# Are you Anti-Agile?

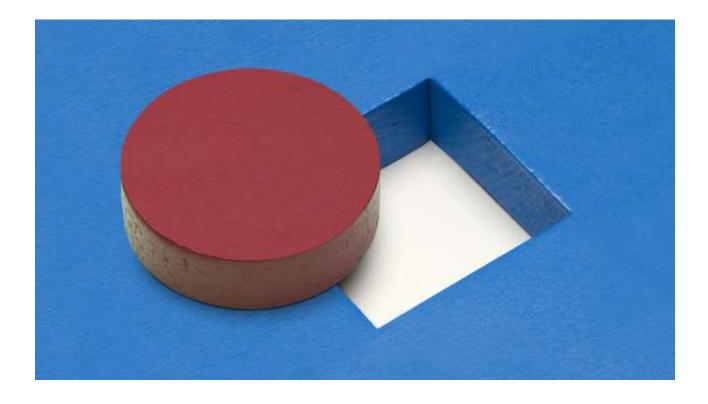
Niall Cooling Feabhas Limited





# "something that displays opposite, reverse, or inverse characteristics of something else"

The American Heritage Science Dictionary





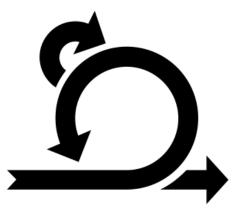




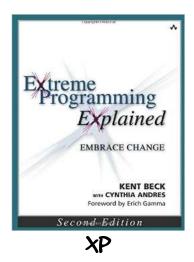
Manifesto

Principles

# What is Agile to you?



Scrum





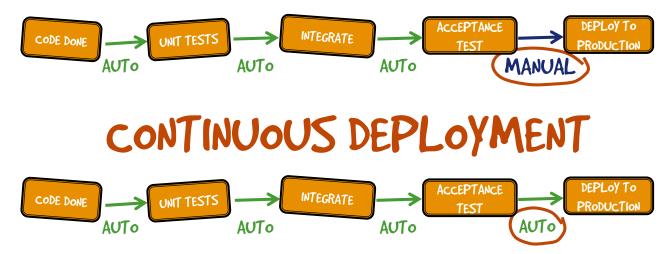
# **Principles behind the Agile Manifesto**

We follow these principles:

Our highest priority is to satisfy the customer through early and continuous delivery of valuable software.

http://agilemanifesto.org/principle

# CONTINUOUS DELIVERY



http://blog.crisp.se/2013/02/05/yassalsundman/continuous-delivery-vs-continuous-deployment

### Amazon May Deployment Stats

(production hosts & environments only)

11.6 seconds

Mean time between deployments (weekday)

1,079

Max # of deployments in a single hour

10,000

Mean # of hosts simultaneously receiving a deployment

30,000

Max # of hosts simultaneously receiving a deployment

Jon Jenkins - Amazon.com (20



"There are known knowns. These are things we know that we know. There are known unknowns. That is to say, there are things that we know we don't know. But there are also unknown unknowns. There are things we don't know we don't know."



#### Armour's five orders of Ignorance

4	<b>Meta-ignorance</b> Not knowing there are orders of ignorance	
3	Lack of methodology No tools or methods for reducing your ignorance levels	
2	<b>Lack of awareness</b> You don't even know the questions to ask	"unknown unknowns"
l	Lack of knowledge questions to which you do not know the answer	"known unknowns"
0	Lack of ignorance codified knowledge that can be made to execute	"known knowns"
		Communications of the ACM, Vol. 43 No

10

#### Estimating z<sup>nd</sup>-order Ignorance

z<sup>nd</sup>-order ignorance (RISK)

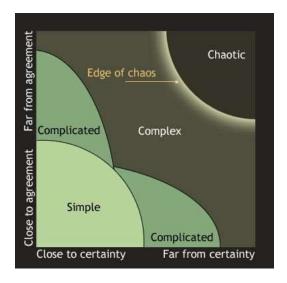


Stability Maturity Complexity Experience

l

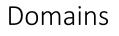
"INNOVATION"

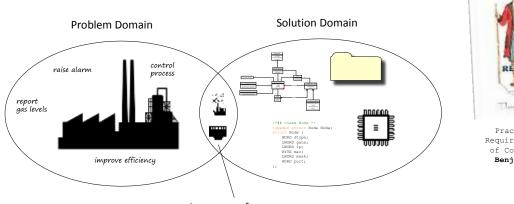
#### THE STACEY MATRIX (1993)



#### CYNEFIN FRAMEwoRk Complex Unknown unknowns probe-sense-respond Emergent Practice Chaotic Chaotic

Unknowable unknowns adt-sense-respond Novel Practice Chaotic Unknowable unknowns sense-categorise-respond Good Practice





Almandy Almandy Descritical REQUIREMENTS

Practical Software Requirements: A Manual of Content and Style **Benjamin L Kovitz** 

A system software specification is a design for how the system's I/O devices are to behave; an interface design.

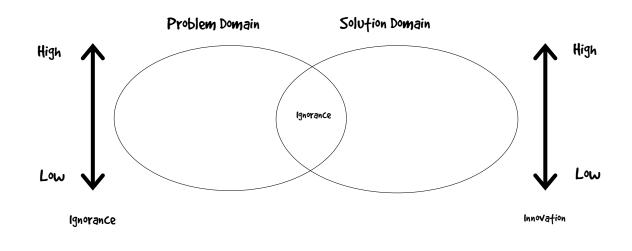
# obeng project types

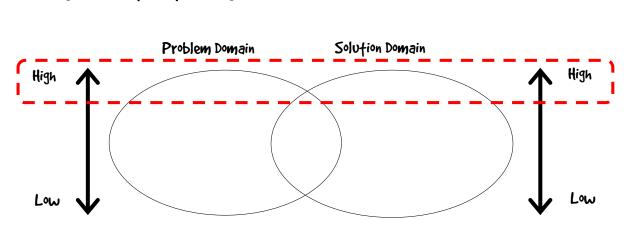


#### "Painting by numbers" "Movie" "Quest" "Walking or Lost in the fog"

Slide 22

#### Ignorance and Innovation

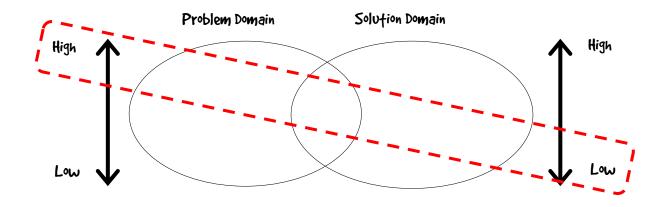




Walking or Lost in the fog

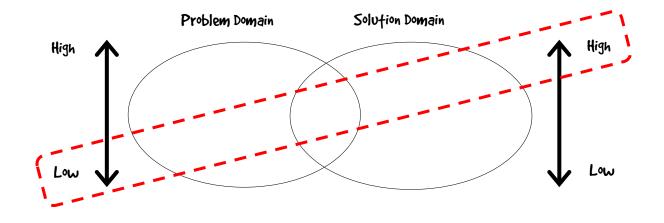


#### Movie





#### quest



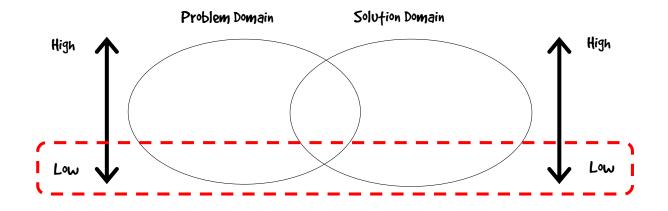


Hoover Model 0 1908



Dyson DCOI 1993

# Painting by numbers

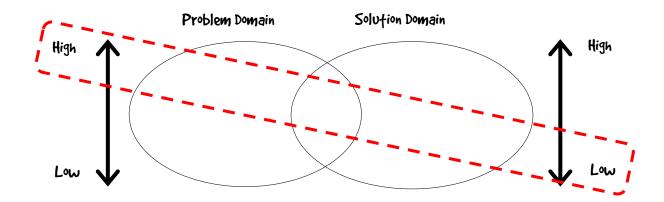




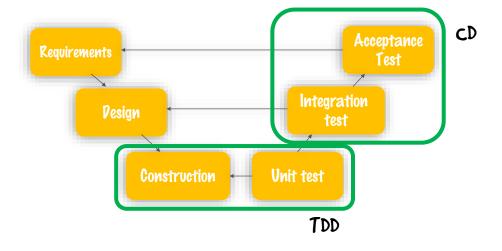
Shuanghuan CEO

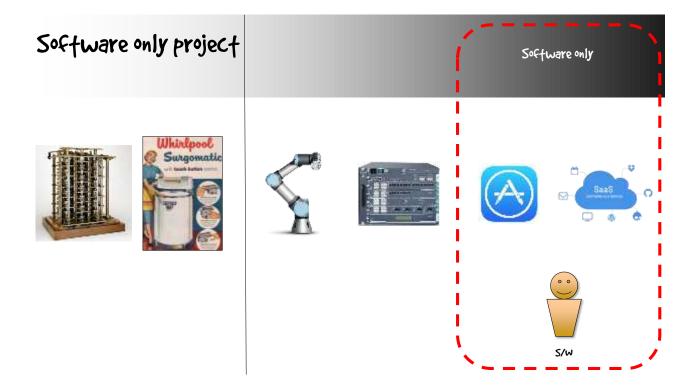
# What does Agile assume?

Movie



#### TDD & Confinuous Design

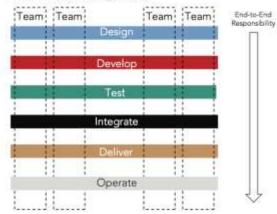




## Functional vs. Cross-Functional Organization

#### Functional Organization

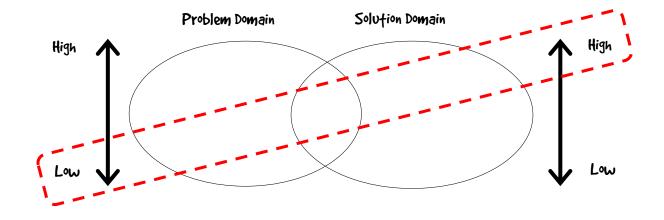
Team	Design
Team	Develop
Team	Test
Team	Integrate
Team	Deliver
Team	Operate



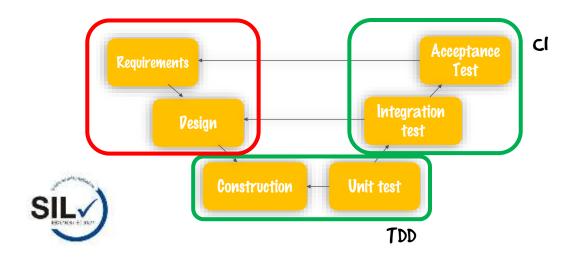
Cross-Functional Organization

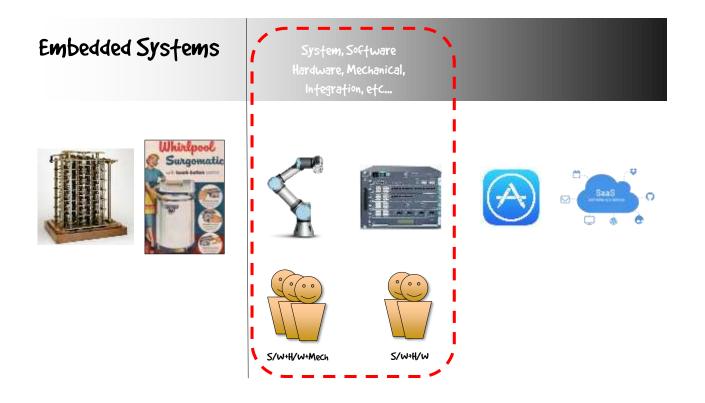
# So what about embedded?

## Quest



compliance





# So can Embedded be Agile?

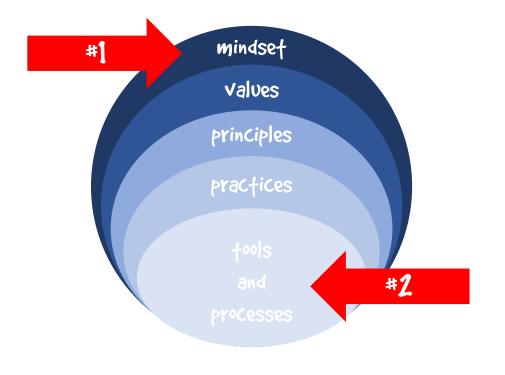


# Agile "by the book" No, not really...

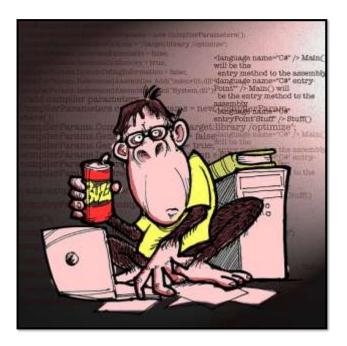
# fundamentally?

of course...

# So what's stopping you?



AWA





# Homework



# I. How long to make a change?

weeks, days, minufes, seconds?

# z. How many manual steps? all of them?

# Agile; what it's not ...



It is not the strongest of the species that survives, nor the most intelligent that survives. It is the one that is most adaptable to change.

Leon C. Megginson, 1963