



PXL – IT

# 42TIN1280 Software Analysis Requirements Process

Nathalie Fuchs

Luc Doumen

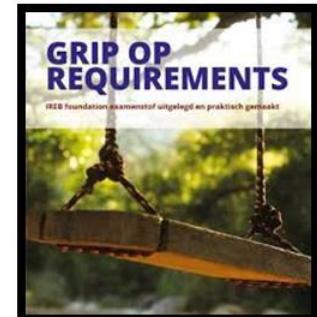
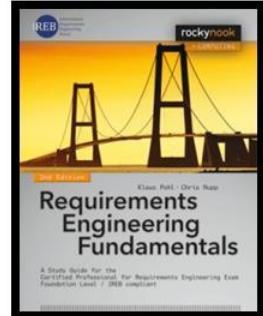
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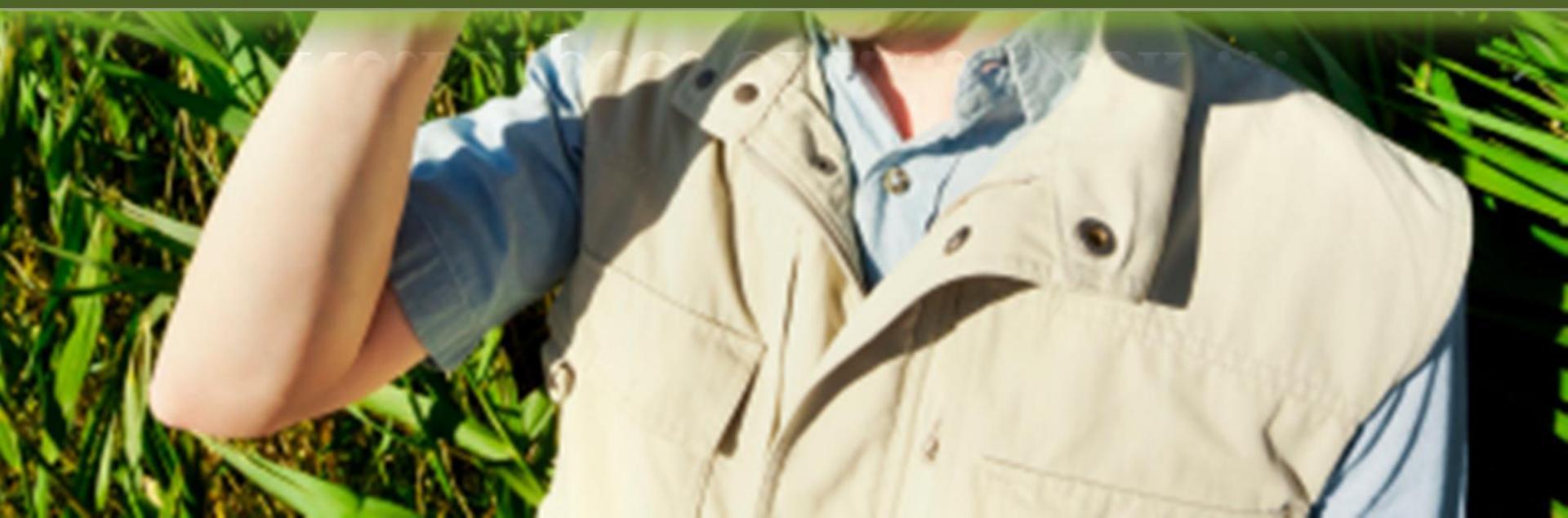
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- Retrospect of last week ...
  - Where does Software Analysis fit in?
- Commonly used requirements processes
- The process used within this course
  - Cf. IREB, IIBA → books
- Recapitulation case “BA wanted”

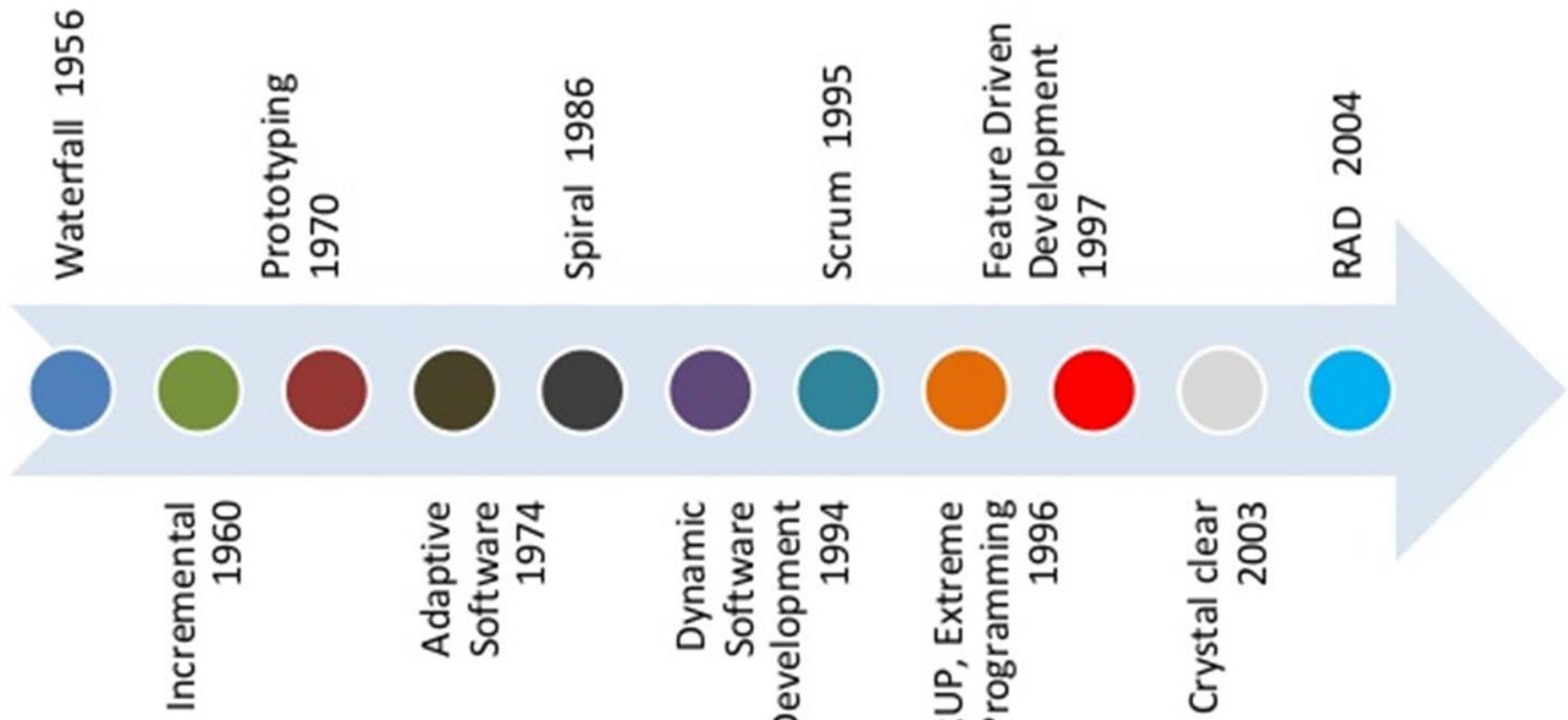




Retrospect of last week ...



# Retrospect of last week ...



# Retrospect of last week ...

Enterprise-Scale  
Adaptive (Lean & Agile)  
Processes



Adaptive  
(Agile)  
Processes

OpenUP  
Crystal      FDD  
Scrum      Lean      Kanban  
XP      DSDM

Iterative  
Processes

RAD      Spiral  
RUP

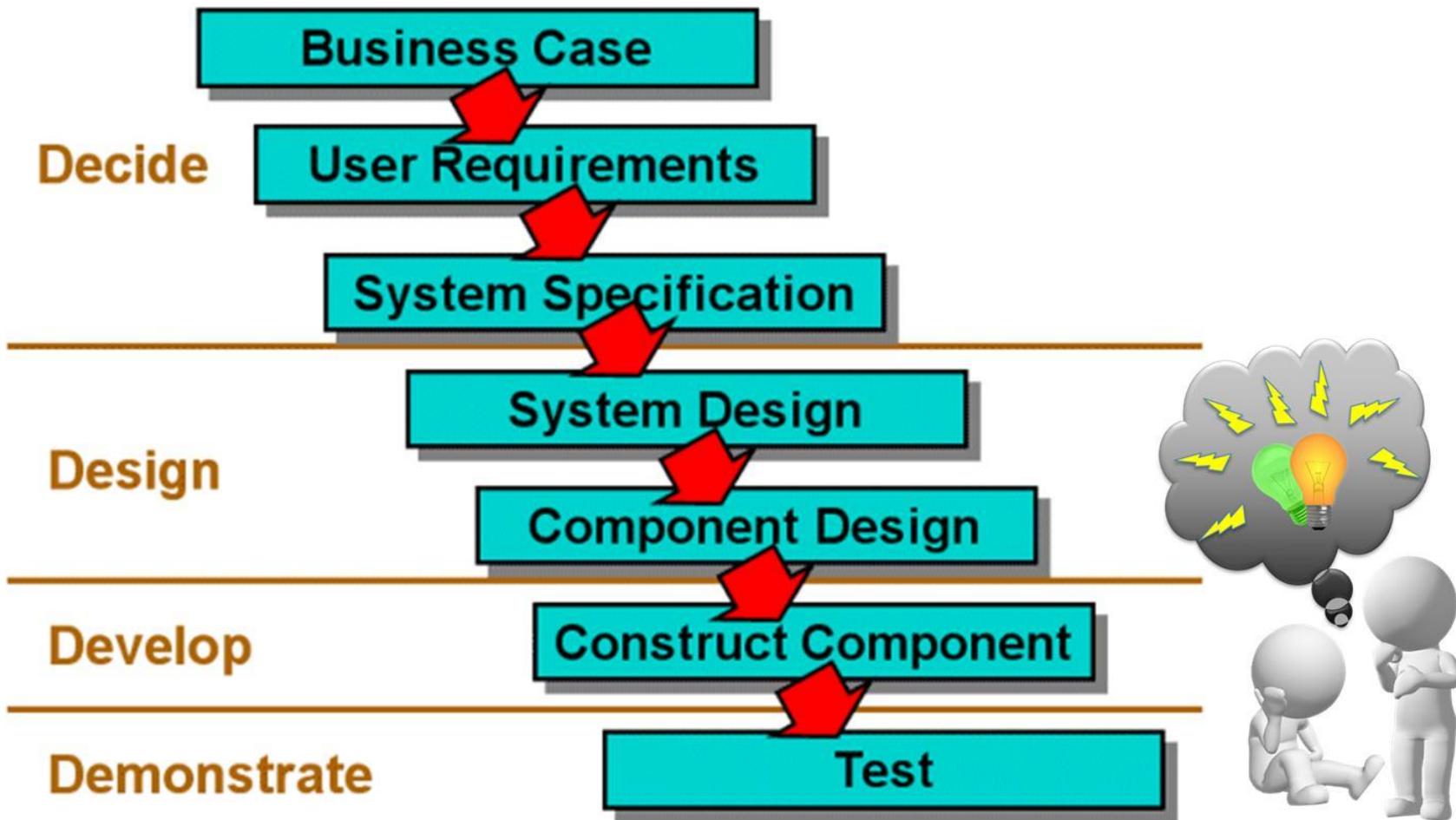
Predictive  
Processes

Waterfall      V-model  
model



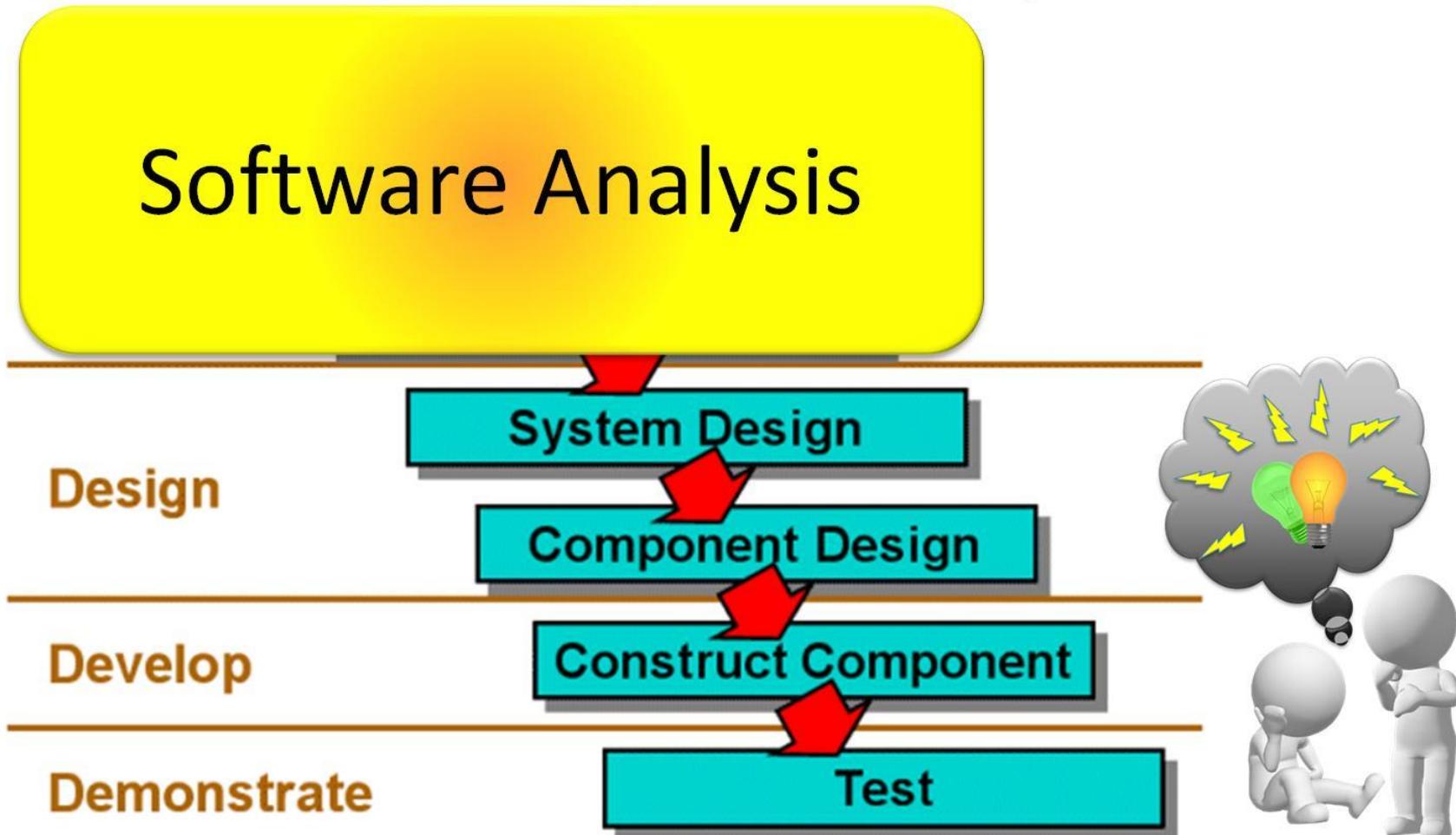
# Retrospect of last week ...

- Waterfall - Where does Software Analysis fit in?



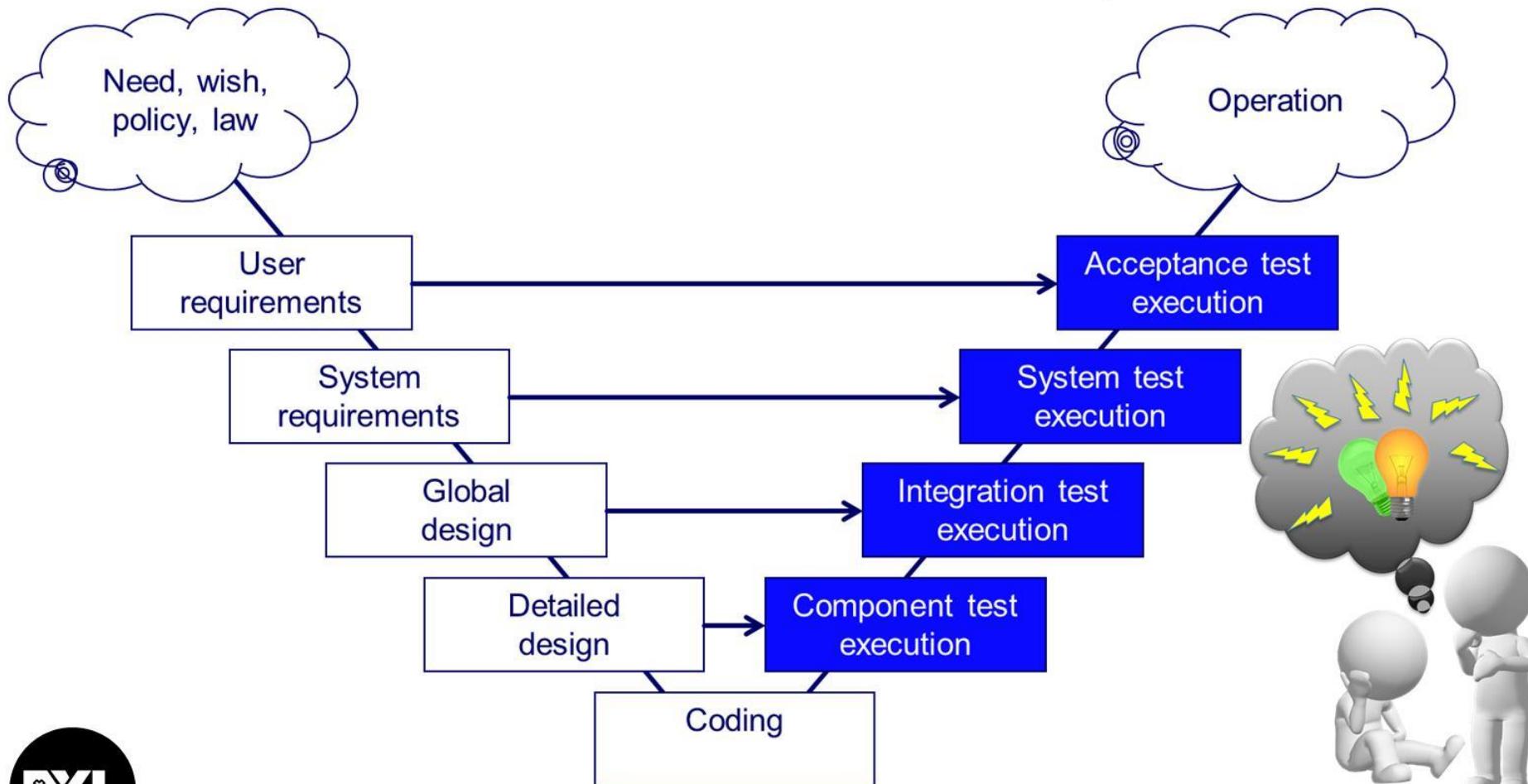
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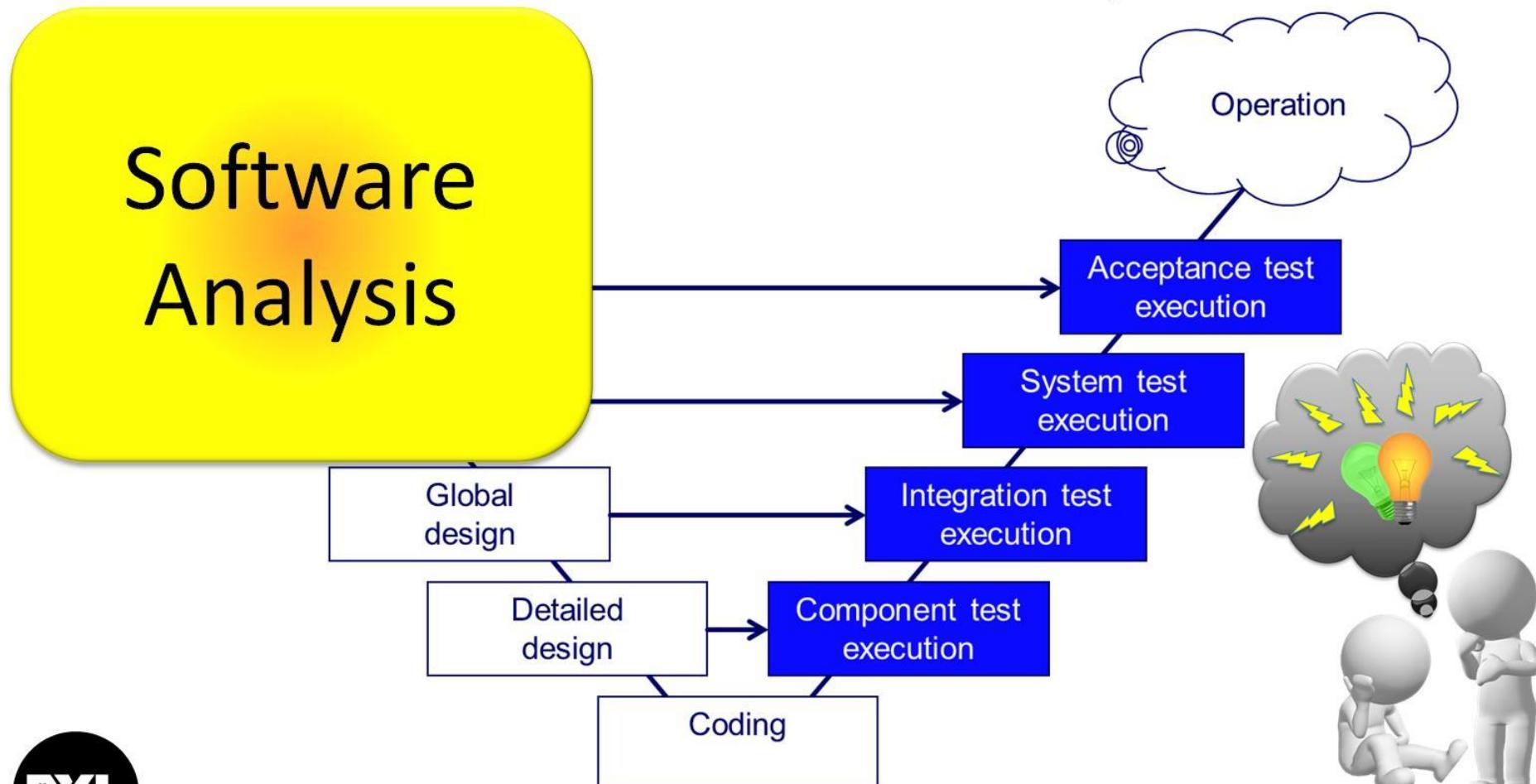
# Retrospect of last week ...

- V-model - Where does Software Analysis fit in?



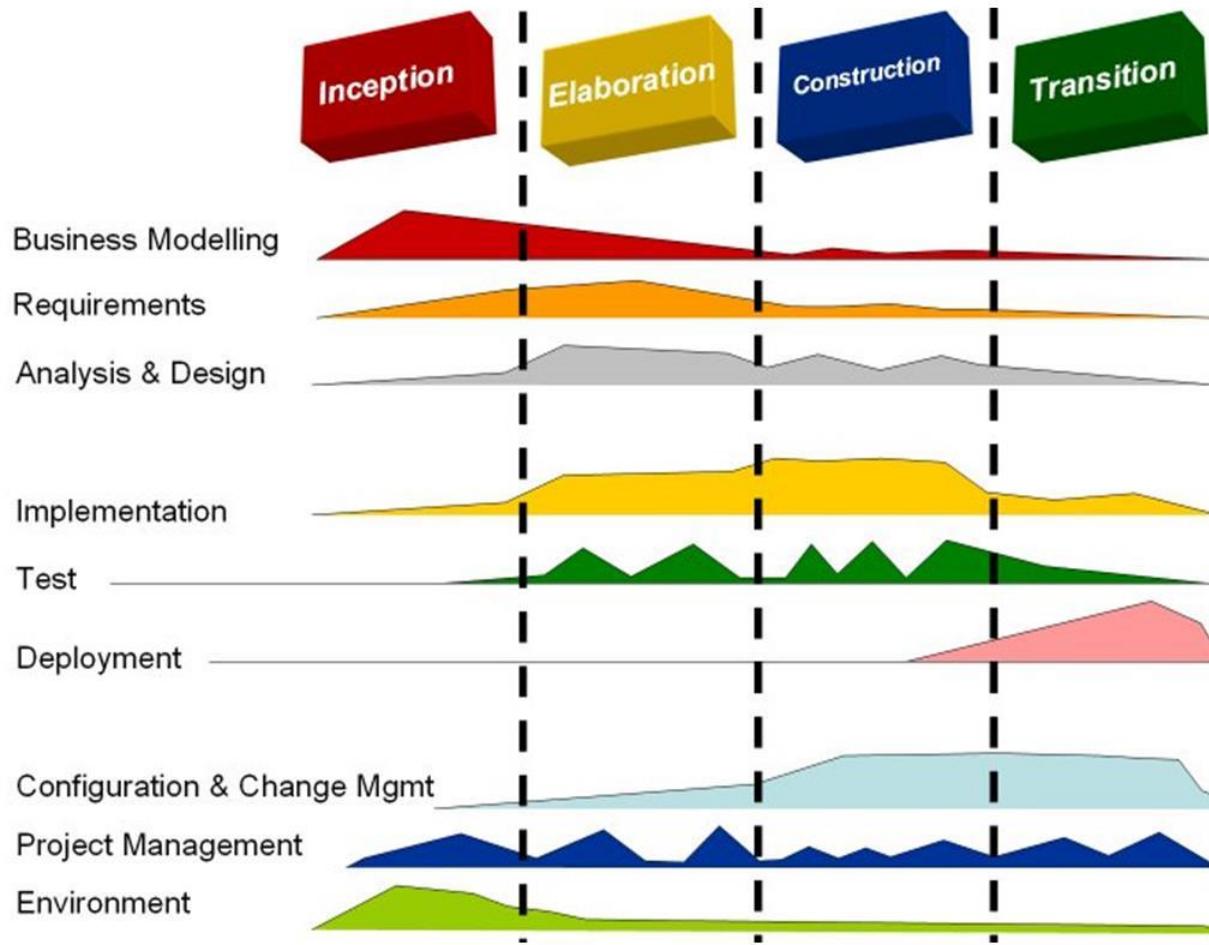
# Retrospect of last week ...

- V-model - Where does Software Analysis fit in?



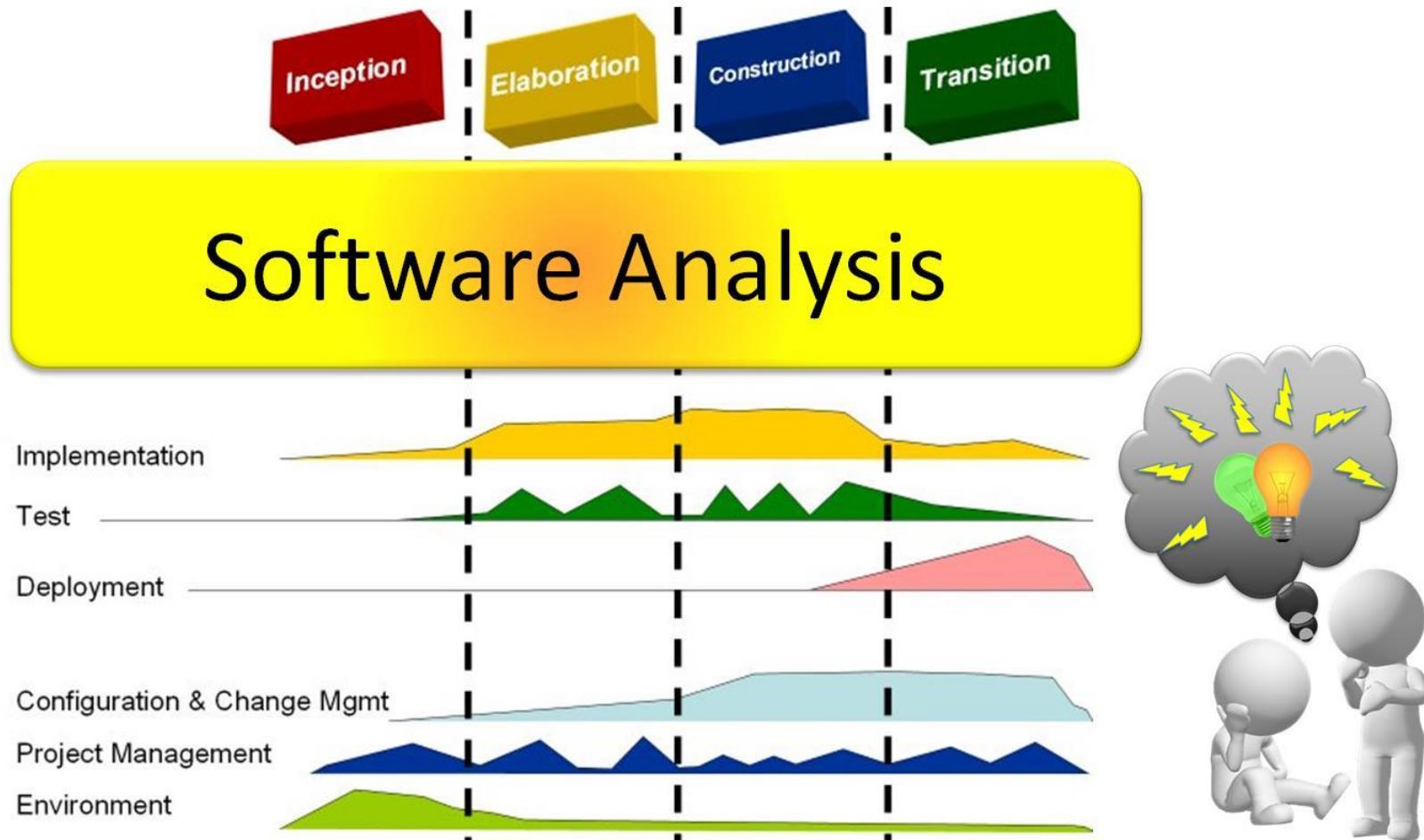
# Retrospect of last week ...

- RUP - Where does Software Analysis fit in?



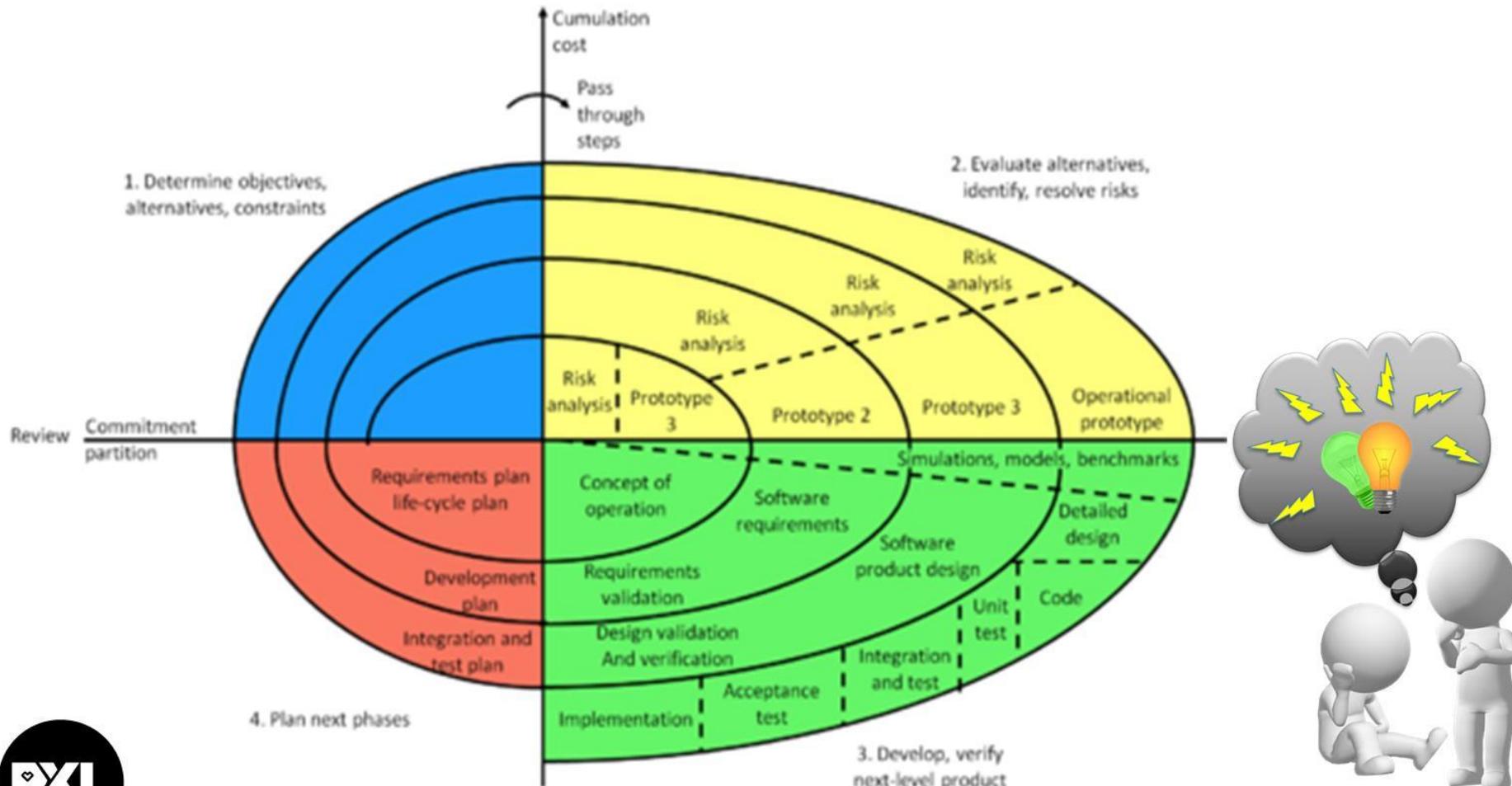
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- RUP - Where does Software Analysis fit in?



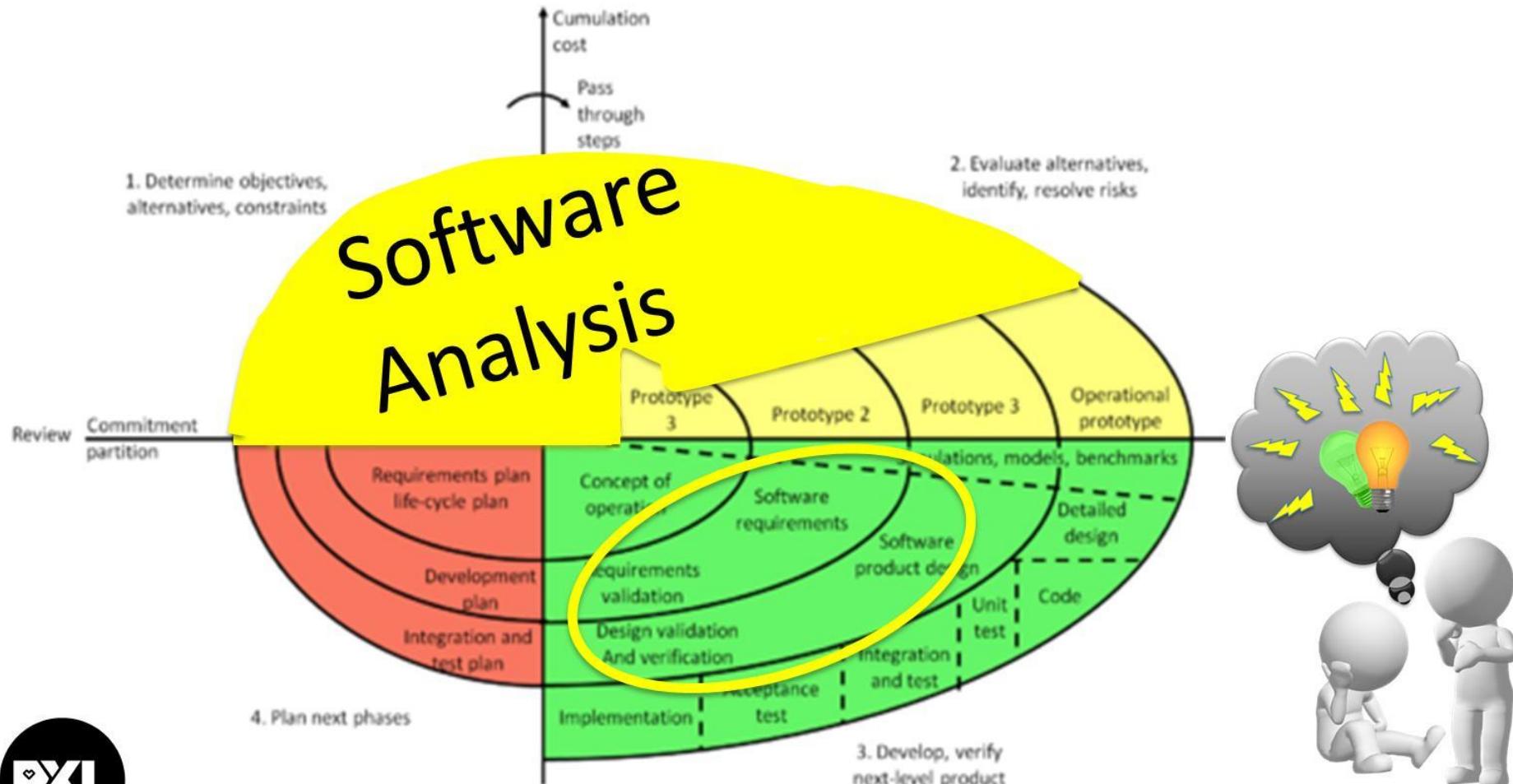
# Retrospect of last week ...

- SPIRAL - Where does Software Analysis fit in?



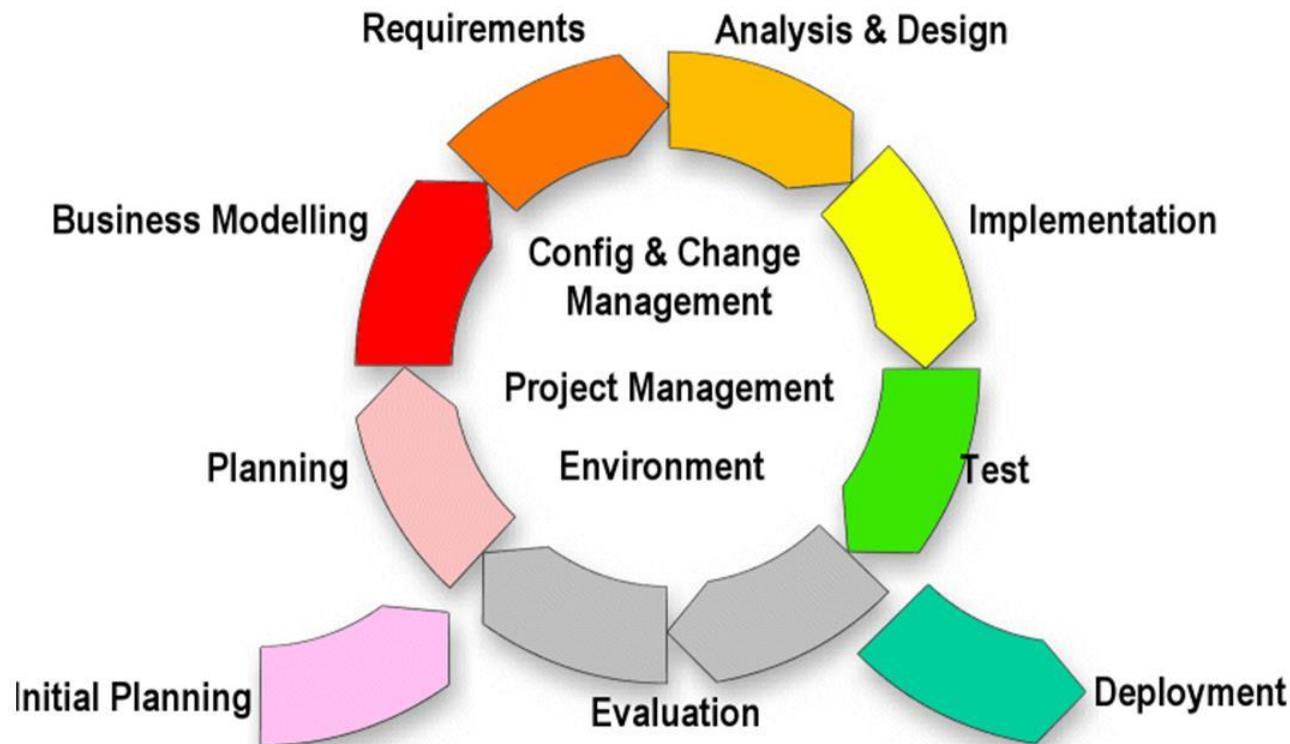
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- SPIRAL - Where does Software Analysis fit in?



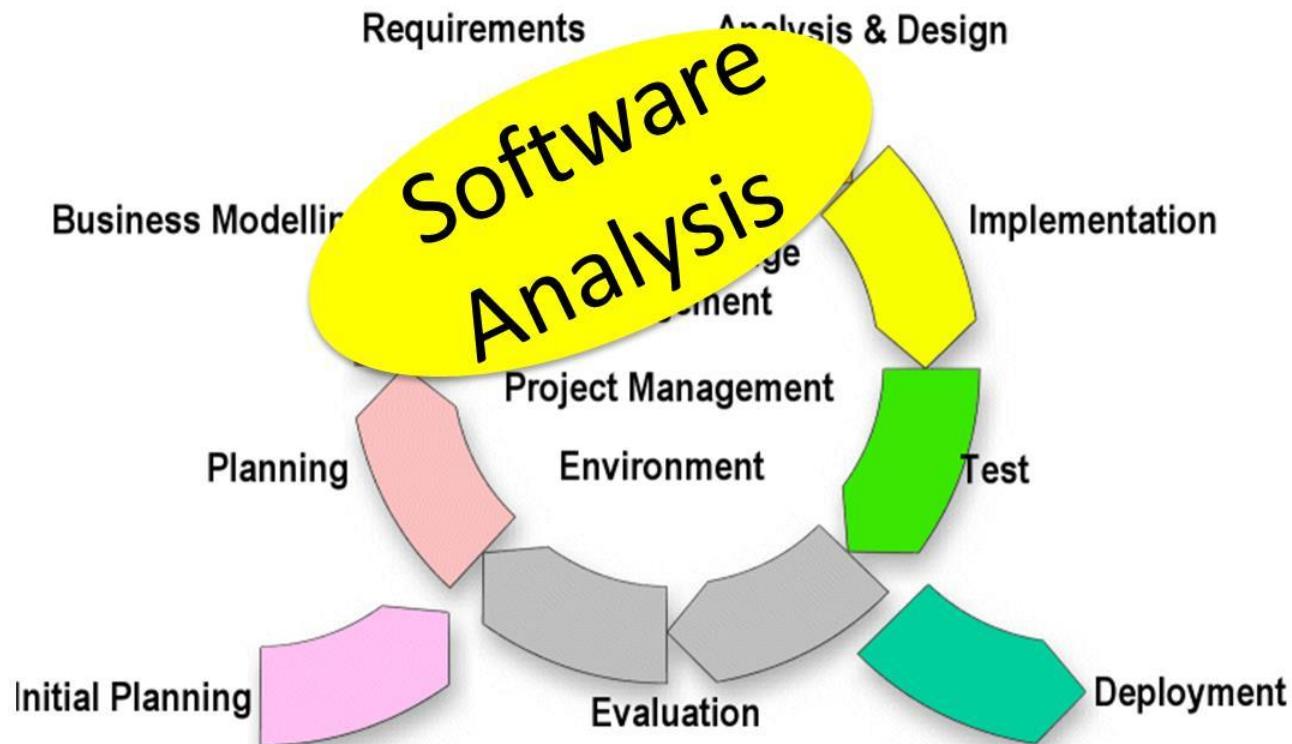
# Retrospect of last week ...

- RAD - Where does Software Analysis fit in?



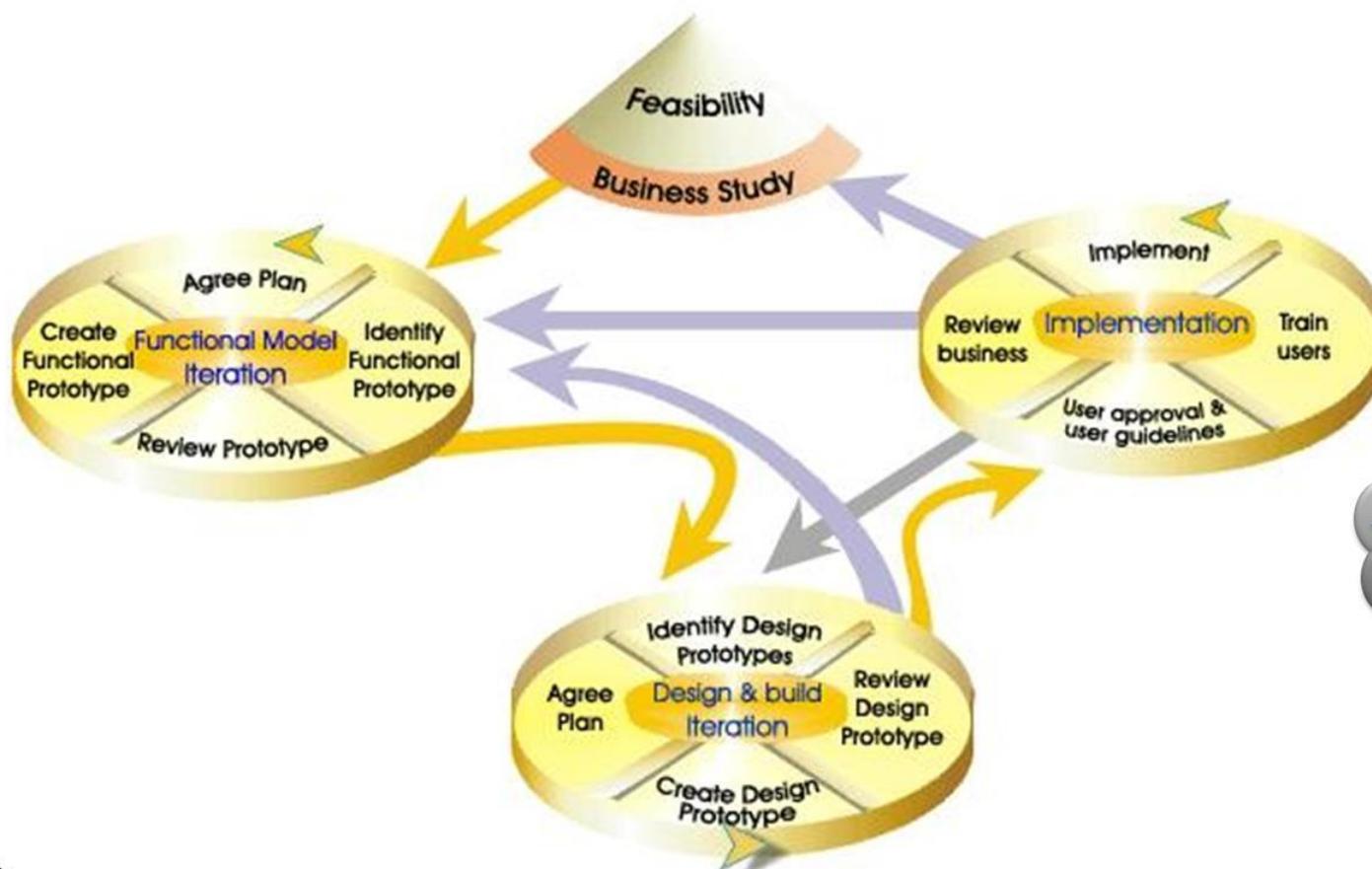
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- RAD - Where does Software Analysis fit in?



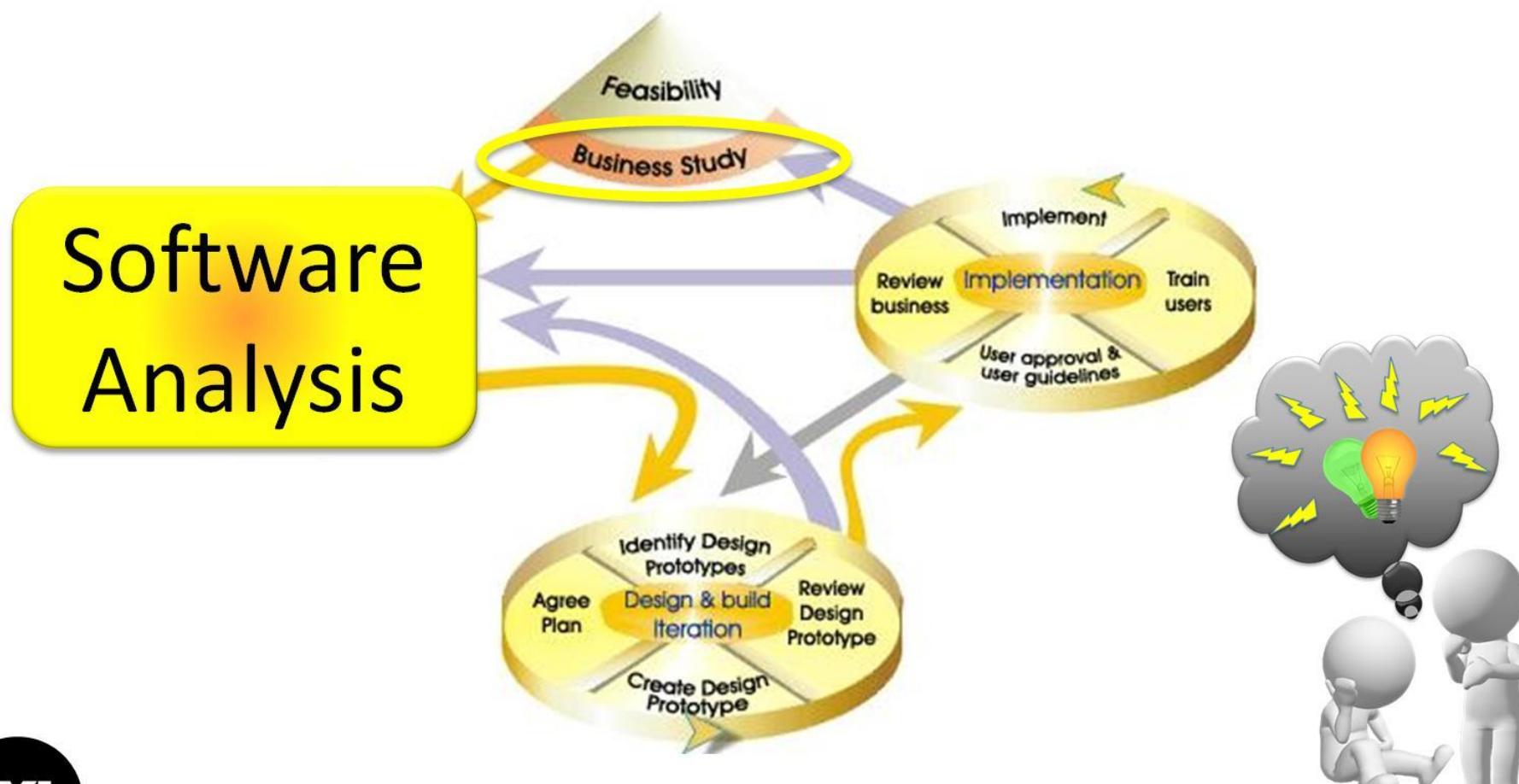
# Retrospect of last week ...

- DSDM - Where does Software Analysis fit in?



# Retrospect of last week ...

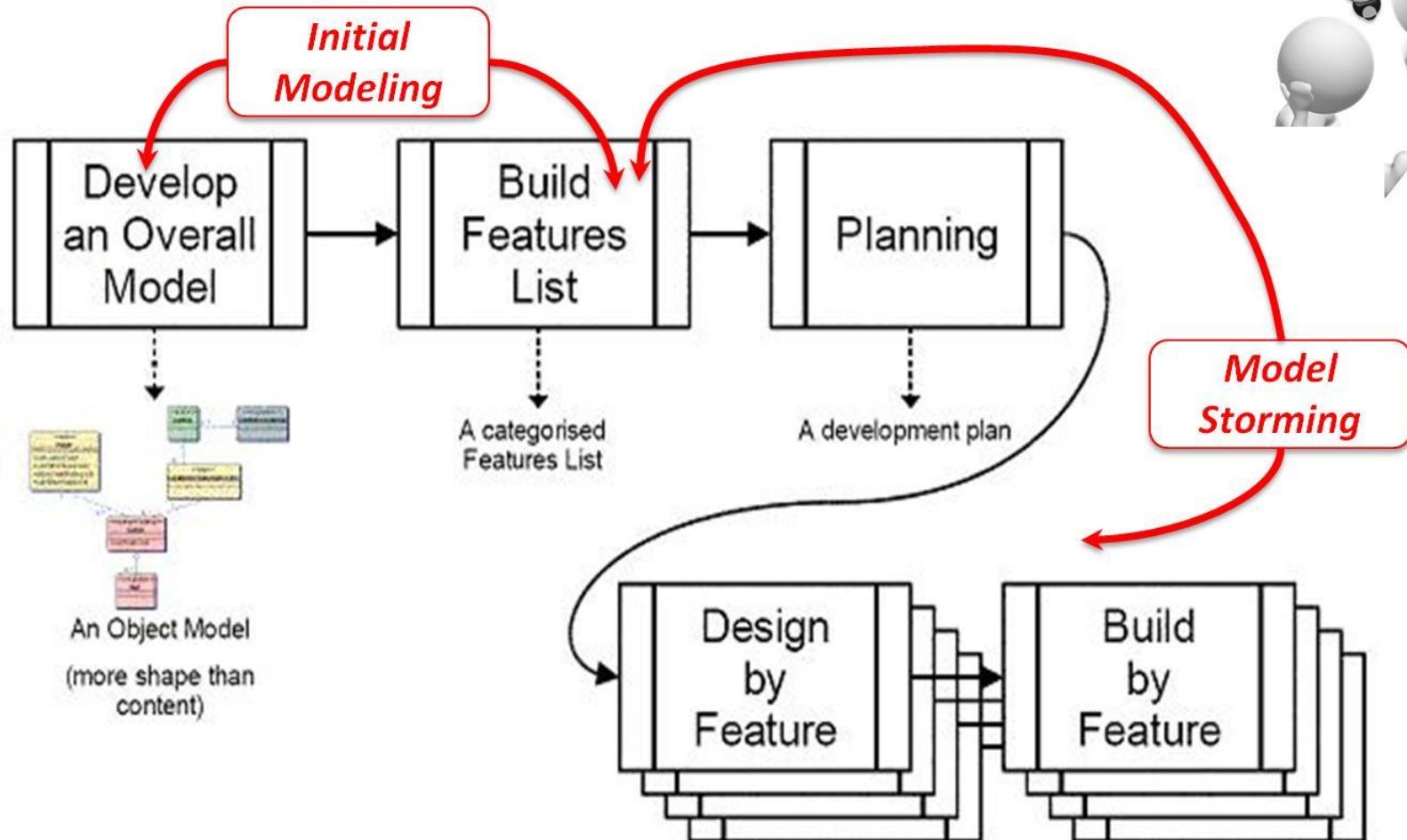
- DSDM - Where does Software Analysis fit in?



# Retrospect of last week ...



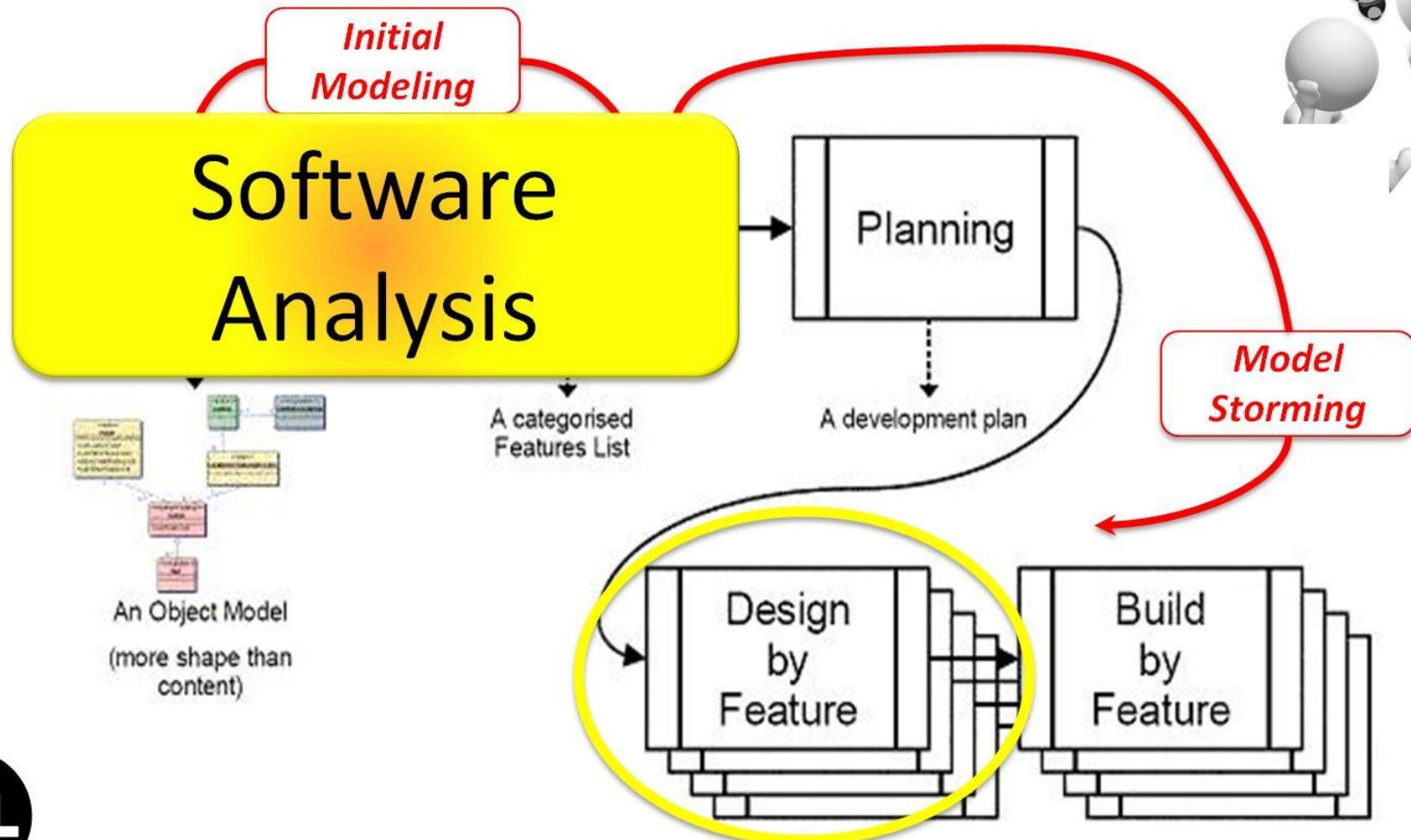
- FDD - Where does Software Analysis fit in?



# Retrospect of last week ...



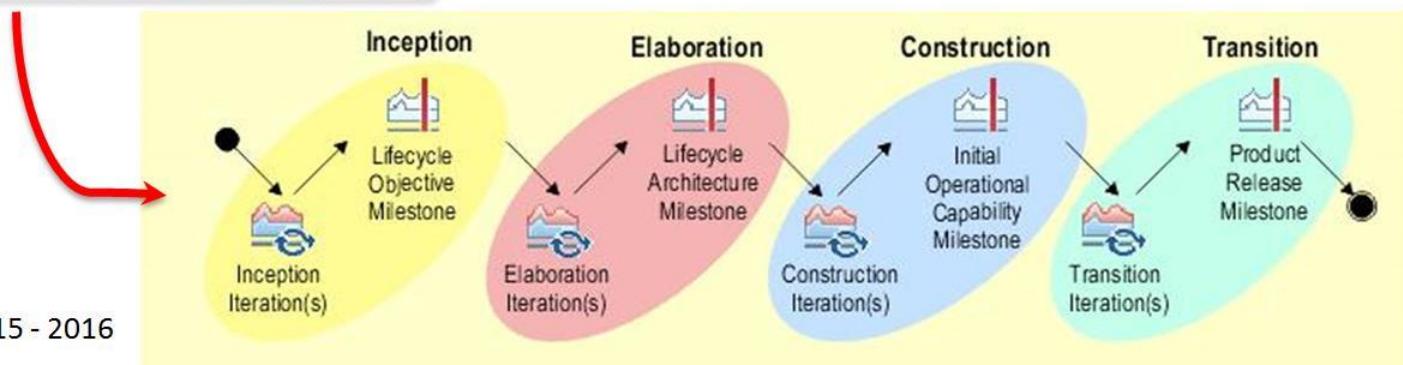
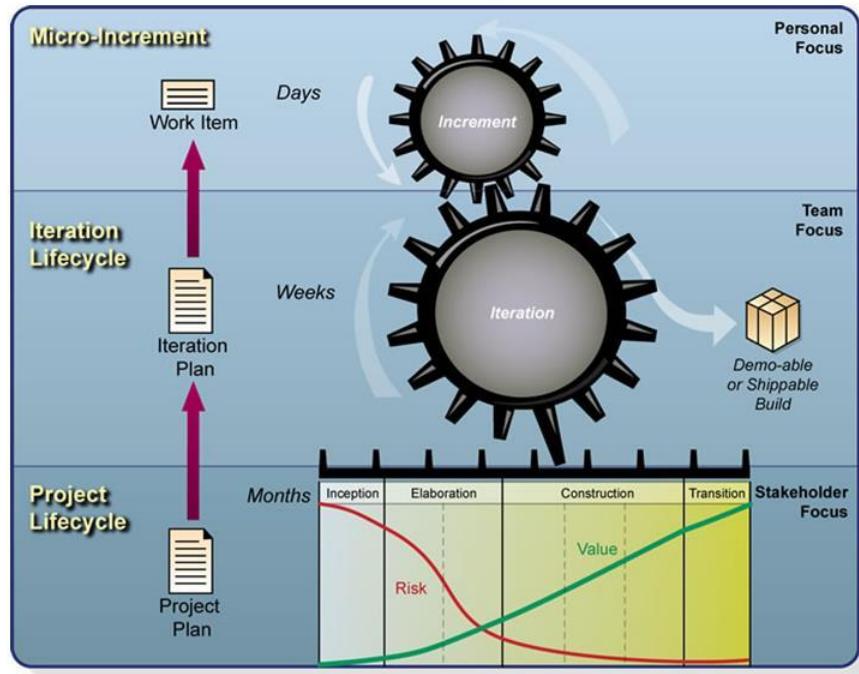
- FDD - Where does Software Analysis fit in?



# Retrospect of last week ...



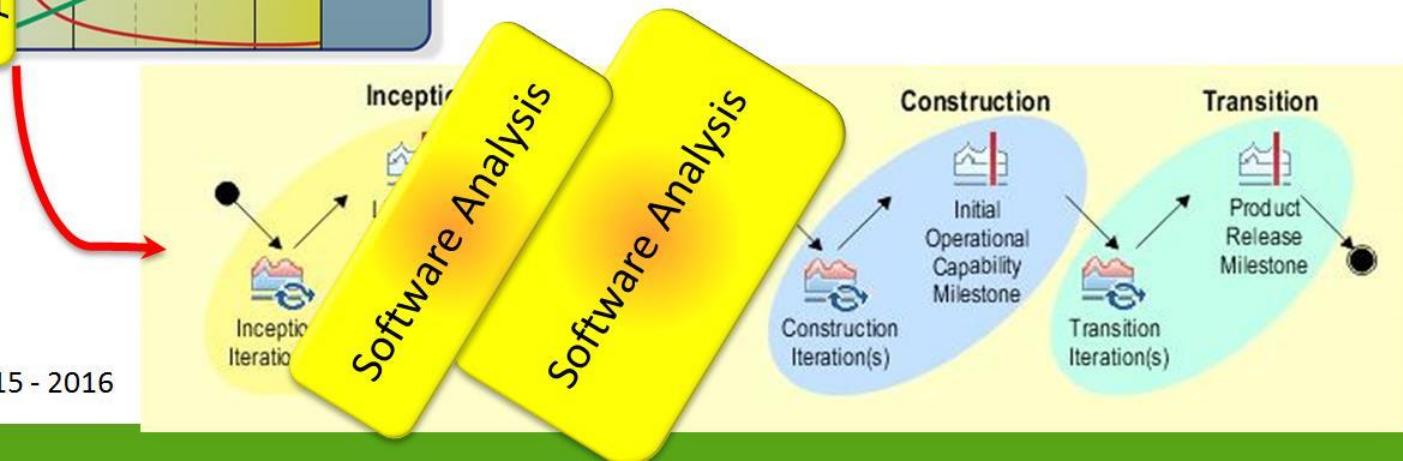
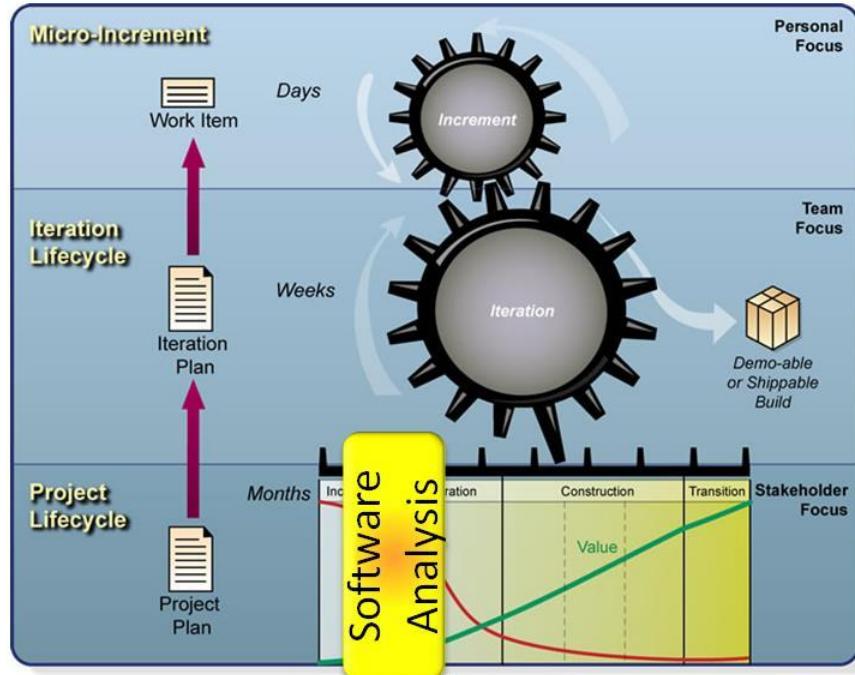
- OpenUp - Where does Software Analysis fit in.



# Retrospect of last week ...



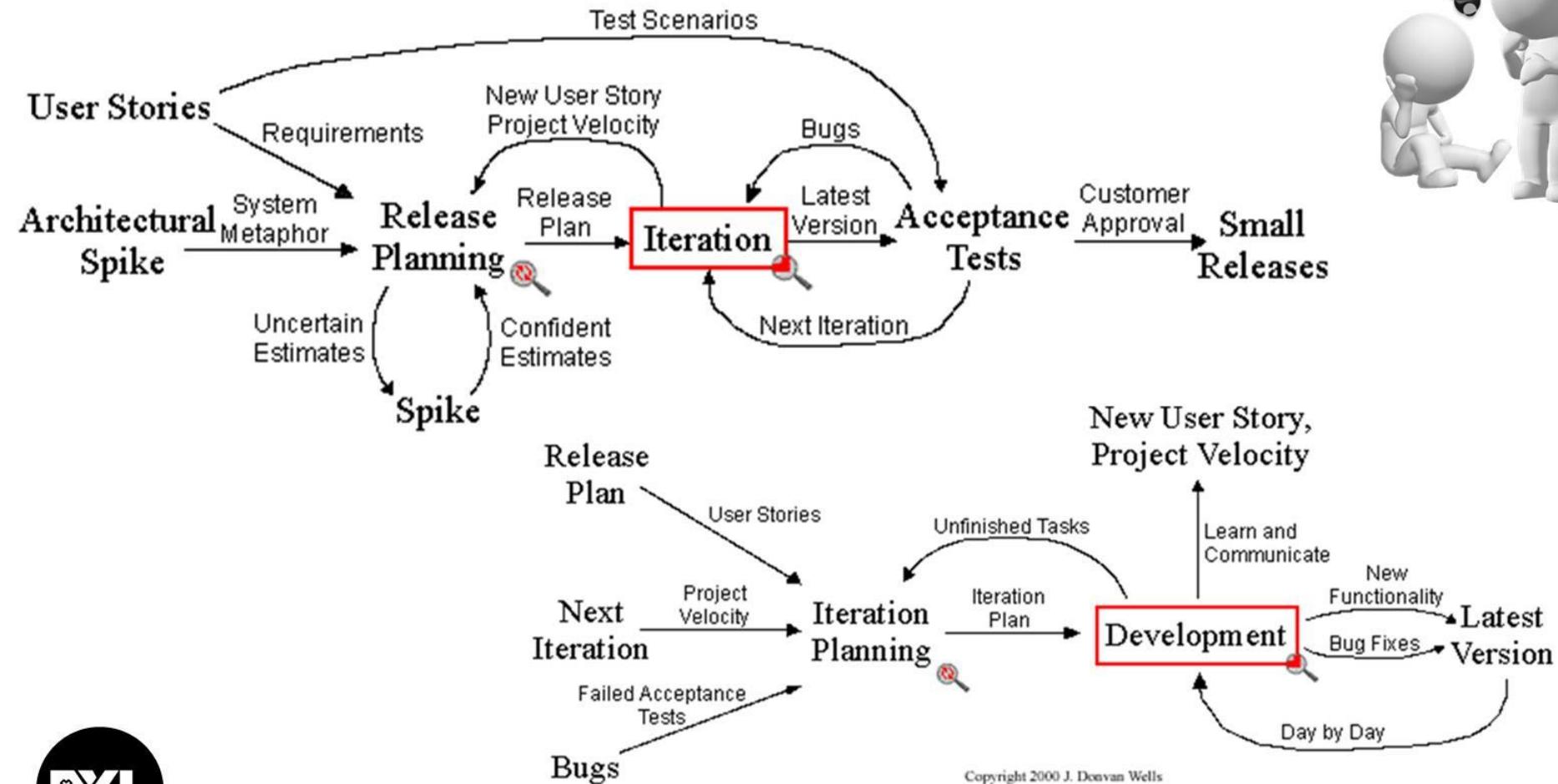
- OpenUp - Where does Software Analysis fit in.



# Retrospect of last week ...



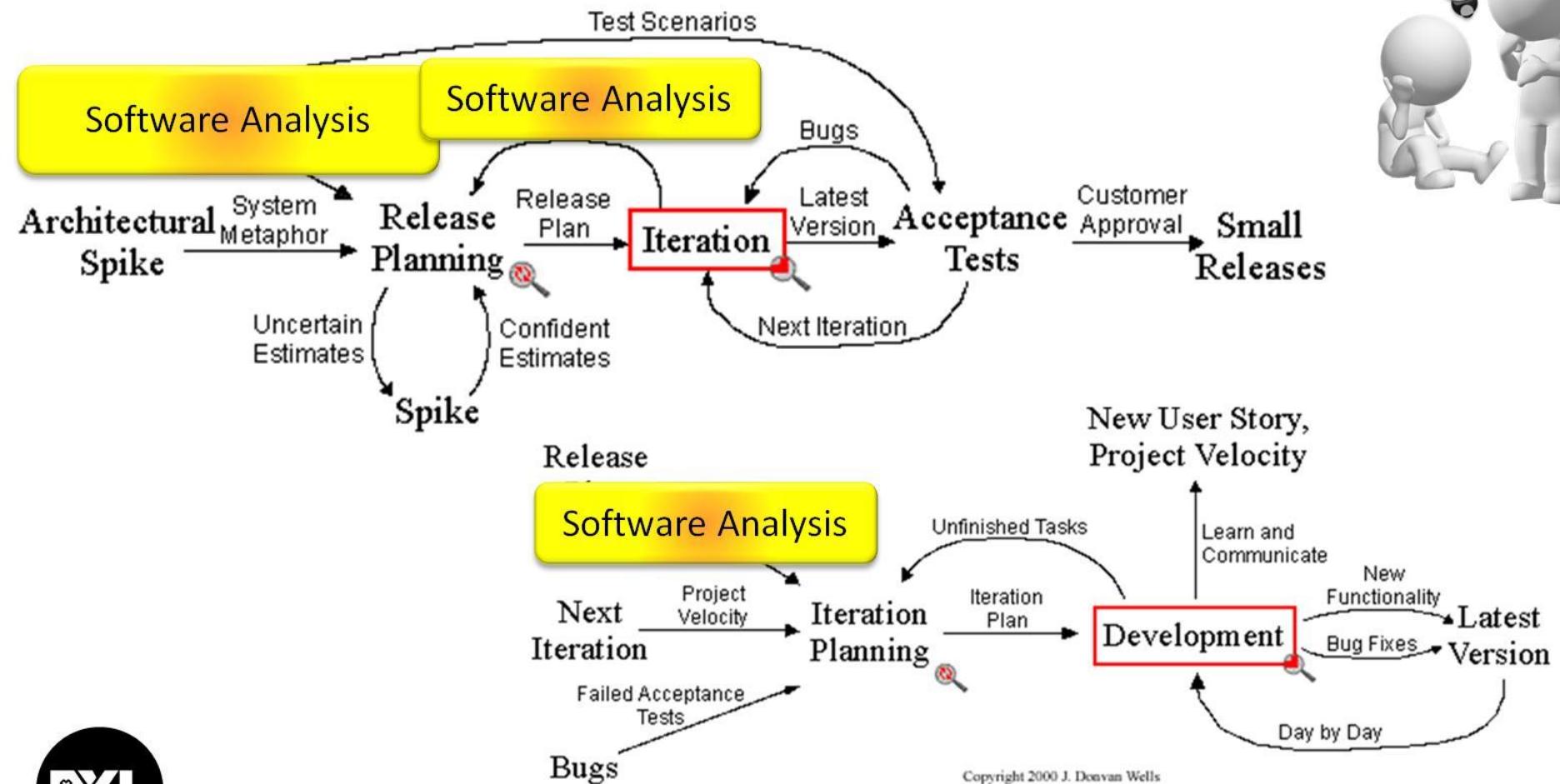
- XP - Where does Software Analysis fit in?



# Retrospect of last week ...

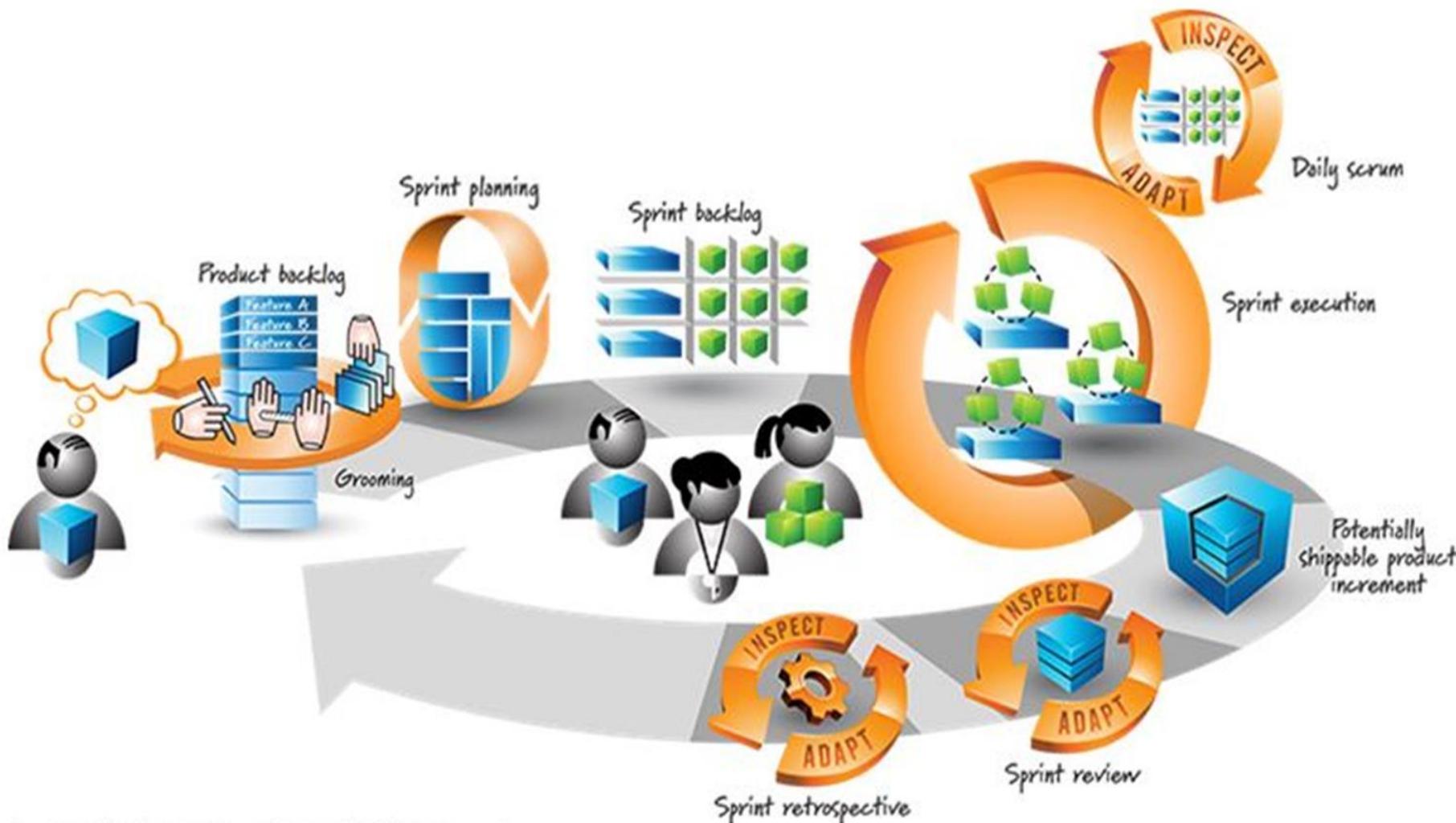


- XP - Where does Software Analysis fit in?



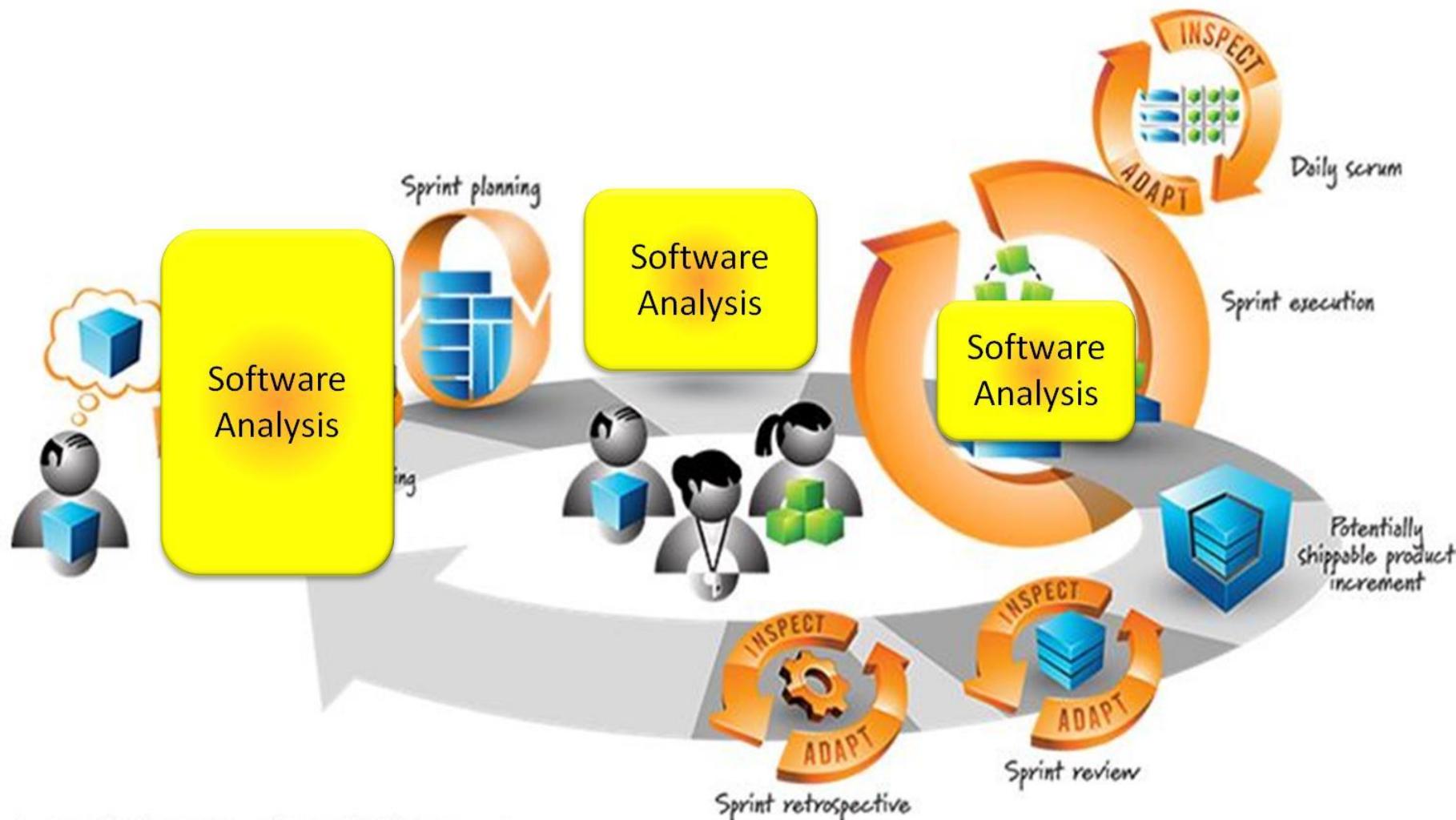
# Retrospect of last week ...

- SCRUM - Where does Software Analysis fit in?



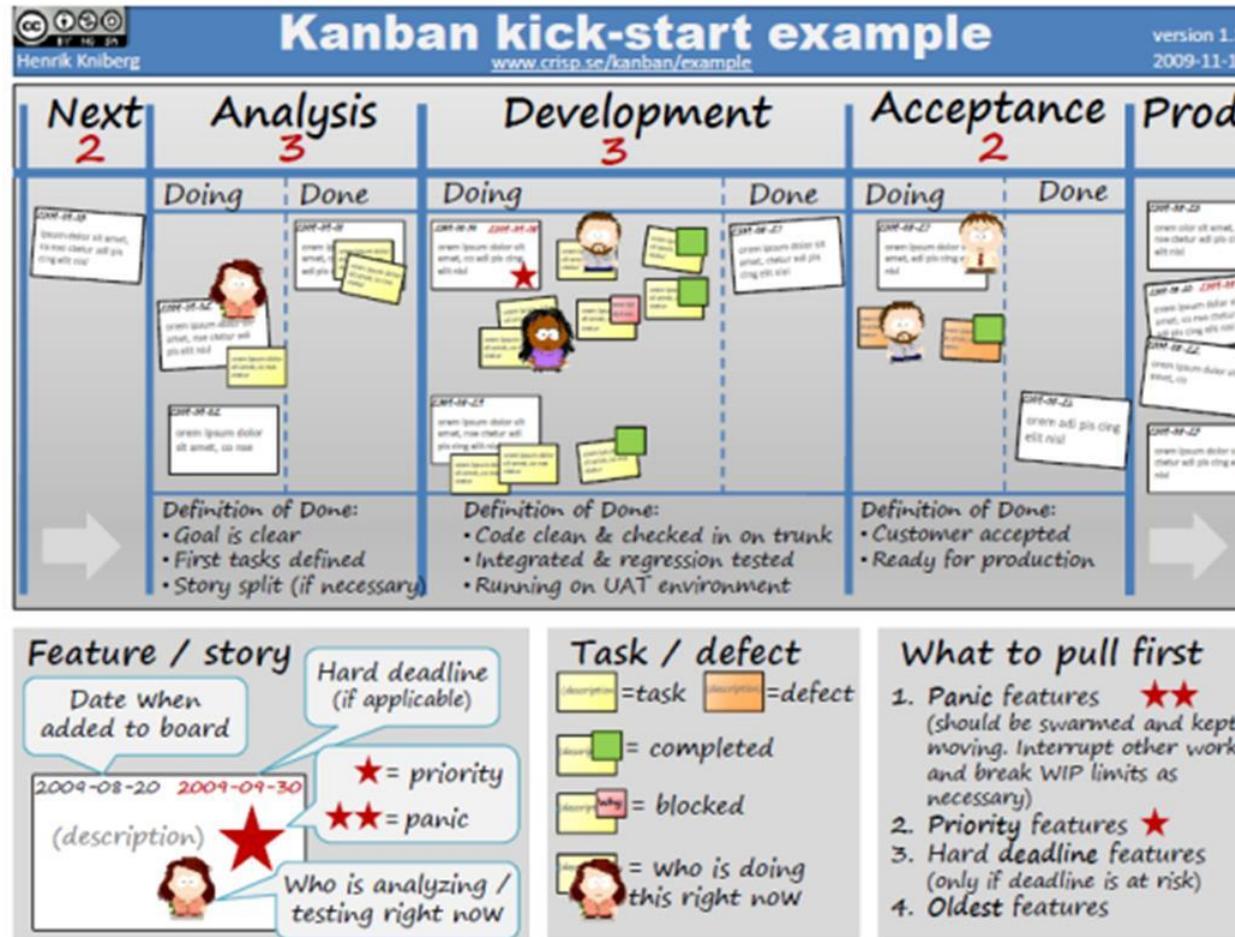
# Retrospect of last week ...

- SCRUM - Where does Software Analysis fit in?



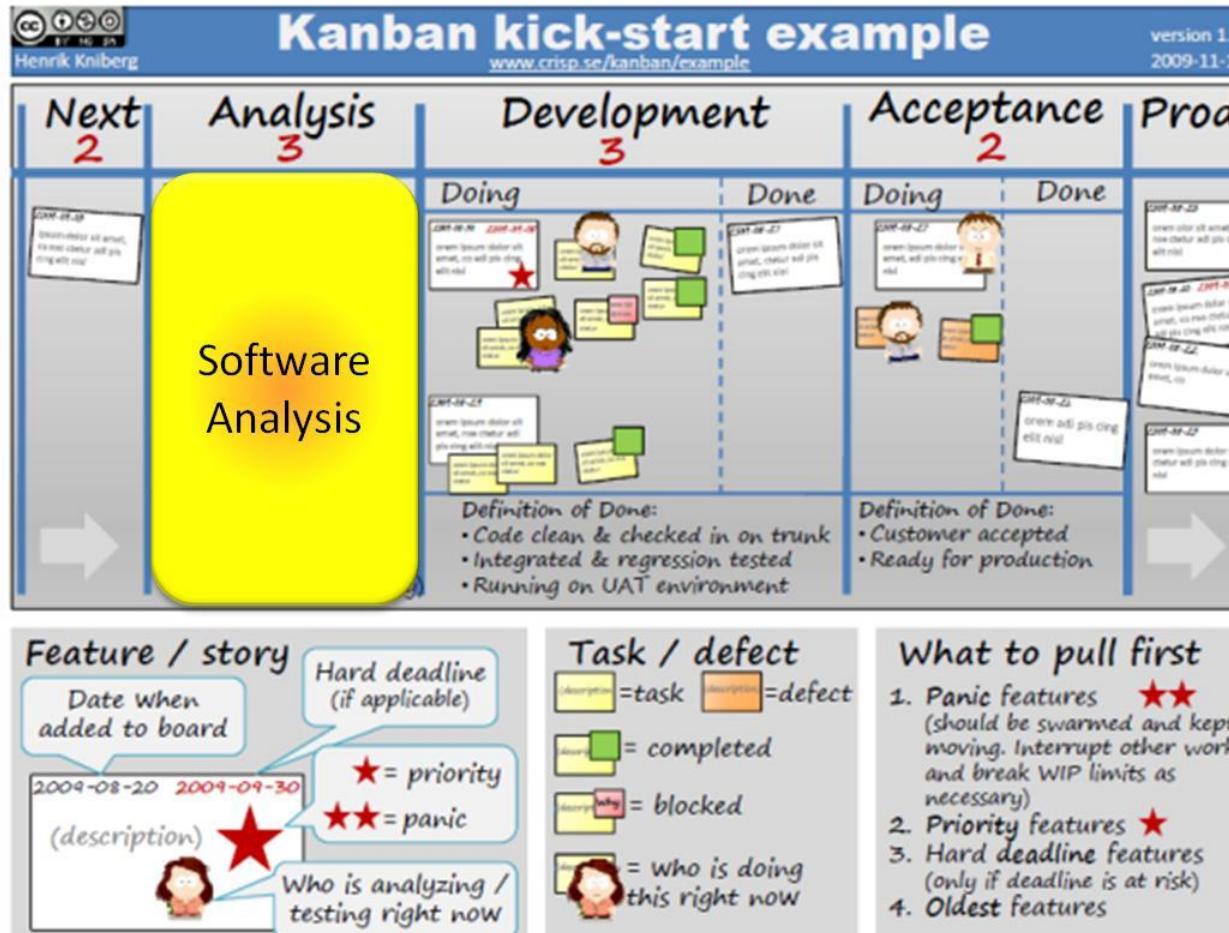
# Retrospect of last week ...

- KANBAN - Where does Software Analysis fit in?



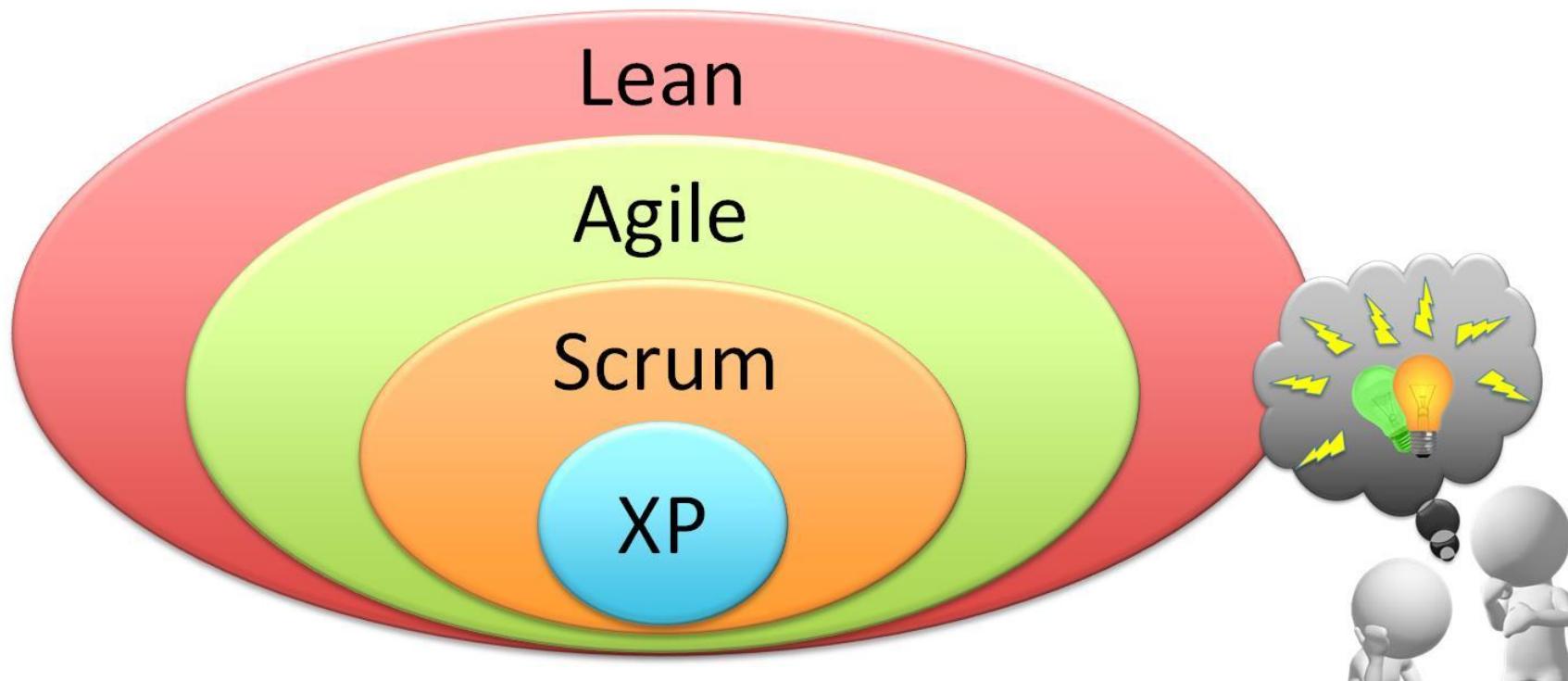
# Retrospect of last week ...

- KANBAN - Where does Software Analysis fit in?



# Retrospect of last week ...

- Lean - Where does Software Analysis fit in?



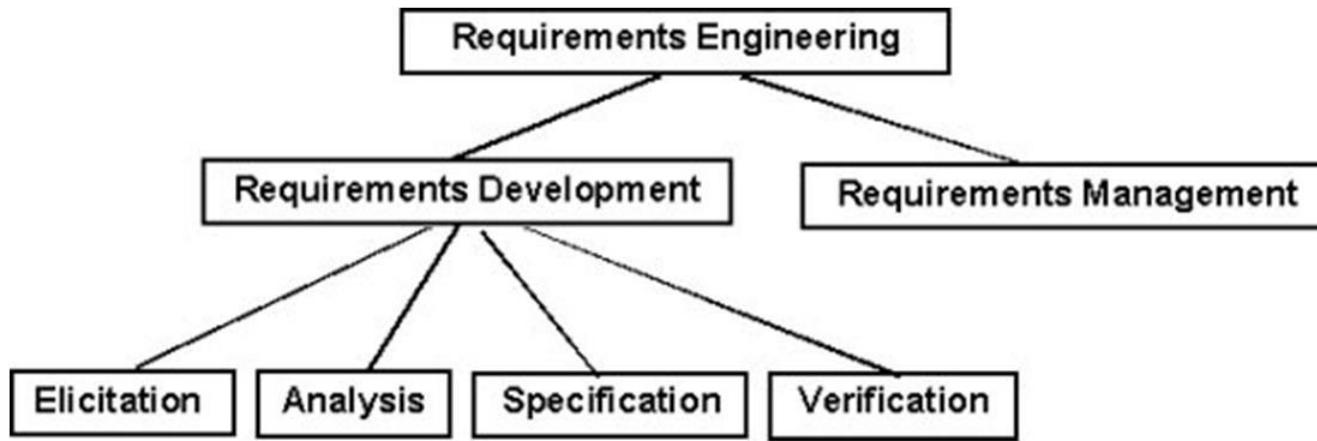
# Commonly used requirements processes

processes



# Commonly used requirements processes

- Practice, literature → lot of requirements processes.
- A lot organizations in search → unified approach
- Each project, each co-worker chooses own way of working
- Standard Requirements Development Process



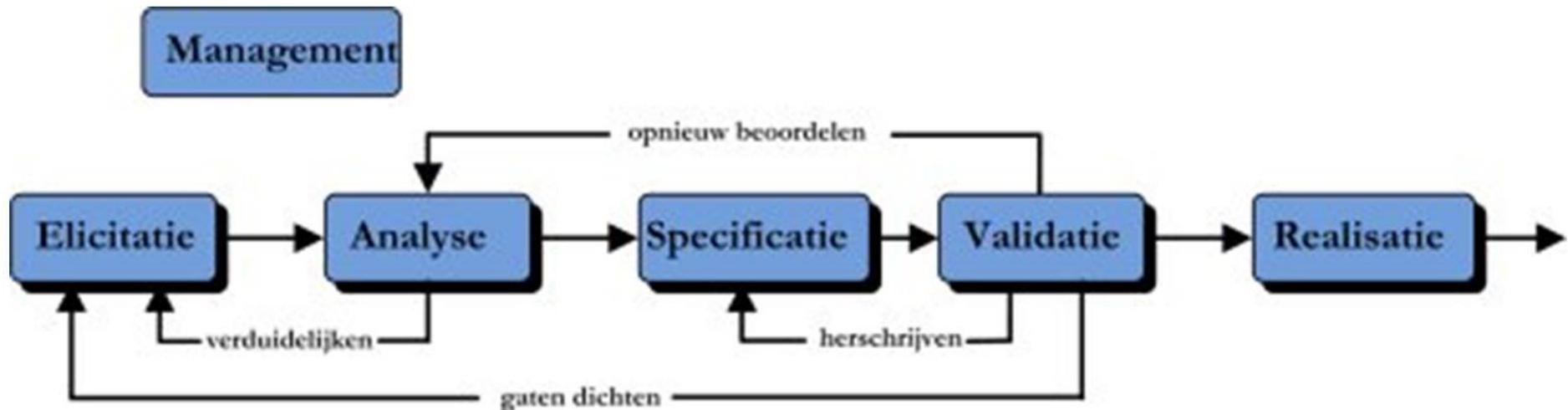
# Commonly used – process 01



- Unified approach missing - JBF
- Requirements analyst:
  - carry out work at own judgment and aligns it within project. Your personal experiences, preferences play a major role. Within the organization, often large differences and the wheel is sometimes reinvented
- Personal experiences & preferences = BIG ROLE
- Within a same organization → a lot of differences
- ! Reinvent the wheel

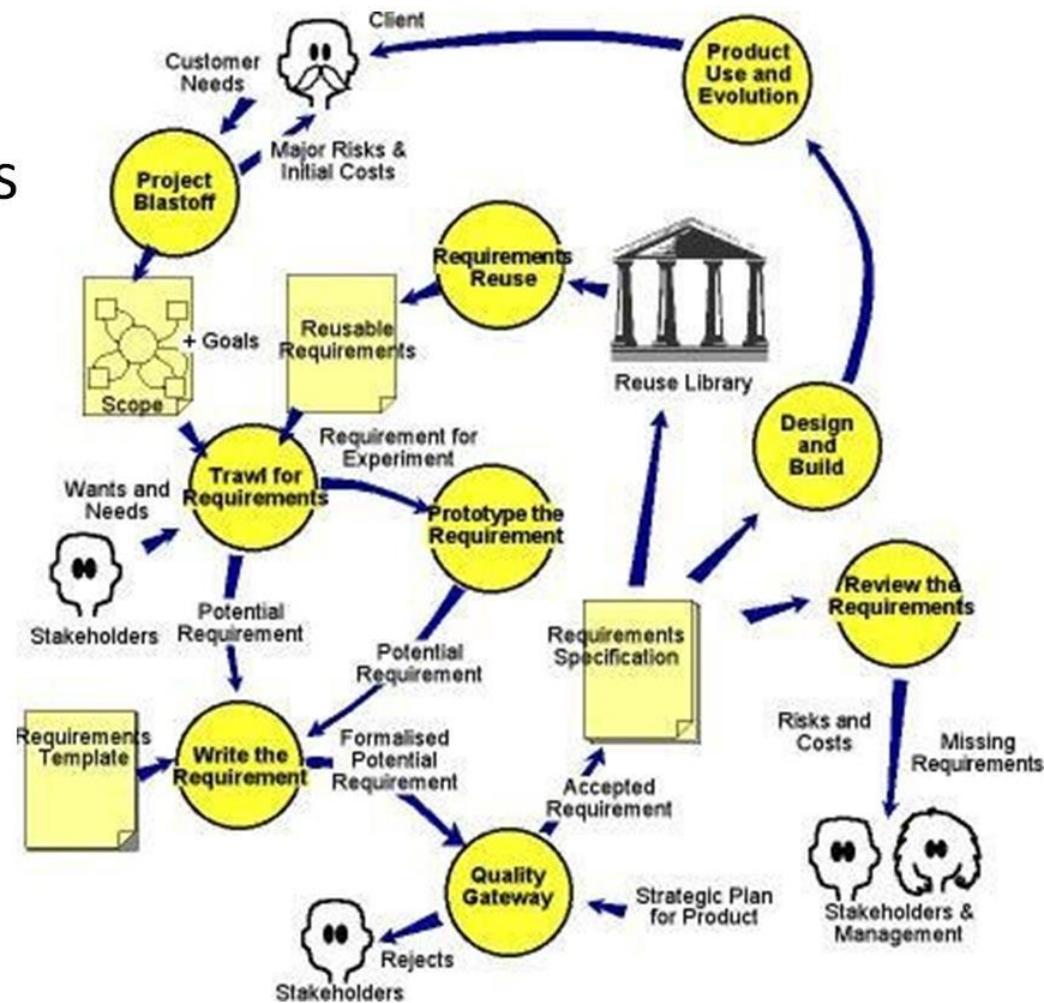
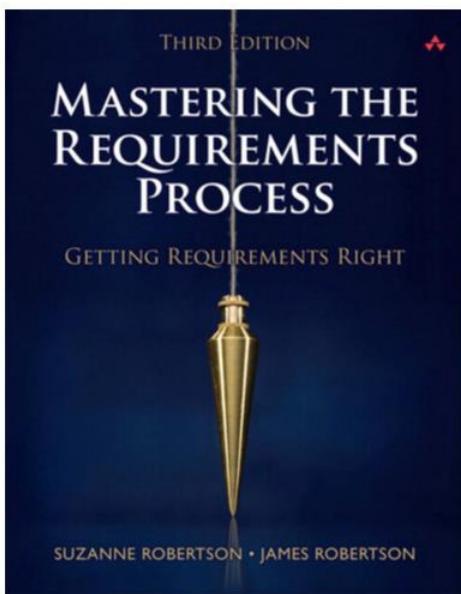
# Commonly used – process 02

- Early days → part of requirements development
- Now: used as steps in requirements process
- Steps are iterative



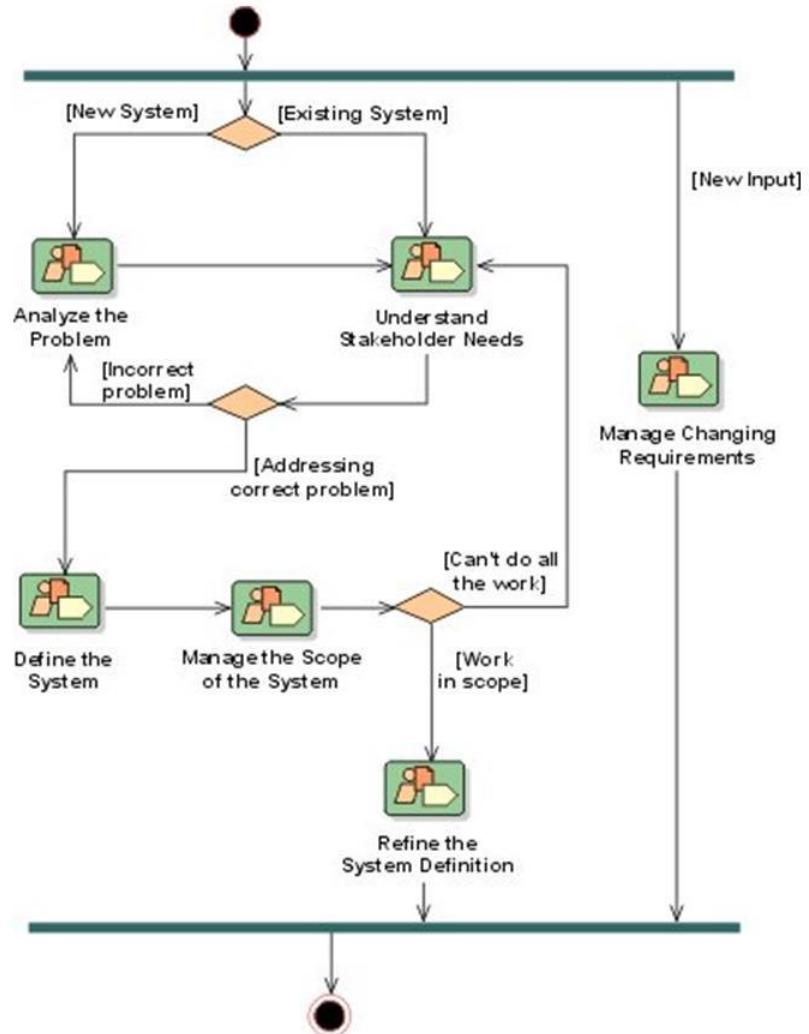
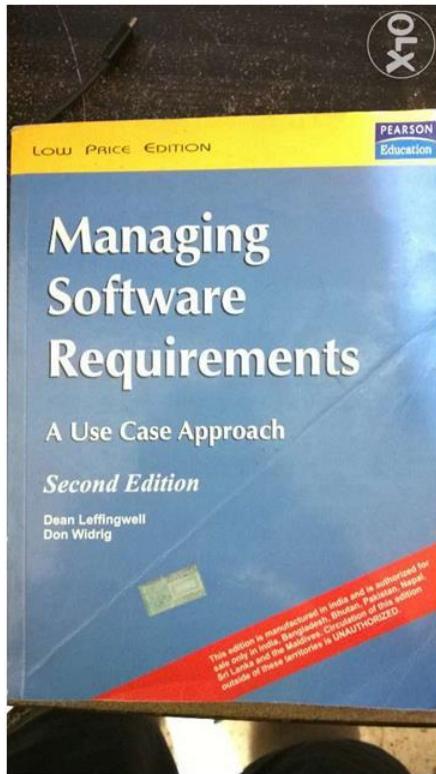
# Commonly used – process 03

- Cf. Reader 01
- Volere Requirements process

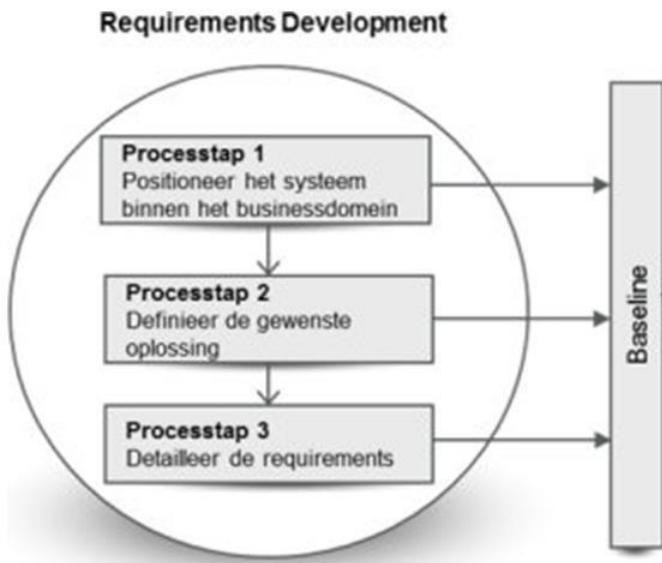


# Commonly used – process 04

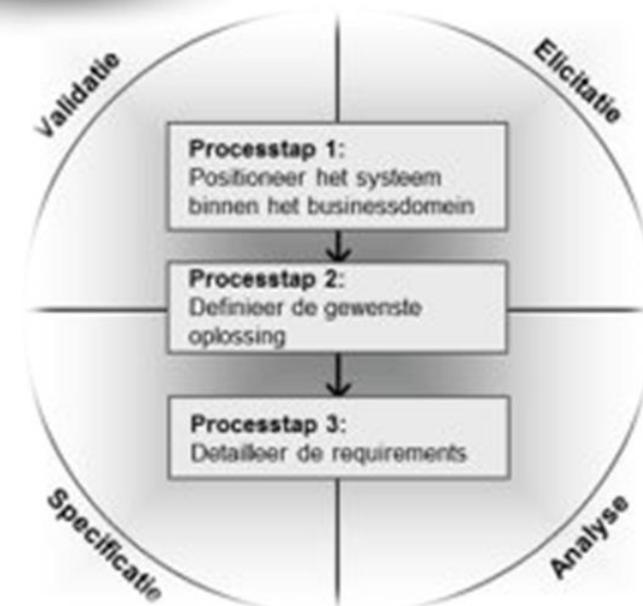
- Cf. RUP
- RE is 1 of the disciplines!



# Commonly used – process 05



## Requirements Management

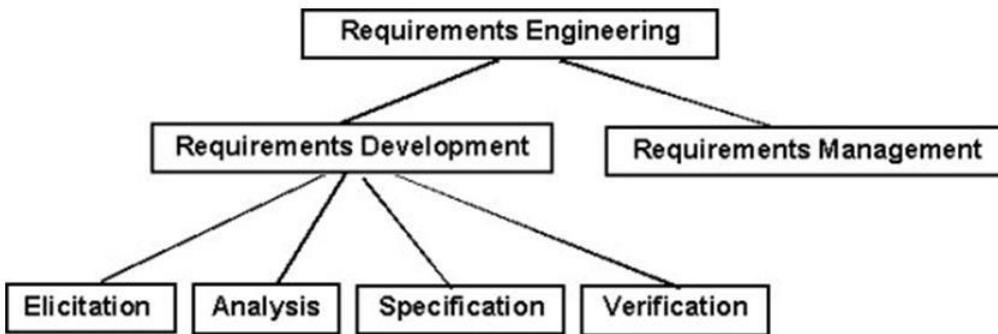




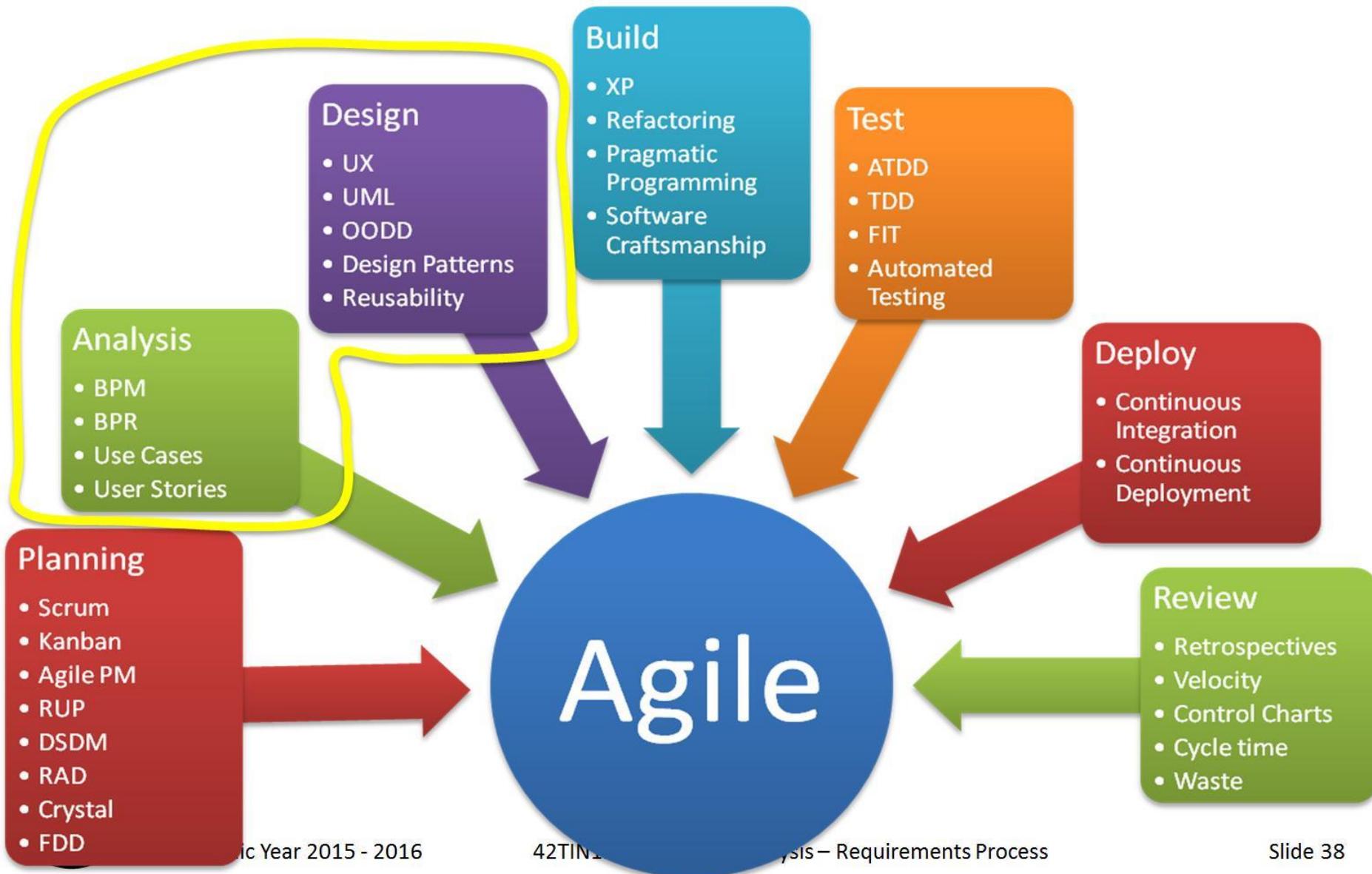
The process used within this course

# The process used within this course

- 4 main activities for RE
  - Elicitation
  - Documentation
  - Validation & Negotiation
  - Management of requirements



# The process used within this course



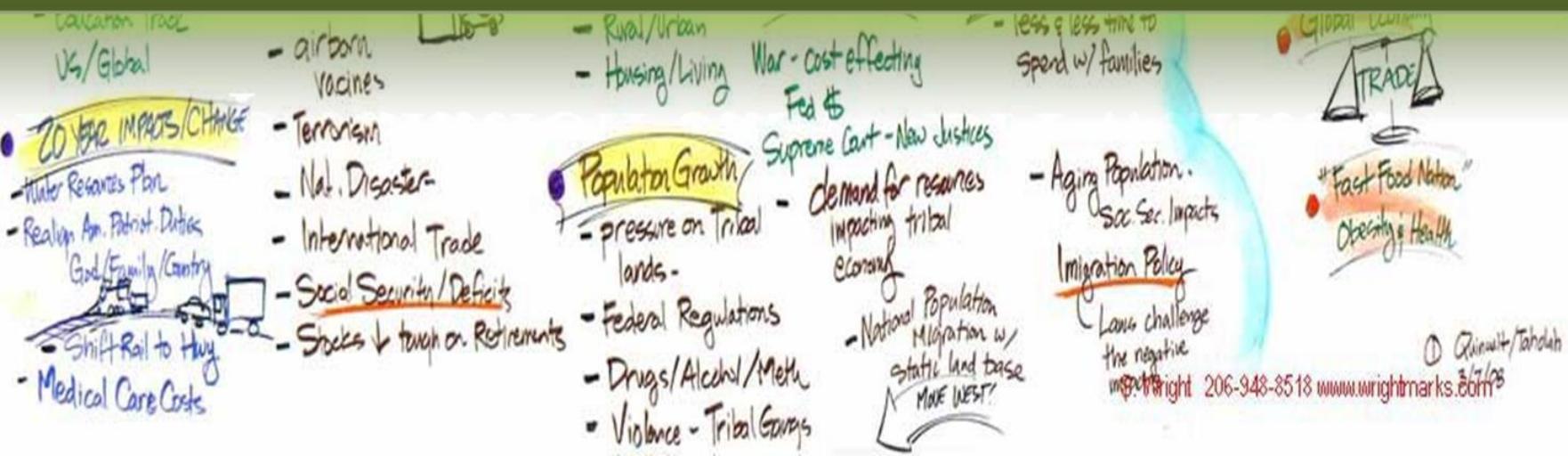
# Requirements Management

- The process of managing **existing requirements** and requirements related artifacts.
- Includes particularly **storing, changing and tracing** of requirements.
- Tools?





## Recapitulation case “BA wanted”



# Recap case “BA Wanted” (1)

- Read the following description.
- As a team, rank the 5 requirements that are most relevant for this case.



A small scale bank is looking for a new business analyst.

This bank has offices in several European countries and its head office is located in the Netherlands. The bank is working with an internet based Bank Information System. The new business analyst will be working in the head office. He/she will be the link between the business and the (IT-)projects and be responsible for the translation from change requests into business requirements and for new projects also for the elicitation of the business requirements.

The bank has adapted the SCRUM method and the business analyst will be participating in the scrum teams.

# Recap case “BA Wanted” (2)

Requirements	Relevant
1 Successfully completed (business) information technology or economics studies	
2 Several years of experience as software developer and project leader /team leader in the area of ERP are desirable	
3 Good system development skills. You master at least one current programming language (ideally .net)	
4 Very good SQL knowledge and experience with MS SQL Servers	
5 Know-how in Web standard technologies such as HTML and XML/XSL/XSLT as well as knowledge in MS server technology ISS and Share Point	
6 Very good skills in the English language	
7 Analytical thinking skills and strength in conceptual areas	
8 Strong orientation to services and consulting	
9 High level of commitment	
10 Sure and convincing attitude	
11 Ability to work under high work pressure	
12 Convincing communication skills	
13 Being able to deal with cultural differences in an adequate way	
14 Testing experience on both system and acceptance level	
15 Domain knowledge of banking processes	



# Recap case “BA Wanted” (3) - Solution

	Requirements	Relevant
6	Very good skills in the English language	PRIO 05
7	Analytical thinking skills and strength in conceptual areas	PRIO 02
10	Sure and convincing attitude	PRIO 03
12	Convincing communication skills	PRIO 01
15	Domain knowledge of banking processes	PRIO 04

## Analyst

- A → Analytical
- C → Conflict handling
- C → Communication
- E → Empathy
- S → Self-confident
- M → Moderator
- A → Ability to convince



# Questions & answers

