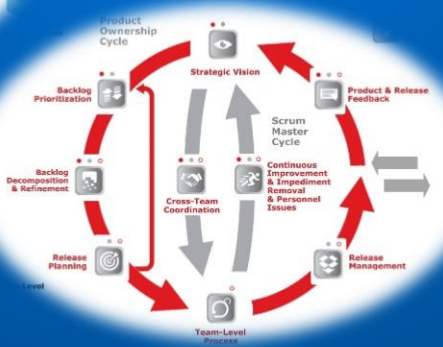
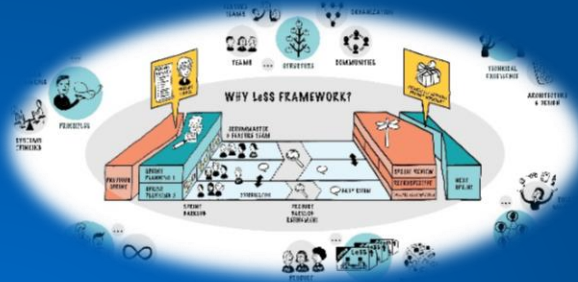
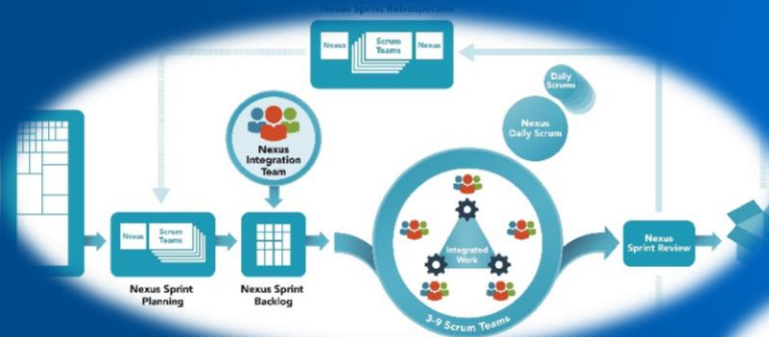


SCALED SCRUM

31.05.2016, HFT STUTTGART

DOMINIK MAXIMINI, FLORIAN SAUTER



AGENDA OF THE DAY

1. Introduction
2. Scrum, what was that again?
3. Play a round of Lego!
4. Approaches to scale scrum
5. Scaling in detail
6. Do it yourself!

1. INTRODUCTION

Who we are, Pizza, What do you want to learn?

Scrum Master Training



Dominik Maximini



Florian Sauter



Our core competencies

Service portfolio



Our requirement: specialist knowledge and sound consultation, which don't just provide short-term solutions, but offer sustained and strategic benefits.

Successfully mastering interdisciplinary IT projects isn't something you learn at the drawing board - there is no substitute for practical experience.





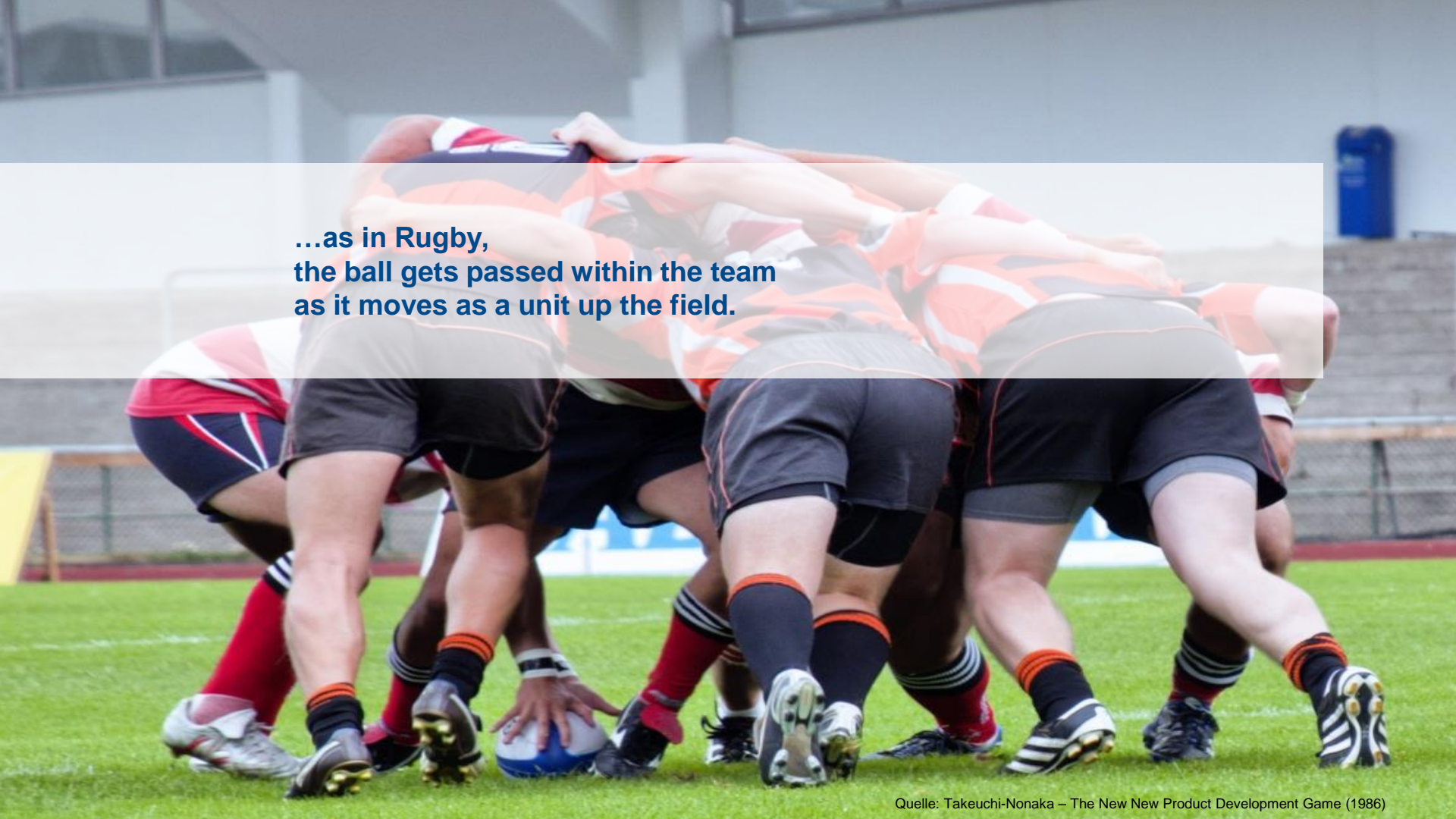
Let us know...

... what do you want
to learn today?

... what are the biggest
challenges when scaling an
agile approach?

2. SCRUM, WHAT WAS THAT AGAIN?

Big Picture, Events, Rollen, Artefakte

A photograph of a rugby scrum in progress on a green field. Several players in orange and white striped jerseys and dark shorts are huddled together, pushing against each other. A blue and white rugby ball is visible at the base of the scrum. A semi-transparent white box is overlaid on the upper part of the image, containing text.

**...as in Rugby,
the ball gets passed within the team
as it moves as a unit up the field.**

What is Agility?

Duden

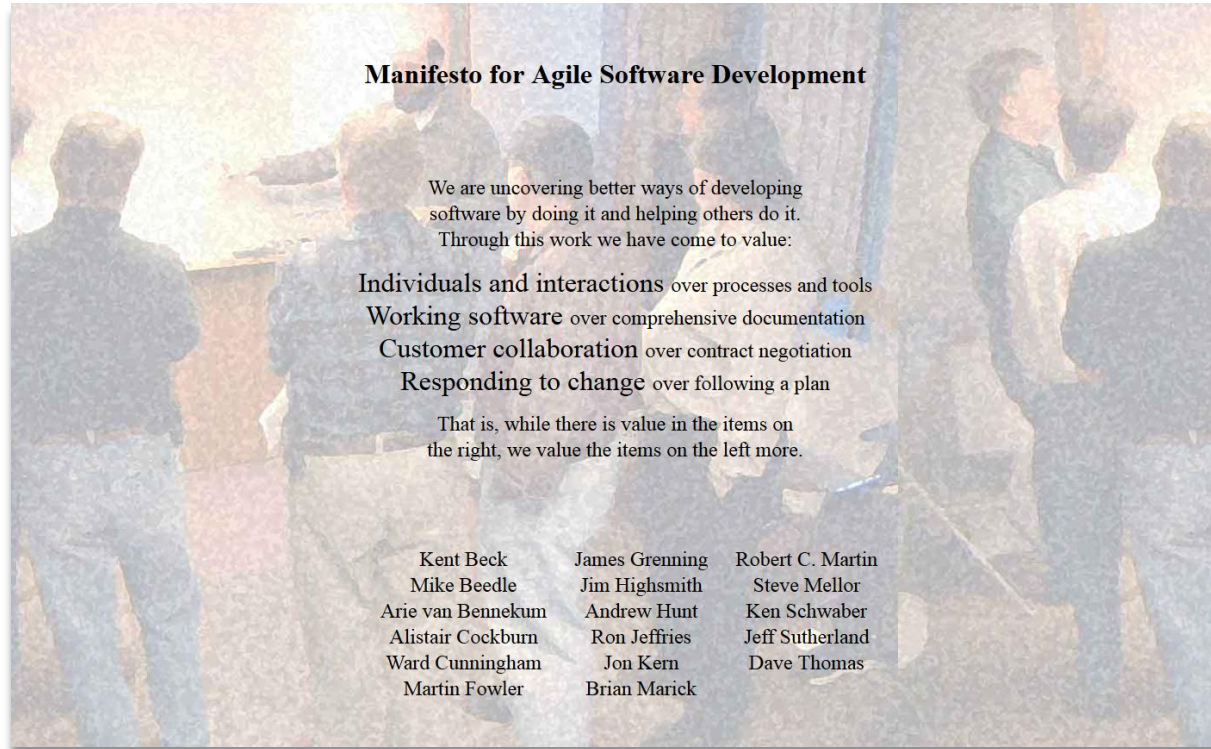
- demonstrates great mobility
- active and flexible
 - The ability to react rapidly and responsively to changing requirements, while at the same time controlling risk
 - Flexibility, the ability to adapt efficiently and rapidly

„The courage to be honest enough to admit that building software is complex and it can't be perfectly planned since requirements change.“ – Ken Schwaber¹

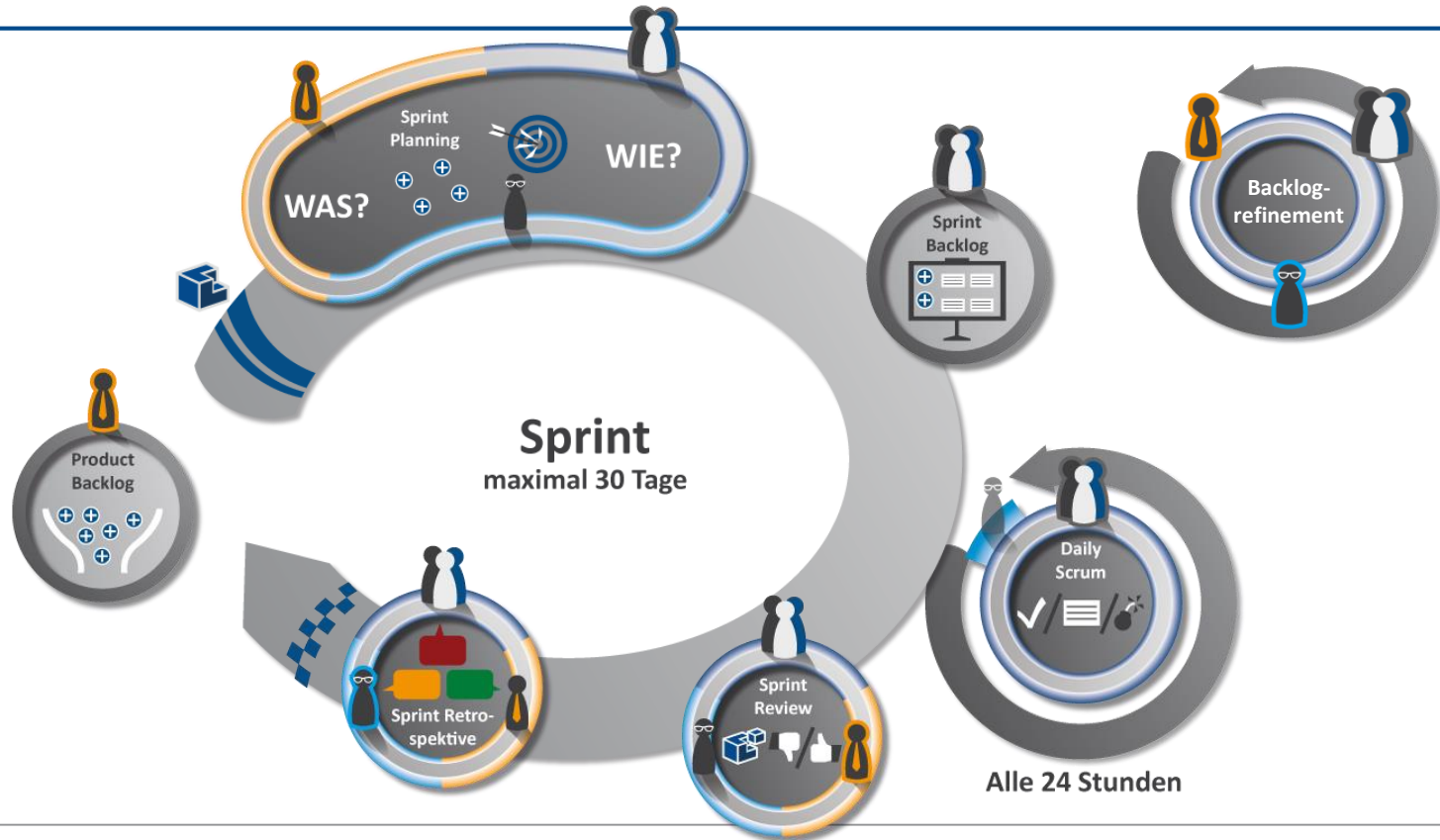
can't be perfectly planned since requirements change.“ – Ken Schwaber¹

¹ © Ken Schwaber <http://de.slideshare.net/xwarzee/path-to-agility-ken-schwaber>

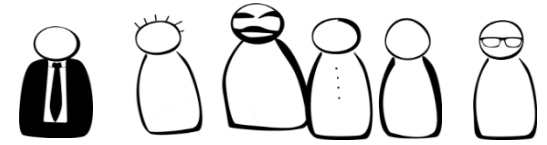
How it began: The Agile Manifesto



The Big Picture



Scrum Events

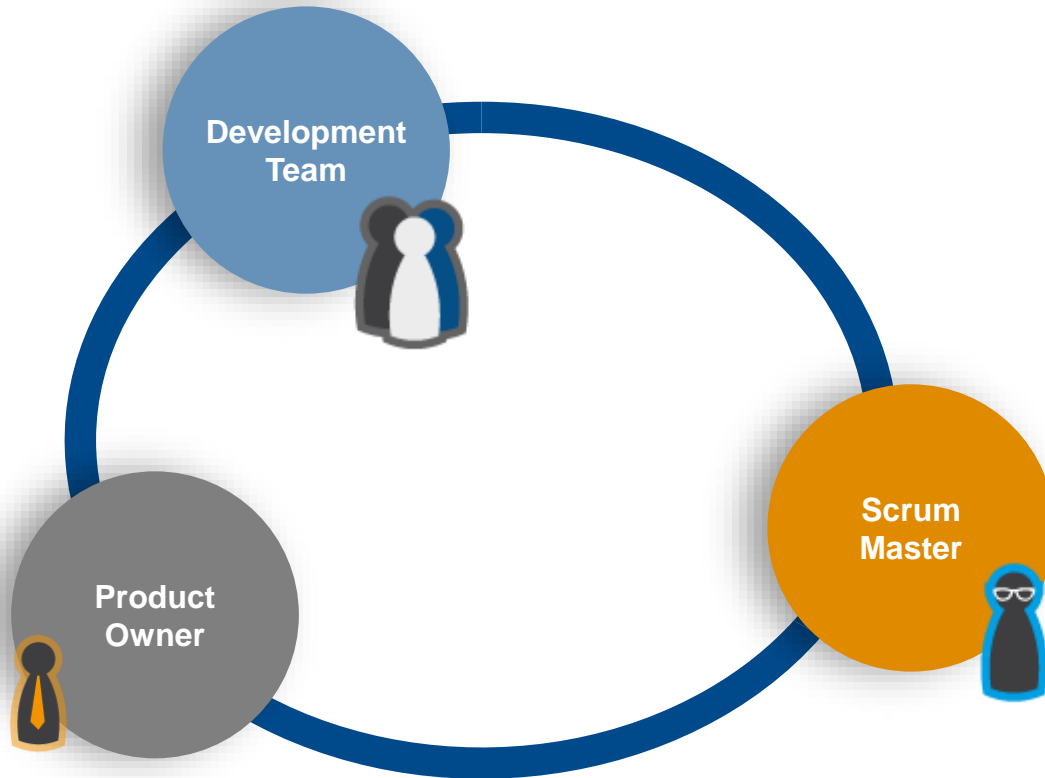


Events...

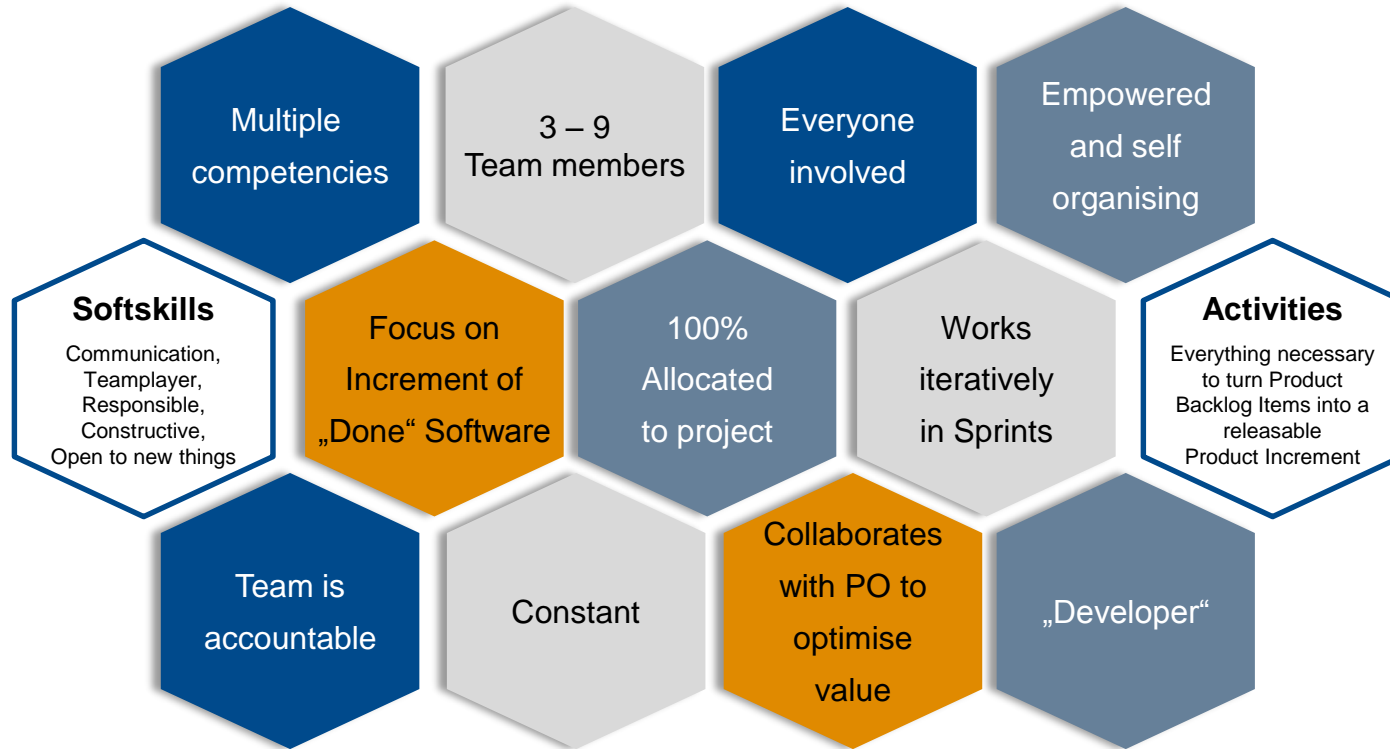
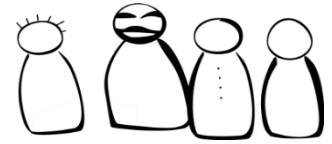
- create regularity and transparency
- minimise the need for further meetings
- are **timeboxed**
- offer opportunities for inspection and adaptation



The Scrum Team



The Development Team



The Product Owner - The business representative



Single individual who optimises Value for the Business

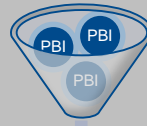
Stakeholder Management



Manages expectations and brings Stakeholder view to the Development Team

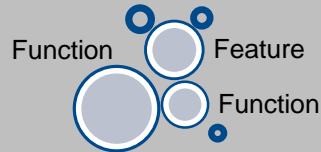


Product Backlog



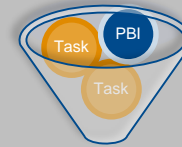
Owens the Backlog and makes sure it is transparent throughout the Organisation

Ensures the Backlog is clearly expressed at the right level of detail.



Defines the Backlog content and order

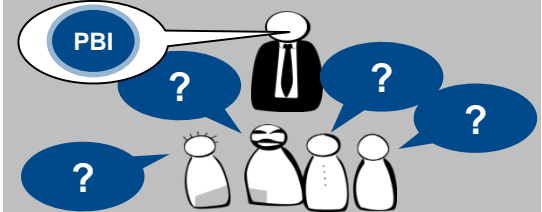
Team Kommunikation



Optimises the Value the Team delivers



Ensures the Development Team understands the Backlog at the right level of detail



The Scrum Master - Function und Activities



1

Ensures Scrum is understood and enacted

2

Personifies the Scrum Values, Rules and Principles

3

Helps the Scrum Team effectively manage the Backlog

4

Servant Leader for the Scrum Team
(Mentor, Coach & Facilitator)

5

Enables the Scrum Team to meet its goals through support and elimination of impediments

6

Helps the Scrum Team understand and practice Agility

7

Extends the application of Scrum and Agility in the broader Organisation

Softskills

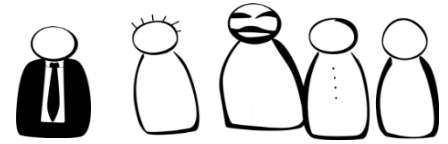
Communication and Facilitation
Skills

Personifies the Agile Values

Self confidence

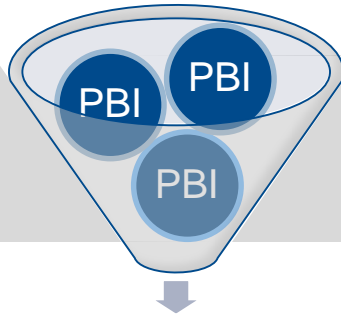
Recognises conflicts and can
resolve them

Scrum Artifacts



Artifacts

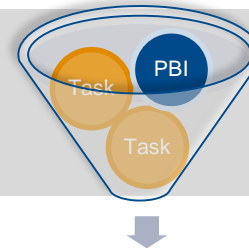
- serve to provide transparency
- provide opportunities for inspection and adaptation



Product Backlog



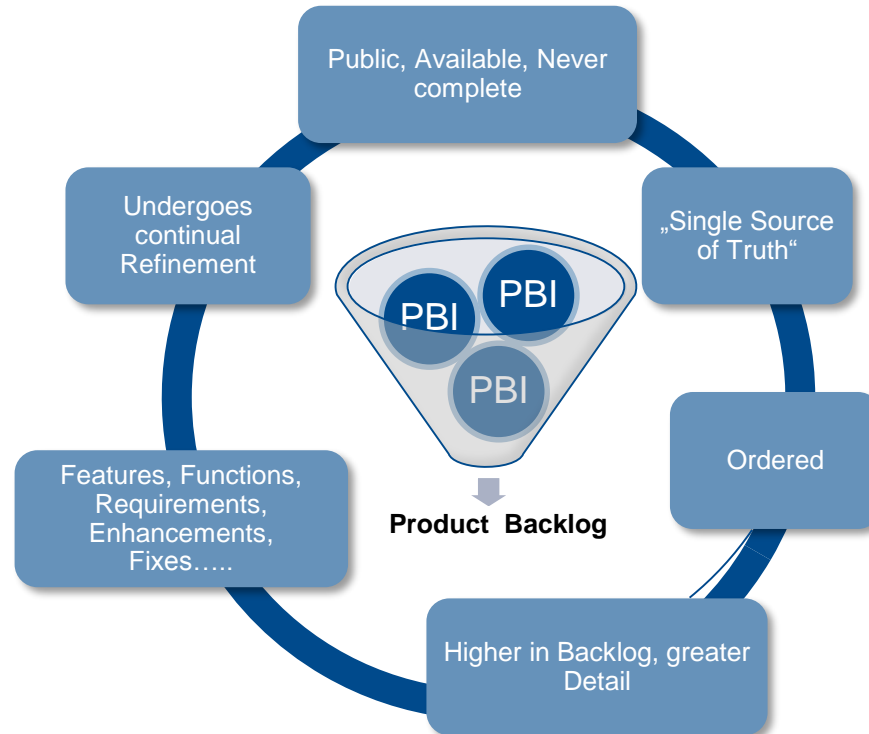
Product Backlog Item

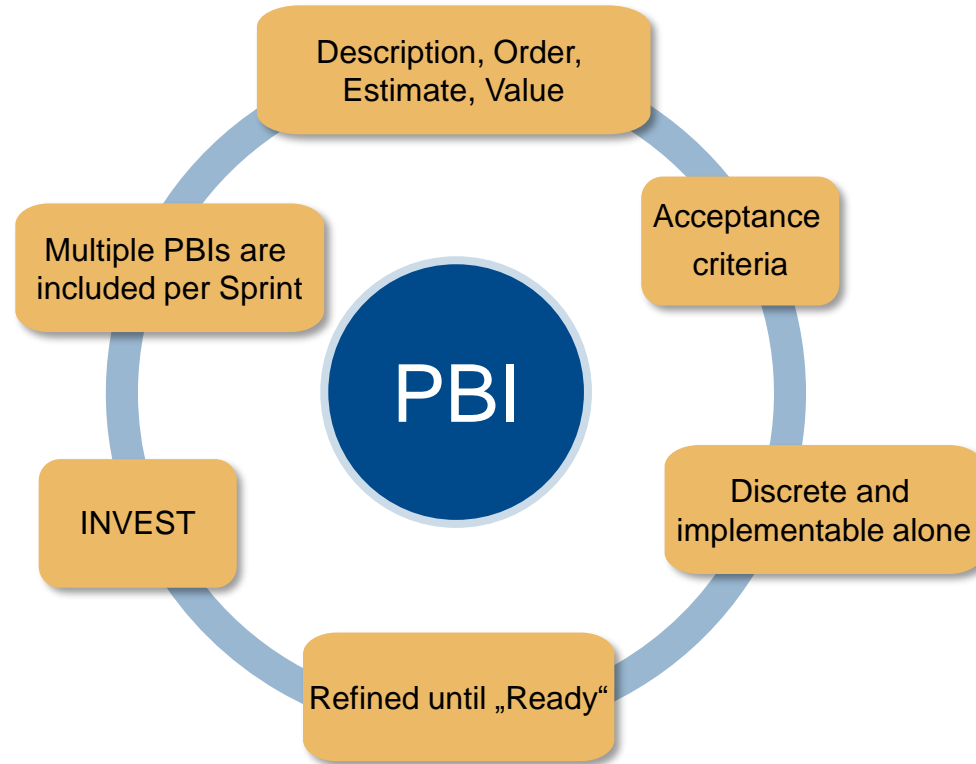
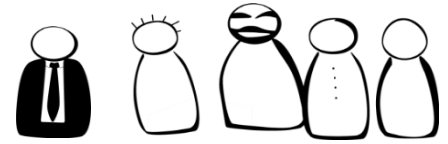


Sprint Backlog

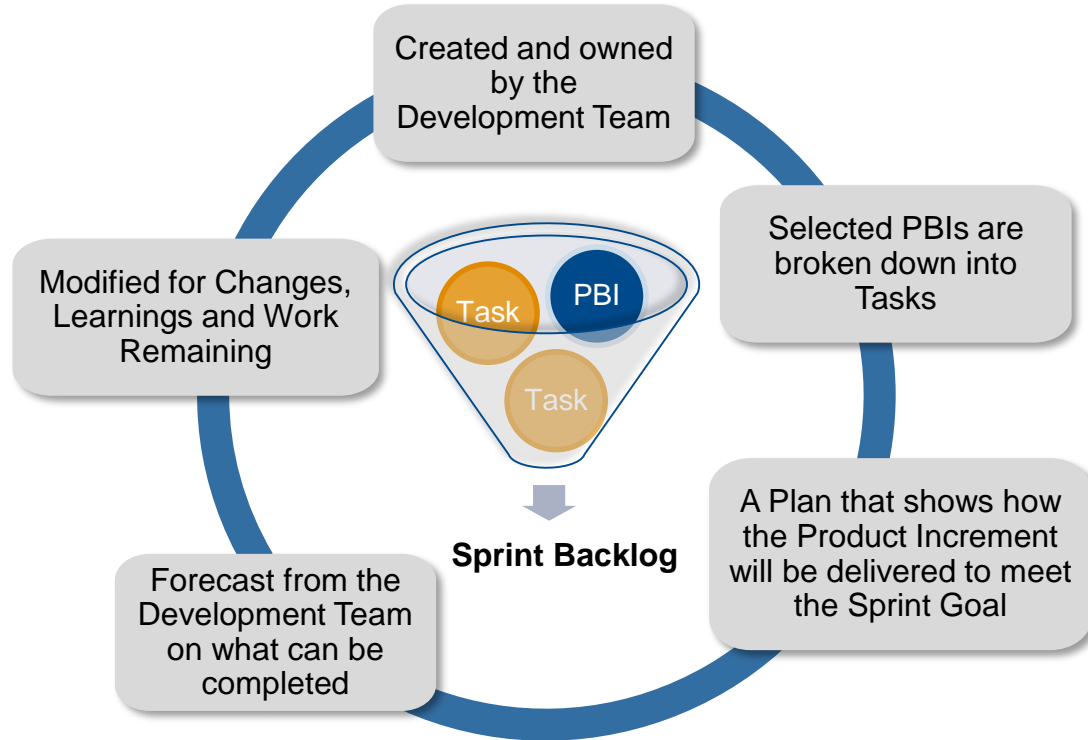
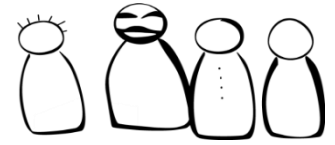


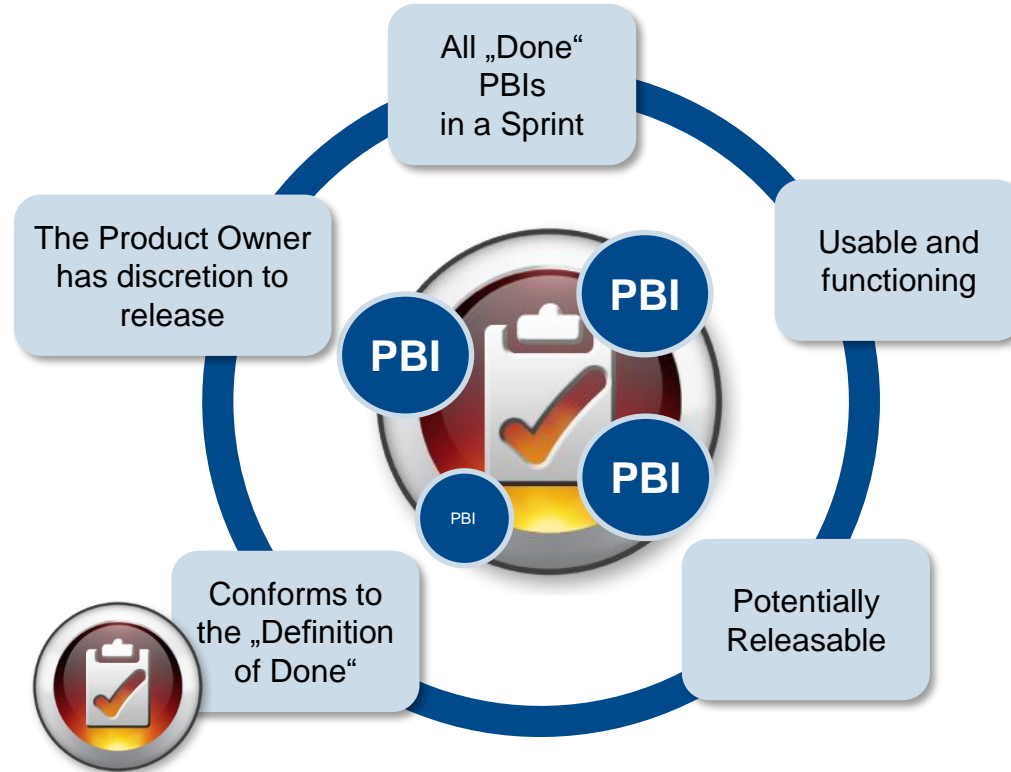
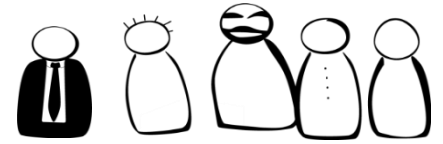
Product Increment





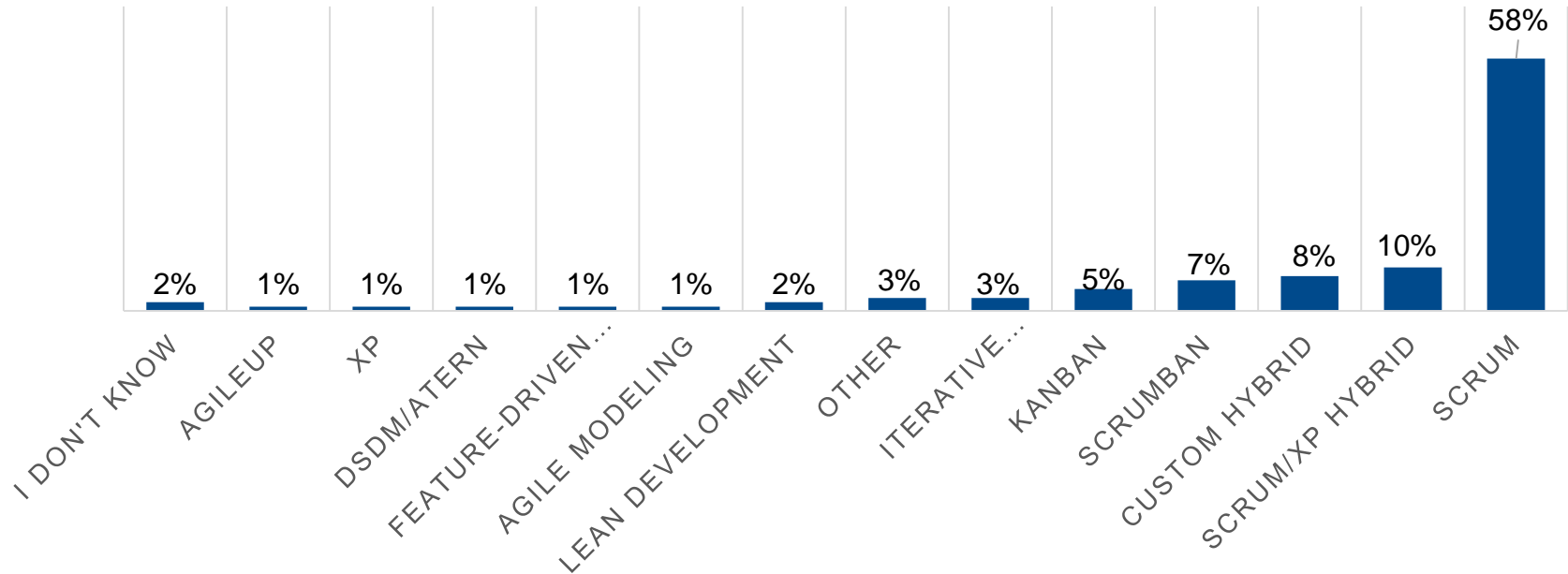
Sprint Backlog



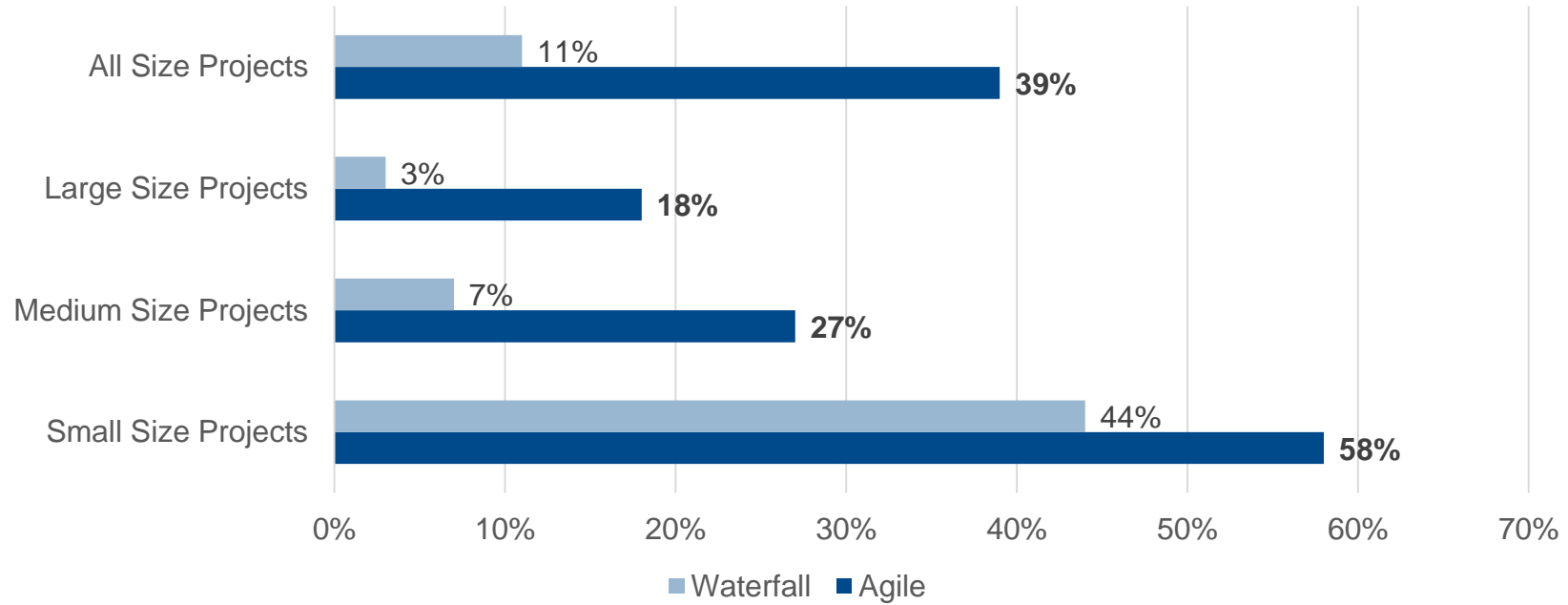


The 10th annual State of Agile survey

What agile methodology is followed?



CHAOS RESOLUTION BY AGILE VERSUS WATERFALL



3. PLAY A ROUND OF LEGO!

Sprint 1

Kick -Off



I would like a CO₂
neutral city in
Baden-
Württemberg.

No atomic
power

Unlimited
financial
resources

Initial living
space for 10
people

Building
starts here
today

Product Vision

Release goal

1

The first 10 residents feel welcome, both at home and at work

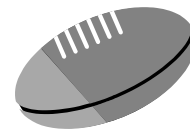
2

Our city is an environmentally friendly, industrial metropole

Lego is our unit of measure



Questions?



10 Min

Scrum in Action - Preparation

1. Divide yourselves into teams of 3-5 team members

2. Develop and document as a team:

- A name and a logo for your team on a flipchart

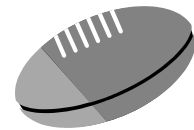


3. Choose a Product Owner for your team

- Your Product Owner will prioritize the requirements and will approve or decline the Product Increment.

4. Pick up your business requirements from your customer

- Your customer are the trainers
- Get your business requirements from your customer
- Get your building materials from your customer

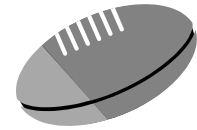


30 Min

Scrum in Action – The Sprint

1. Present the product after 30 minutes.
2. Adhere to Scrum rules (do the meetings!)
3. You decide which requirements you want to show.
4. You decide how best to present the requirements.
5. Don't forget to give your city a name. 😊

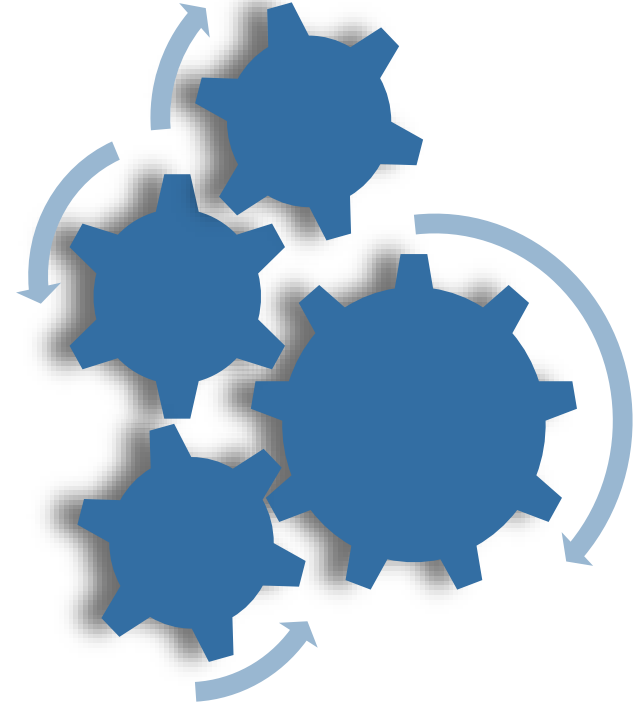
**The Sprint
has started!**



Review

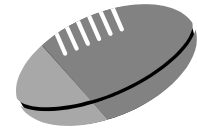
Stand back from the building site:

- What was finished?
- Is it really done?
- Can the result pass the Review?



Regardless of what we discover, we understand and truly believe that everyone did the best job they could, given what they knew at the time, their skills and abilities, the resources available, and the situation at hand.

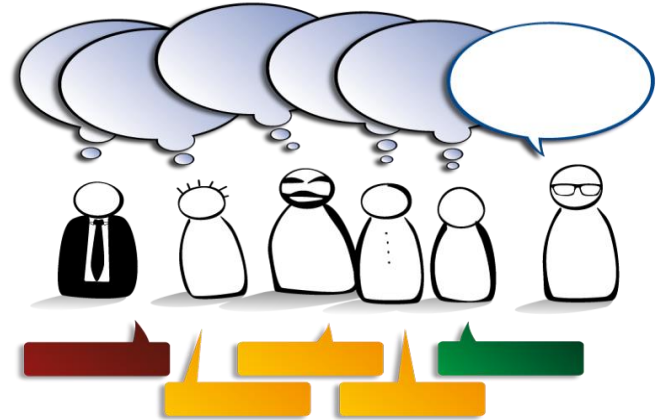
- Norm Kerth

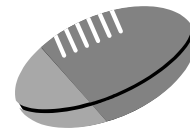


Retrospective

Stand back from the building site:

- What worked well?
- What could be done better?
- What would you do differently in the next sprint?





Challenges of scaling

What are the biggest challenges when doing it altogether?

Challenges of scaling



Assure
quality

Sharing the
domain
knowledge

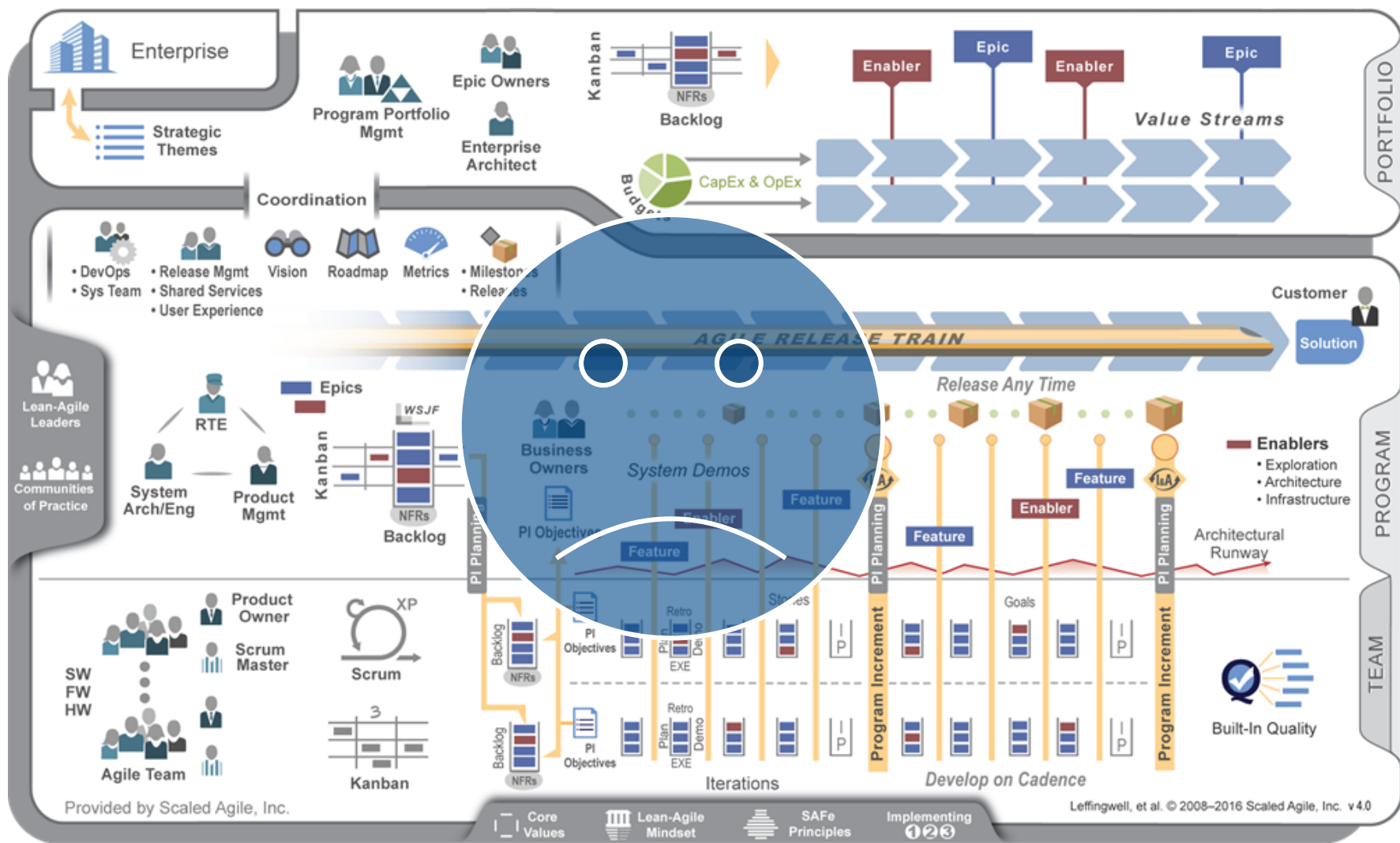
Integration of
people

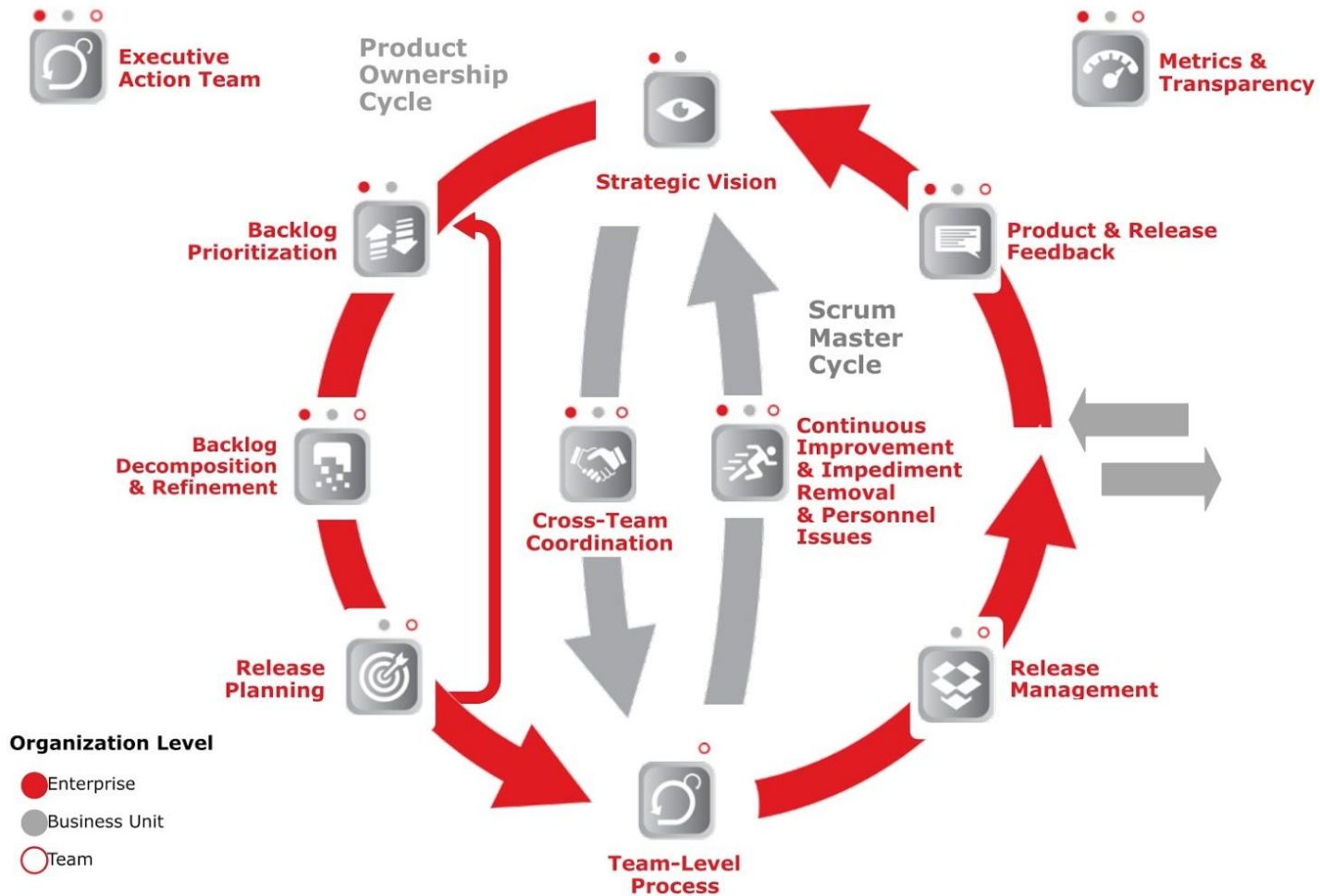
Dependencies
between
requirements

Integration of
technology
and software

4. APPROACHES TO SCALE SCRUM

Scaling Frameworks





LeSS BOOK CHAPTER 2:
INTRODUCTION



LEAN
THINKING



SYSTEMS
THINKING



PRINCIPLES



COACHING



ADOPTION



CONTINUOUS
IMPROVEMENT



FEATURE
TEAMS



TEAMS



STRUCTURE



ORGANIZATION



COMMUNITIES



CONTINUOUS
INTEGRATION



ARCHITECTURE
& DESIGN



ROLE OF
MANAGERS

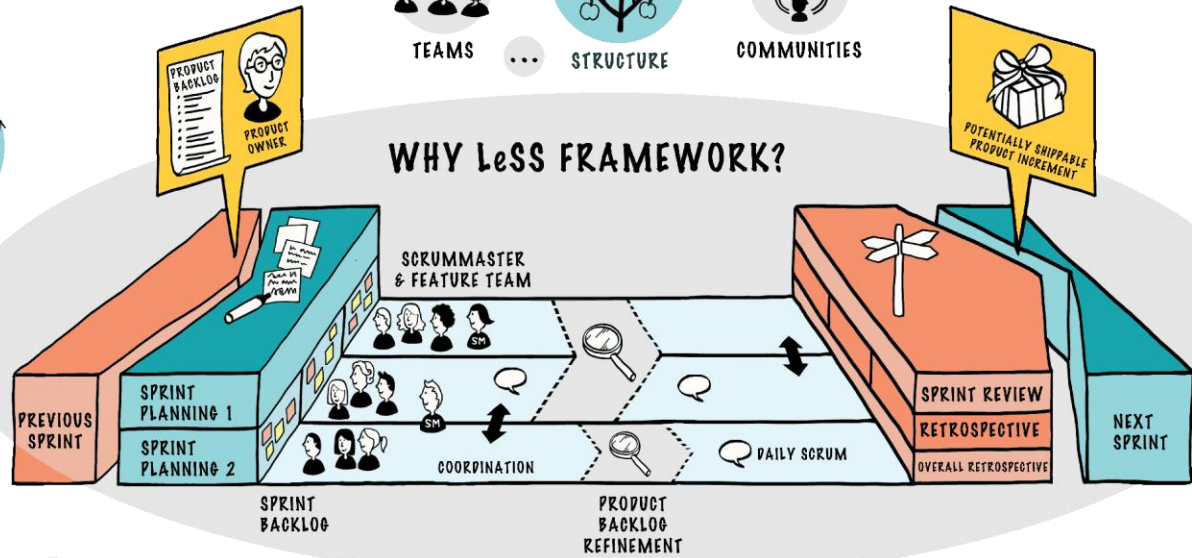


MANAGEMENT



GO SEE

WHY LeSS FRAMEWORK?



PRODUCT
OWNER TEAM

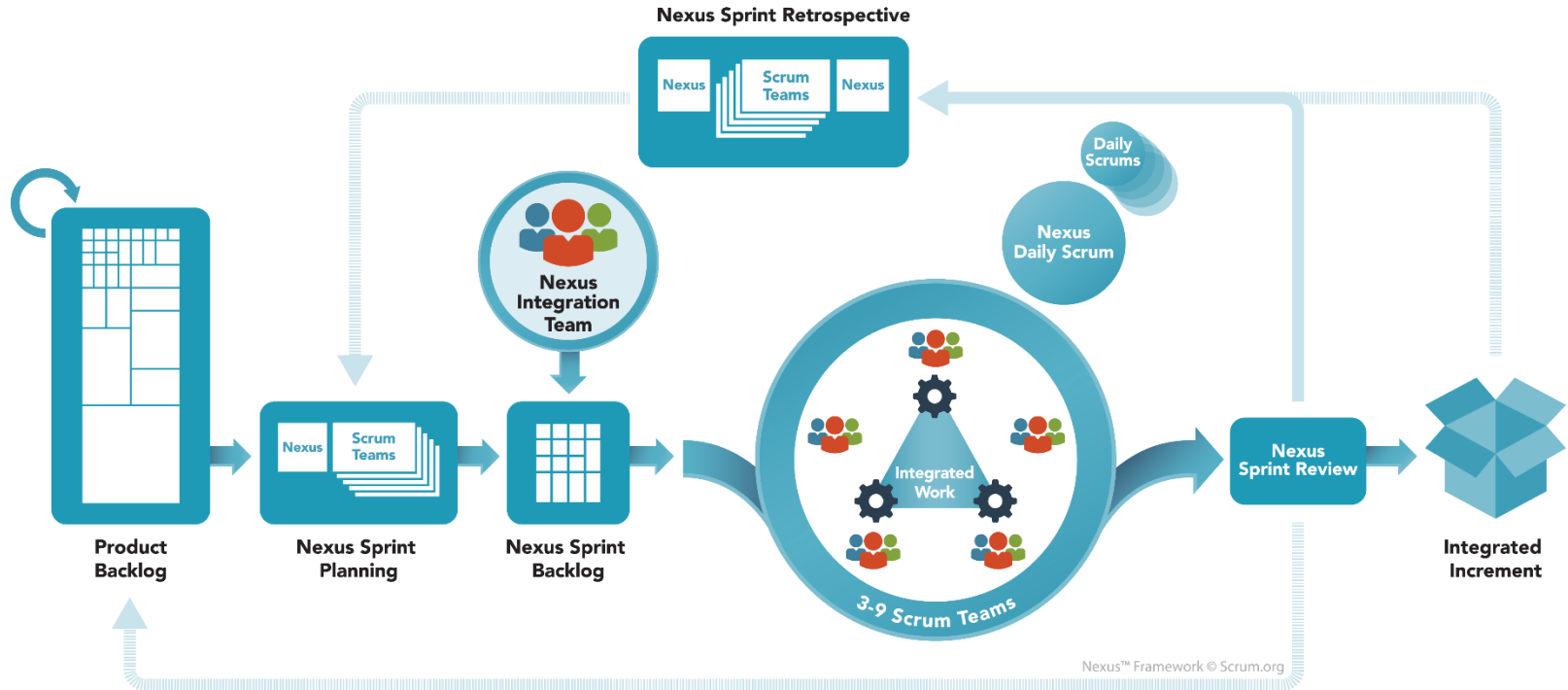


LESS HUGE



REQUIREMENT
AREAS

NEXUS FRAMEWORK (Nexus™)



Prerequisites for scaling Scrum

- ✓ Professional Scrum on team level
- ✓ Dedication of organization
- ✓ Organic growth
- ✓ Acceptance of scaling costs

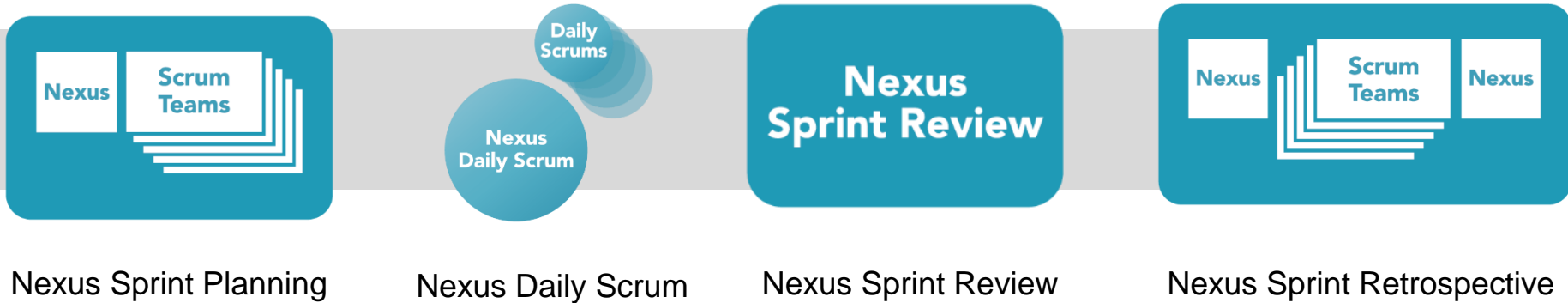
5. SCALING IN DETAIL

Nexus™

Nexus Events

Events

- coordinate the activities of all Scrum Teams in a Nexus for a single Sprint
- duration of Nexus events is guided by the length of the corresponding events in the Scrum Guide





The Product Owner



A Scrum master



One or more Nexus
Integration Team Members

Nexus™ in Action - Preparation

1. Choose ONE Product Owner

- Your Product Owner will prioritize the requirements and will approve or decline the Product Increment.



2. Choose two to three Scrum Masters (one dedicated to NIT)

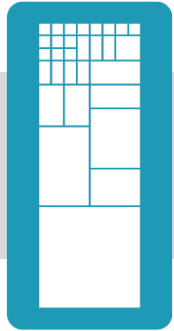
- “The Scrum Master is responsible for ensuring Scrum is understood and enacted. Scrum Masters do this by ensuring that the Scrum Team adheres to Scrum theory, practices, and rules.”¹



Nexus Artifacts

Artifacts

- serve to provide transparency
- provide opportunities for inspection and adaptation



Product Backlog

Goal

Nexus Goal

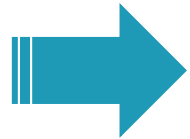


Nexus Sprint Backlog



Integrated Increment

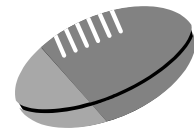
1. Introduce a change team
2. De-escalate
3. Scrumble



Back to professionalisation

6. DO IT YOURSELF!

Setup Nexus™



Nexus™ in Action - Preparation

1. Brace yourself - Nexus is coming...

1.1 ... as Product Owner

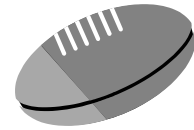
- Pick up and prioritize the requirements
- Ask a handful of people to help you if required (keep in mind - you're still accountable)

1.2 ... all others

- Divide yourselves into teams of 3-5 team members
- Declare one member who is part of the Nexus Integration Team (NIT)

„The Nexus Integration Team is **accountable** for ensuring that an Integrated Increment is produced at least every Sprint. The Scrum Teams are responsible for developing Increments of potentially releasable software.“ – Nexus Guide¹

releasable software.“ – Nexus Guide¹



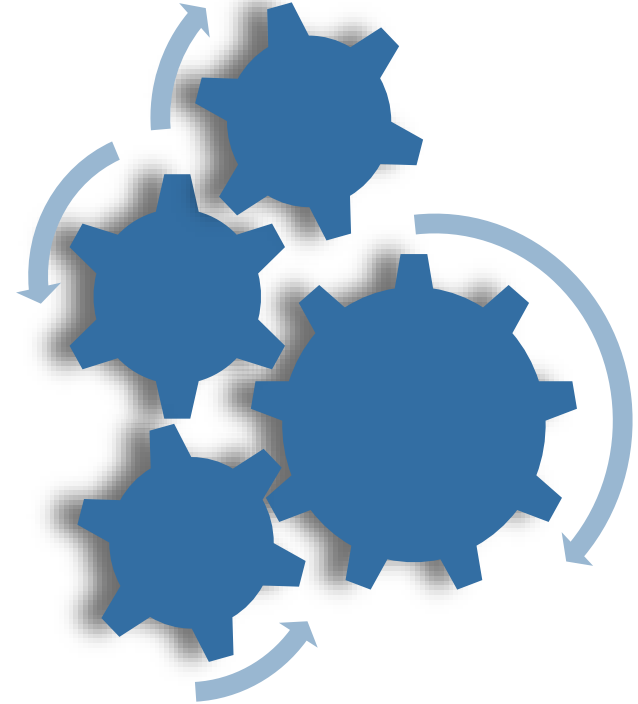
Planning 1 + 2

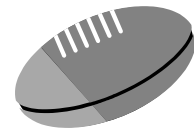
1. Send a representative to the Nexus Planning:

- PO provides domain knowledge and guides/prioritizes selection
- Write down and formulate the Nexus Sprint Goal.
- Refine the Product Backlog with dependencies identified
- Make the Product Backlog transparent

2. Each team performs their individual Scrum Planning

- Plan and adjust the work
- Make the individual Sprint Backlogs transparent (Nexus Sprint Backlog)



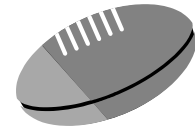


30 Min

Nexus™ in Action – The Sprint

1. Hold at least two Nexus Daily Scrums (e.g. at 10:00 and 20:00)
2. Adhere to Nexus rules!
3. Present the Integrated Increment after 30 minutes.
4. You decide which requirements you want to show.
5. Don't forget to give your city a name.

**The Sprint
has started!**



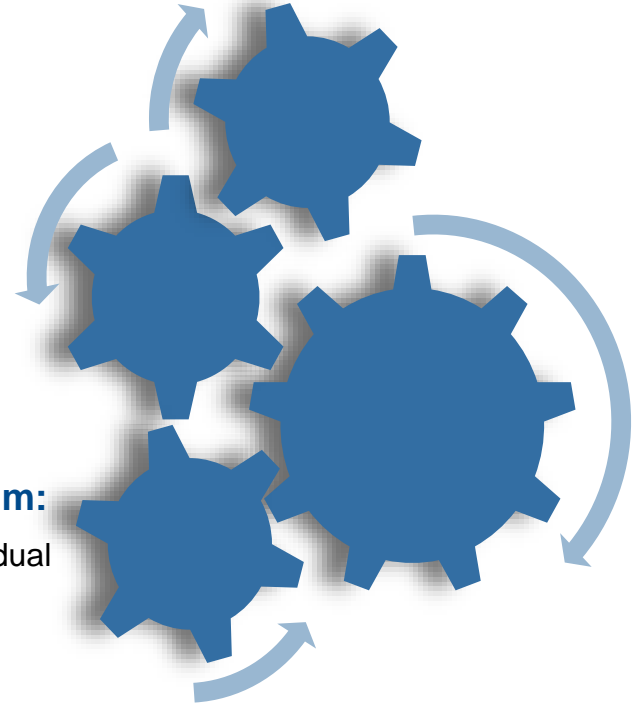
Daily Scrum

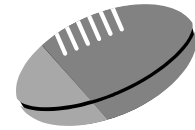
1. Each team sends one representative to the Nexus Daily:

- Was the previous day's work successfully integrated? If not, why not?
- What new dependencies have been identified?
- What information needs to be shared across teams in the Nexus?

2. Go back into your teams and hold your individual Daily Scrum:

- Work that is identified during the Nexus Daily Scrum is taken back to individual Scrum Teams for planning inside their Daily Scrum events.

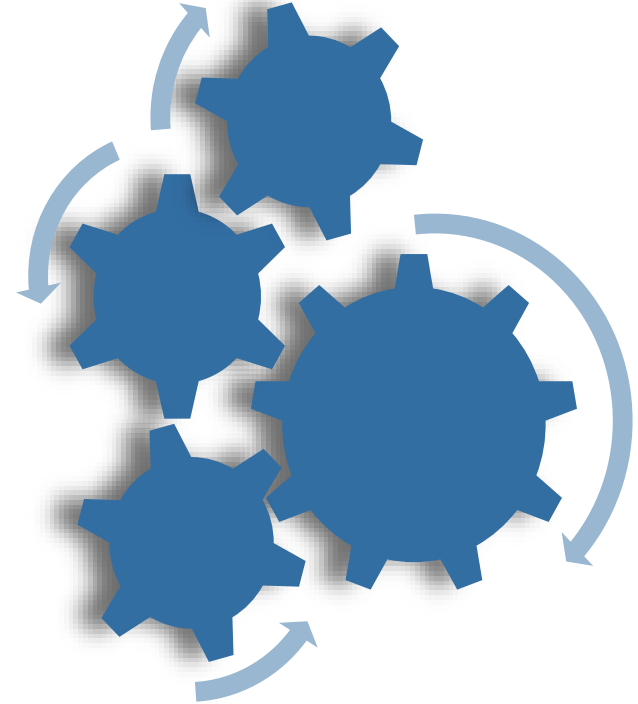


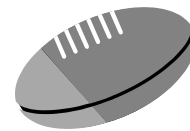


Review

Stand back from the building site:

- What was finished?
- Is it really done?
- Can the result pass the Review?





Retrospective 1 + 2

Every Retrospective should address the following subjects:

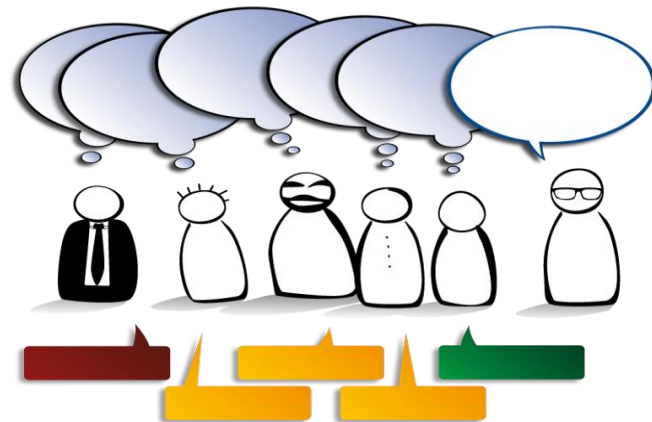
- Was any work left undone? Did the Nexus generate technical debt?
- Were all artifacts, frequently (as often as planned) successfully integrated?

1. Send a representative to the Nexus Retrospective:

- Identify issues that have impacted more than a single team

2. Each Scrum Team holds their own Sprint Retrospective:

- (You can) Use issues raised from the first part of the Nexus Retrospective as input to their team discussions
- Form actions to address these issues



THANKS 😊

Dominik Maximini and Florian Sauter

