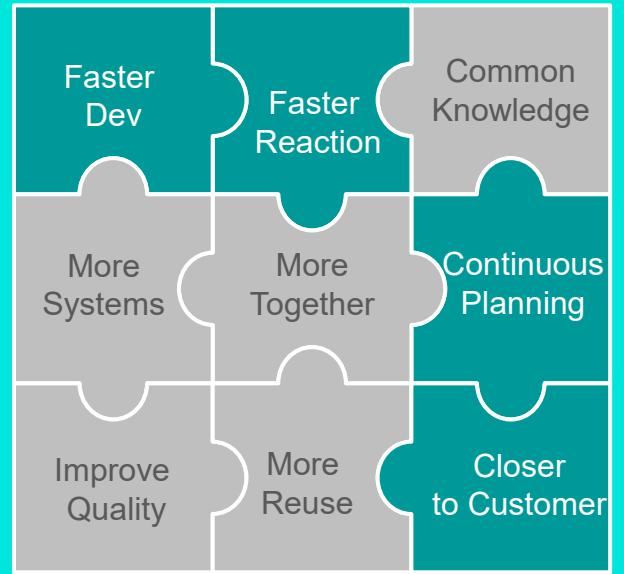




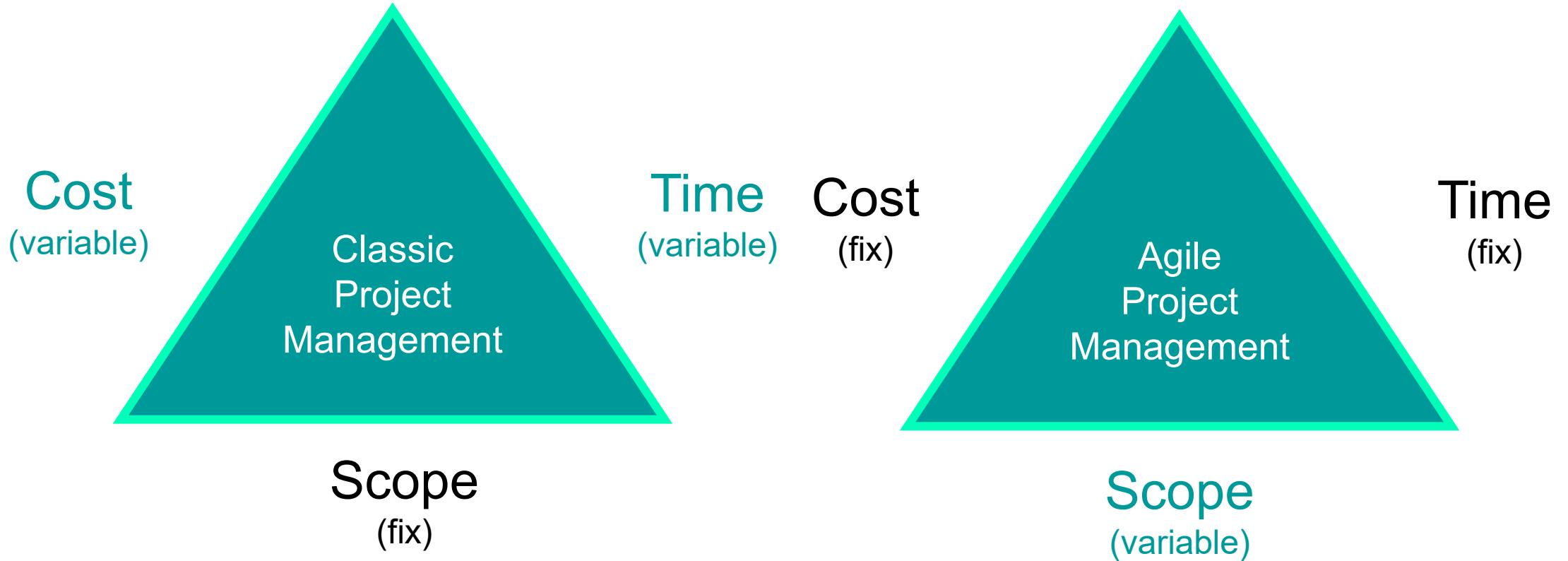
Focus: Agile Teams



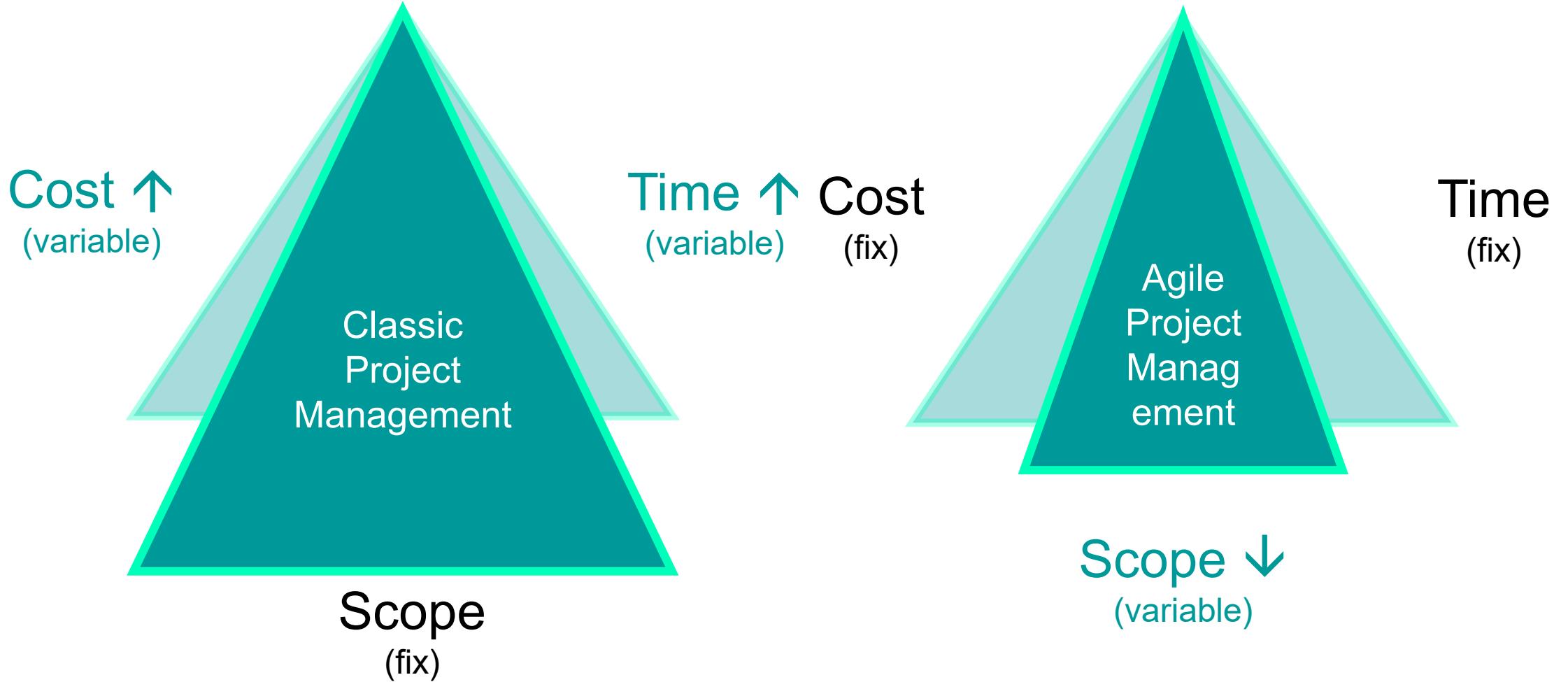
# RE in agile Environment

What's the difference to classic RE?

## Agility Aspects related to Classical Triple Constraint



## Agility Aspects related to Classical Triple Constraint



## Defining Agile Requirements Engineering (ARE)

Agile Requirements Engineering is an approach that aligns with the Agile methodology, **focusing on iterative development, collaboration, and flexibility**. Unlike traditional requirements engineering, which typically involves extensive documentation and upfront planning, Agile Requirements Engineering **emphasizes adaptability and continuous feedback**.



**Stop starting,  
start finishing**

# Comparing Agile Requirements Engineering to Traditional Methods

## Traditional Requirements Engineering

- Upfront Planning
- Rigid Process
- Delayed Feedback
- Longer Time-to-Market



## Agile Requirements Engineering

- Continuous Planning
- Flexible Process
- Frequent Feedback
- Shorter Time-to-Market



# Comparing Agile Requirements Engineering to Traditional Methods

## Traditional Requirements Engineering:

- **Upfront Planning:** Extensive documentation and planning are done at the beginning of the project.
- **Rigid Process:** Changes are difficult to accommodate once the project is in the later stages.
- **Delayed Feedback:** Feedback is typically received at the end of the project, increasing the risk of misalignment with customer needs.
- **Longer Time-to-Market:** The sequential nature of the process often results in longer development cycles.

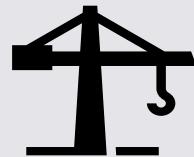
## Agile Requirements Engineering:

- **Continuous Planning:** Planning is done iteratively, allowing for ongoing refinement of requirements.
- **Flexible Process:** Changes can be incorporated at any stage of the project.
- **Frequent Feedback:** Regular interactions with stakeholders ensure continuous feedback and alignment.
- **Shorter Time-to-Market:** Incremental delivery enables faster deployment of functional system.

# Challenges and overcome challenges in Agile Requirements Engineering

## Challenges

- Maintaining Documentation
- Stakeholder Availability
- Scope Creep
- Team Alignment



## Techniques to Overcome Challenges

- Living Documentation
- Regular Stakeholder Meetings
- Clear Definition of Done
- Strong Communication Channels



# Challenges and overcome challenges in Agile Requirements Engineering

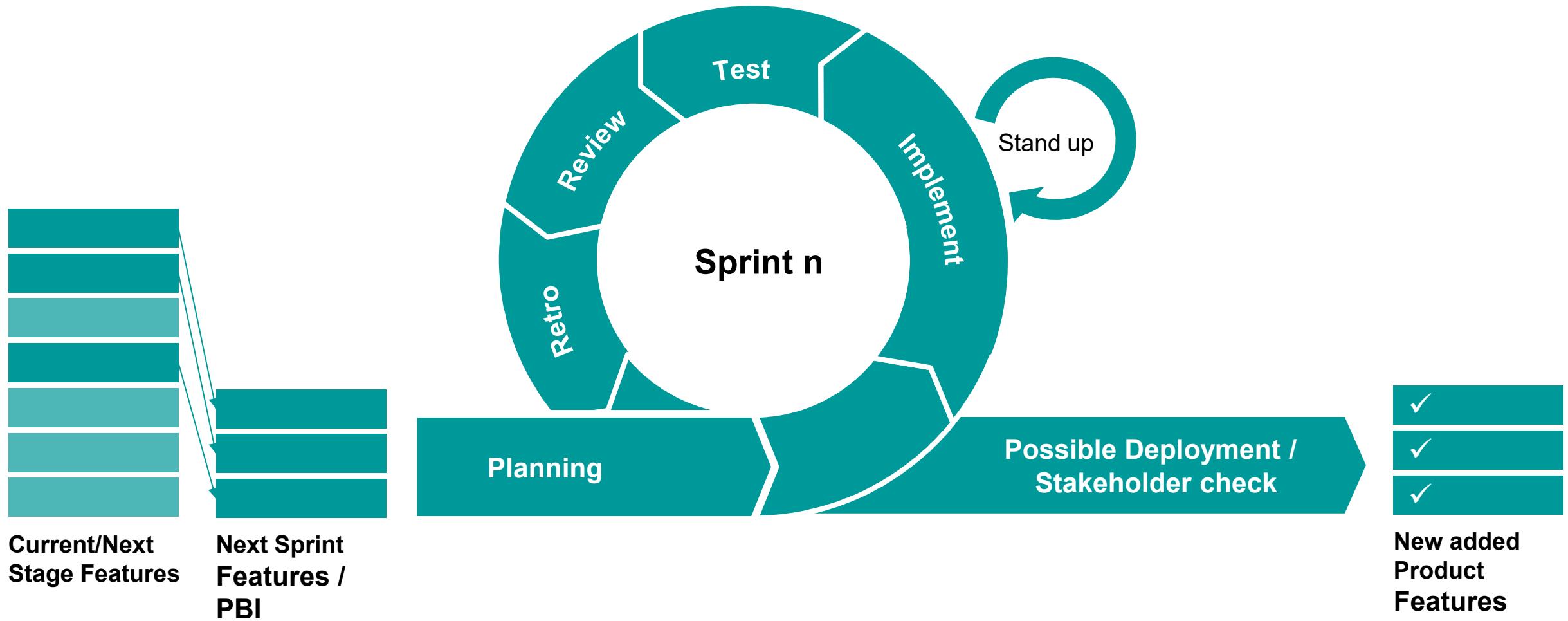
## Challenges

- Maintaining Documentation:** In Agile, the focus on working systems can sometimes lead to inadequate documentation. Balancing sufficient documentation with the Agile principle of simplicity is crucial.
- Stakeholder Availability:** Continuous collaboration requires stakeholders to be actively involved throughout the project. Ensuring their availability can sometimes be challenging.
- Scope Creep:** The flexibility to accommodate changes can sometimes lead to scope creep, where additional features are continuously added, potentially impacting timelines and budgets.
- Team Alignment:** Ensuring that all team members have a shared understanding of the requirements and priorities requires effective communication and coordination.

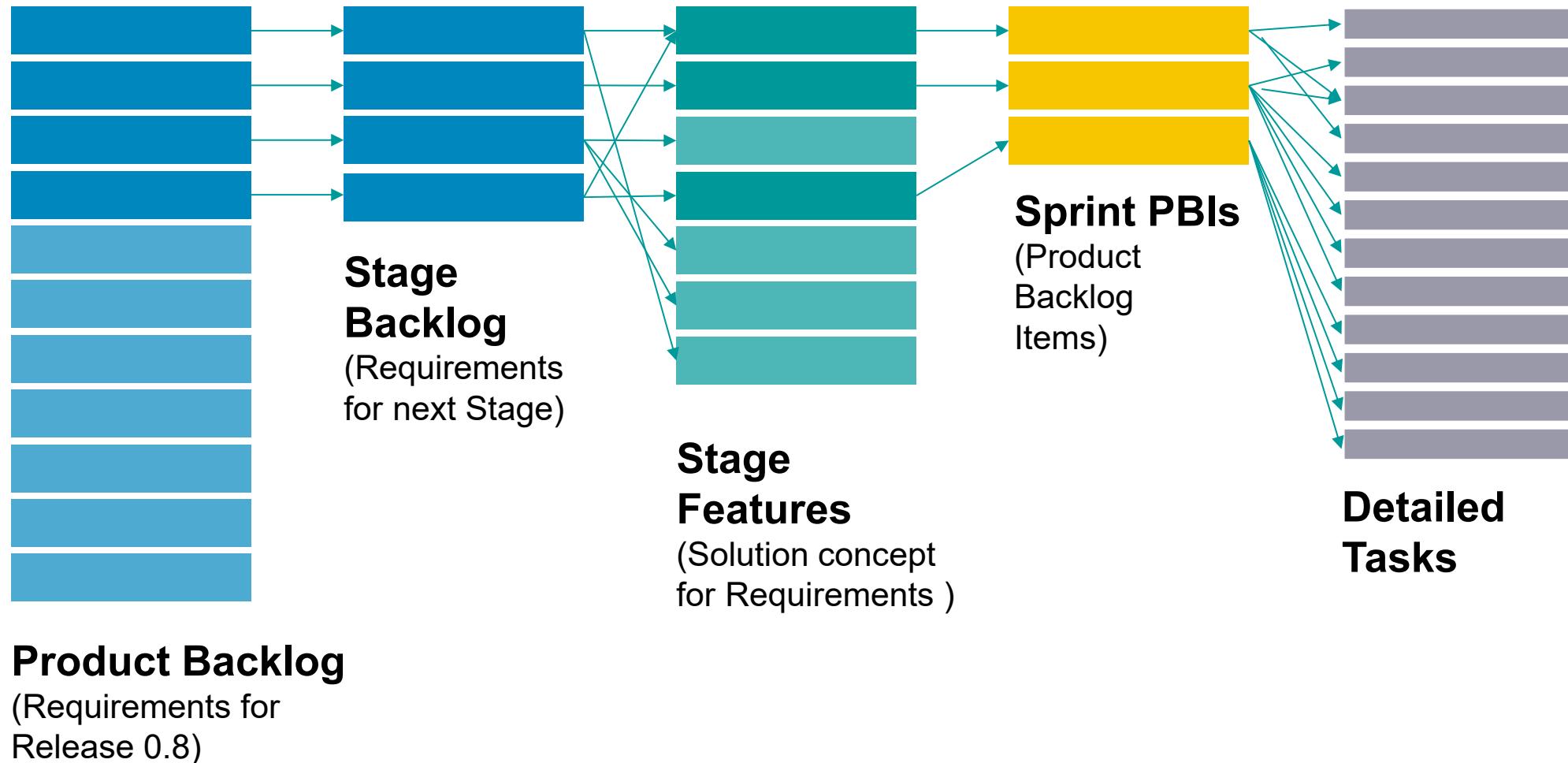
## Techniques to Overcome Challenges

- Living Documentation:** To maintain adequate documentation without hindering agility, teams can adopt the concept of "living documentation." This means keeping documents up-to-date with the latest developments and using tools that automatically generate documentation from code and tests.
- Regular Stakeholder Meetings:** Scheduling regular meetings with stakeholders, such as weekly or bi-weekly check-ins, can ensure their continuous involvement and timely feedback.
- Clear Definition of Done:** Establishing a clear and agreed-upon definition of done for user stories can help mitigate scope creep. This ensures that all team members and stakeholders have a shared understanding of when a requirement is considered complete.
- Strong Communication Channels:** Utilizing tools and practices that enhance communication, such as collaborative platforms, regular stand-ups, and pair programming, can help align team members and ensure everyone is on the same page.

## Sprint approach (according to scrum methodology)



# How get from Product Requirements to Sprint Tasks



# Benefits of Agile Requirements Engineering (ARE)

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1

## Enhanced Flexibility

ARE allows teams to adapt to changes quickly, ensuring that the final product aligns with the evolving needs of the customer.

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2

## Improved Stakeholder Engagement

Continuous collaboration with stakeholders ensures that their needs are met, leading to higher satisfaction and better alignment with business goals.

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3

## Early Detection of Issues

By delivering incremental updates, teams can identify and address issues early in the development process, reducing the risk of major setbacks.

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4

## Faster Time-to-Market

The iterative nature of ARE enables the delivery of functional increments sooner, providing value to the customer more quickly.

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5

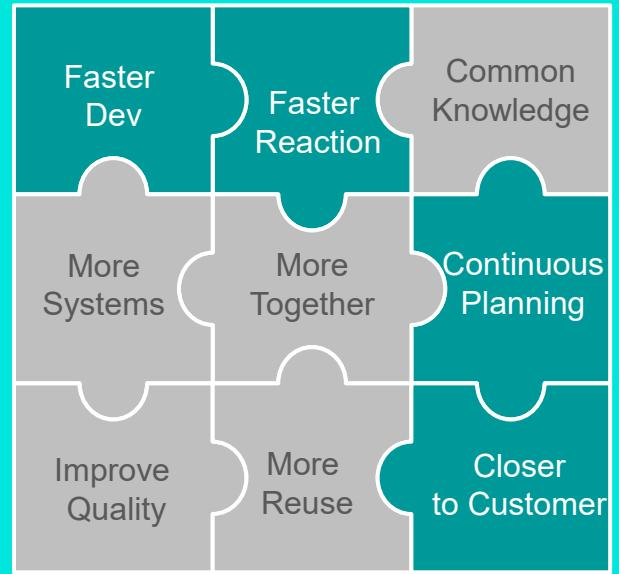
## Better Quality

Continuous feedback and iterative improvements lead to higher quality system that meets the actual needs of users.

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Focus: Agile Teams



# RE in agile Environment

What's the difference to classic RE?

Q&A