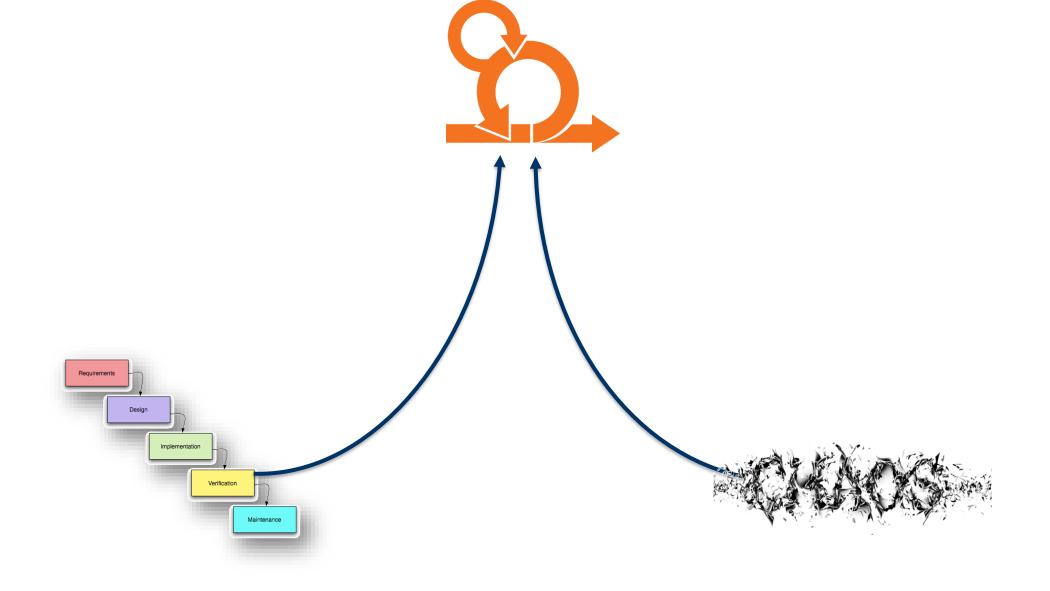
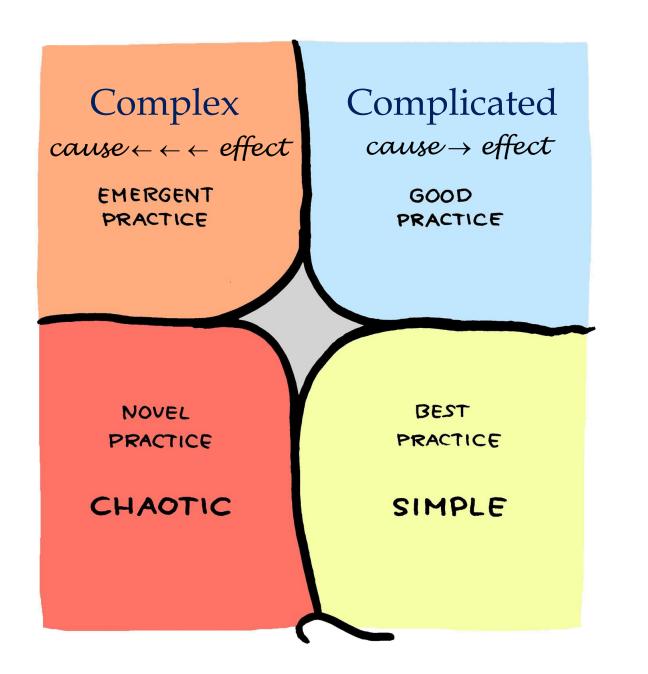




Hybrid Approaches Scrum Methodology. Roles

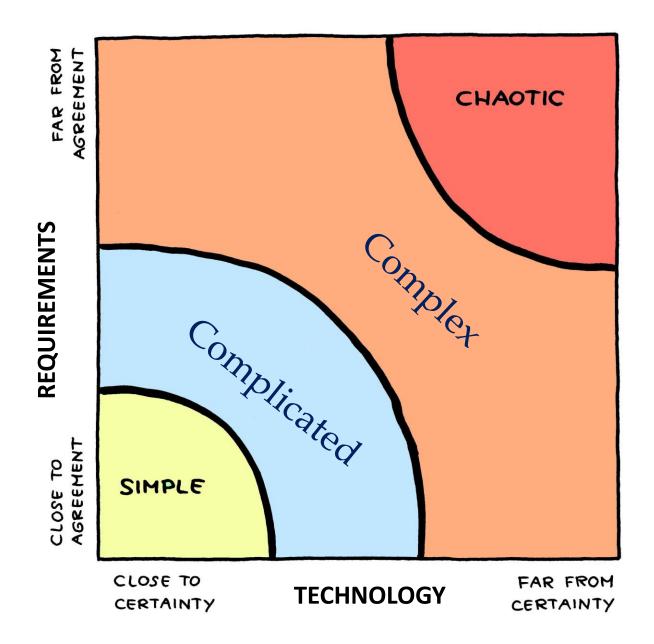


"be more agile!"

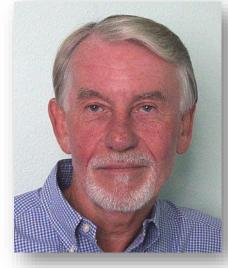


Dave Snowden





Ralph D. Stacey



Complicated Complex



Nassim Taleb



Complicated

Complex

CAR

HOUSE

BOOK

COMPUTER

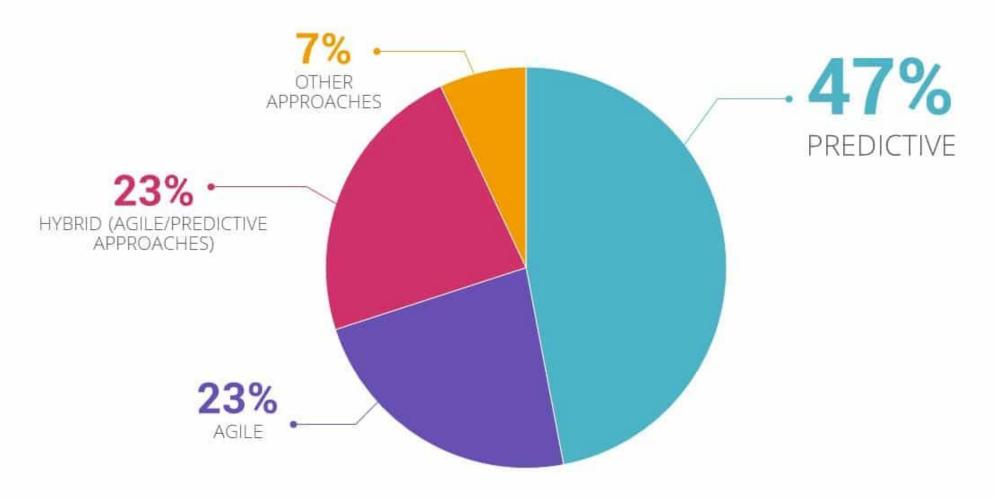
TRAFFIC

HOUSEHOLD

THOUGHTS

SOFTWARE

DEVELOPMENT APPROACH USED



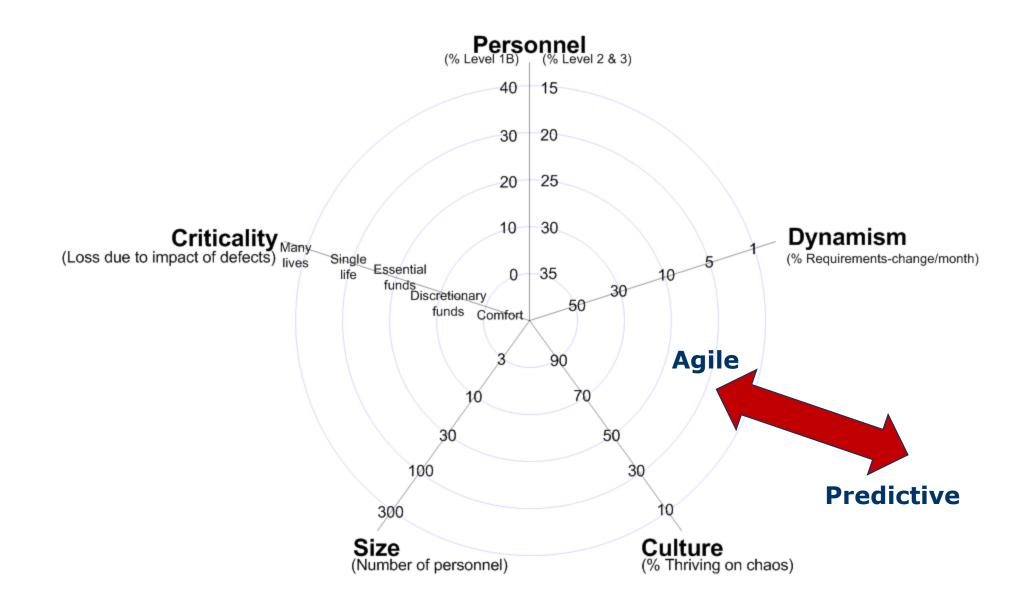
Source: PMI 2018 Pulse of The Profession

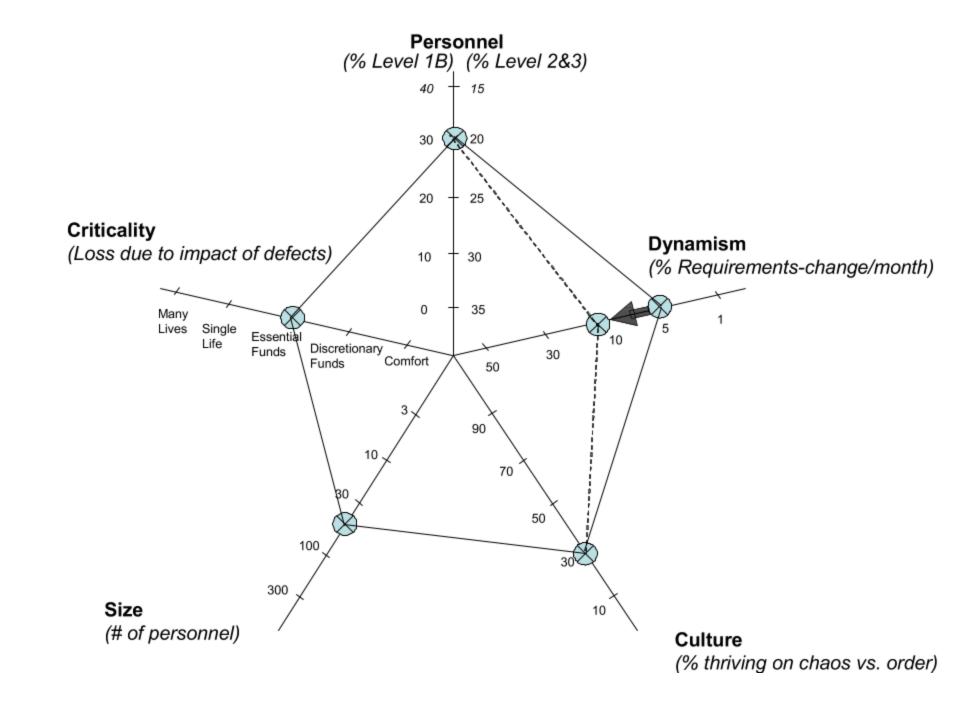
WWW.VITALITYCHICAGO.COM

Levels of Software Method Understanding and Use

Level	Characteristics	
3	Able to revise a method (break its rules) to fit an unprecedented new situation	
2	Able to tailor a method to fit a precedented new situation	
1A	With training, able to perform discretionary method steps (e.g., sizing stories to fit increments, composing patterns, compound refactoring, complex COTS integration). With experience can become Level 2.	
1B	With training, able to perform procedural method steps (e.g. coding a simple method, simple refactoring, following coding standards and CM procedures, running tests). With experience can master some Level 1A skills.	
-1	May have technical skills, but unable or unwilling to collaborate or follow shared methods.	

Factor	Agility Considerations	Discipline Considerations
Size	Well-matched to small products and teams. Reliance on tacit knowledge limits scalability.	Methods evolved to handle large products and teams. Hard to tailor down to small projects.
Criticality	Untested on safety-critical products. Potential difficultiies with simple design and lack of documentation.	Methods evolved to handle highly critical products. Hard to tailor down to low-criticality products.
Dynamism	Simple design and continuous refactoring are excellent for highly dynamic environments, but a source of potentially expensive rework for highly stable environments.	Detailed plans and Big Design Up Front excellent for highly stable environment, but a source of expensive rework for highly dynamic environments.
Personnel	Requires continuous presence of a critical mass of scarce Cockburn Level 2 or 3 experts. Risky to use non-agile Level 1B people.	Needs a critical mass of scarce Cockburn Level 2 and 3 experts during project definition, but can work with fewer later in the project—unless the environment is highly dynamic. Can usually accommodate some Level 1B people.
Culture	Thrives in a culture where people feel comfortable and empowered by having many degrees of freedom.	Thrives in a culture where people feel comfortable and empowered by having their roles defined by clear policies and procedures.





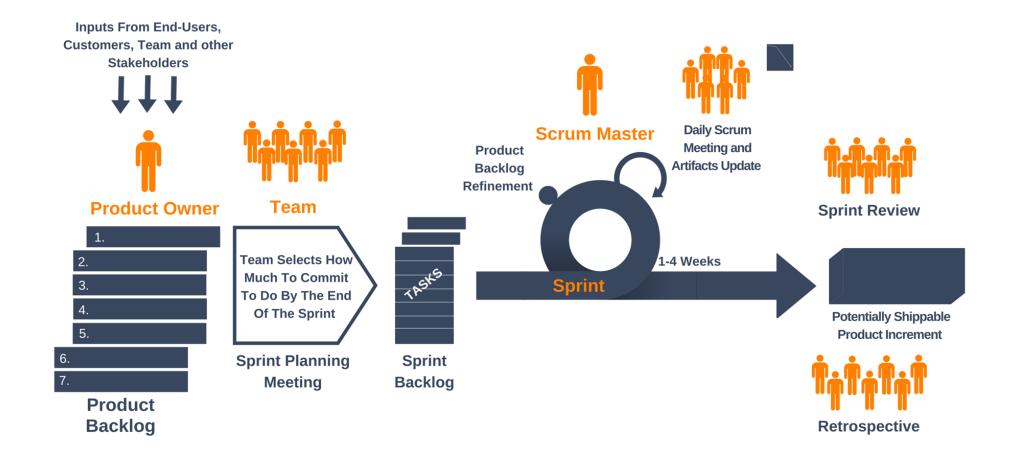
"We can never direct a living system, only disturb it and wait to see the response...



Christopher Avery

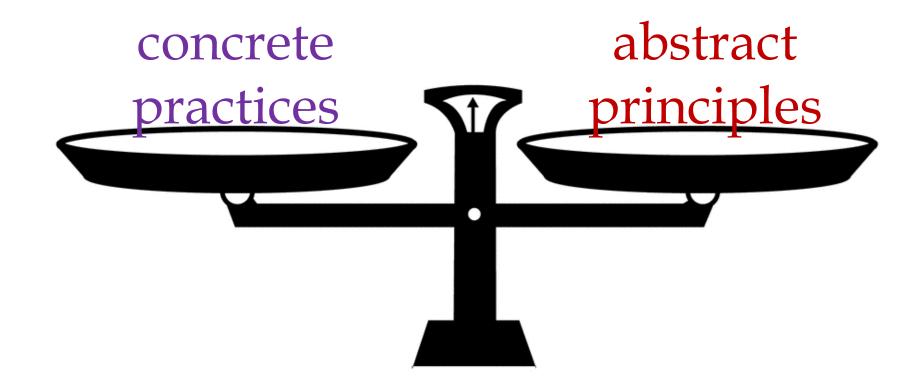
We can't know all the forces shaping an organization we wish to change, so all we can do is provoke the system in some way be experimenting with a force we think might have some impact, then watch to see what happens."

Scrum Methodology



SCRUM

.... hits an ideal balance between



SCRUM

concrete abstract principles

SCRUM

learn fast?

is a **lightweight** framework designed to help

small, close-knit teams of people

 7 ± 2

develop complex products.

remember Cynefin framework

Scrum Pillars

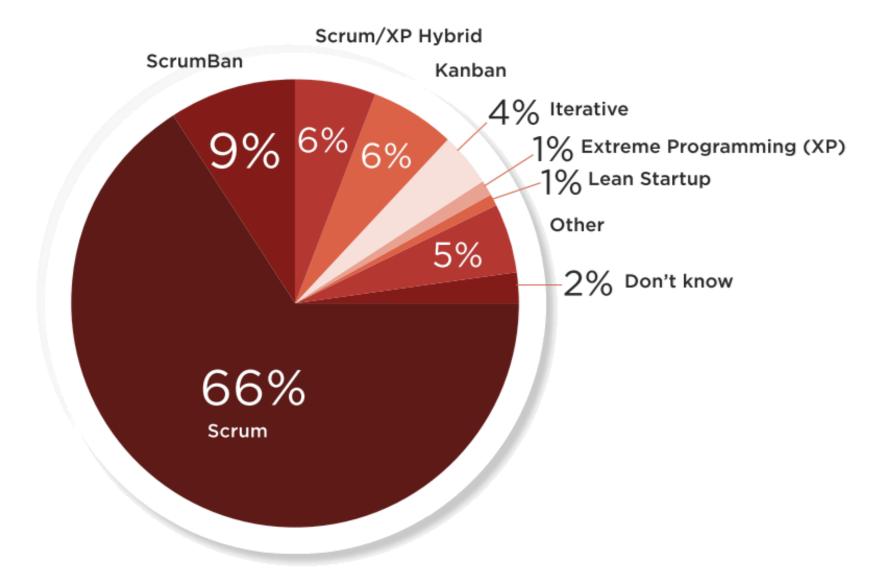
The pillars of Scrum

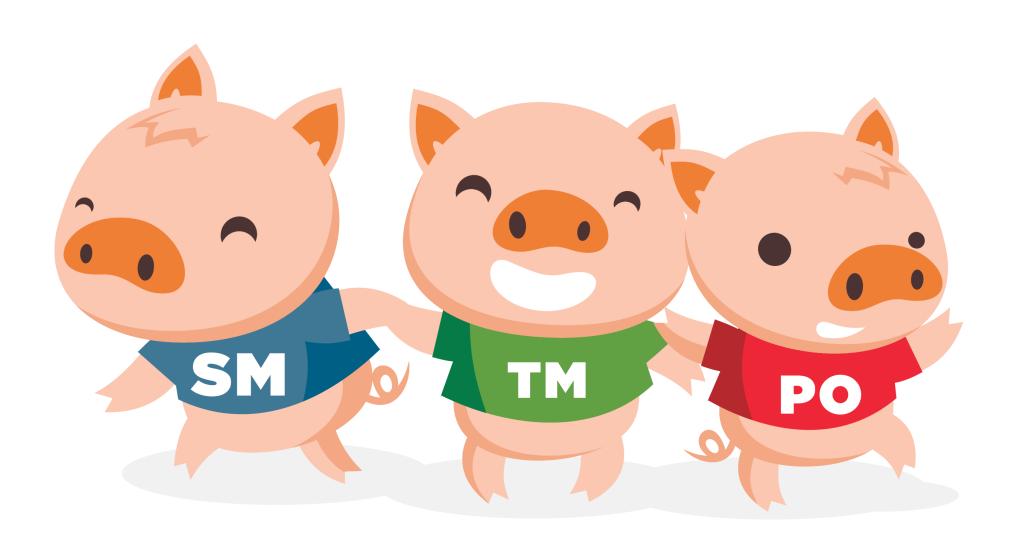
- Transparency
- Inspection
- Adaptation

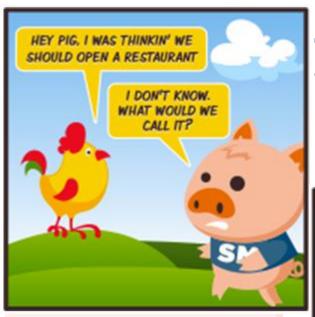
They refer to

- Process
- Results









SM

rum Roles





Product Owner

Business objectives
Project objectives

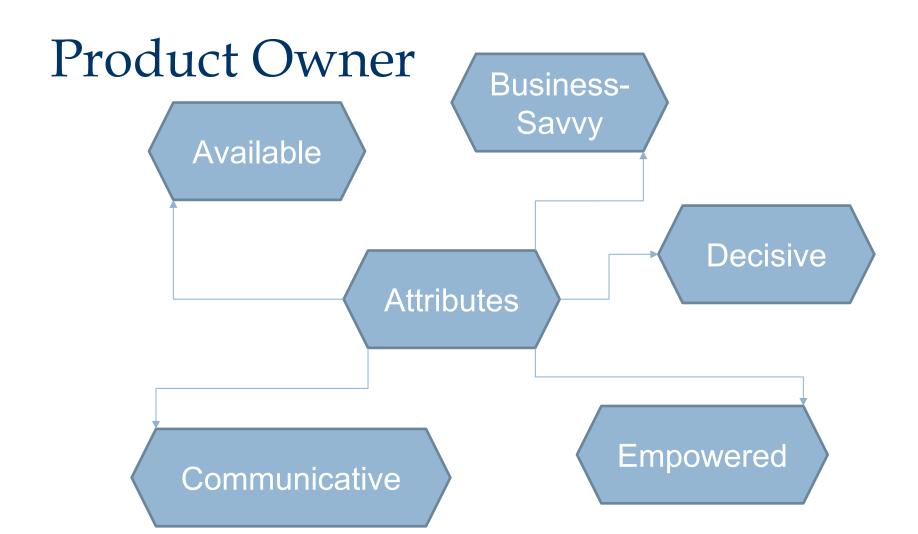
- holds the vision for the product
- represents the interests of the business
- represents the customers
- owns the product backlog
- orders (prioritizes) the items in the product backlog
- creates acceptance criteria for the backlog items
- is available to answer the team members' questions

Features

VS.

User Stories

One person?

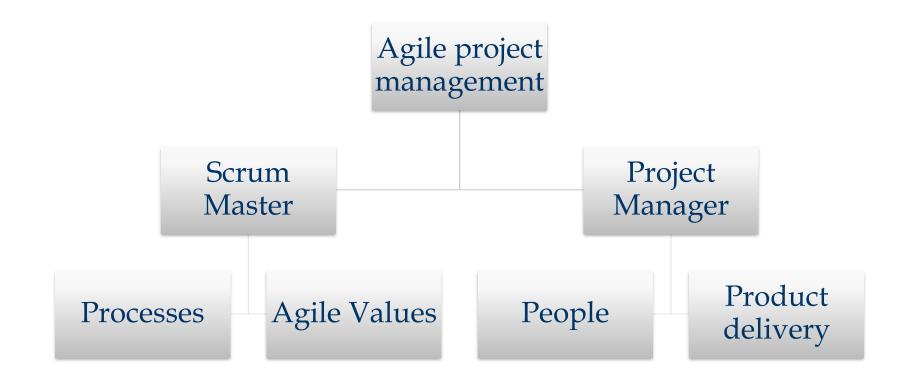


Scrum Master

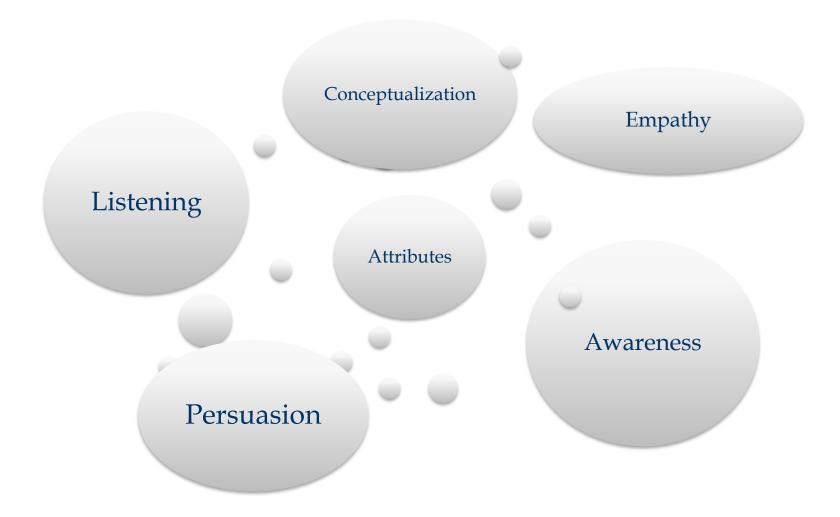
- the team's good shepherd
- coach
- guardian
- facilitator
- scrum expert
- impediment bulldozer

is not a manager!

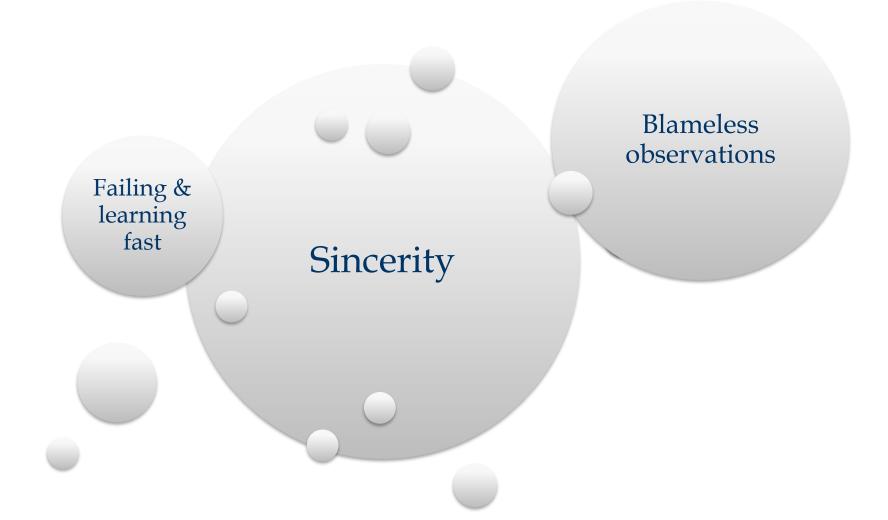
Scrum Master + PM



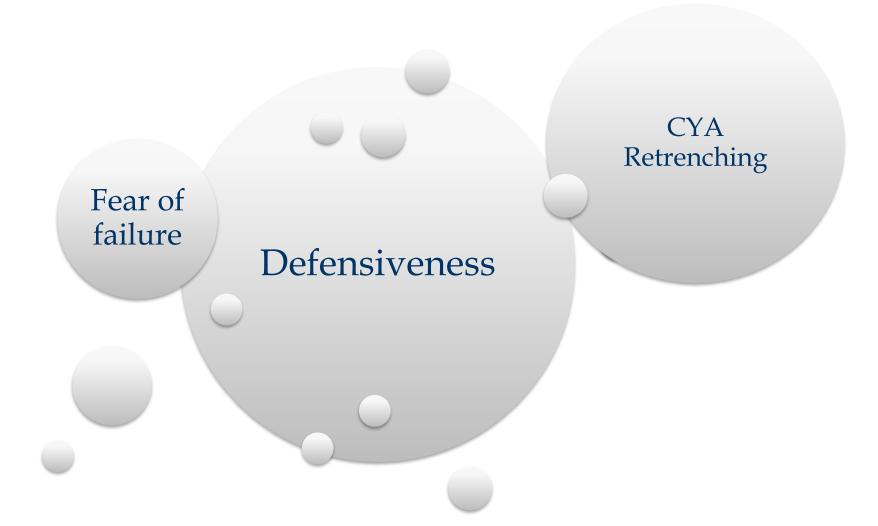
Scrum Master = Servant Leader



Scrum Master Encourages



Scrum Master Discourages



Team Member

- responsible for completing user stories to incrementally increase the value of the product
- self-organizes to get all of the necessary work done
- creates and owns the estimates
- owns the "how to do the work" decisions
- avoids siloed "not my job" thinking

The team responsibilities



The team motivation

Feedback Recognize Motivation Persuade performance Respect