

PXL – Digital 421280 Software Analysis

Intro - Best practices - International standards

Week 01 – period 01

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Content

- The essential software requirement
- What are requirements?
- Levels and types of requirements
- **Best practices: international standards – ISO**
- **SMART Requirements**
- **Best practices: JIRA - EPICS - USER STORIES**
- Requirements development and management
- Brief history of requirements methods & modeling
- The role of the analyst + recap case
- Questions & Answers

The background of the slide is a close-up, slightly blurred image of a speedometer. The needle is pointing towards the right. The word 'QUALITY' is written in large, blue, stylized capital letters across the upper part of the speedometer's face. Below it, the word 'ISO' is written in smaller, grey, stylized capital letters. The overall color scheme is dark with blue and green accents.

QUALITY

Best practices: international standards - ISO

ISO

ISO 25010 – product quality

PERFUMeS

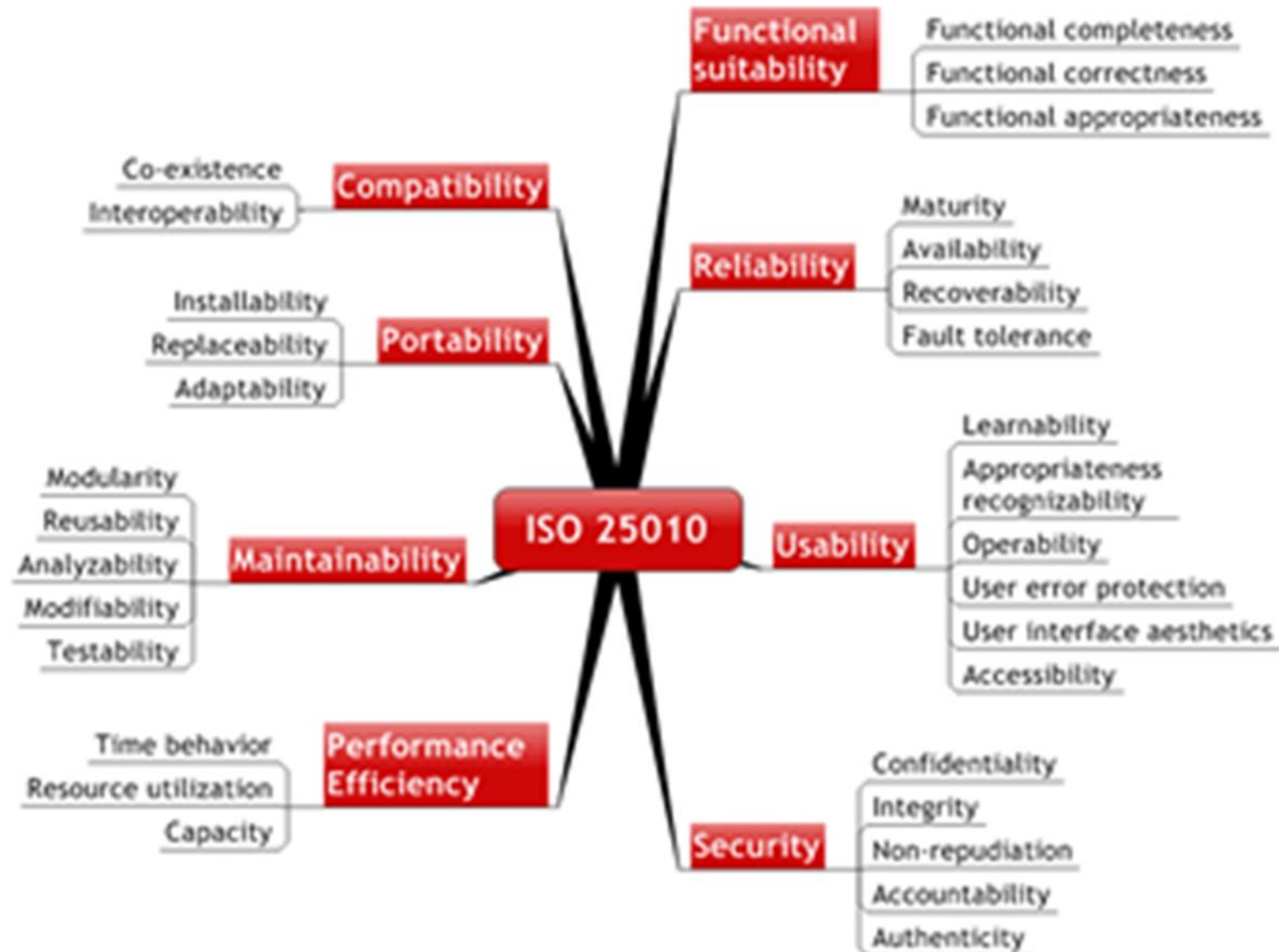


of

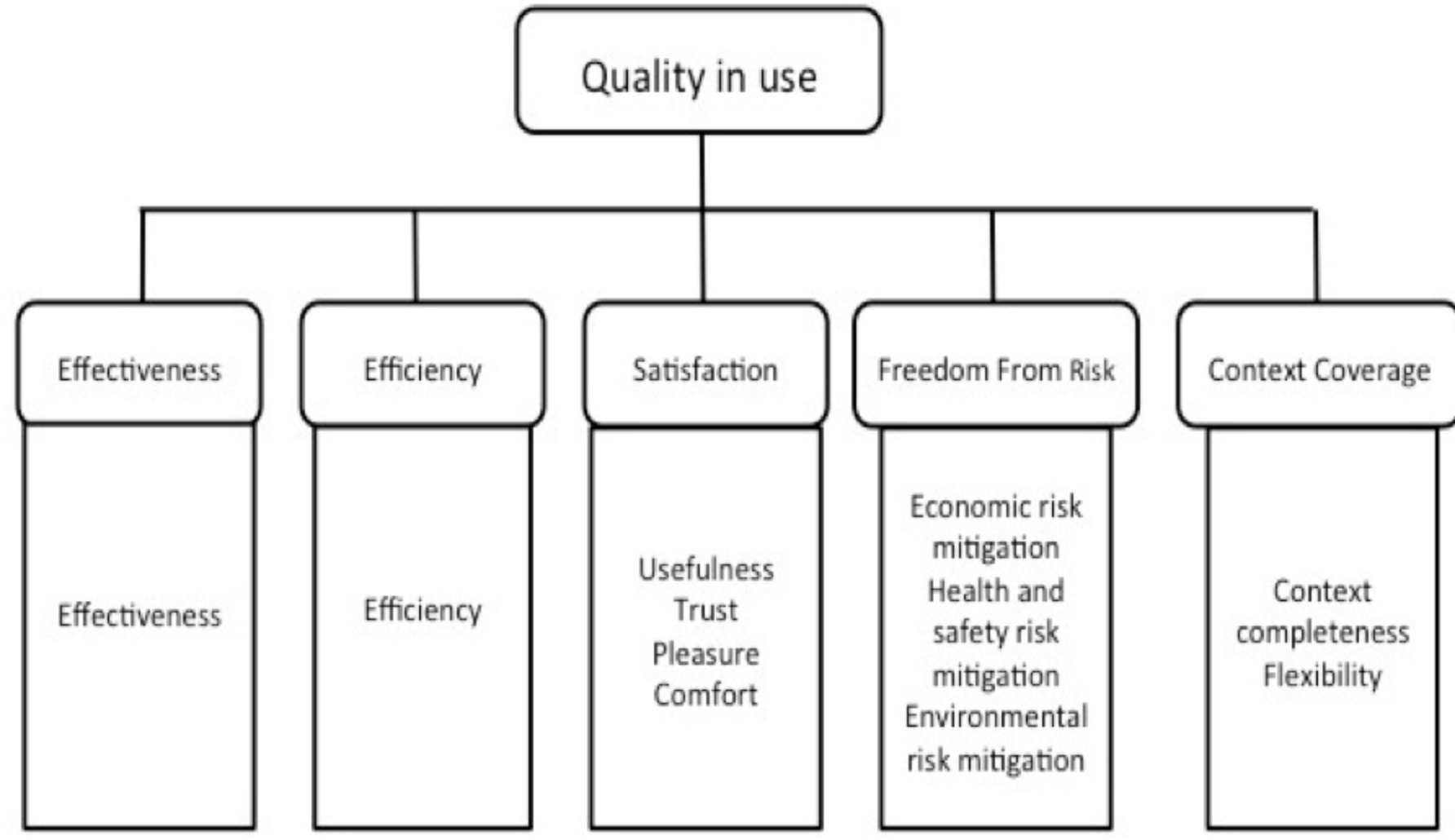
PESMURF



ISO 25010 – product quality



ISO 25010 – product quality during use





SMART Requirements



SMART Requirements



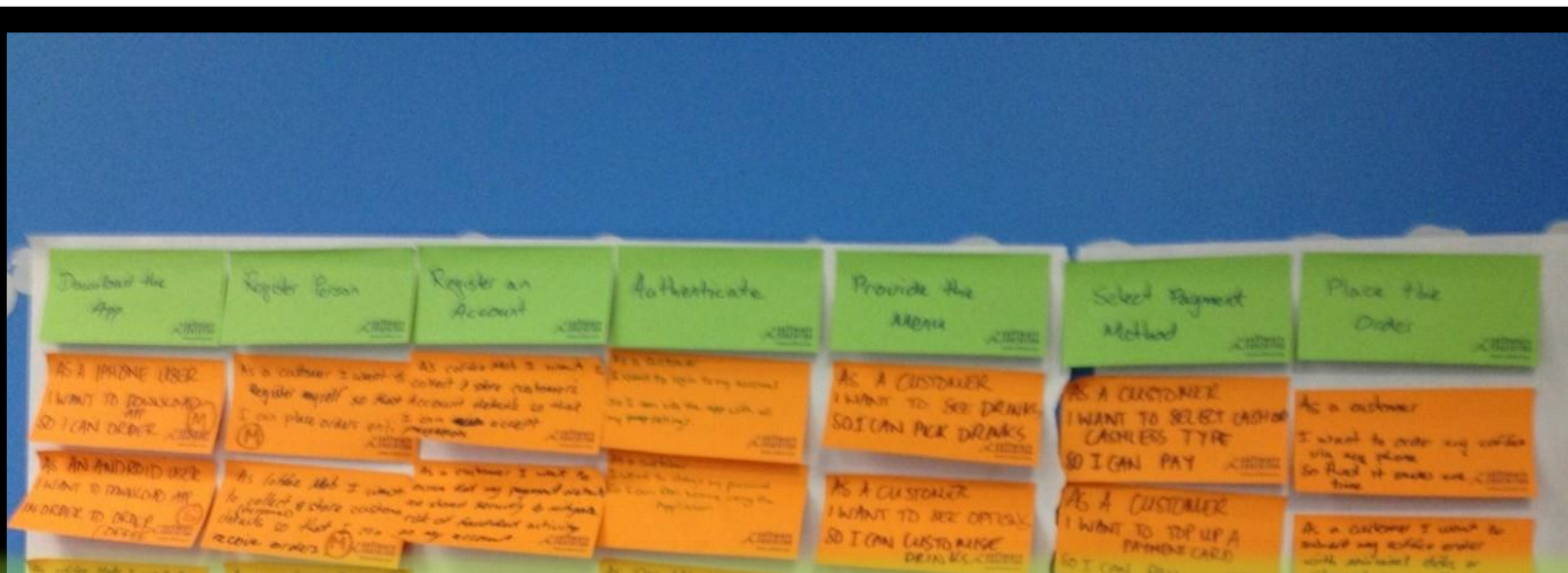
S: a requirement shall clearly state what is required

M: a requirement shall be able to confirm when it has been met

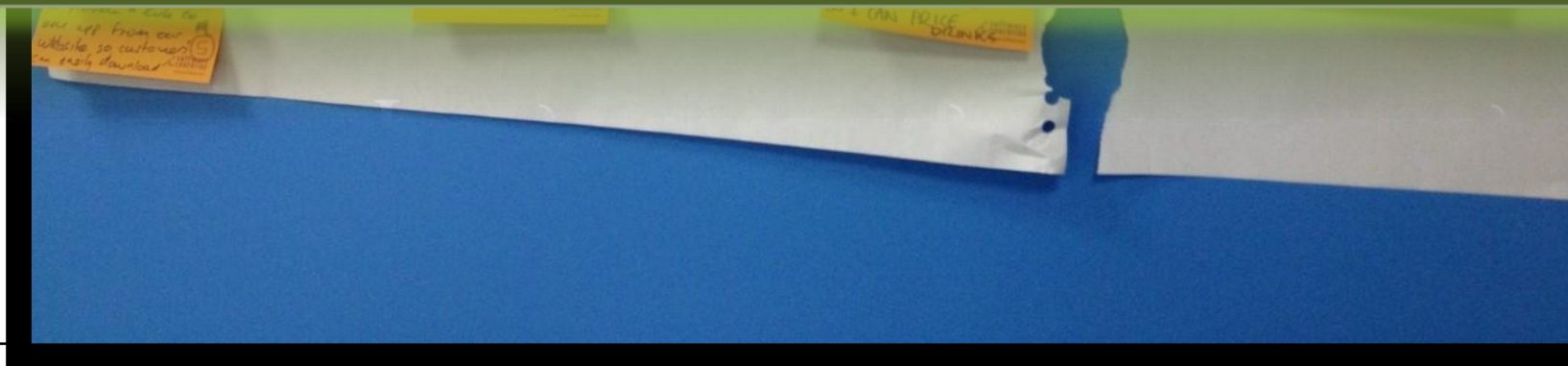
A: a requirement shall be achievable/ technically feasible

R: a requirement shall be reasonable/ realistic

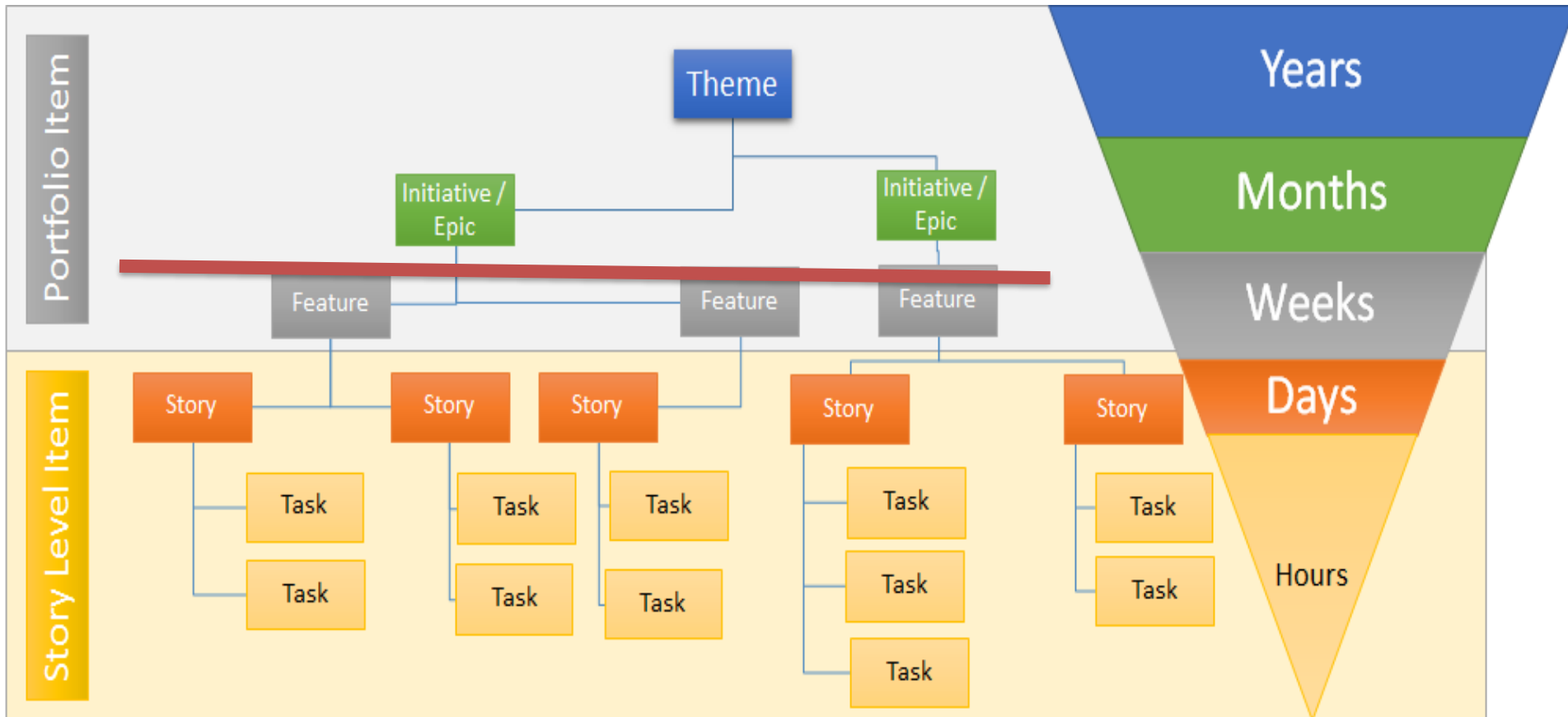
T: a requirement shall be achievable within an acceptable timeframe



JIRA – Epics, Features, User stories, ...



JIRA – Epics, Features, User stories, ...



- In JIRA, we use this terminology
- Features are the functional en non-functional requirements

JIRA – Epics, Features, User stories, ...



- For now: just know that this exists
- The moment of the PE, we will work Agile ...

JIRA – Example User Story Template



**As a <role>
I want <goal>
so that <benefit>**

Acceptance criteria:
(Conditions of Satisfaction)

...

...

JIRA – Example FUNCTIONAL User Story

As a lecturer,
I want to be able to understand
my colleagues progress,
So that I can better report their
success and points of attention.

JIRA – Example NON-FUNCTIONAL User Story

As a user of Blackboard,
I want Blackboard to be
available 99.999 percent of the
time I try to access it,
so that I don't get frustrated
and find another site to use.

JIRA – Exercise User Stories in group

- To ameliorate the Epos platform, write
 - 10 functional user stories
 - 2 non-functional user stories per quality attribute
 - You can work in your subteam



Questions & answers

