

SCRUM INTRODUCTION

- Why Agile? Why Scrum?

Agile Manifesto

We are uncovering better ways of developing software by doing it and helping others do it. Through this work 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

That is, while there is value in the items on the right, we value the items on the left more.

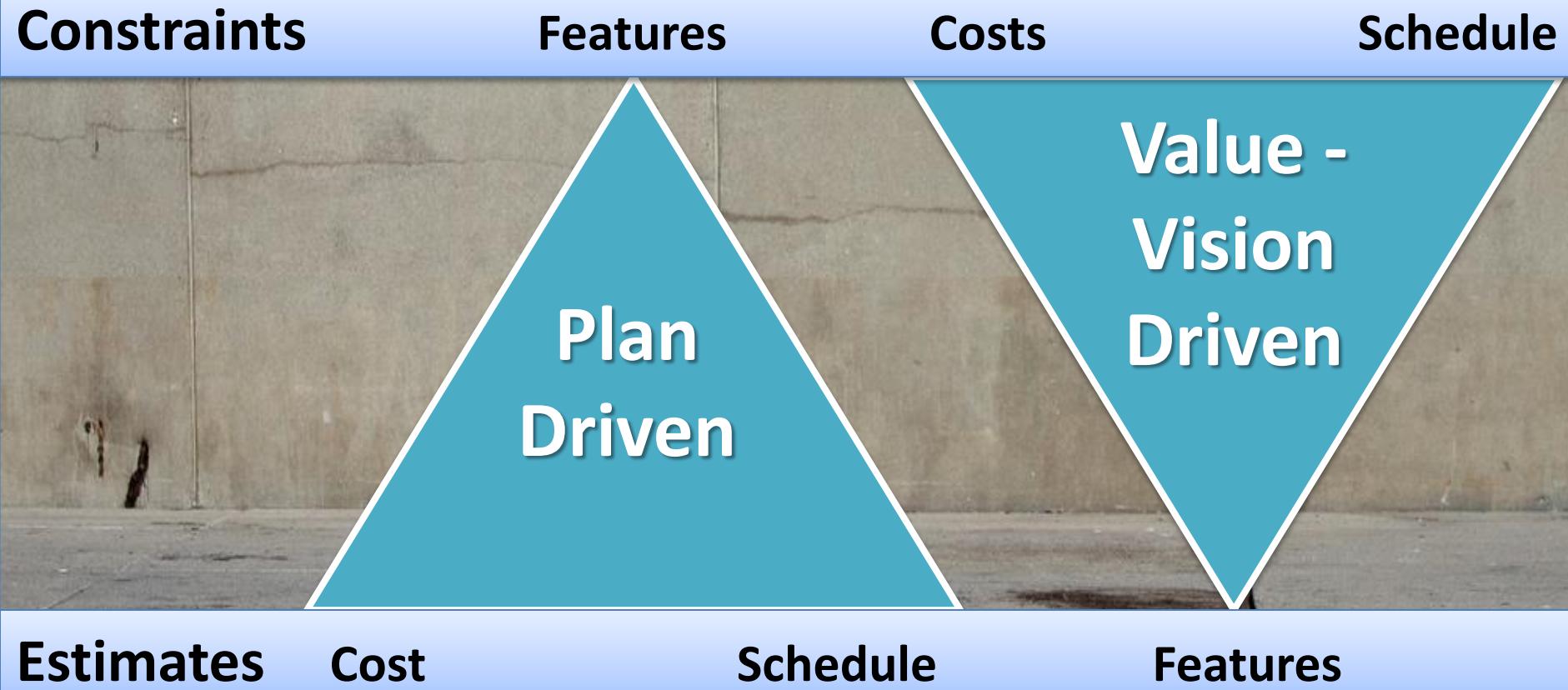
Project Vision Drives the Features

Waterfall

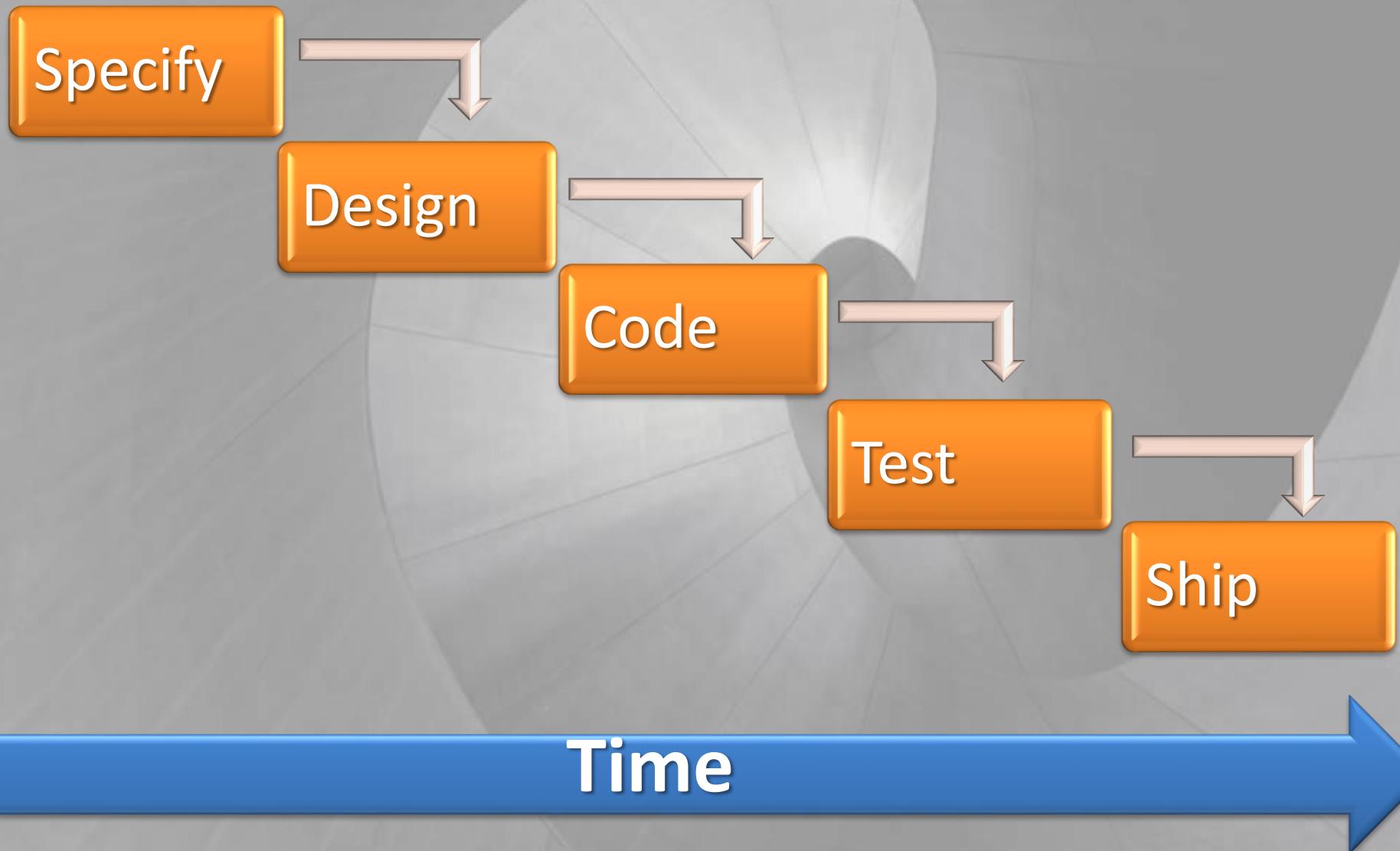
The Plan creates
cost/schedule estimates

Agile

The Vision creates
feature estimates



Waterfall Project Profile



Waterfall Project Profile

Phased

Plan Driven

BDUF

Big Design Up Front

Expensive to change

Contractual

Document-centric

Integration surprises

Pull Systems



Input

Capacity

?

Push systems overwhelm capacity, creating turbulence, waste, and delay.



Input

Capacity



Pull systems have a steady flow that provides predictability.

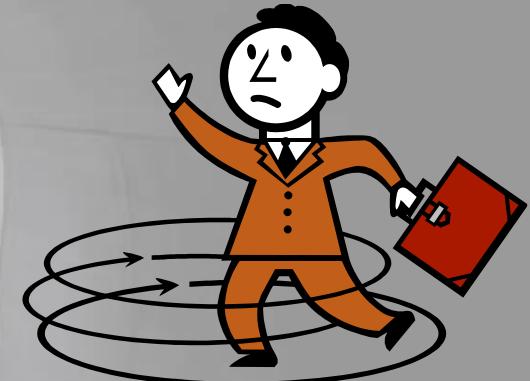
Agile Benefits for Business



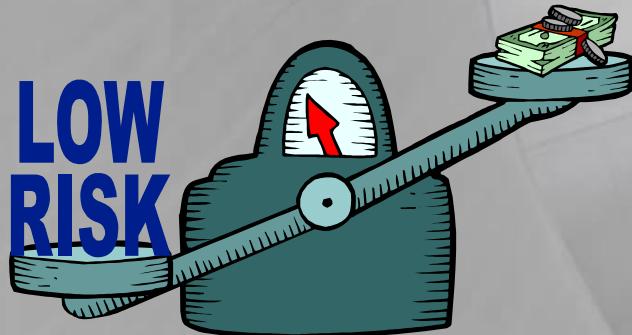
Quicker ROI



Lower Total Cost



Respond to Change



Reduce Risk



Faster Time to Market



Stakeholder
Relations

Agile Benefits for Developers



Teaming



A Sense of Done



Quality Work



Rhythm



Visible Progress



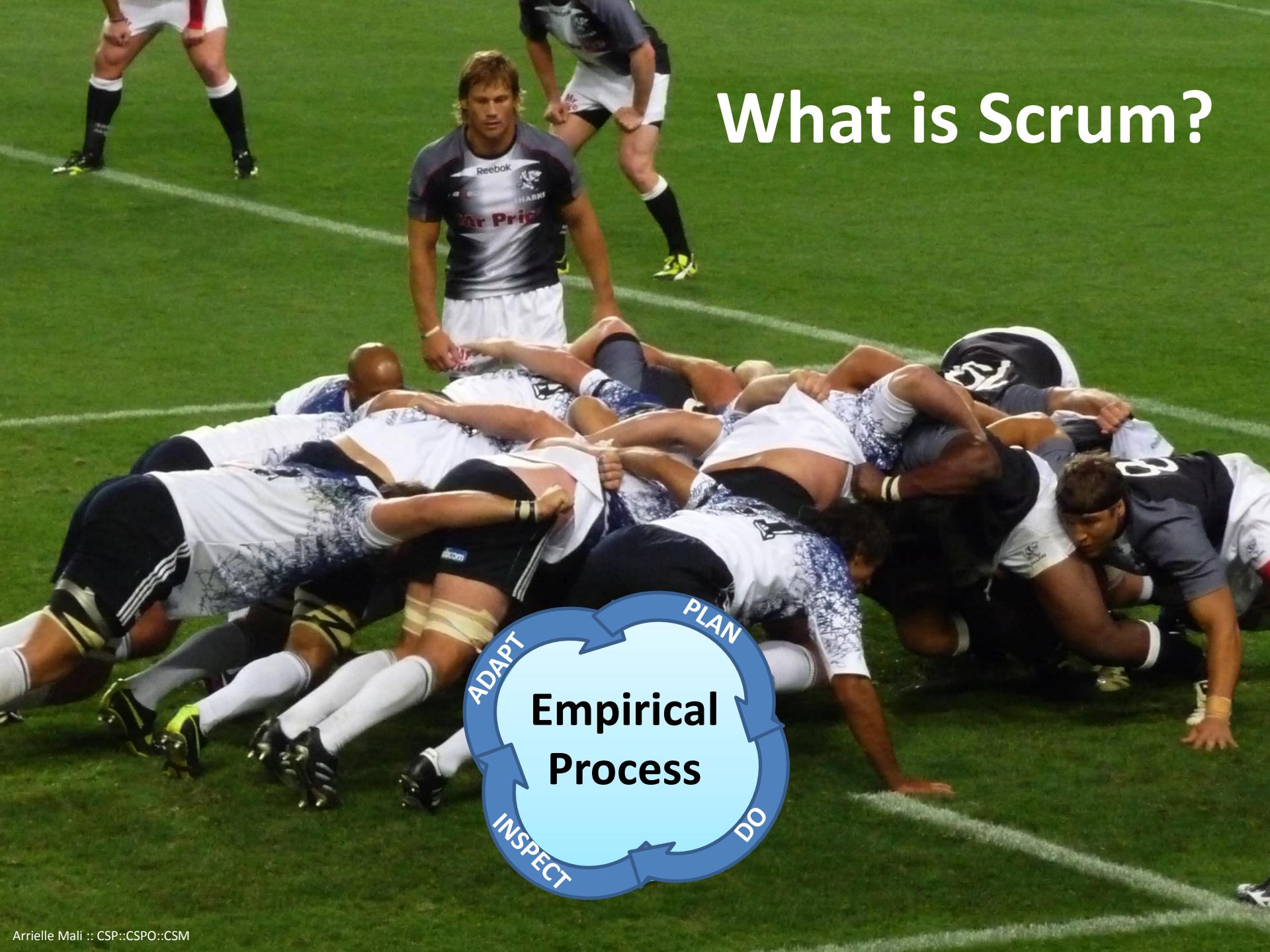
SCRUM INTRODUCTION

- The Scrum Framework

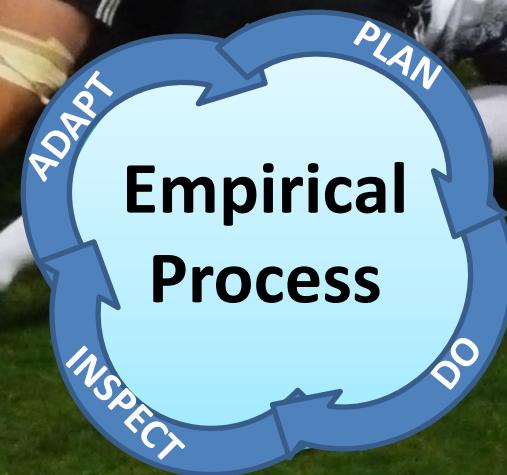
What is Agile Software Development?

- Team Based
- Incremental
- Iterative
- Value Driven
- Frequent Delivery
- Production Quality
- Inspect & Adapt





What is Scrum?



Scrum Framework

Release Planning



Daily Scrum



1. What did you do yesterday?
2. What will you do today?
3. Do you have any impediments?

Sprint Review

Sprint Retrospective



Sprint Planning



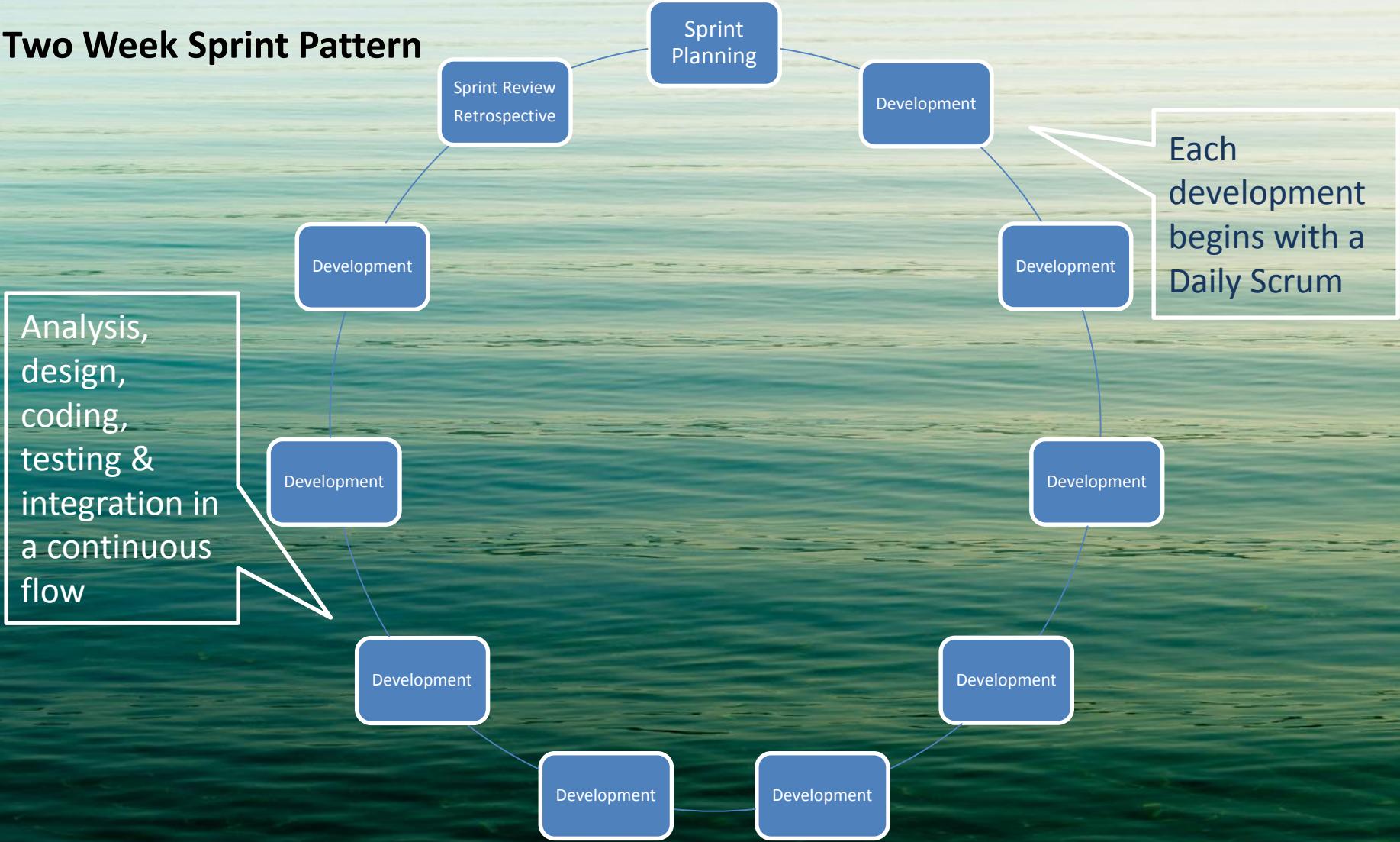
1-4 weeks



Potentially shippable product increment

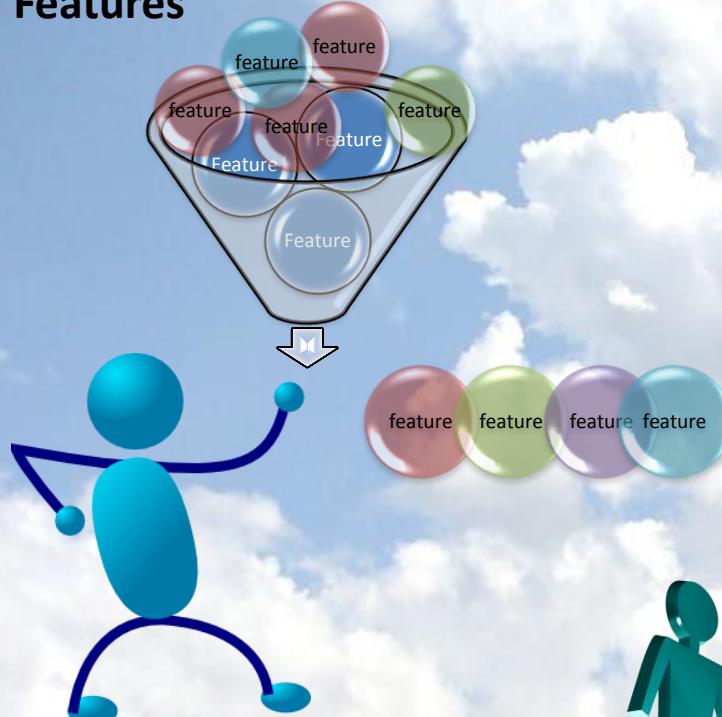
Sprint Timeline

Two Week Sprint Pattern



The Scrum Team

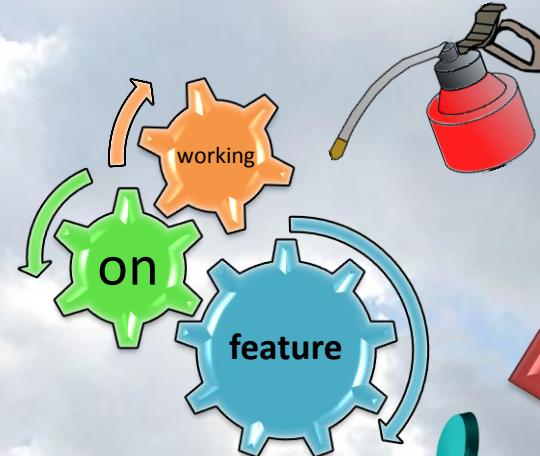
Desired
Features



Product Owner



Delivery Team



Scrum Master



Product

The Product Owner

Sets the Vision

Manages Backlog

Elaborates Features

Decides Release Dates

Reviews Work

Develops the
product with
high quality.



A photograph of nine diverse professionals of various ethnicities and ages, all wearing glasses, laughing together in a circular arrangement. They are dressed in business casual attire, including shirts, ties, and blazers. The background shows a modern office environment with large windows and wooden paneling.

The Team

- 7 +/- 2
- Cross functional
- Full time
- Self organizing
- Empowered
- Trust

Scrum Master



Helps the
Team be
awesome!

Facilitates

Protect

Coach

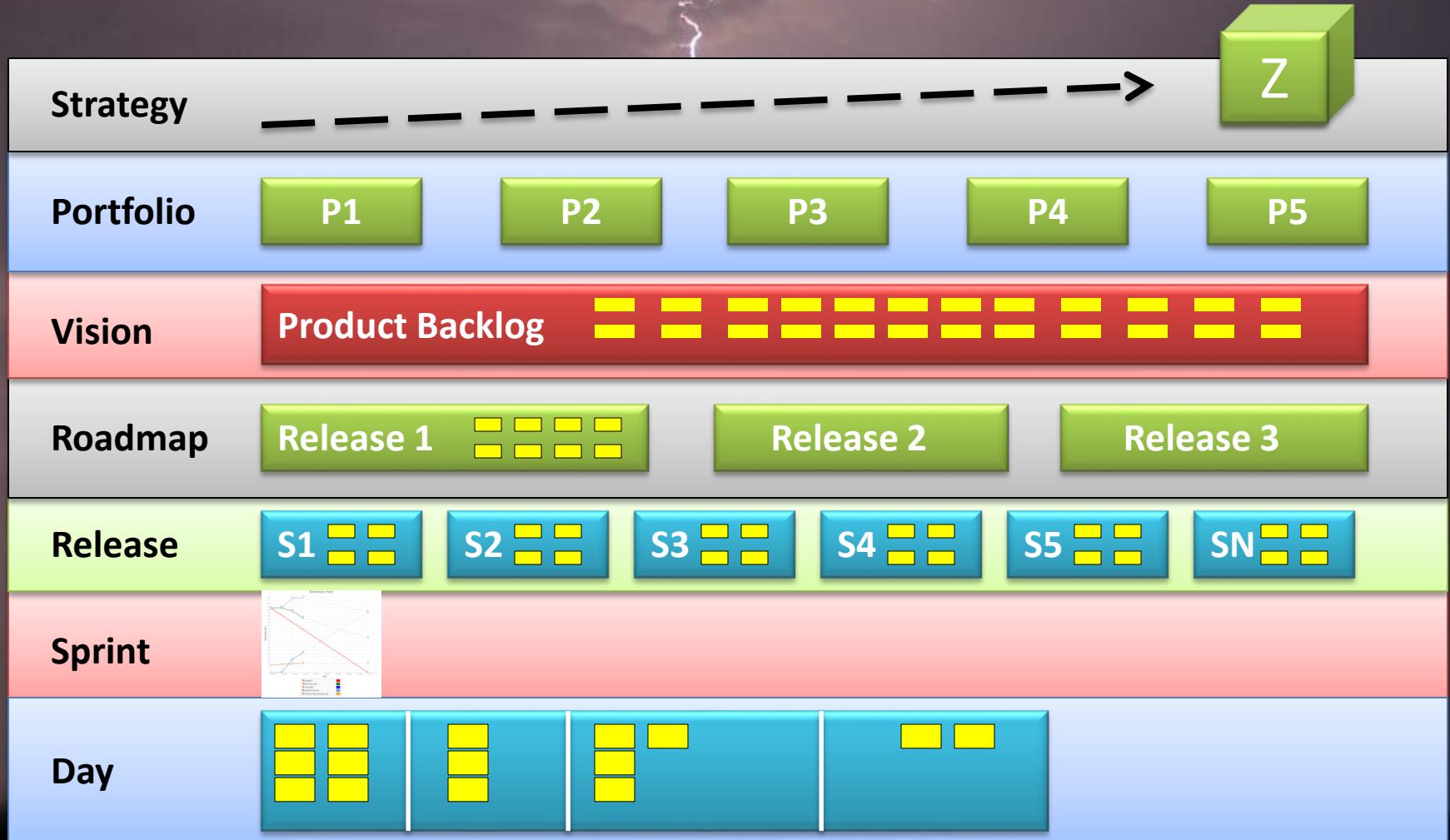
Teach

Administer

SCRUM INTRODUCTION

- Common Scrum Practices & Artifacts

Five Levels of Planning



The Elements of Agile Planning



Priorities:

Which items
are more
valuable?

Release Plan:

How long will it take or how
many can we do by a given date?

S1 ::::

S2 ::::

S3 ::::

S4 ::::

S5 ::::

SN ::::

Value:

What capabilities are
needed for financial
success?

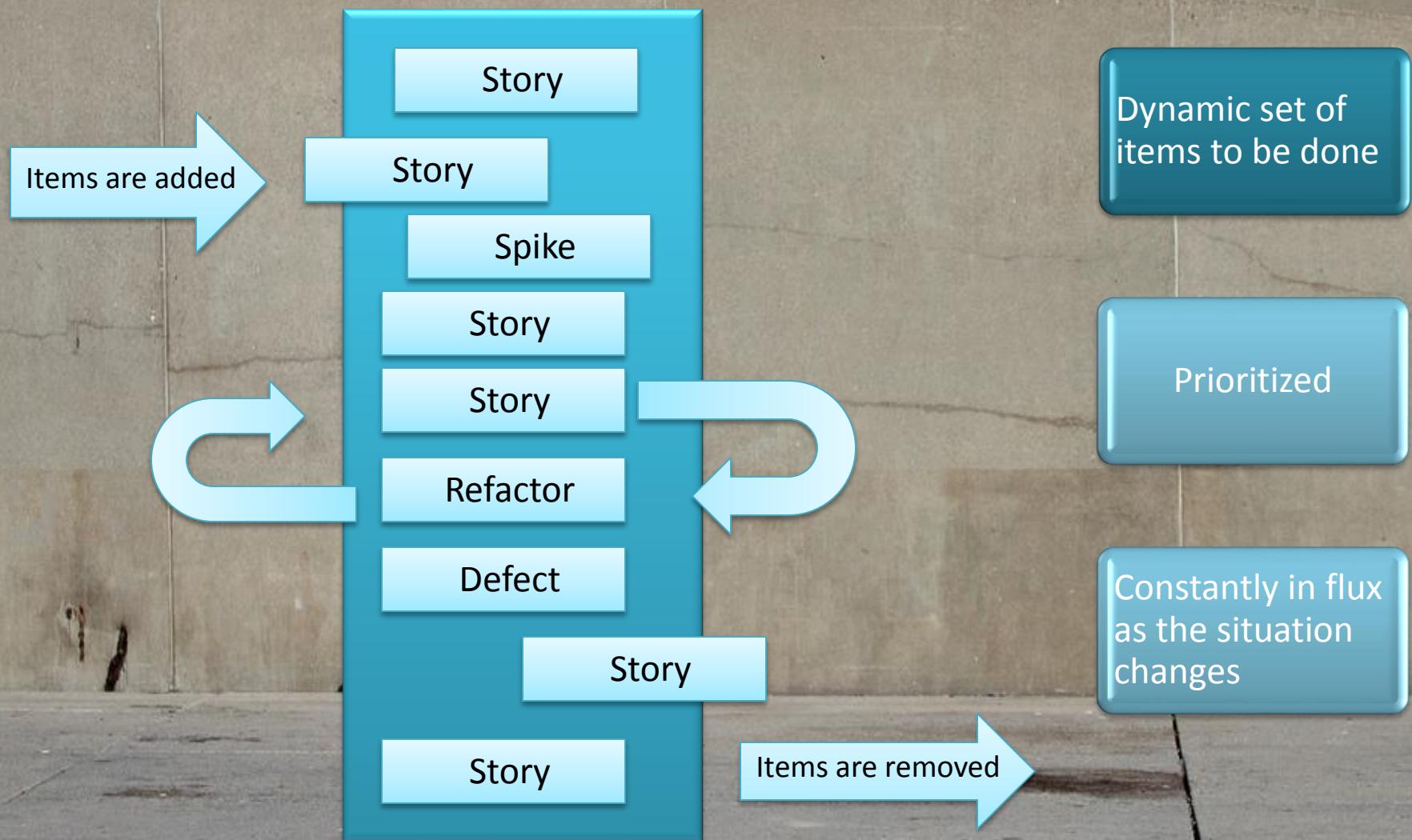
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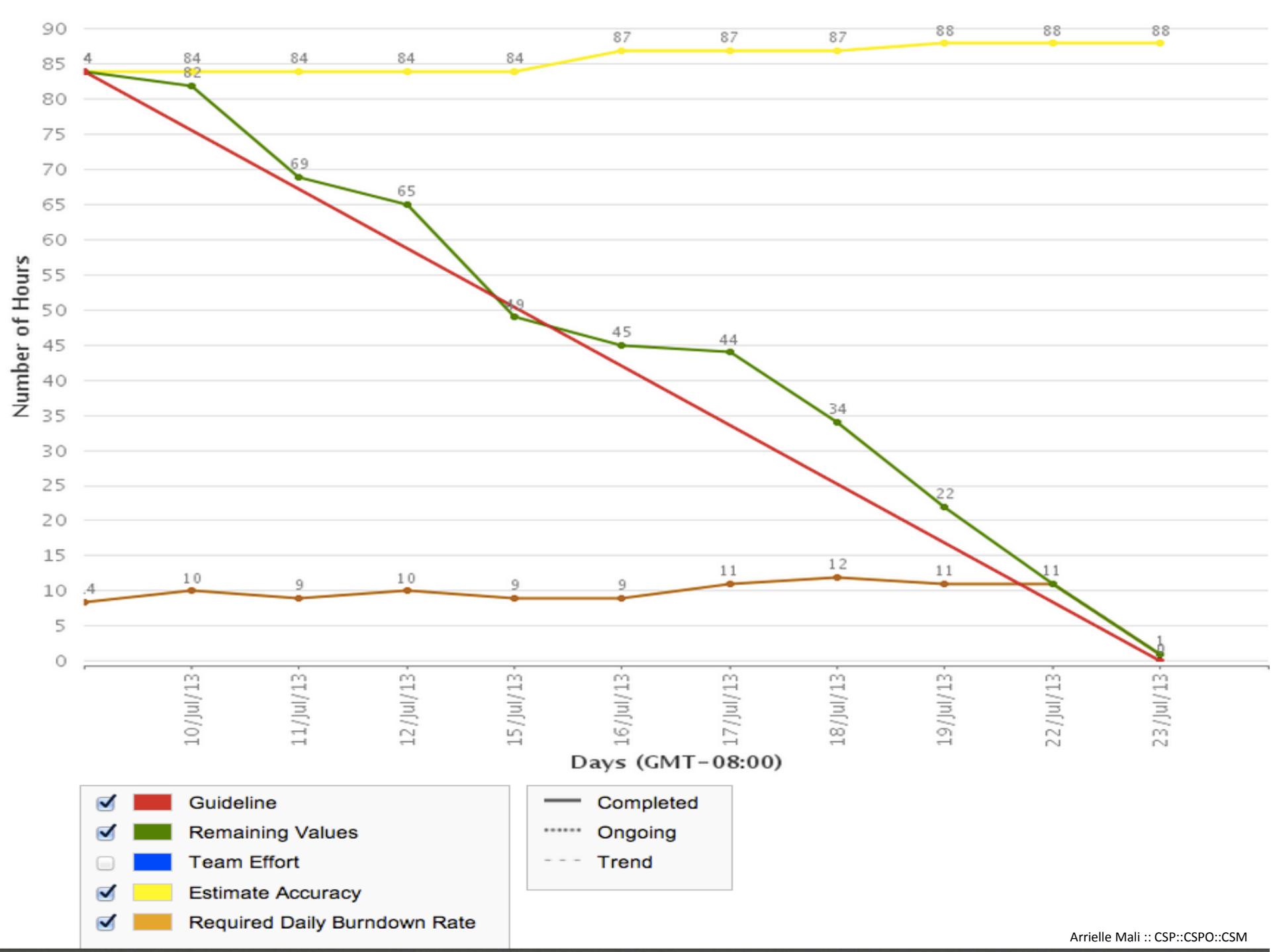
What is the effort,
risk & complexity
for each item?

Velocity:

How much can the team
complete in a Sprint?

Product Backlog





User Story Template

**As a <user role>,
I can <functionality>
so that <value>**

Sample User Stories

As a registered user, I can purchase OTC products online so that I do not have to drive to the store.

As a purchaser, I can get a receipt for a past transaction so that I can keep my own off-line records.

As a purchaser, I can search for generic equivalents of brand named items so I can save money.

As a vendor, I can see monthly sales reports so I can see which products are selling best.

INVEST Criteria for User Stories

I	Independent	Can deliver value by itself.
N	Negotiable	Details can be worked out by conversation.
V	Valuable	The value to the user is clear.
E	Estimable	Team understands it well to estimate.
S	Small	Fits in one Sprint.
T	Testable	We have clear test criteria.

Bill Wake 2003

User Story Details

<front>

Story 1: Home Page

As a prospective user, I can view the home page so that I can decide if I want to try the service.

Speclet

- Formula
- UI design
- Algorithm
- Business rules

<back>

Story 1 Acceptance Criteria

- [] Shows company logo and site banner at top
- [] Shows sales pitch
- [] Introduces site services
- [] Has copyright information at bottom
- [] Uses site “look and feel”

Automated Tests



Estimation Basics

2

Story 1: Home Page

As a prospective user, I can view the home page so that I can decide if I want to try the service.

**More than
2X effort
required**

5

- Quick
- Relative
- Estimation
- Done by Team

Story 19: Generics

As a purchaser, I can search for generic equivalents of name-brand items so I can save money.

Grooming Basics

Keeping the Product Backlog Healthy

Earlier
Feedback

Prioritization

Done By Team

Story Mapping

Sprint
Preparation

Realistic Sprint
Commitments

Ideation

Shared
Understanding



Prioritization : MoSCoW

Must Have

Should Have

Could Have

Won't Have

- Business Value
- New Knowledge
- Risk/Complexity
- Desirability

Feature buffers

Out of Scope

Sprint Planning Meeting



PART ONE

Which PBIs can we commit to?

What is our Sprint goal?

Attended by:

PO, Team,
Scrum
Master

Other
interested
stake-
holders

PART TWO

Which tasks can we identify for each story?

How long do we think each will take?



Sprint Retrospective

- Team meets privately
 - PO?
- Format
 - Gather Data
 - Reflect on what worked well and what didn't
 - Generate Insights
 - Discuss results and new ideas
 - Decide Action Items
 - Consider adopting new practices
 - Stop doing things that are not working

1.5 hours



Good

Little disturbance

PO
Proxy

Public Jira
view for
Sprint backlog

Got a lot
done

Continuous
build +
RESOLUTION
of curr. BUILD.
+ UNIT TESTING.

Cold
burndown

"Importance"
Field

Added
items

Sprint
Extras

NO SWEDISH!

Planning
done
estimates

Too many
changes to a
prod that
was working

Product
backlog
SPEC details

Priorities
not in sync

Deploy to
stage earlier

3rd
party
tuck-ups

Serg not
in sprint plan

PR
(S)
(U)

Improvement

Get better
details of
ISS

Add tests
for all NEW
stuff
- report with result

Depth in stage + test
earlier + often

Add HOW
TO TEST
in ISSUES

Submit
more
often
NOTIFICATIONS
from curr.
Build

Planning
process
- who does what
- who is responsible

If we could redo the same sprint again, we would do these things the same way.

If we could redo the same sprint again, we would do these things differently.

Concrete ideas about what we could do differently in the future.

SCRUM INTRODUCTION

- Q&A
- Arrielle Mali :: CSP :: CSPO :: CSM