







Redefining the Traditional View of Risk,

Mark Summers



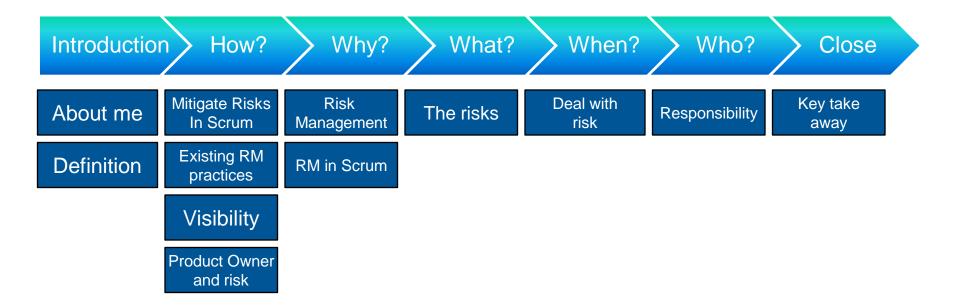
#### Story Map of this Session











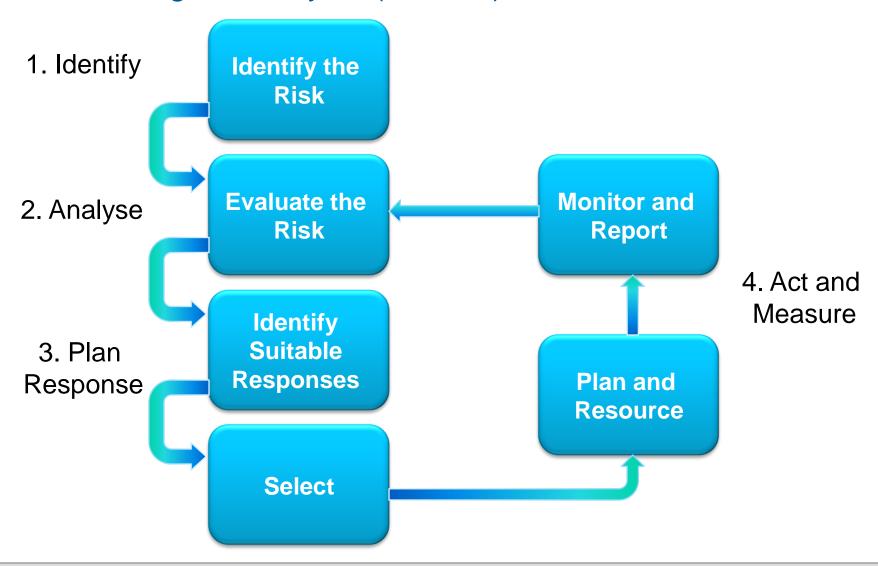
### Risk is uncertainty,

the difference between the expected and actual outcome

Risk Management is the activity by which we manage a project's exposure to Risk

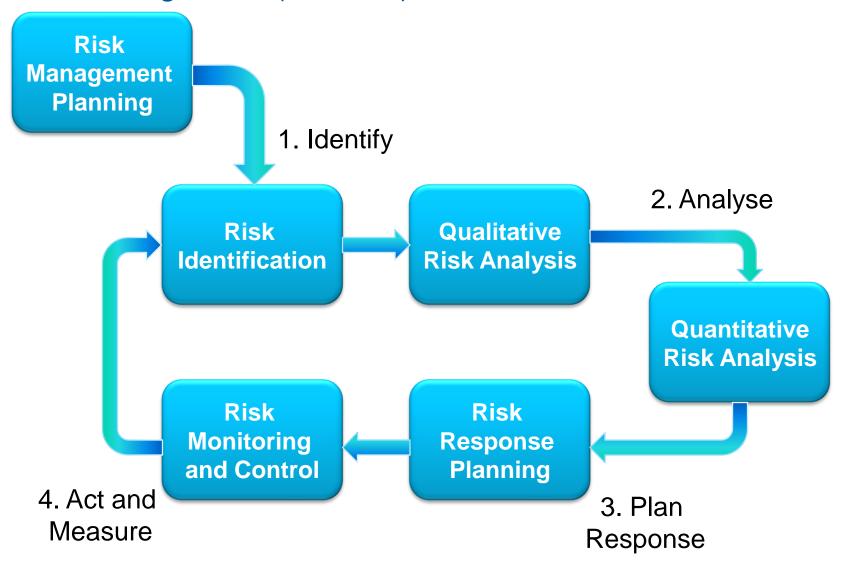


#### Risk Management Cycle (Prince2)





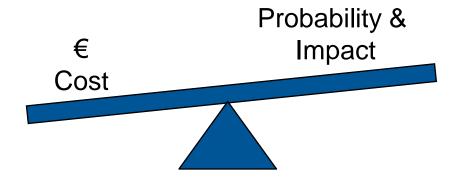
#### Risk Management (PMBOK)







#### Deciding what to do

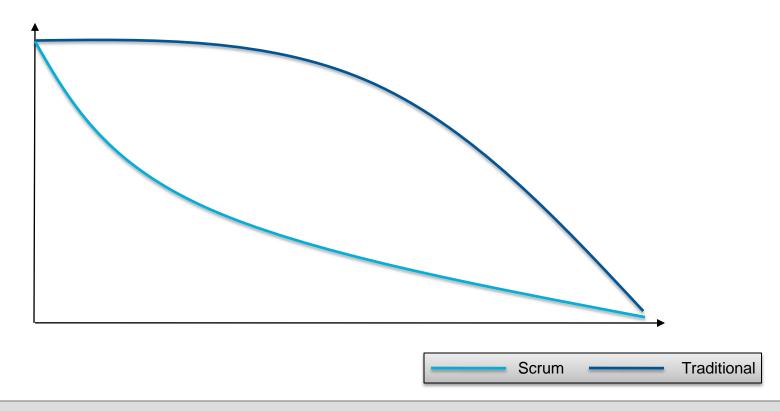


But What about the Benefit?



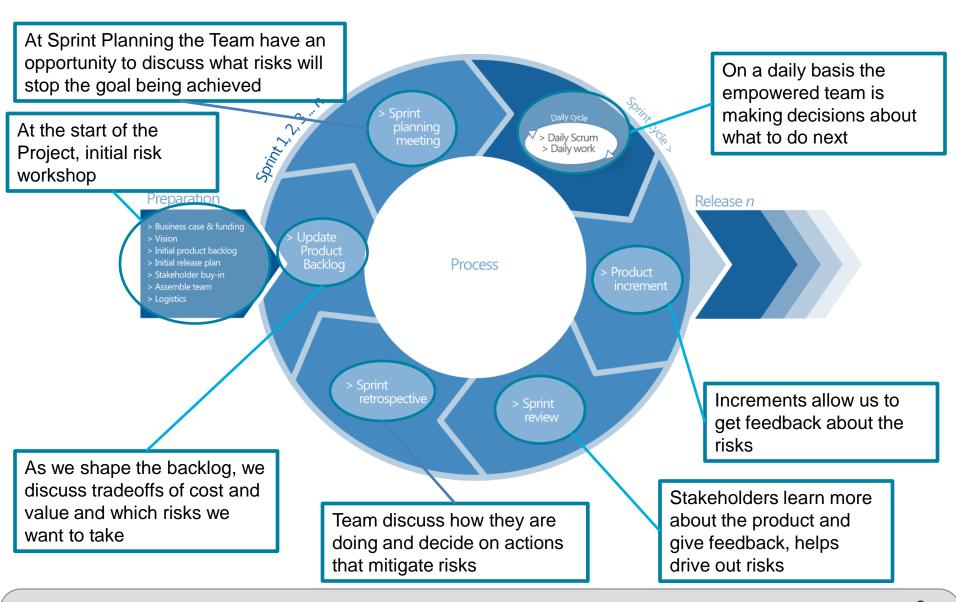
#### Risk in Traditional versus Scrum

# Scrum is a framework for driving down Risk





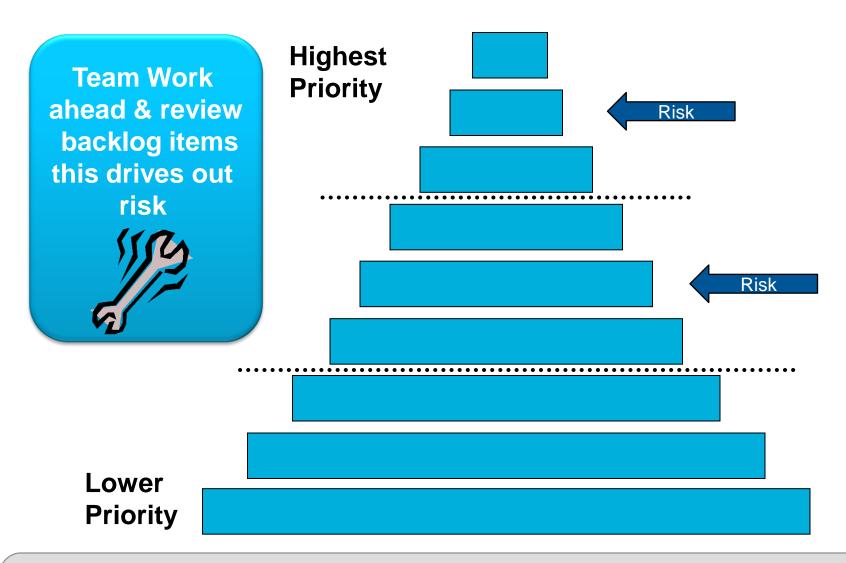
#### Where in Scrum do we deal with Risks





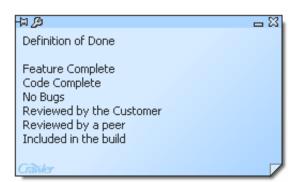


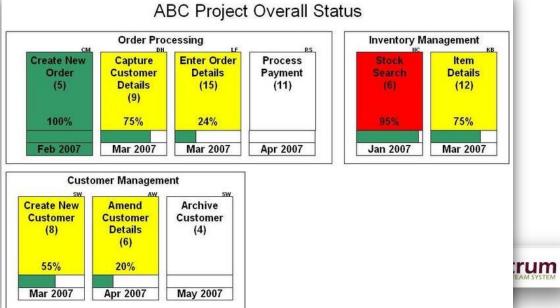
#### The Product Backlog Contains Your Risk





#### **Tools and Visibility**





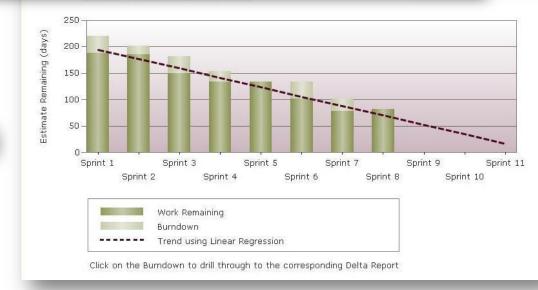
Product Backlog
Burndown

Scrum artefacts

Impediment
List

Sprint Backlog

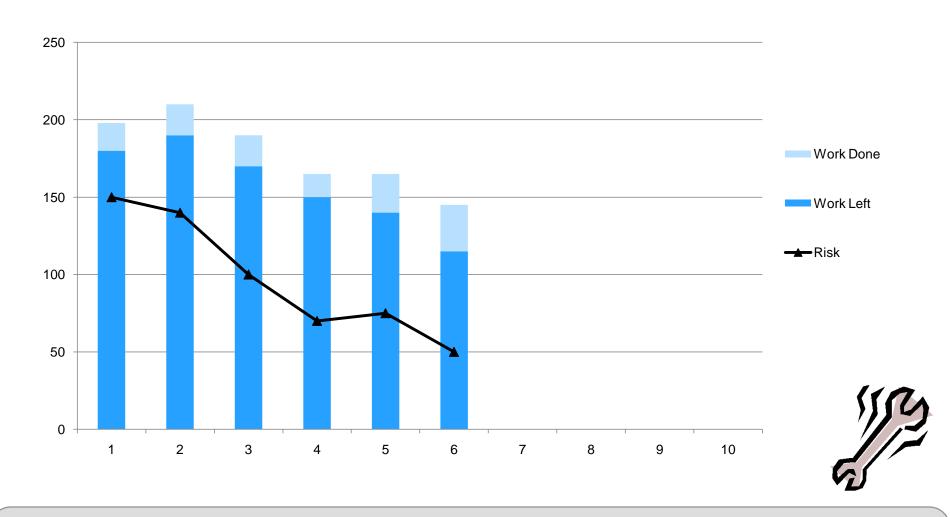
Burndown





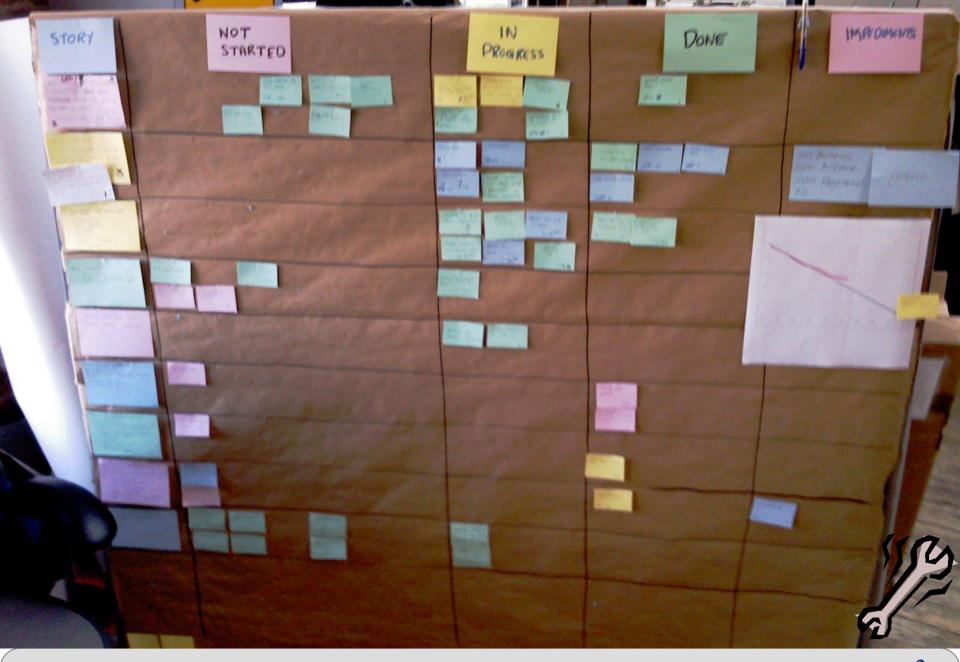


#### Making Decisions that drive down Risk





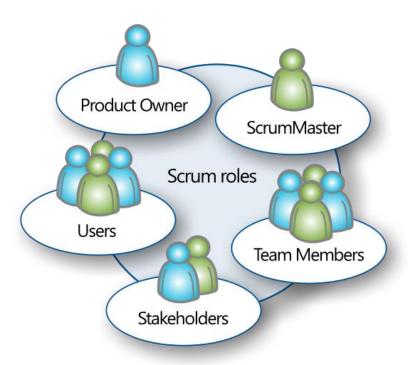




#### **EMC®** Consulting



#### Who is responsible for risk?



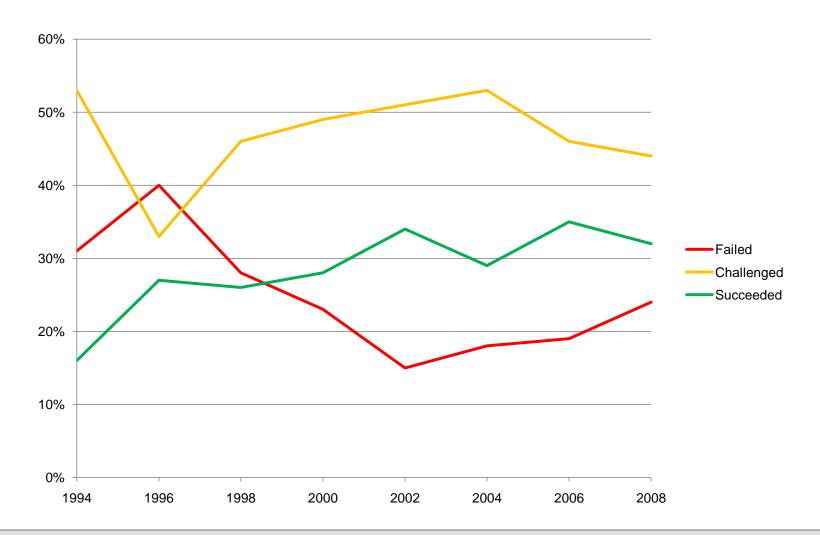


#### Act and Review / **Driving out Risk** Identify measure Plan Strategy Analyse Response Portfolio Product Owner **Portfolio** Analyse **Product Vision Product Owner** Release Planning Analyse Sprint Planning **Team Daily Planning**





#### Chaos Survey - IT Project Success







#### Some Common Risks to IT Projects

**Technica** 

Integration Issues **Buggy Software** 

Scope creep
Inherent Sche
Flaw
Specification
breakdown

**Inherent Schedule** 

Lack of executive sponsorship

Lack of User Involvement

**Changing Market** 

Benefits less than the cost

Emplo Turnov Under **Employee Turnover** nerformance

#### Software Development is a craft

- Development is always new
- We need to take Risks
- Can't remove the uncertainty of outcome
- Use for our competitive advantage





We tend to consider risks that are easily managed or have low impact, but ignore things that will cause the project to fail.





#### Obstacles to Risk Management

- Can do thinking Unwillingness to disturb the rosy picture
  - Don't be a negative thinker
  - Don't raise a problem unless you have a solution
  - Don't say something unless you can prove it is a problem
  - Don't be the spoiler
  - Don't raise a problem unless you want the solution to become your responsibility
- The need to appear in control
- Political power play
- Short term thinking
- Lack of Ownership (It's not my problem)





# Yesterdays problem is tomorrows risk

Risk Workshop







Identify Scenarios



Root causes

- 1. Brainstorm in groups, what are some of the worst catastrophes you have seen?
- 2. What scenarios could you imagine this happening in or have you seen before?
- 3. Pop the why stack to discover the potential root causes of one of your scenarios?



#### A Bad Smell



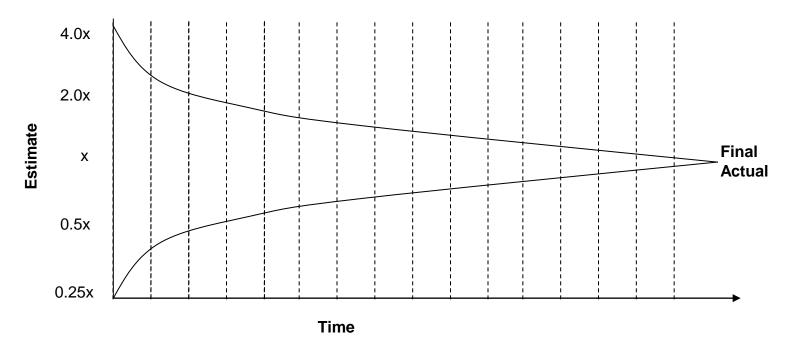


#### Inherent Schedule Flaw



#### Cone of Uncertainty

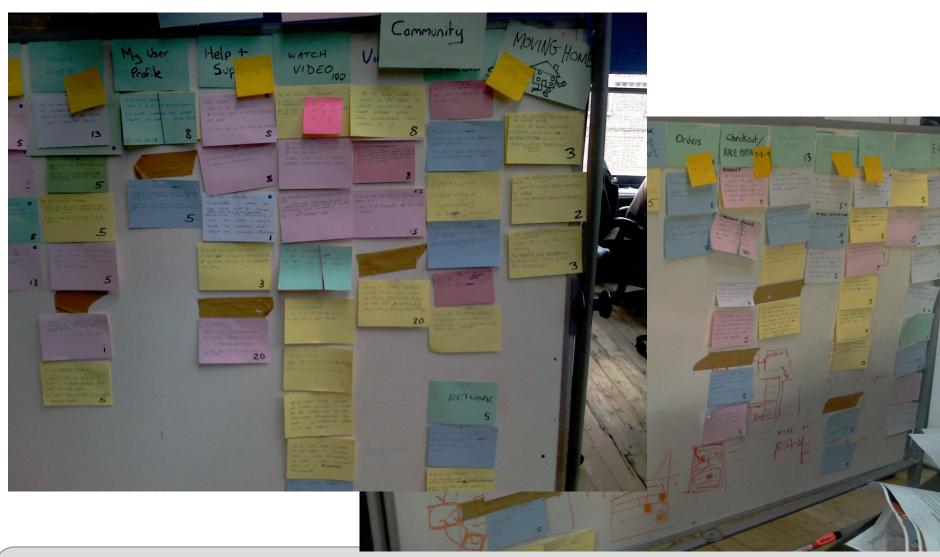
## Accept that software projects are noisy S. McConnell, Software Project Survival Guide (1998)

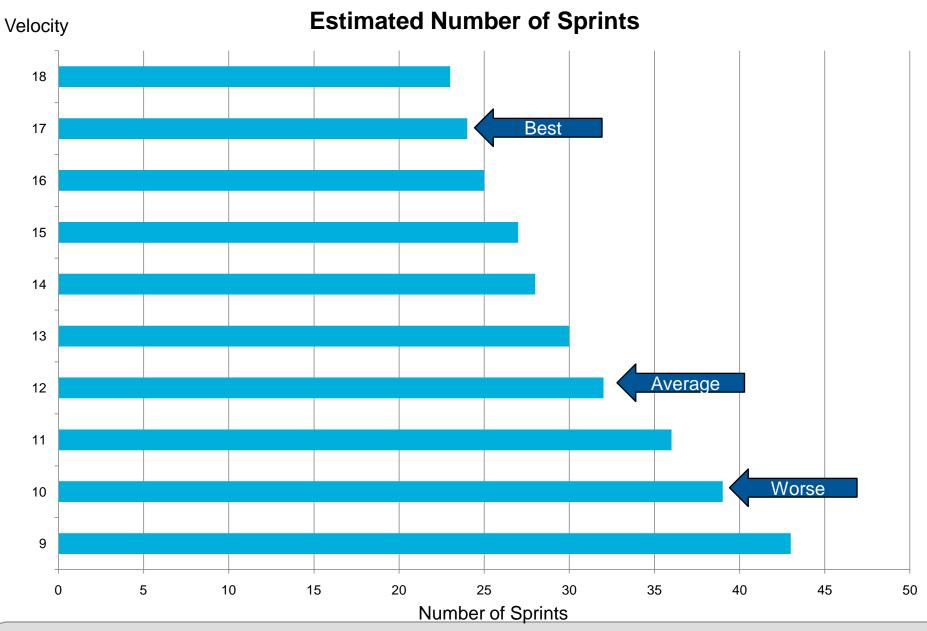


The best Risk Mitigation strategy is incremental Delivery



#### Case Study

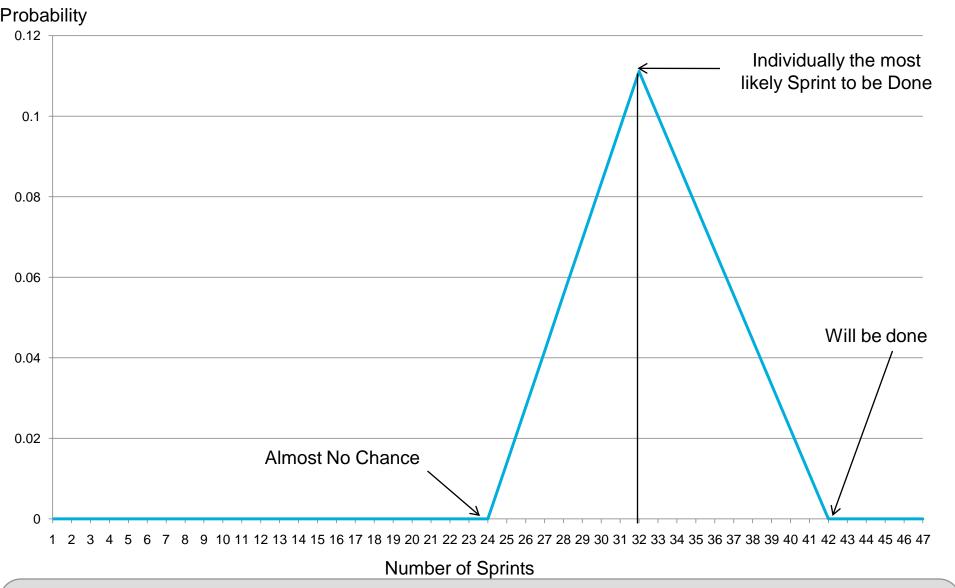








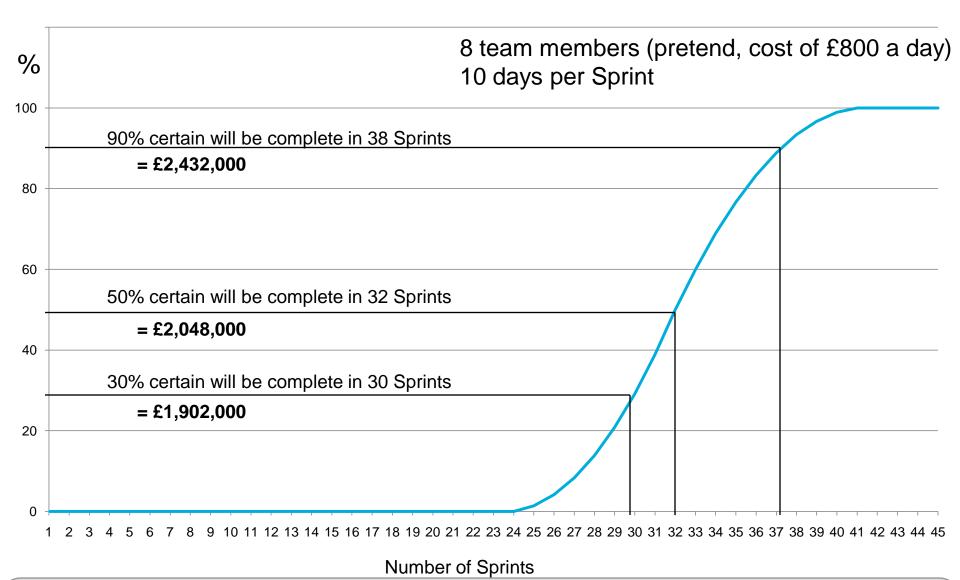
#### Relative Probability of being complete at a given Sprint







#### Cumulative Probability of being complete by Sprint



#### Revisiting the Risks

**Technica** 

Integration Issues **Buggy Software** 

Scope creep
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**Inherent Schedule** 

Lack of executive sponsorship

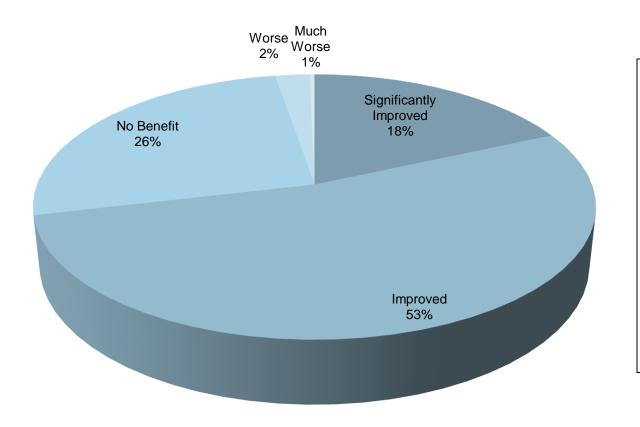
Lack of User Involvement

**Changing Market** 

Benefits less than the cost

Emplo Turnov Under **Employee Turnover △** performance

#### Reduced Risk



Results from over 3000 respondents in 80 Countries who have used Agile in their organisations

Source: VersionOne 3<sup>rd</sup> Annual Survey 2008 "The State of Agile Development "July 2008



#### Summary

- Make uncertainty visible so that informed decisions can be made to use it for your competitive advantage
  - don't seek to control risk

 Create an environment where people can and want to act responsibly

 If Scrum is working in your organisation, you are dealing with risks and you should be getting better



#### Questions?

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www.scrum-master.com



