



# Definition

## of Requirements Engineering plus



# Definition of Requirements Engineering Plus



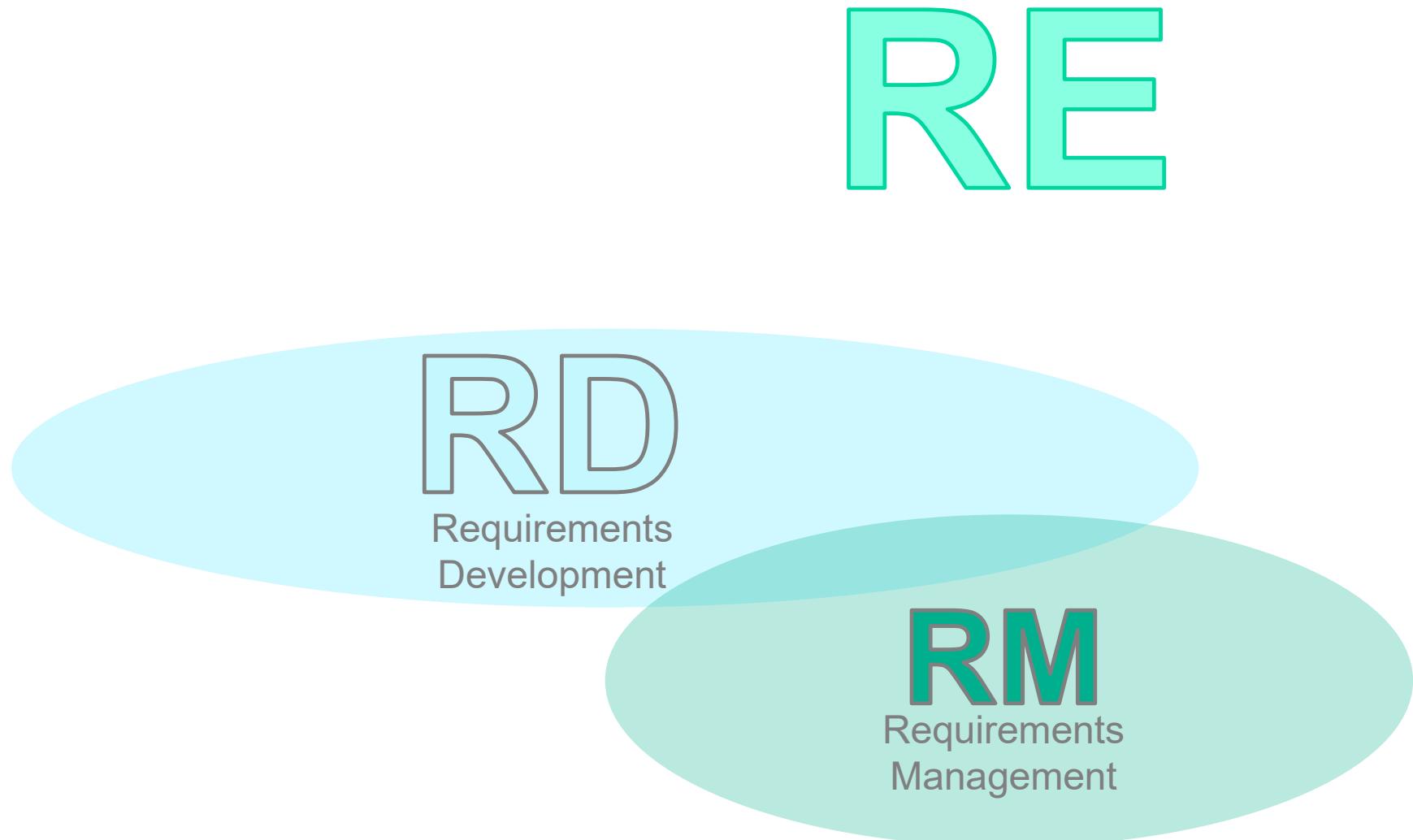
Requirements engineering Plus encompasses all activities of the product life cycle for

- Identification of stakeholder requirements,
- analyzing the requirements to derive further requirements,
- documenting the requirements as a specification,
- creating and document feasible solutions
- managing progress and changes
- validating and verifying the documented requirements and solutions against the customer requirements

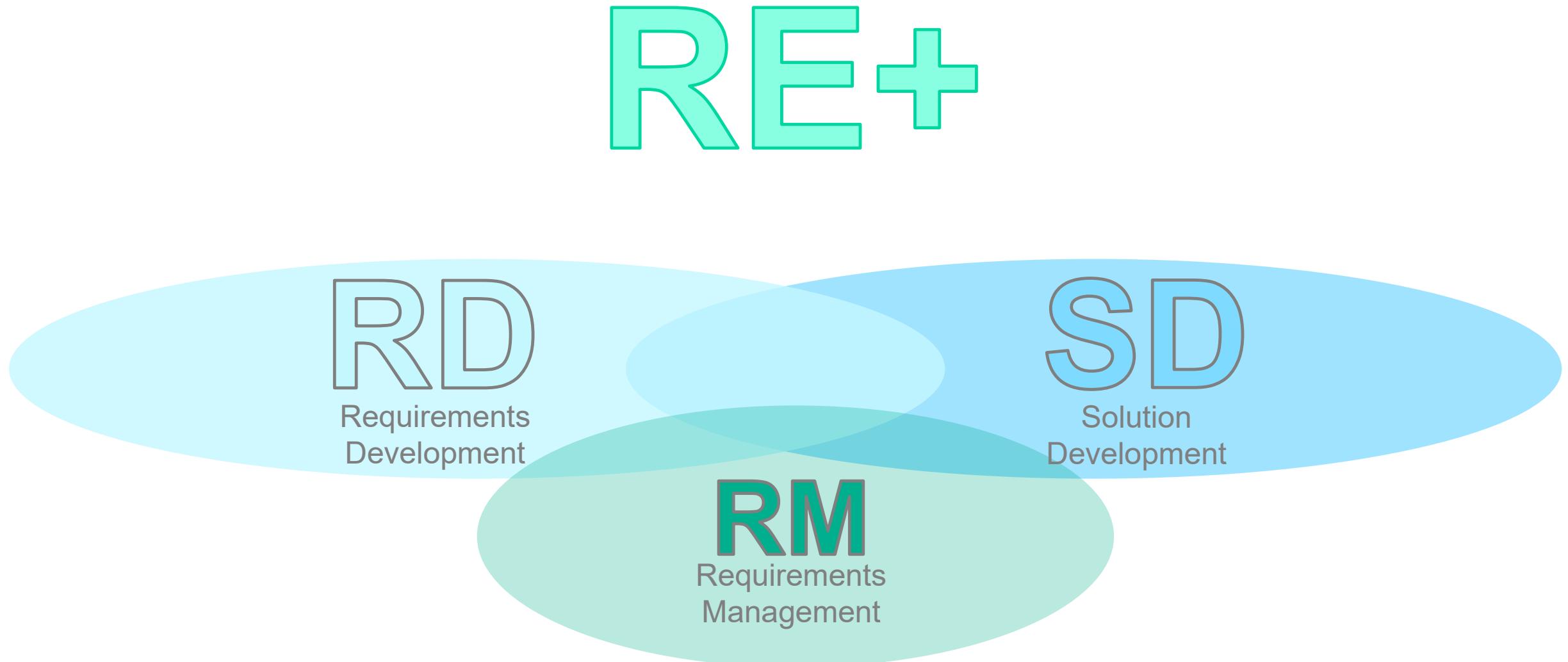
and

- processes that support these activities.

## RE includes Requirements Development and Requirements Management



# Requirements Engineering Plus includes RD, RM and Solution Development



# Explanation of RD, RM and SD

Requirements development and requirements management and solution development are three closely related but different disciplines:

## Requirements Development:

- **Focus:** Eliciting, analyzing, specifying and validating requirements.
- **Objective:** To ensure that requirements are correct, complete, consistent and understandable.
- **Activities:** Requirements elicitation, analysis, documentation, requirements validation and verification.

## Requirements Management:

- **Focus:** Managing and controlling requirements throughout the lifecycle of a project.
- **Objective:** To ensure that requirements remain current and traceable throughout the project.
- **Activities:** Progress tracking, change management, requirements traceability, version control and communication to all stakeholders.

## Solution Development

- **Focus:** Translating Requirements into a Technical Solution.
- **Objective:** To ensure that the solution is feasible, and can be implemented within the given constraints, such as budget, time, and resources
- **Activities:** Architecture Design, component design, prototyping, realization, module testing, ...



## Summary

RE+

Requirements engineering plus  
is a systematic approach to  
ensuring the development of  
the right product or system

## Advantages and opportunities of good RE

- Improve the chances of developing the "right" / successful product/system.
- Avoiding late requirement changes that cost a lot of money.
- Omitting functions that the customer would not spend money on.
- Common understanding of the requirements throughout the PLM team
- Everyone in the team understands the importance of each requirement from a market perspective
- Earlier start of the realization clarifications
- Earlier market entry

## Qualitative results

- More reliable requirements (at an earlier stage)
- Better requirements documents (SRS, RS)

## Question



When should we do Requirements Engineering?

Do the projects have specific criteria?

## When should we do RE?

It is always useful when it comes to

- bringing clarity and structure to the development process,
- coordinating collaboration,
- managing complex requirements and
- ultimately developing a high-quality, standard-compliant product.

So, I would say:

Always 😊



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of Requirements Engineering plus

# Q&A