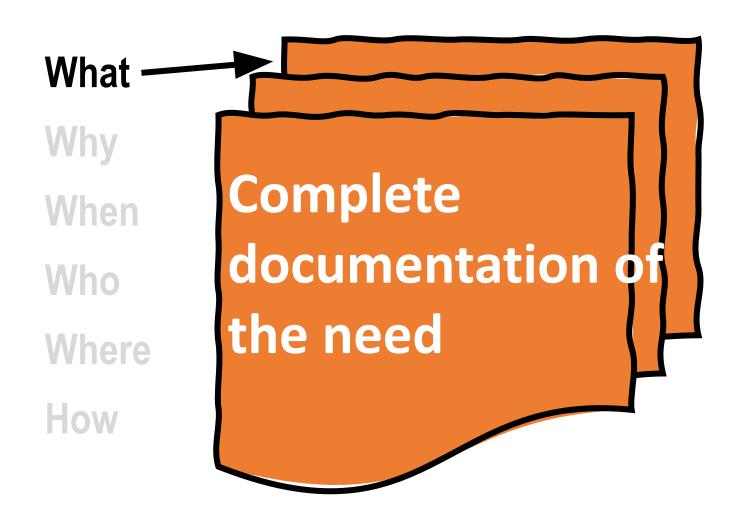
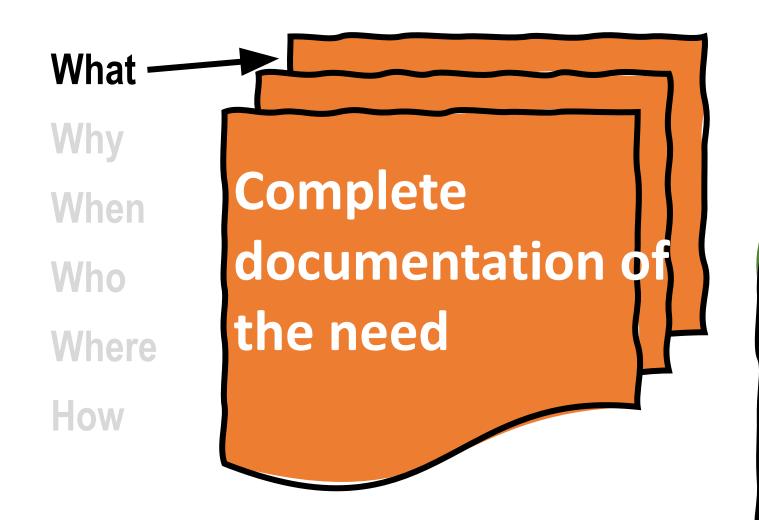
CS 301 Requirements Preliminaries

Eswaran Narasimhan

02 – Sep - 2024

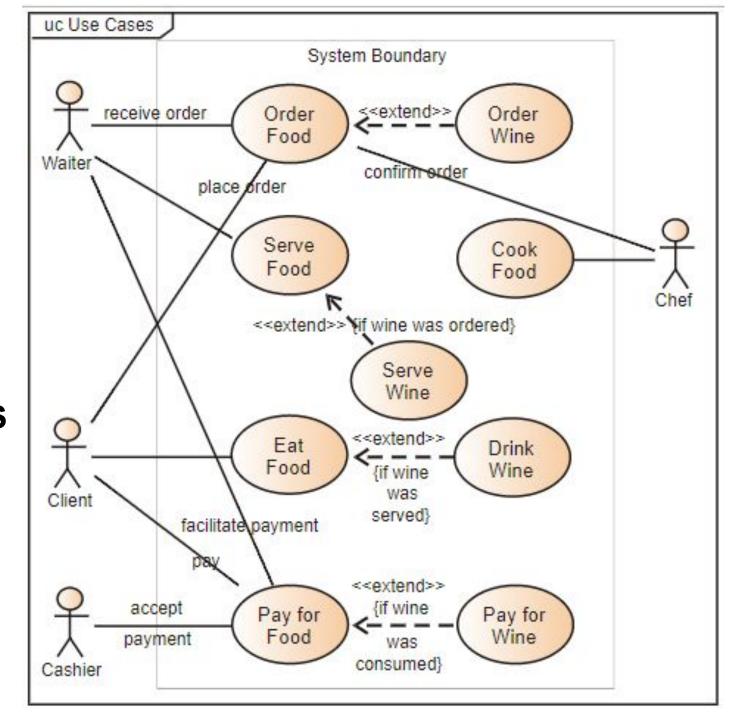




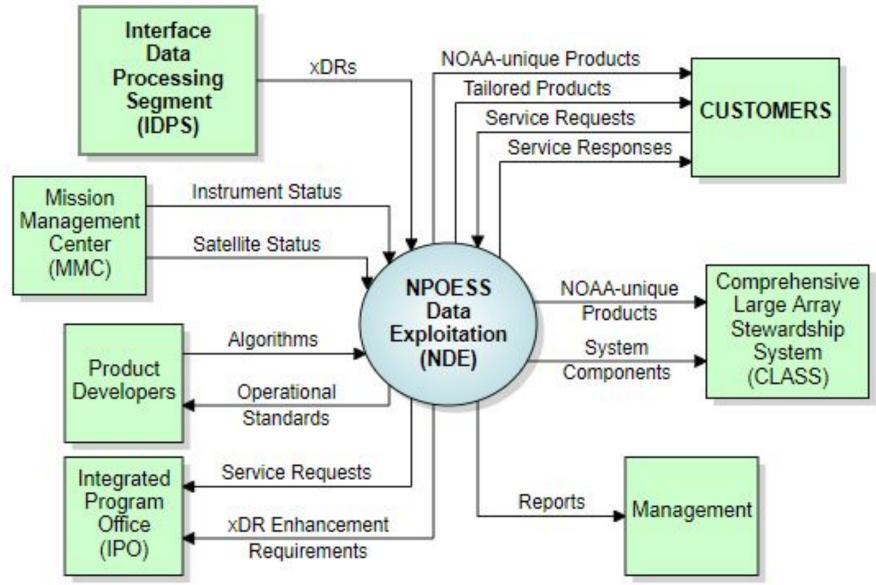
Functional Non-Functional **User Interface Constraints** Standards

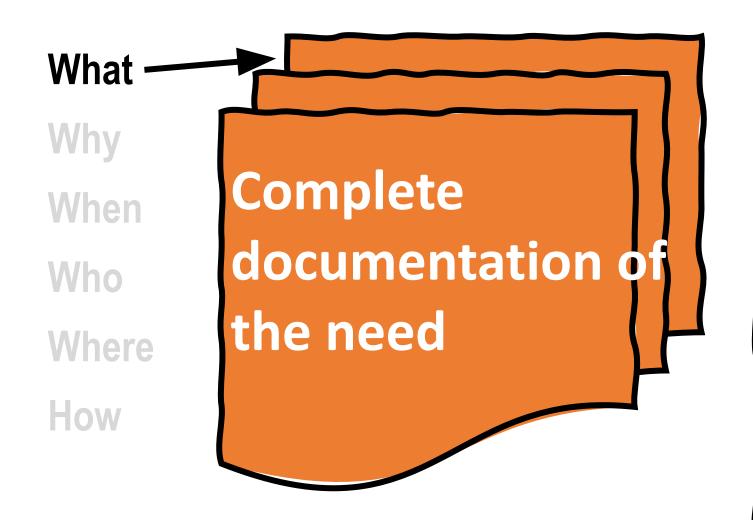
Functional

- Actor
 - Stakeholder
 - **Primary Actor**
 - **Preconditions Triggers**
 - Main success scenarios
 - **Alternative paths**



Functional





Functional Non-Functional User Interface Constraints Standards

Performance, Scalability, Capacity, Availability, Reliability, Recoverability, Maintainability, Serviceability, Security, Regulatory, Manageability, **Environmental** Data Integrity, Usability, **Interoperability**

Also termed as "-ilities"

Performance Scalability Capacity Availability

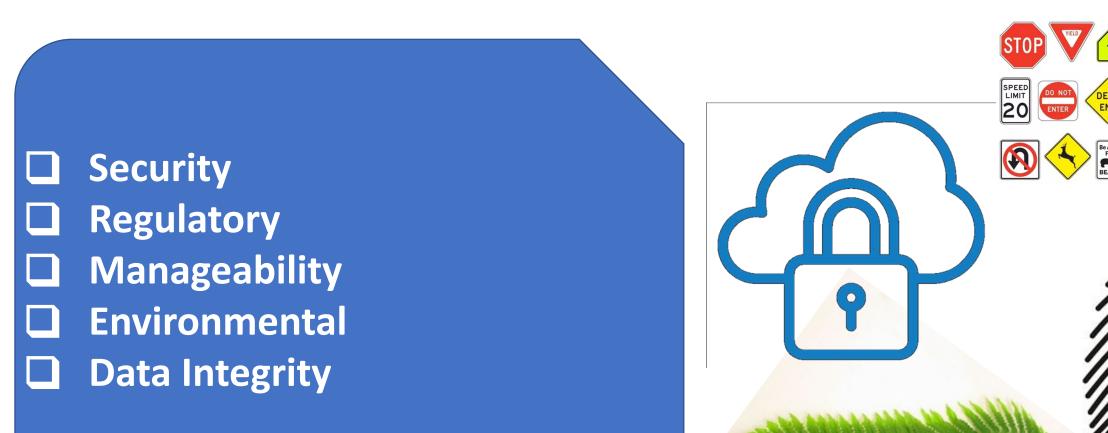


- □ Reliability
- Recoverability
- Maintainability
- Serviceability





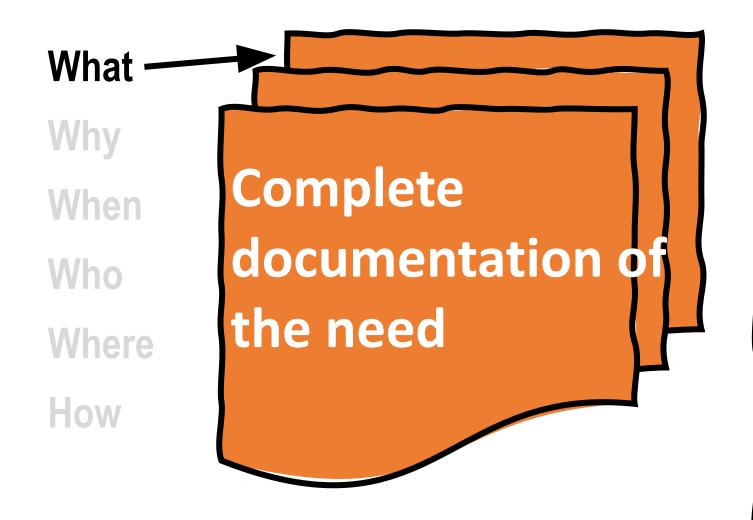






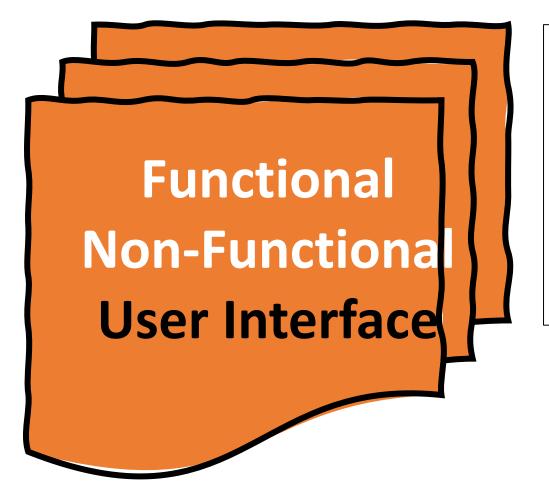
- Usability
- Interoperability





Functional Non-Functional User Interface Constraints Standards

User Interface Elements



Input Controls

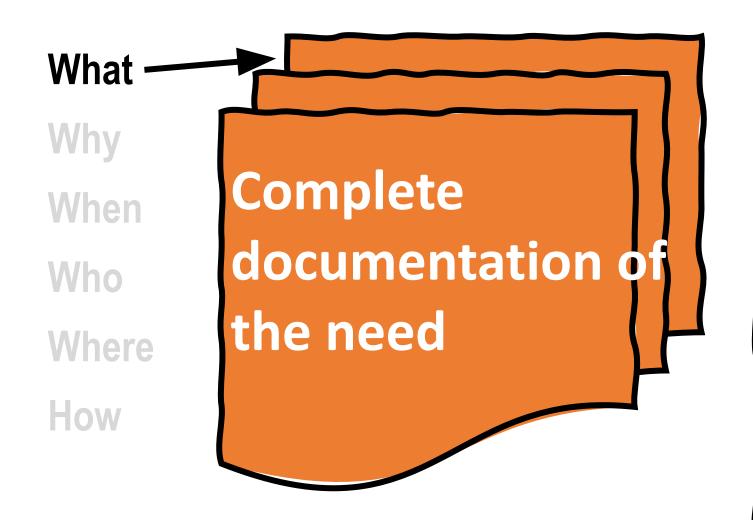
- Checkboxes
- ☐ Radio buttons
- □ Dropdown lists
- ☐ List boxes
- **1** Buttons
- ☐ Toggles
- ☐ Text fields
- □ Date field

Navigational Components

- **Breadcrumb**
- ☐ Slider
- **□** Search field
- Pagination slider
- □ Tabs and Tags
- □ Icons

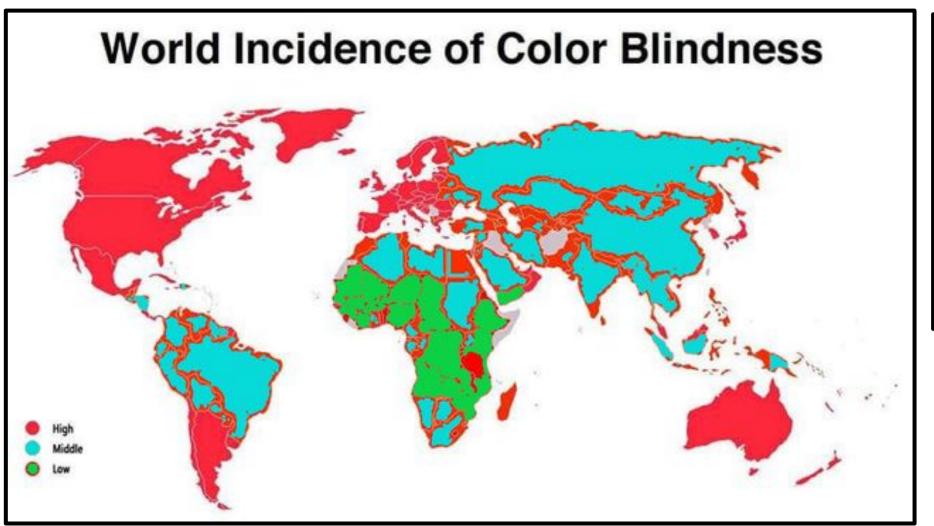
Informational Components

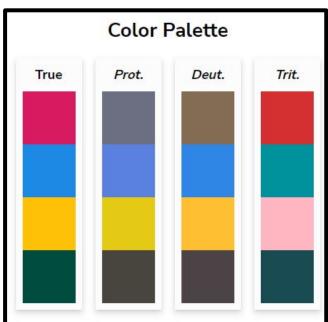
- ☐ Tooltips
- ☐ Icons
- Progress bar
- Notifications
- Message boxes
- ☐ Modal windows



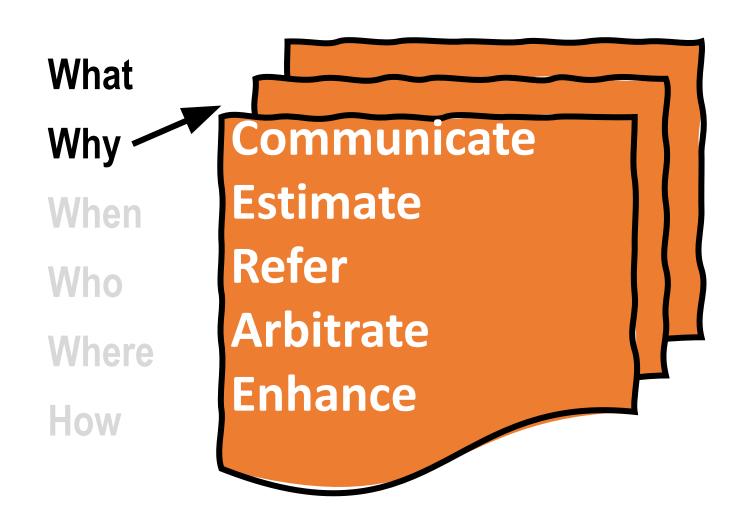
Functional Non-Functional **User Interface Constraints Standards**

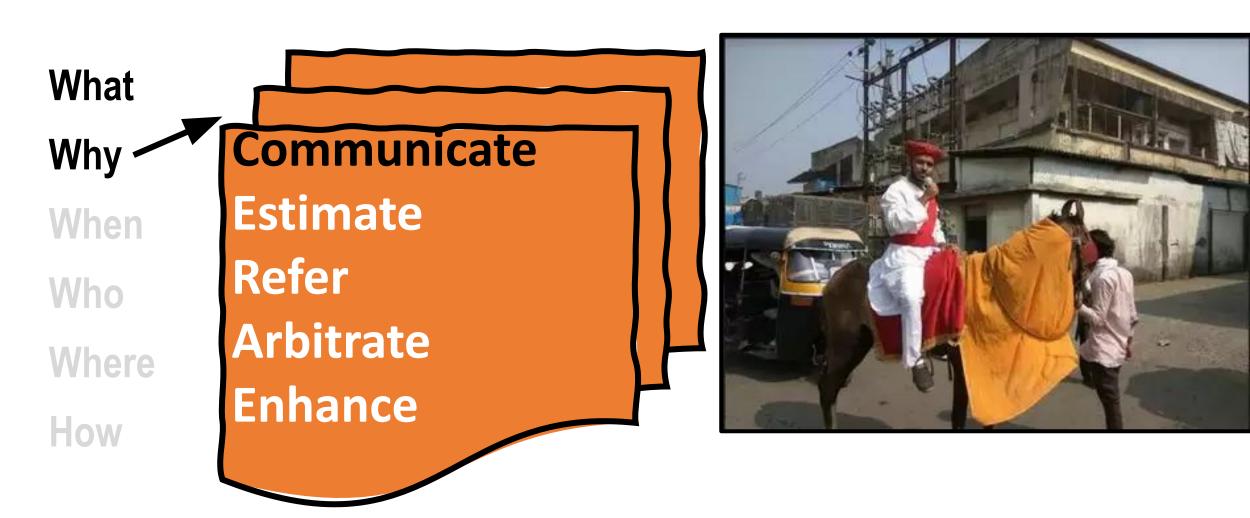
Constraints and Standards

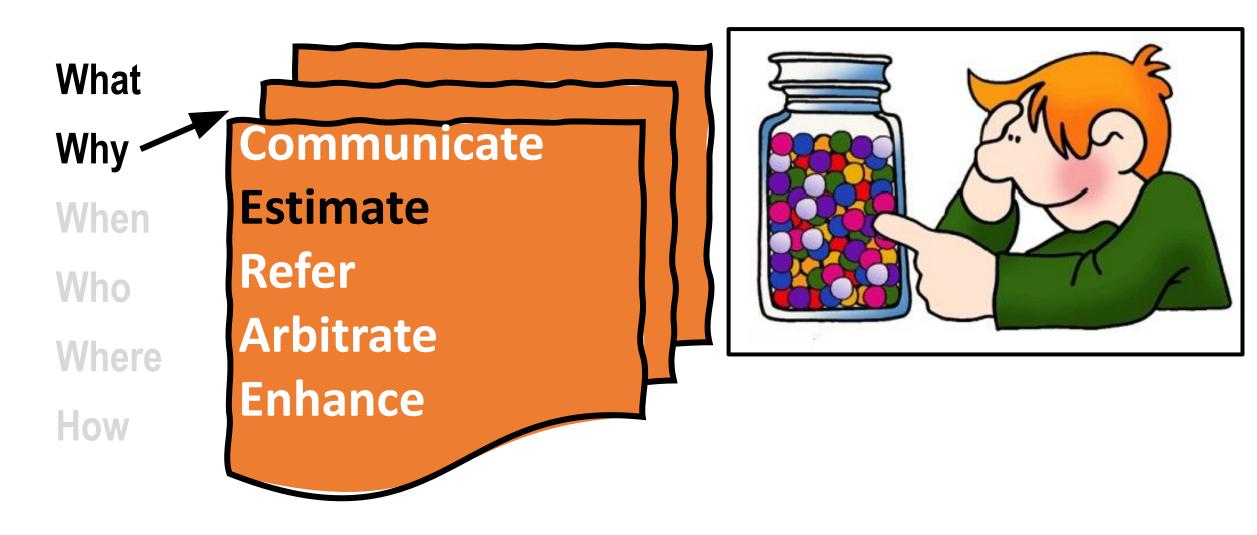


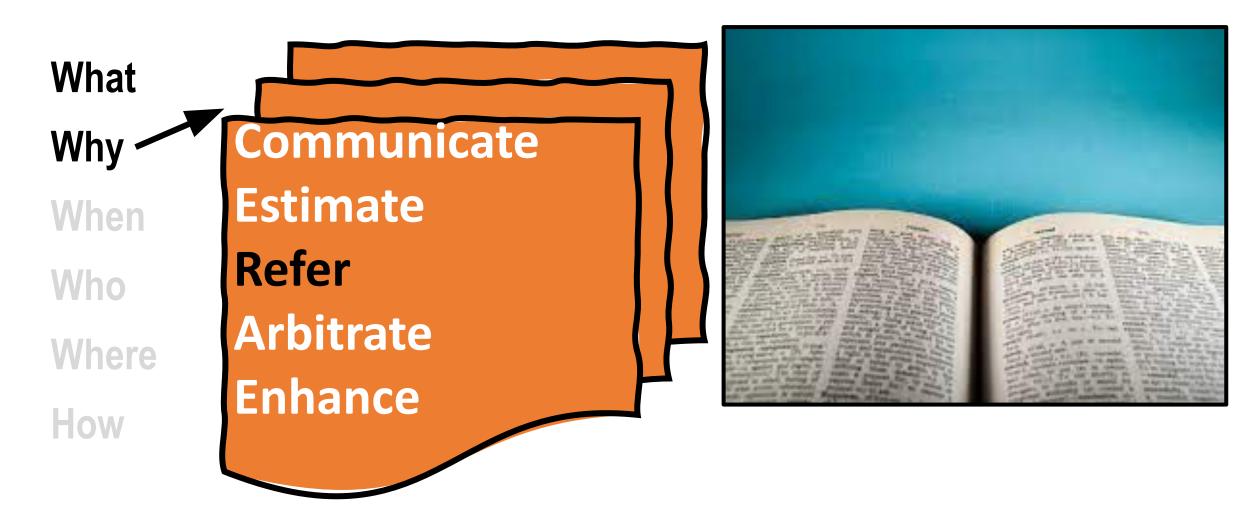








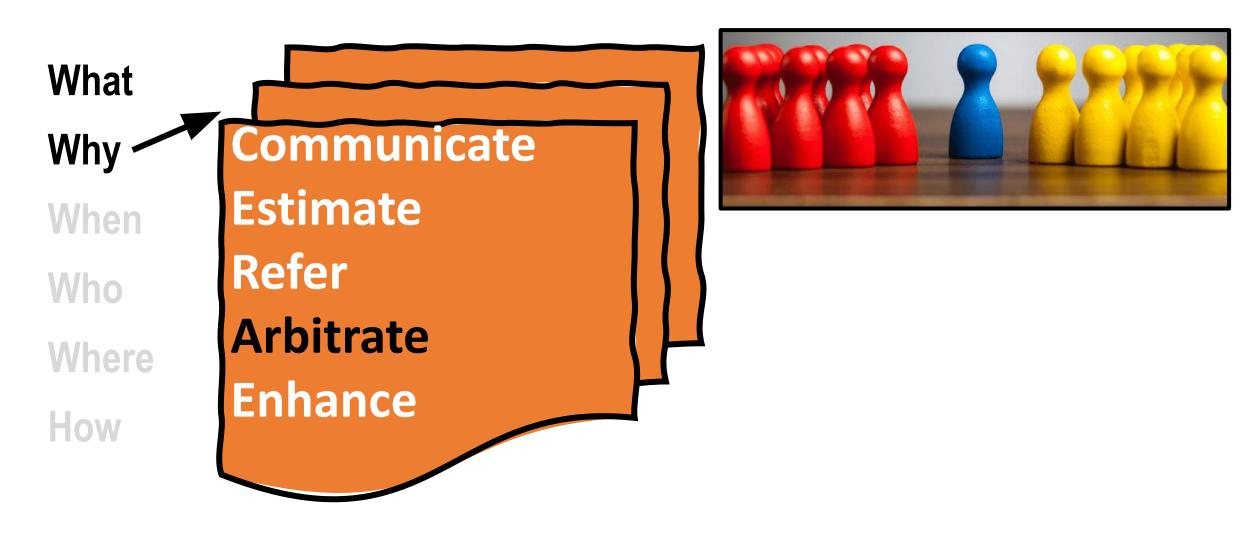


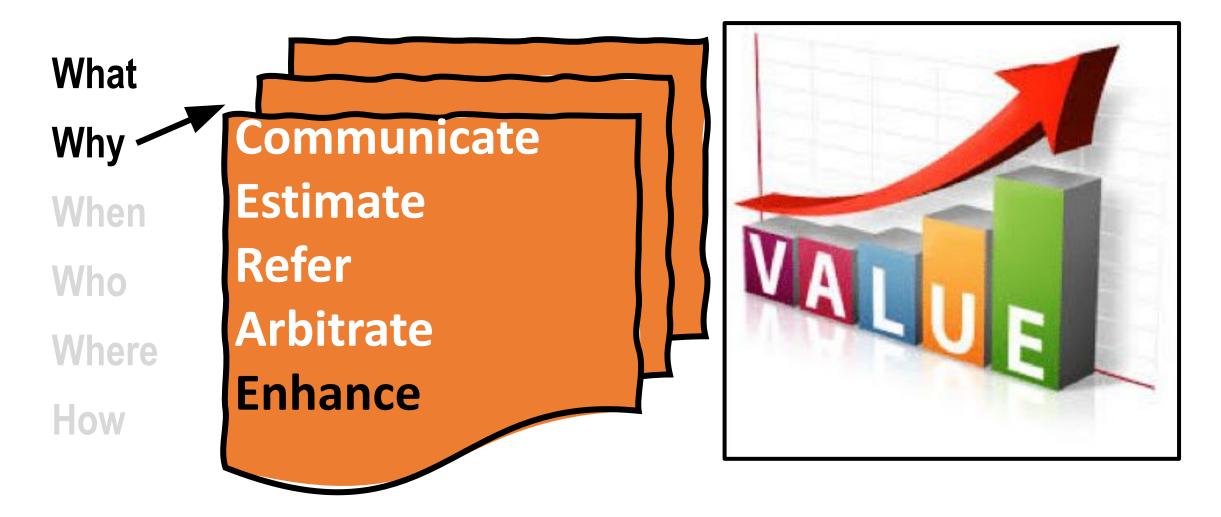


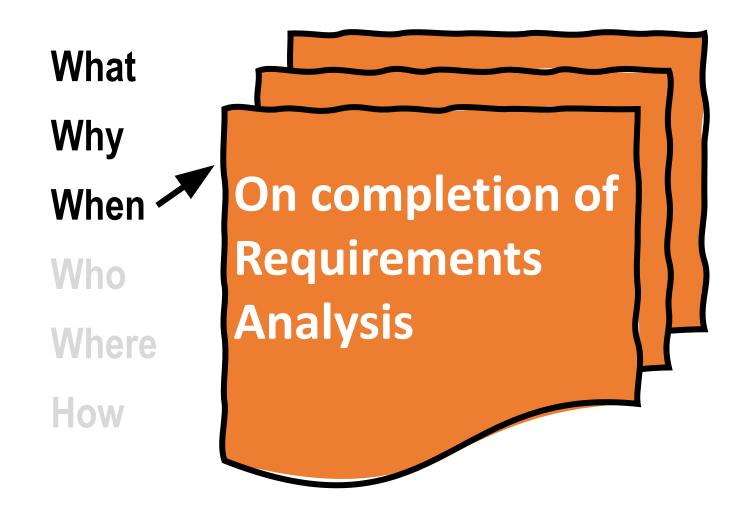
Requirements Traceability Matrix

Requirement Identifiers	Reqs Tested	REQ1 UC 1.1	REQ1 UC 1.2	REQ1 UC 1.3	REQ1 UC 2.1	REQ1 UC 2.2	REQ1 UC 2.3.1	REQ1 UC 2.3.2	REQ1 UC 2.3.3	REQ1 UC 2.4	REQ1 UC 3.1	REQ1 UC 3.2	REQ1 TECH 1.1	REQ1 TECH 1.2	REQ1 TECH 1.3
Test Cases	321	3	2	3	1	1	1	1	1	1	2	3	1	1	1
Tested Implicitly	77														
1.1.1	1	х													
1.1.2	2		х	x											
1.1.3	2	х											X		
1.1.4	1			x											
1.1.5	2	х												x	
1.1.6	1		х												
1.1.7	1			X											
1.2.1	2				х		х								
1.2.2	2					х		X							
1.2.3	2				. Co				х	x					
1.3.1	1	1				= =					x			2	
1.3.2	1										х				
1.3.3	1											х			
1.3.4	1											х			
1.3.5	1											х			
etc															
5.6.2	1														x

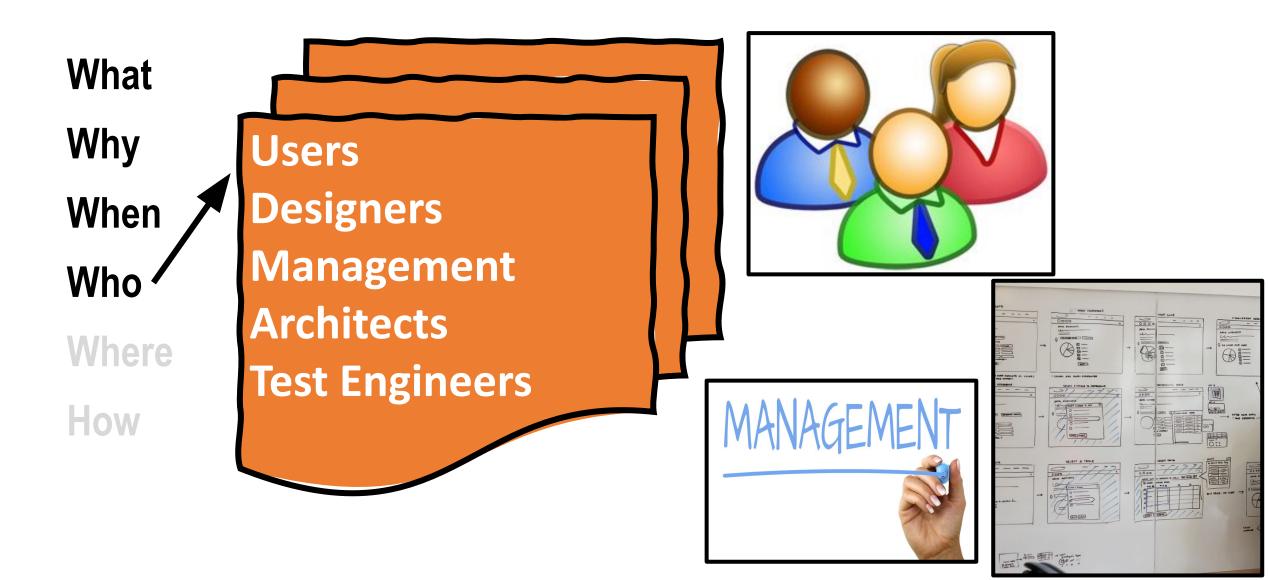
- CoverageMissing RequirementsMissing Test cases
- OverdesigningUnderdesigning

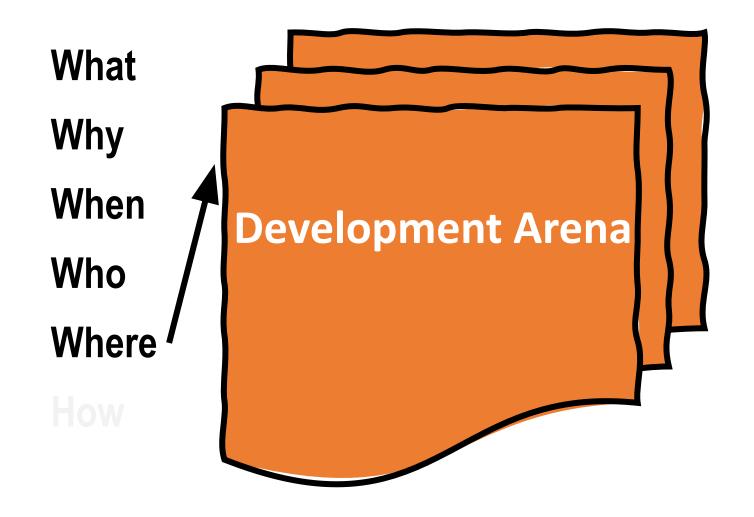




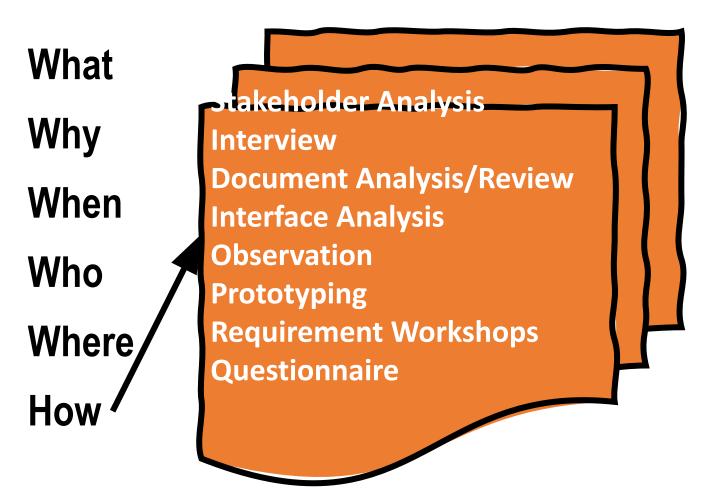


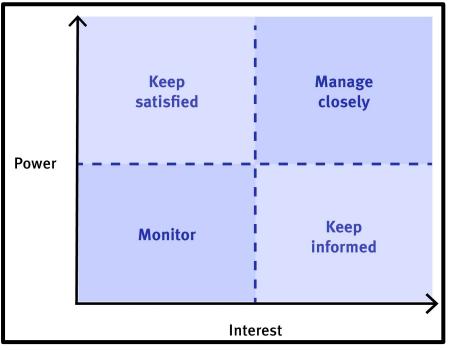
Yes, Updates are possible

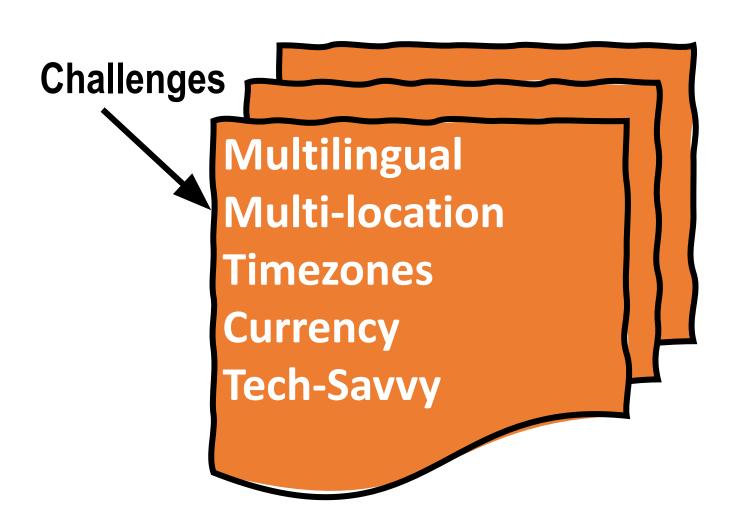


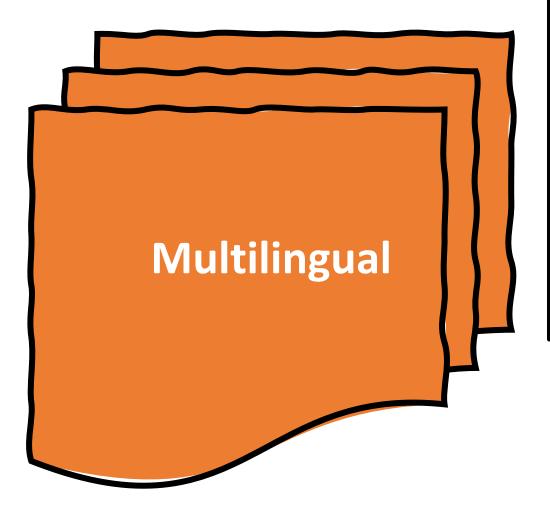


Yes,
Online Publishing is ok





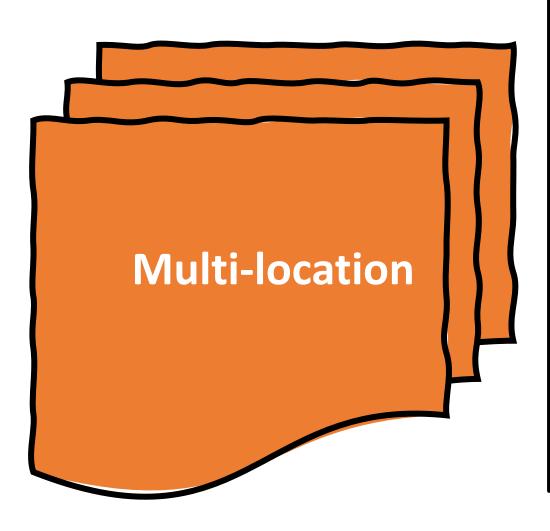


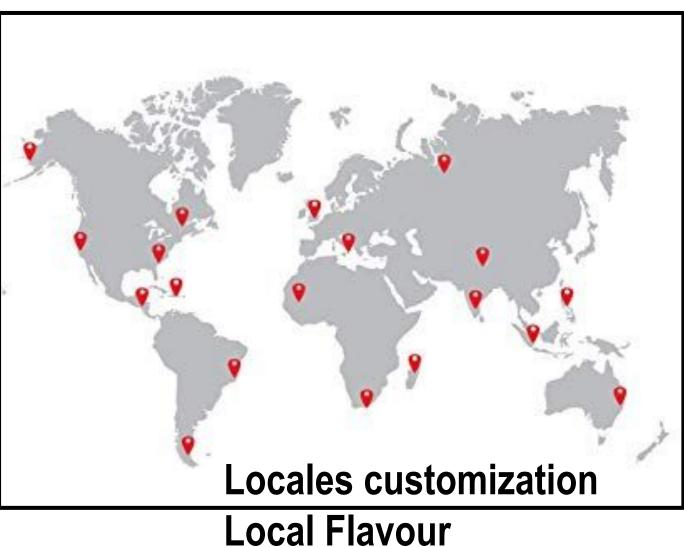




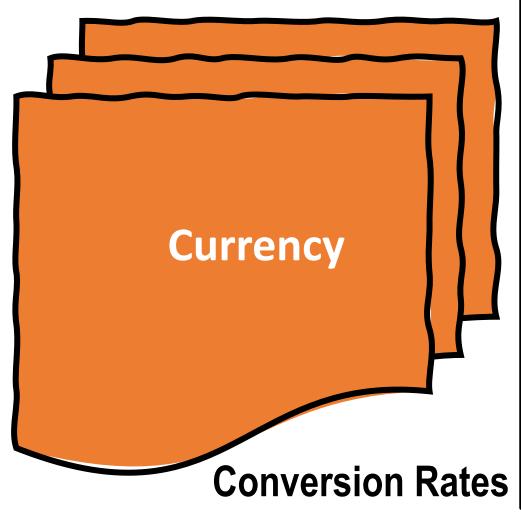
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Translations Updates











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