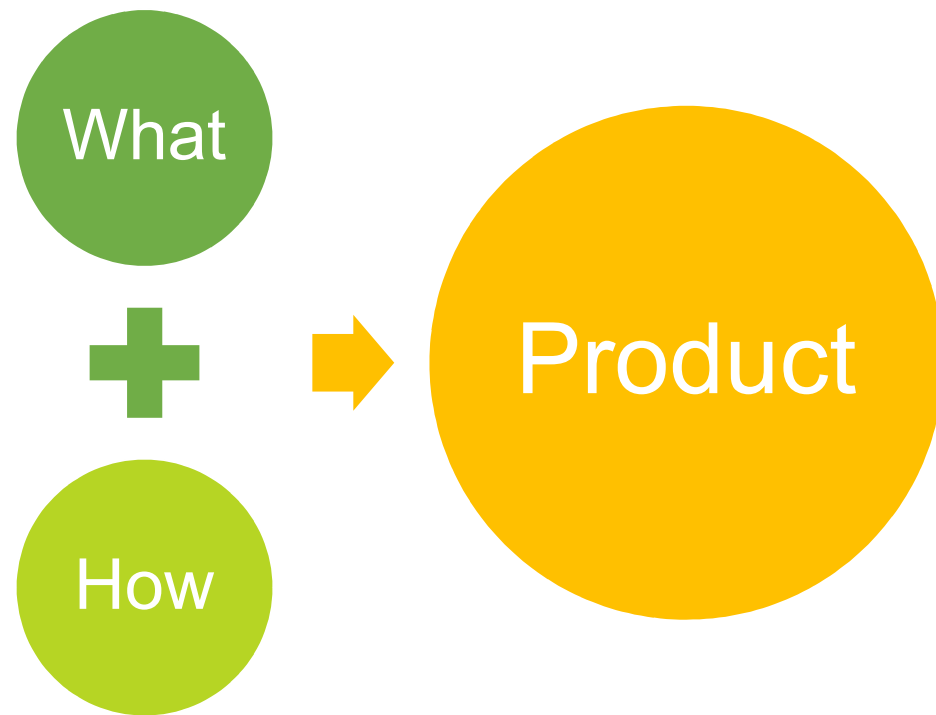
Subtractive



Additive

# Focus is on Delivering Business Value

- Adaptive to demands of the Business
- Put the business in the Driving Seat
  - Business own the “What”
  - IT own the “How”
- Focus on delivering a working product

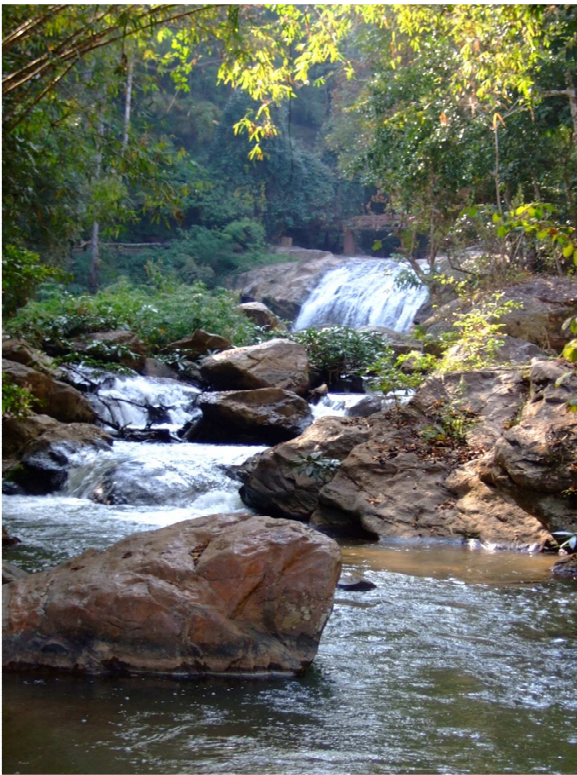


**However beautiful  
the strategy, you  
should occasionally  
look at the results.**

**Winston Churchill**



# Focus on flow



# Kanban (Signal Flow)

- Visualise the work
- Limit **Work In Progress**
- Measure and Manage flow
- Make process and policies explicit
- Implement Feedback loops
- Improve collaboratively, evolve experimentally



# Flow – 2 main metrics

## Lead Time

- The time from concept to customer
- Can be measured across lanes

## Cycle Time

- How frequently your product is finished

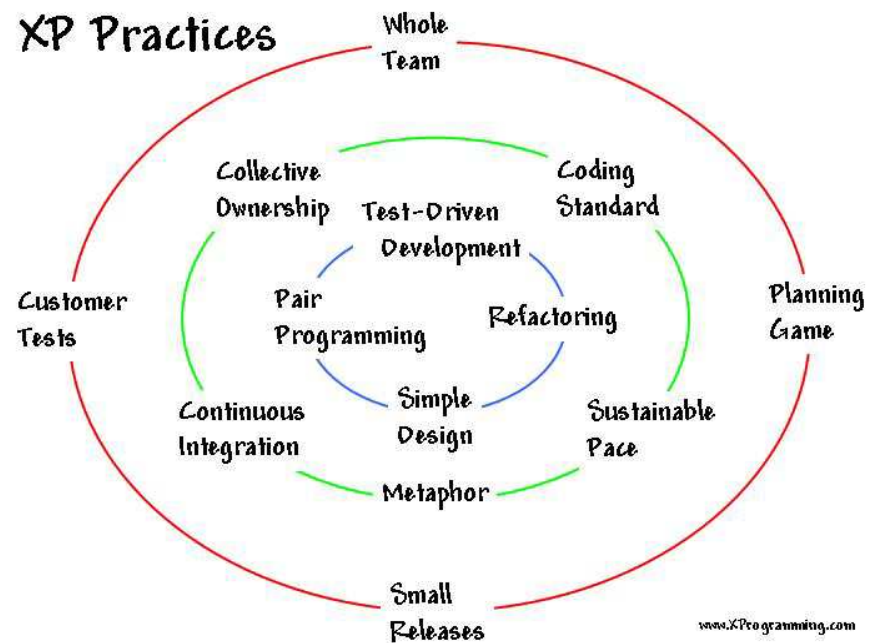
Do you know  
this for your  
products?

Would it help ?

# XP (eXtreme Programming)

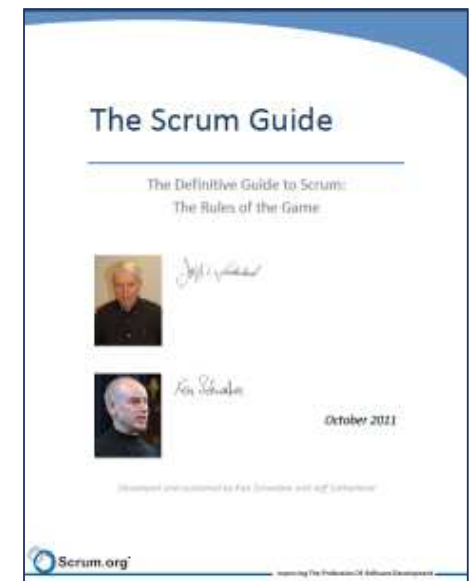
Comes from an engineering perspective

- Simplicity
- Communication
- Feedback
- Respect
- Courage



# Scrum is ...

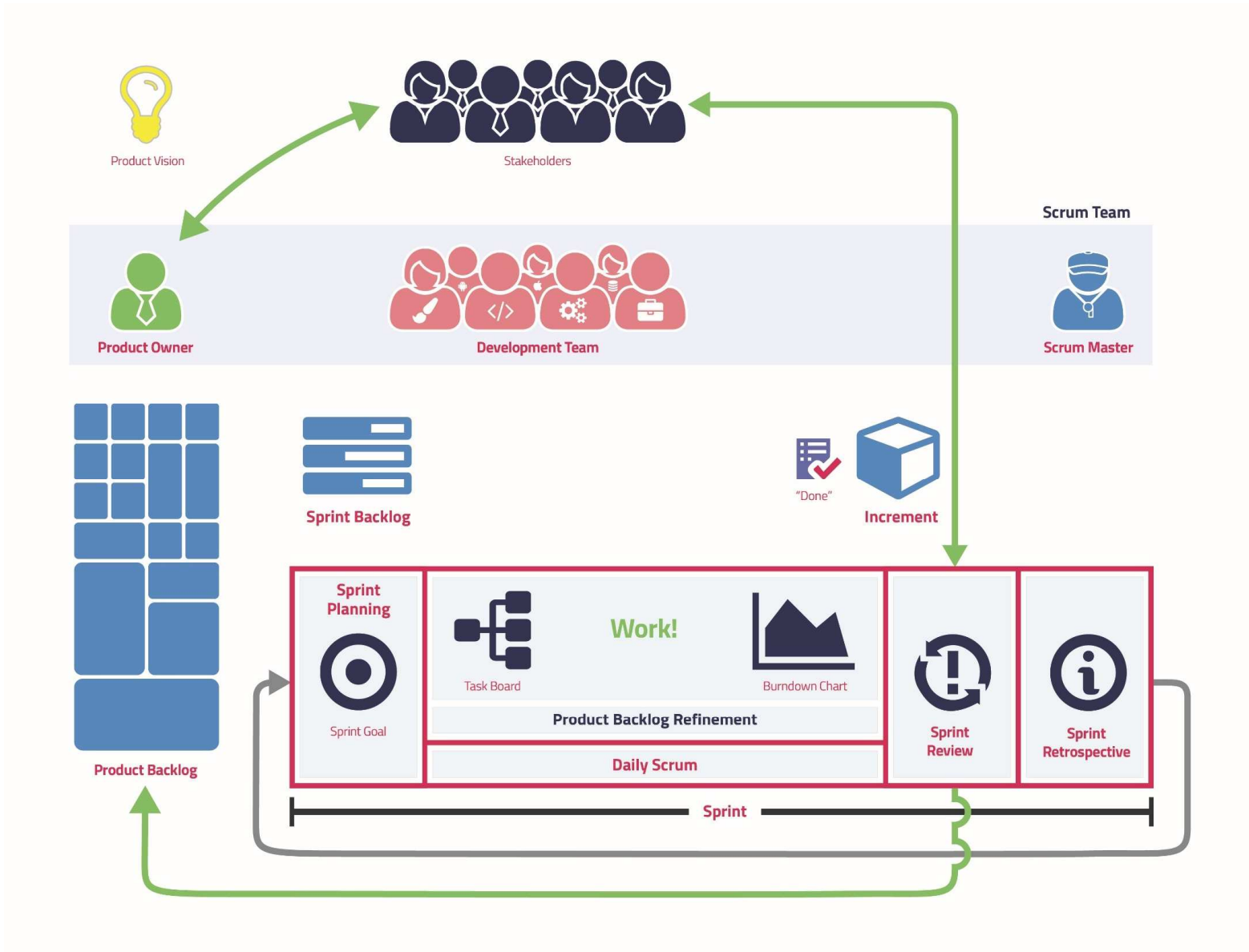
- An framework for Agile software development
- A set of rules defined in the Scrum Guide
- Easy to learn but difficult to master



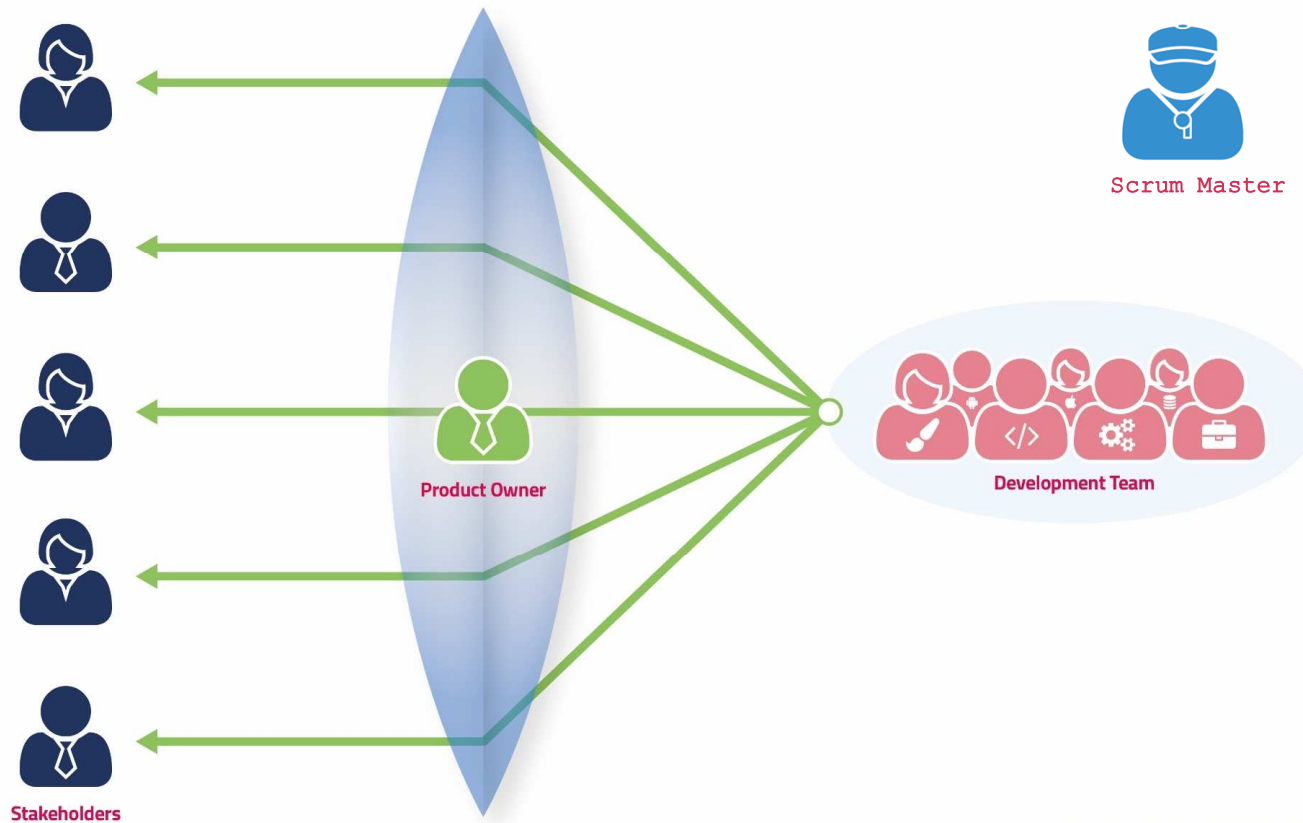
<http://scrumguides.org/>



# Scrum

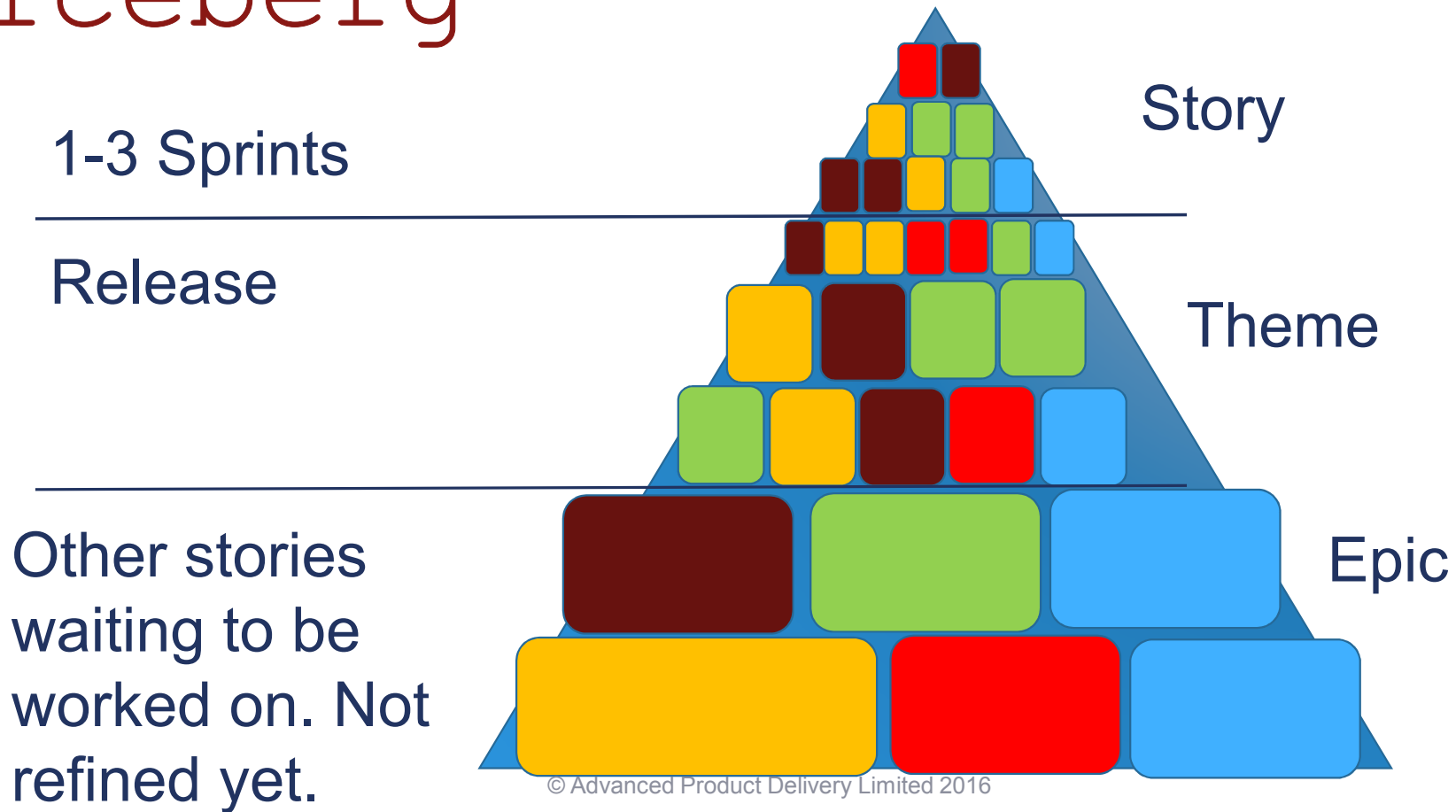


# Roles



# The Product Backlog Iceberg

Order



# Working with Big Data

- Data is Different
- But not that much!
- How to implement Agility with Big Data
- ...

# Key aspects

- Team Practices – Communicate
- Iterative, Incremental – “Chunking”
- Focus on user visible Value
- Be “Done”
- Document continuously
- Test and deploy automatically
- Bring the end users closer - Collaborate

# “Done” with Big Data

- Built/Coded
- Tested at volume
- Deployed
- Rollback tested
- Performance tested
- Security tested





Done ( ) ;



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