Doing the deal of your lifetime – With the Procurement Quality Suite (PQS)

- Webinar rules:
  - The Webinar will start in few minutes
  - You'll be muted throughout the Webinar
  - There's a chat box for you to ask questions at any time during the webinar
  - Please address comments and questions to the user "The REUSE Company" and not to the presenter directly
  - If you have any technical issues please use this chat box, or mail us at: support@reusecompany.com
  - The Webinar will be recorded. A link to the recording will be sent to you in few days time

the REUSE company

TRC

WEBINARS 2018

Doing the deal of your lifetime – With the Procurement Quality Suite (PQS)

Friday, 01 June 2018

Presenters' profile

Christer Fröling

Elena Gallego

Agenda

- Introduction to Procurement Quality Suite - PQS
- Why requirements quality matter in procurement
- What is a complete, consistent and correct set of bidding documents?
- How can the REUSE tools enhance the quality of a bid?
- Demo of some key features in PQS
- Q&A

Agenda

- Introduction to Procurement Quality Suite - PQS
- Why requirements quality matter in procurement
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- How can the REUSE tools enhance the quality of a bid?
- Demo of some key features in PQS
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The REUSE Company – TRC - Worldwide

- Local partners: France, Germany, Italy, Spain and Japan
- Customers in different countries along United States, Europe and Asia

- TRC Headquarters is based on Madrid (Spain)
- United Kingdom TRC office
- Scandinavian TRC office (Sweden)

AIRBUS · AIRBUS HELICOPTERS · AIRBUS DEFENCE & SPACE · SAFRAN Snecma · SAFRAN Sagem · MBDA · THALES · RENAULT · ALSTOM

FUSION FOR ENERGY · REPSOL · indra · SHERPA ENGINEERING · BCR Banco de Costa Rica · Santander · THINK SURGICAL · HealthNet · sage · SIEMENS · ENSTA ParisTech · tirant lo blanch

The REUSE Company (TRC)

Tools and solutions for knowledge Traceability, Reuse and Quality management

Specialized in the application of **Semantic Analysis Technologies** to a wide range of industries (Aerospace, Defense, Automotive, Railway, Energy…)

Focus: System/Software **Reuse, Traceability and Quality**. Integration of tools and technology from The REUSE Company facilitates the representation, analysis and exploitation of knowledge and enables a knowledge-centric systems engineering approach.

Mission: promoting system/software and knowledge reuse within any organization, by offering processes, methods, tools and services. Technology fully integrated within the organization production chain.

Innovative technologies applied to Knowledge Reuse

Systems Engineering Studio v18.1

Verification Studio (V&V Studio)

Manages the preparation of verification actions

Manages the realization of verification actions

Manages and improves the quality of all types of work-products

Manages the results of the verification process

Authoring Tools (RAT)

Assists you in the activity of writing requirements and other natural language text

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Knowledge Manager (KM)

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Provides methods for automatic generation of Ontologies

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Traceability Studio

Manages trace links between all sorts of information

Discovers user-tailored trace links

Monitors and reports trace links in a tailorable platform

Connects every tool involved in the systems engineering processes

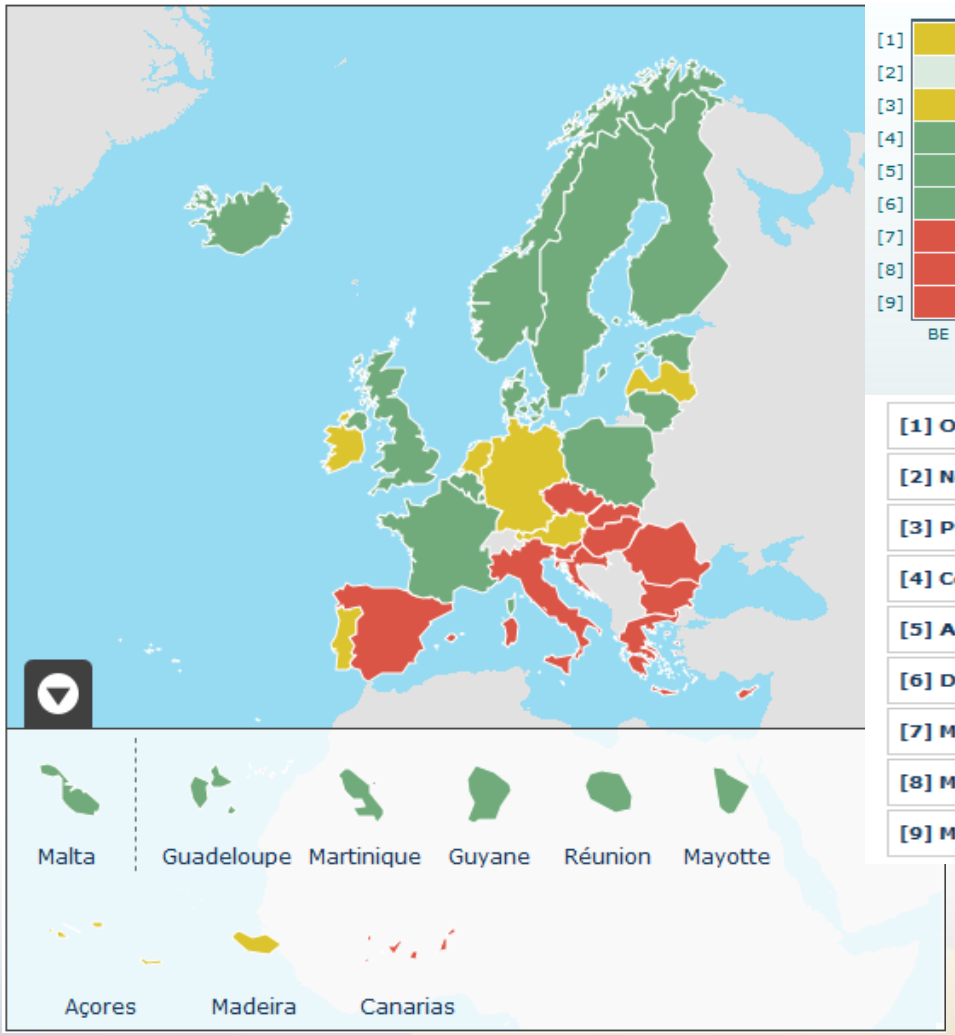
The Procurement Quality Suite - PQS

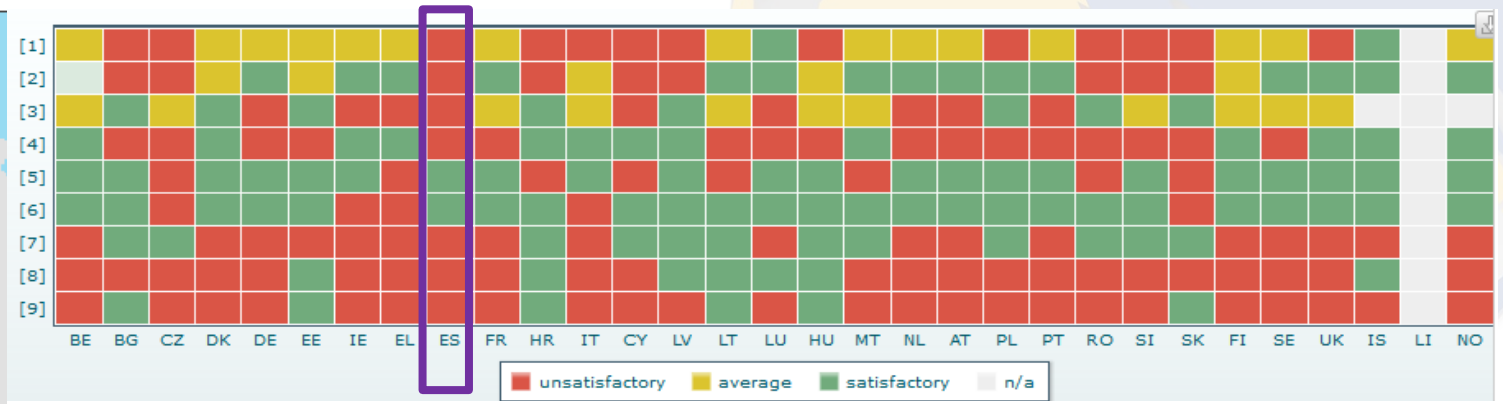
Setting the scene..

Public procurement, the buying of works, goods or services by public bodies, accounts for over 14% of EU GDP

€ 2.3 trillion (2016)

Sound procedural management fulfilment (today)



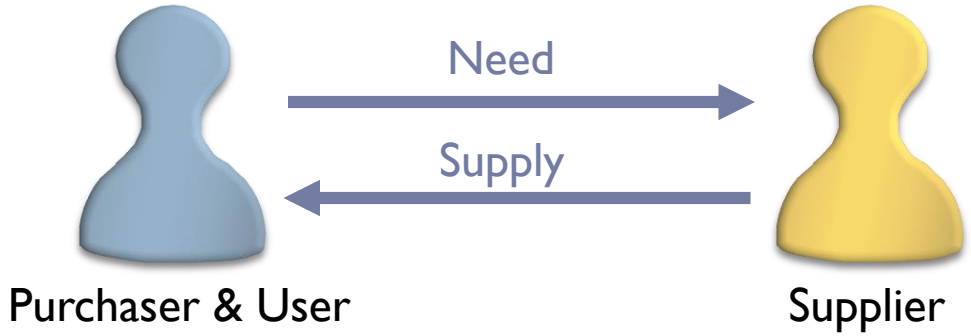


[1] One Bidder	≤10%	> 20%
[2] No Calls for Bids	≤ 5%	≥ 10%
[3] Publication Rate	>5%	< 2,5%
[4] Cooperative Procurement	≥ 10%	< 10%
[5] Award Criteria	≤ 80%	> 80
[6] Decision Speed	≤ 120 days	> 120 days
[7] Missing Values	≤ 3%	> 3%
[8] Missing Calls for Bids	≤3%	> 3%
[9] Missing Registration Numbers	≤3%	> 3%

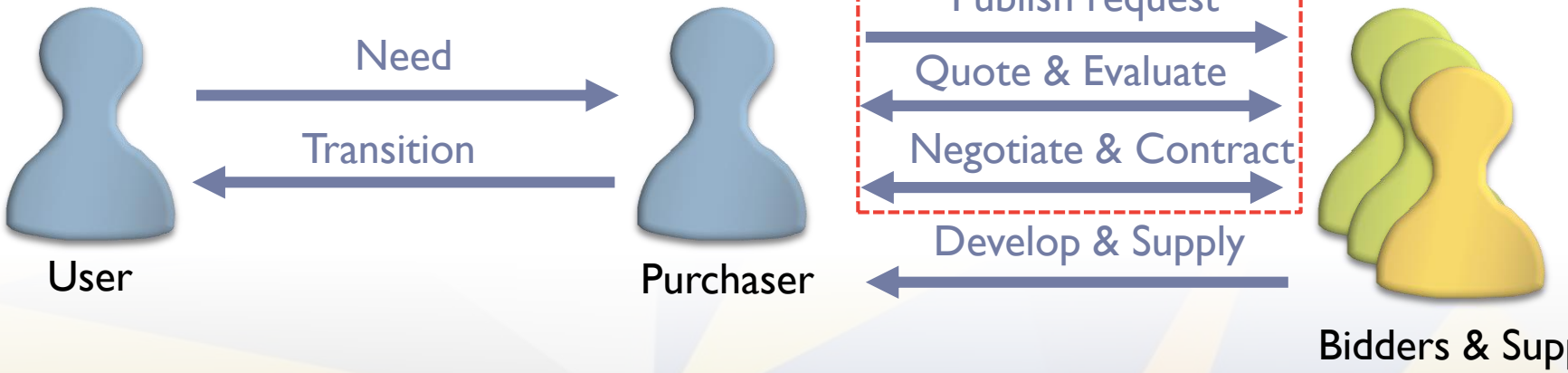
http://ec.europa.eu/internal_market/scoreboard/performance_per_policy_area/public_procurement/index_en.htm

Simple Definitions:

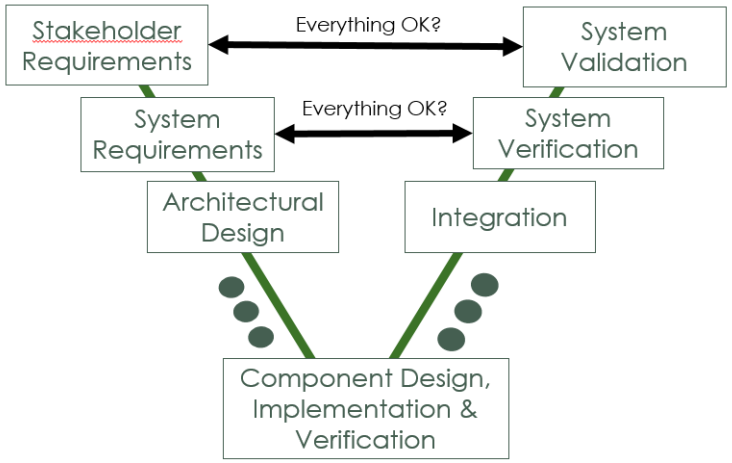
- Acquisition



- Procurement



Why the need for a Procurement quality suite?

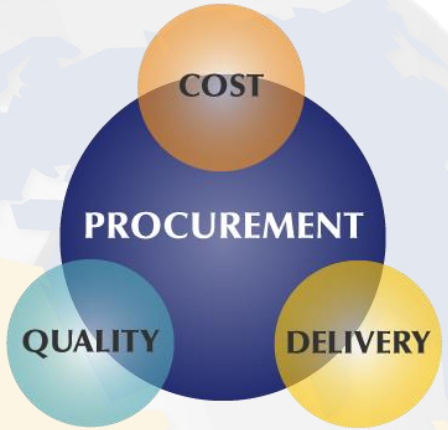


The System perspective

"Getting the right system and solving the right problem"

The Business perspective

"Meeting financial constraints and procurement laws"



The Asset perspective

"As a user I want my capability need fulfilled and maintained over time"

Poor requirements = High odds of failure!

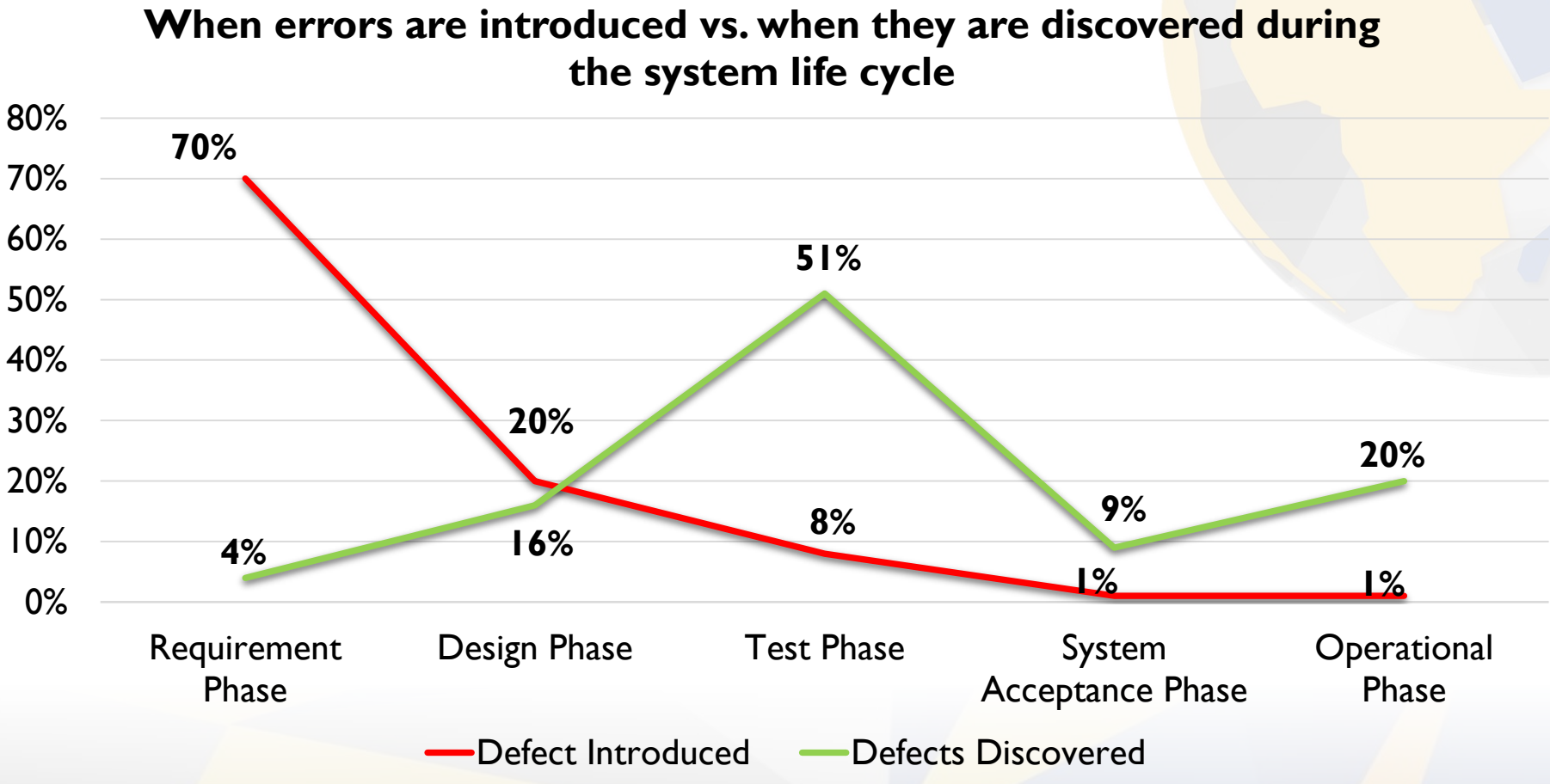
*by Dr. Gina Guillaume-Joseph who studied over 200 failed projects with a total value of **15 billion dollars in sunken cost**. I was not surprised by the result. The main reason for project failure was ranked like this:*

Project failure factor	*Odds of project failure*
Project Schedule Delays	*78,6%*
Changing or Unclear Requirements	*29,9%*
Project Failure in Test Phase	*11,4%*

(Source: Improving Software Project Outcomes Through Predictive Analytics, ENGINEERING MANAGEMENT REVIEW, 2015)

Source: https://requirementdoctor.blog/

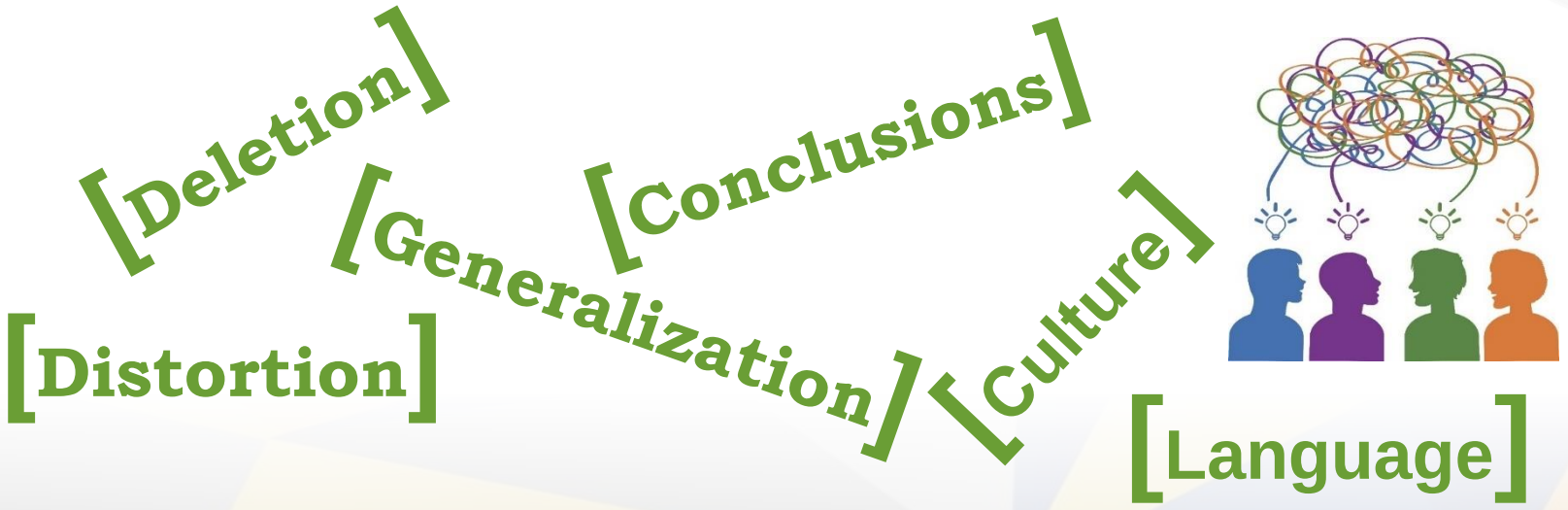
REQUIREMENTS are the reason for FAILURE



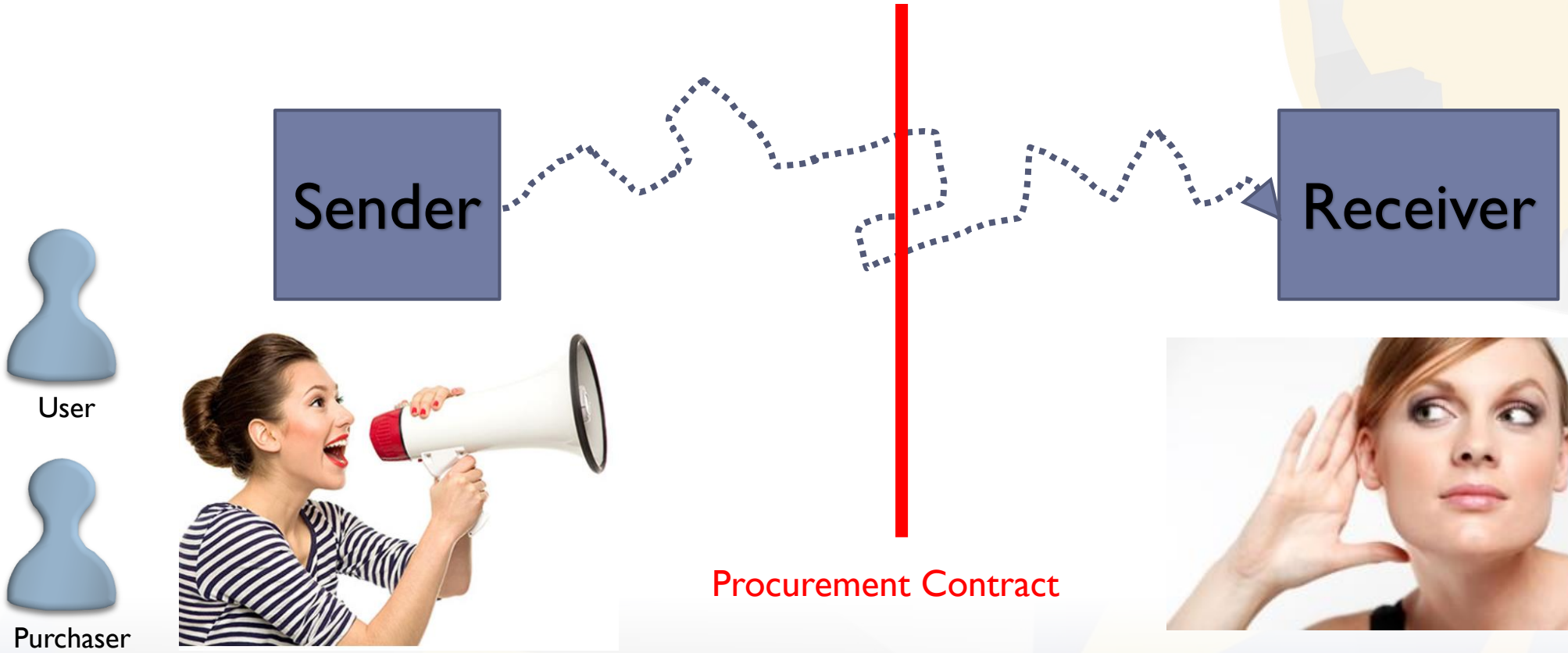
Source: IBM Business research 2017

Why focusing on requirements quality

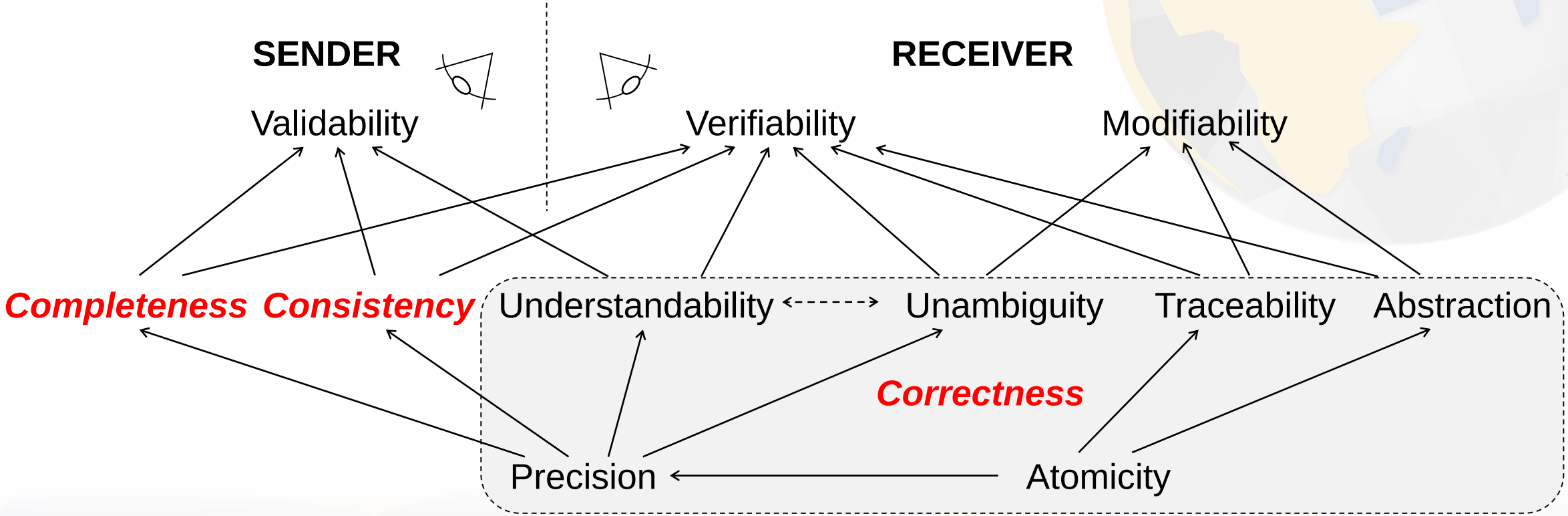
- Because communication among **humans** is not always that easy:
  - Neuro Linguistic Programming (NLP) principles:



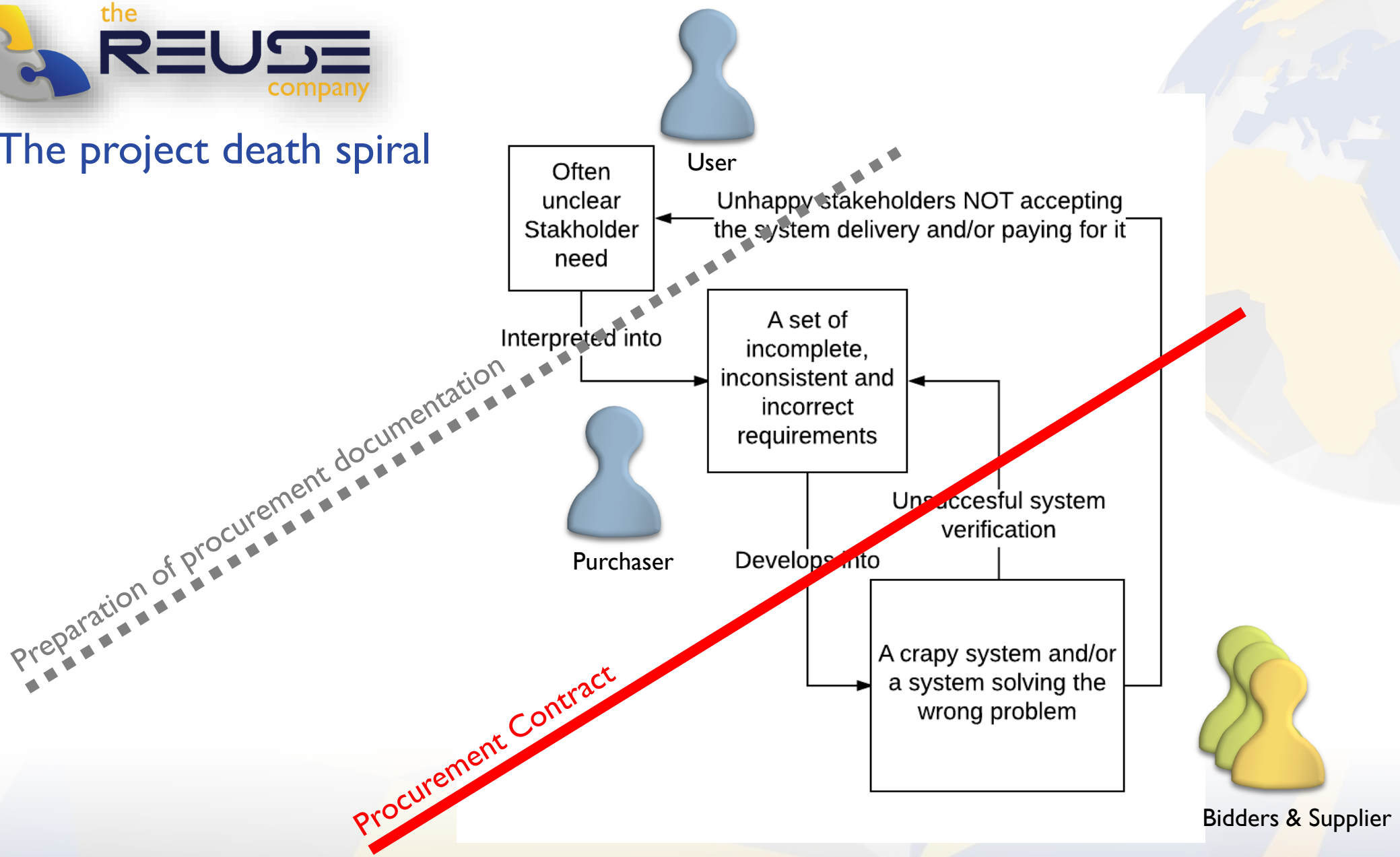
Requirements are used to capture and describe a need



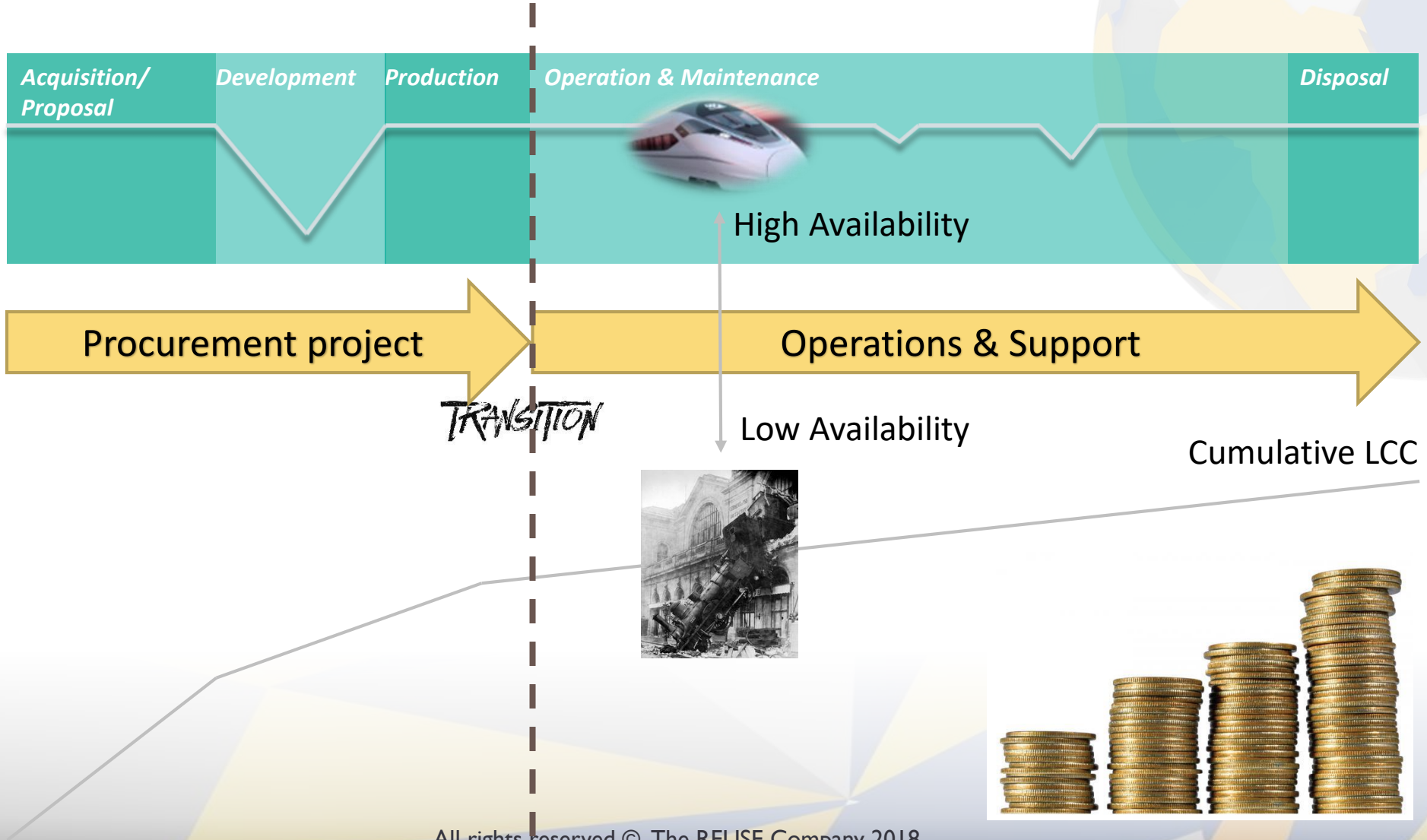
The meaning of understanding each other



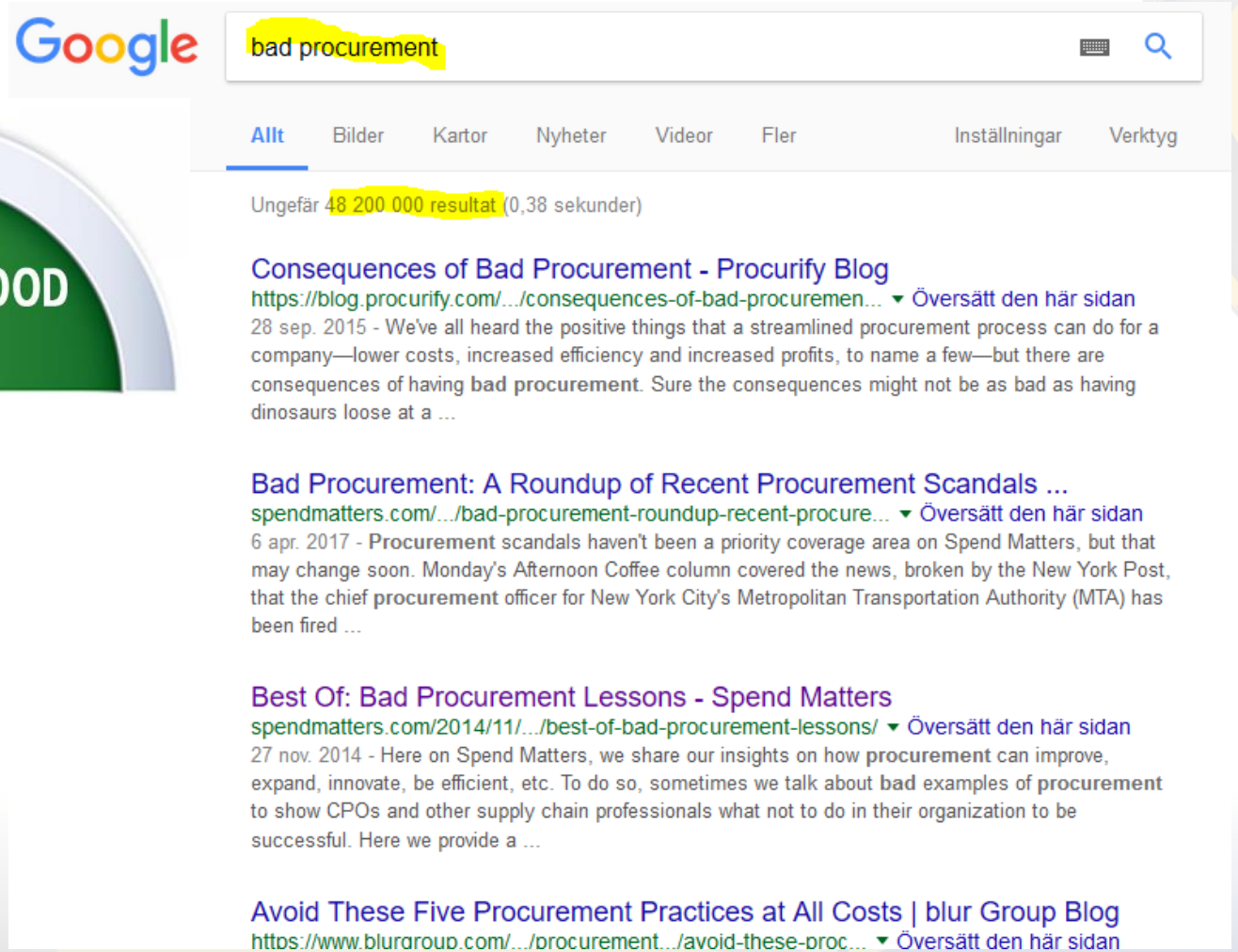
The project death spiral



The System Life cycle of Procurement: In theory



The System Life cycle of Procurement: In practice



Mind le gap! France spends $15 billion on trains that are too fat for 1,300 station platforms – *Independent*

"SNCF's failure to verify measurements results in cost of **€50m to modify 1,300 platforms** in one in six regional stations"

"The train due on platform one will not be arriving for the foreseeable future – because **it is too big**."

"RFF sent SNCF the dimensions of stations built less than 30 years ago. It was then discovered – after it was too late – that the trains, due to go into service from now until 2016, were too big by several centimeters for stations built more than 50 years ago."

SNCF said **only 341 trains** – 182 from Alstom and 159 from Bombardier – were affected.

https://www.theguardian.com/world/2014/may/21/french-railway-operator-sncf-orders-trains-too-big

http://www.independent.co.uk/news/world/europe/french-rail-operator-orders-hundreds-of-new-trains-too-big-for-platforms-9412274.html

Wrong requirements means 30 MEUR law suite

SL kräver 300 miljoner för fiasko med signalsystem

Signalsystemet till t-banans röda linje skulle bana väg för förarlösa tåg. Men efter flera år av förseningar har SL tappat förtroendet för leverantören.
– Vi kräver i ett första steg tillbaka 300 miljoner kronor av förskottet, säger vd:n Caroline Ottosson.

Det nya signalsystemet på tunnelbanans röda linje är försenat flera år. Foto: Claudio Bresciani/TT

kräver tillbaka 300 miljoner kronor av förskottet. Enligt avtalet skulle de den 30 september i år kunna visa hur de skulle kunna slutföra uppdraget på ett trovärdigt sätt. Men vår genomgång visar att man inte uppfyller krav på grundläggande funktionalitet, säger Caroline Ottosson till SvD.

”The delivered control system doesn't fulfil requirements for basic functionality and the Purchaser goes to court to get compensation… ”

What is wrong with Canada's military procurement process?

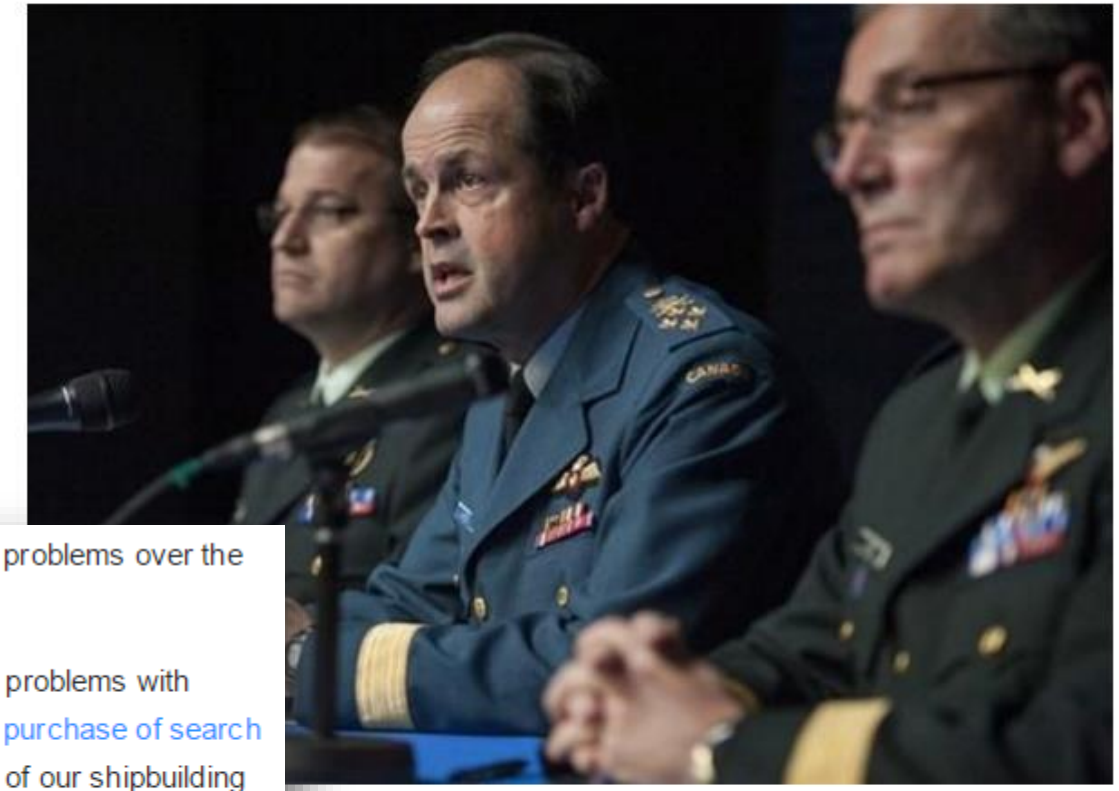
Andy Radia

Canada Politics December 20, 2013

There has been a lot of negative press about Canada's procurement problems over the past several years.

Successive governments have had trouble procuring military trucks, problems with second-hand submarines bought from the UK in 1998, delays on the purchase of search and rescue planes and have faced ongoing questions about the cost of our shipbuilding program.

And let's not forget about the F-35 fiasco and the government's "re-set" of that procurement process last year.



https://ca.news.yahoo.com/blogs/canada-politics/wrong-canada-military-procurement-213306039.html

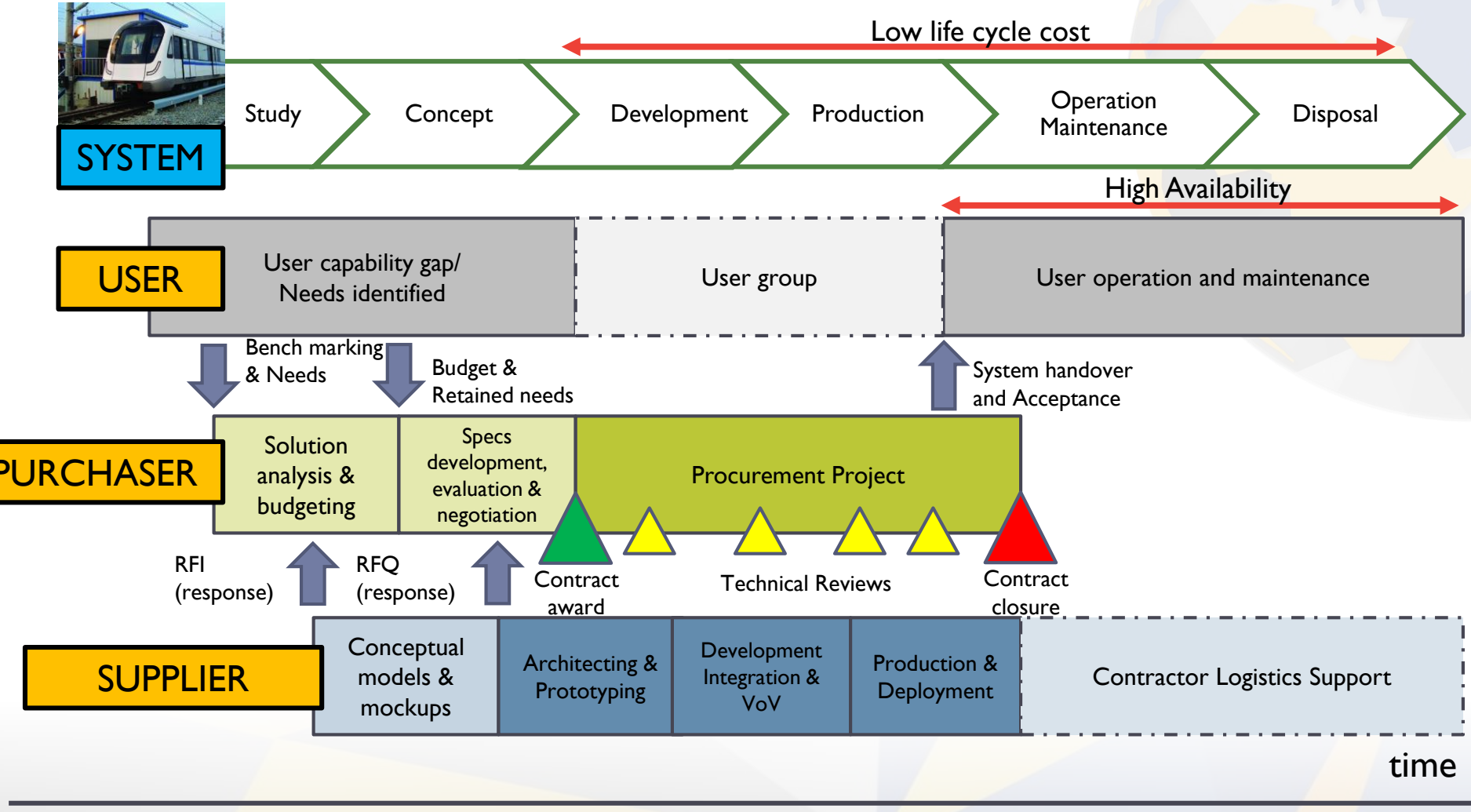
What is the result of a "bad" procurement documentation…

4190 appeals (8%)
and 6,9 month average delay

and/or

and/or

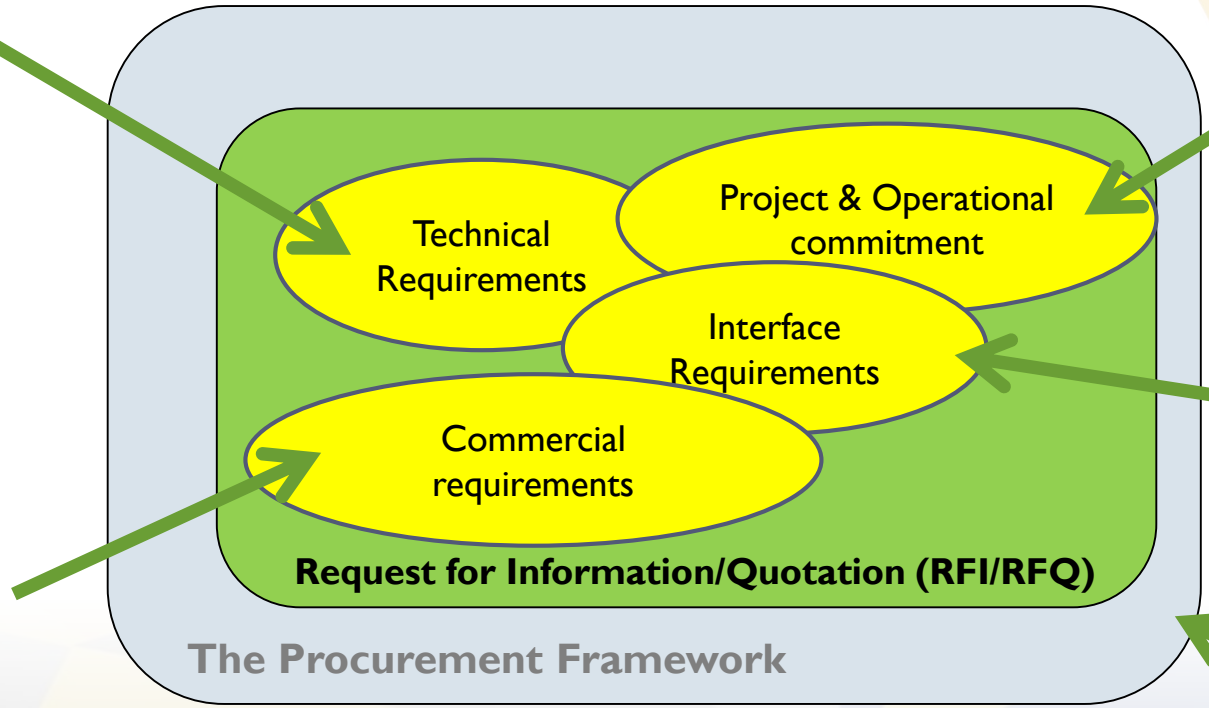
Source: http://www.upphandlingsmyndigheten.se/aktuellt/uppdrag-att-kartlagga-overprovade-upphandlingar/



Who are responsible for what in the procurement documentation?

The Engineers

The Project Manager



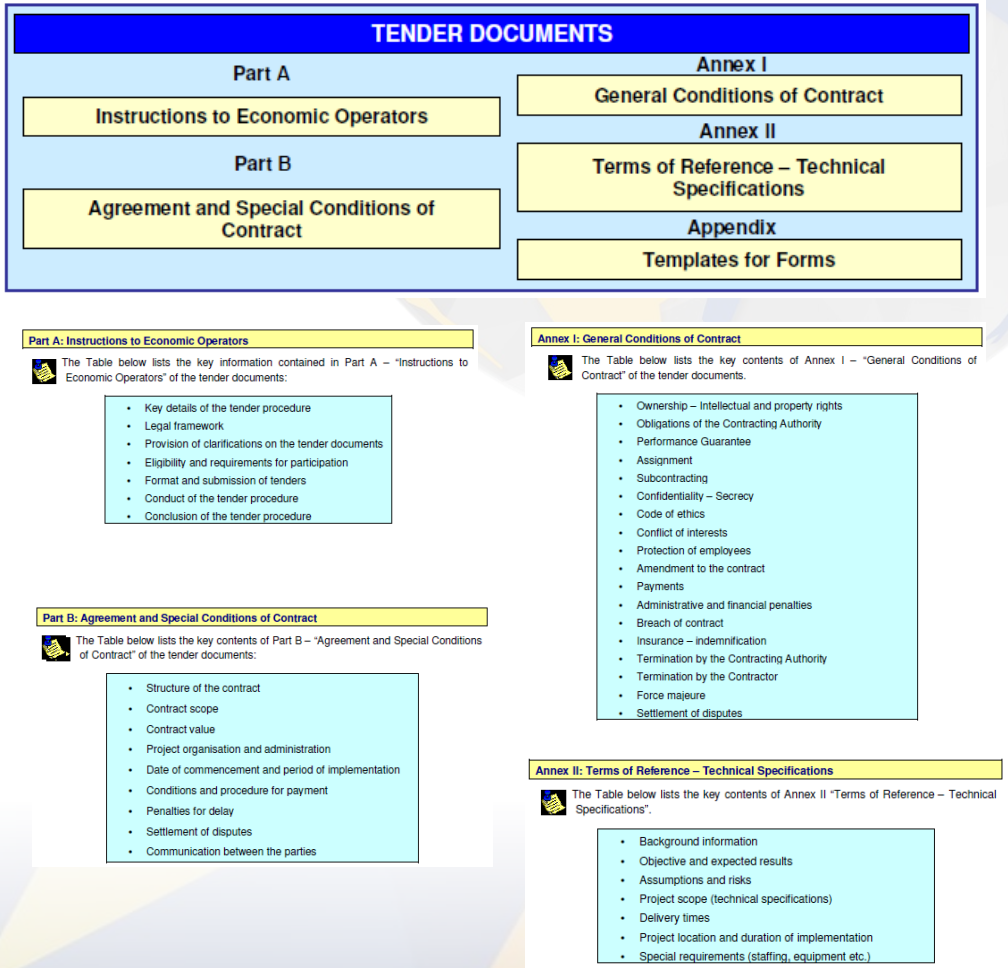
The Engineers

The Purchaser

The Lawyers

The content of the Procurement/Tendering documentation (example)

- There is **allot** of information in a typical Tender….
- We need to make sure that this information is:
- **Correct**
  - All data must be correct. Incorrect data adds risk, cost and delays after failed verification or validation
- **Complete**
  - Incomplete data increases project risk, efforts and possible late changes to contract/design after failed verification or validation
- **Consistent**
  - Inconsistent data increases project risk, effort and possible late changes to contract/design



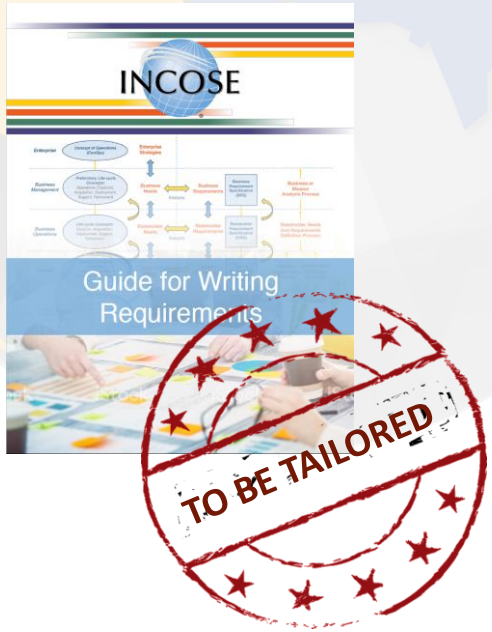
Requirements quality metrics

- The CCC* approach

Individual requirements

Sets of requirements

Sets of requirements



*CCC – Correctness, Consistency and Completeness

Systems Engineering Studio v18.1:
The Procurement Quality Suite application

Friday, 01 June 2018

Knowledge increases over time – Reuse of knowledge

User need/ Capability Gap

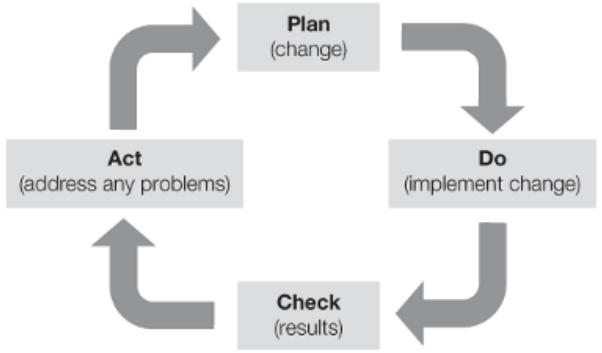
Procurement Project

Procurement documentation

Contract

V&V and System Delivery

Support (Contracted)



Information & Knowledge buildup

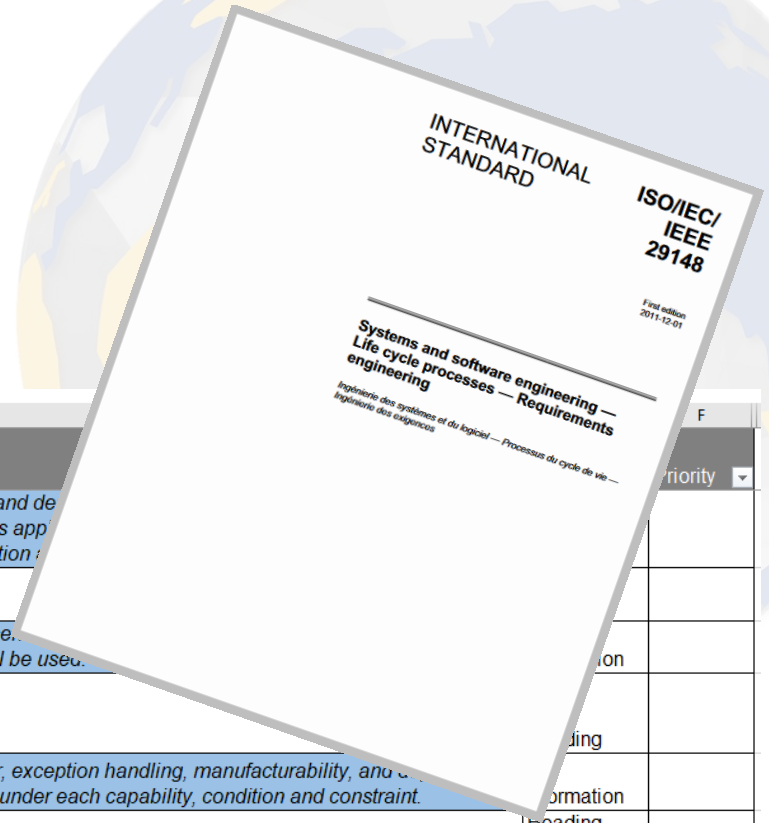
Requirements quality improvements

time

Starting position for many procurement projects…

REQ001: The System Shall….

	A	B	C	D	E	F
1	Object Identifier	Section	Object Heading	Object Text		riority
7	SyRS_026	2,7		*Description: The assumptions and de assumptions and dependencies app taken into account in the allocation*		
8	SyRS_027	2,8	**2.8 Operational scenarios**			
9	SyRS_028	2,8		*Description: The operational sce examples of how the system will be use*		ion
0	SyRS_029	3,0	**3 System capabilities, conditions, and constraints**			ding
1	SyRS_030	3,0		*Description: System behaviour, exception handling, manufacturability, and shall be covered as applicable under each capability, condition and constraint.*		ormation
2	SyRS_031	3,1	**3.1 Physical**		Heading	
3	SyRS_032	3,1,1	**3.1.1 Construction**		Heading	
4	SyRS_033	3,1,1		*Description: The construction clause of the SyRS shall include the environmental (mechanical, electrical, chemical) characteristics of where the system will be installed.* *For example, the weight limits of the system, moments of inertia, dimensional and volume limitations, crew space, operator station layout, ingress, egress, and access for maintenance should be specified here.* *The construction clause of the SyRS shall include requirements for materials to be used in the item or service covered by this specification.* *The construction clause of the SyRS shall include requirements covering nameplates and system markings, interchangeability of equipment, and workmanship.*	Information	
5	SyRS_034	3,1,1		The System shall…	Requirement	SHALL

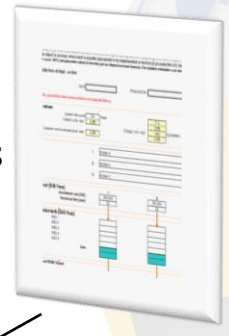


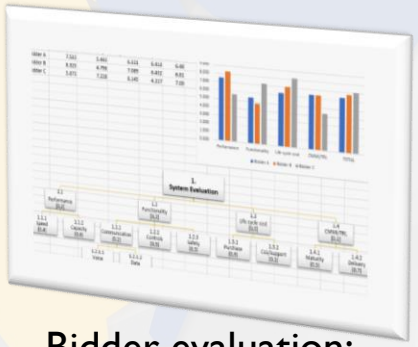
PQS – Procurement Quality Suite

Bidder compliance response sheets

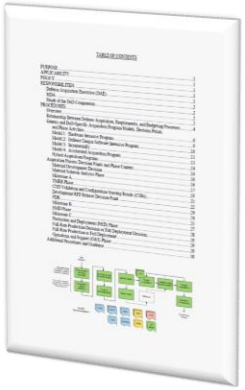
Set of requirement spec templates: SyRS, SoW & CLS

LCC and Price response sheets





Bidder evaluation: criteria and analysis



On-line Procurement method & guidebook

PDF generator

RM Tool integration (optional)

IBM Rational

OSLC

visure

integrity™

ReqIF

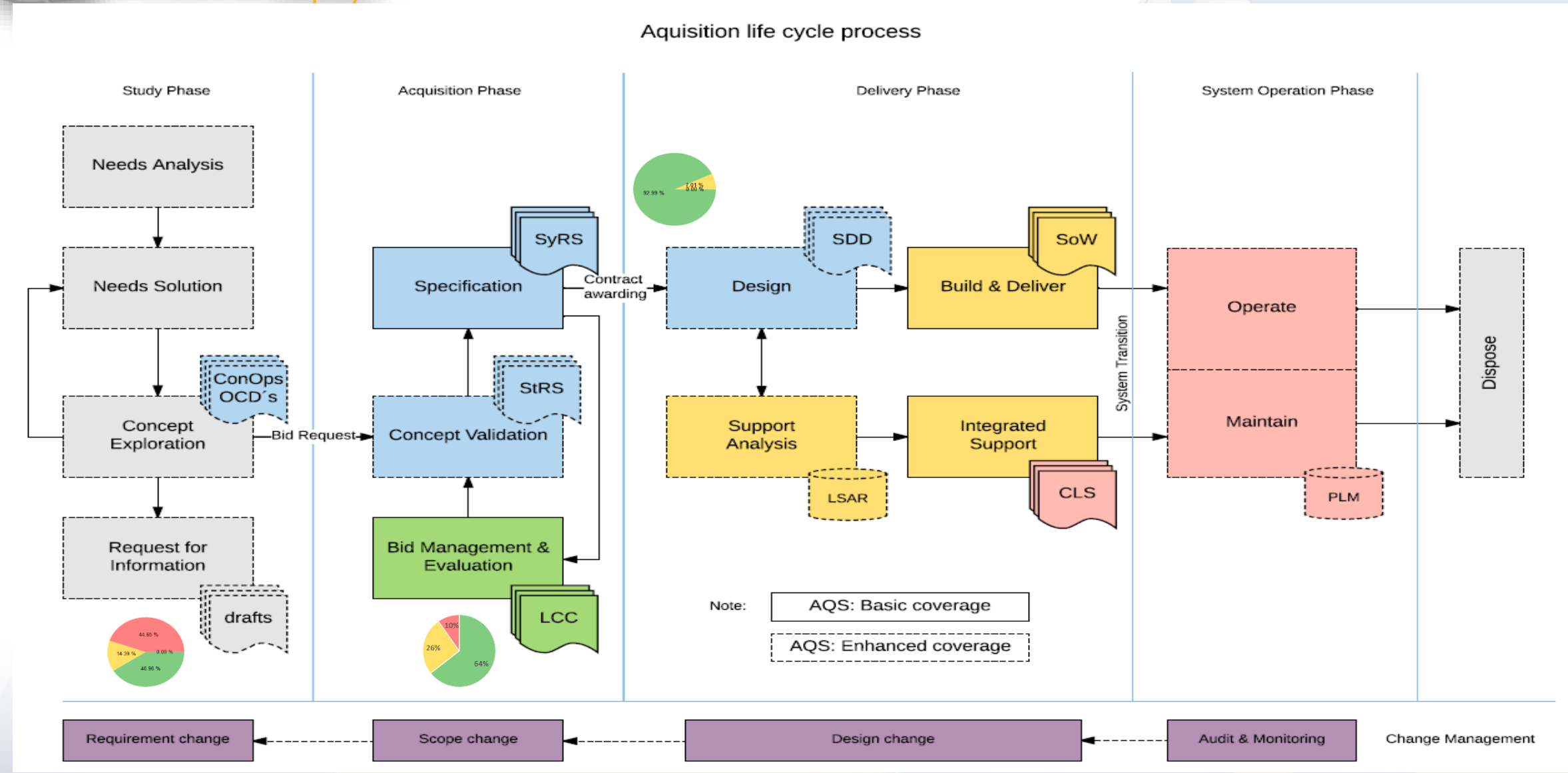
*Depends on products and domain

Content in first PQS release

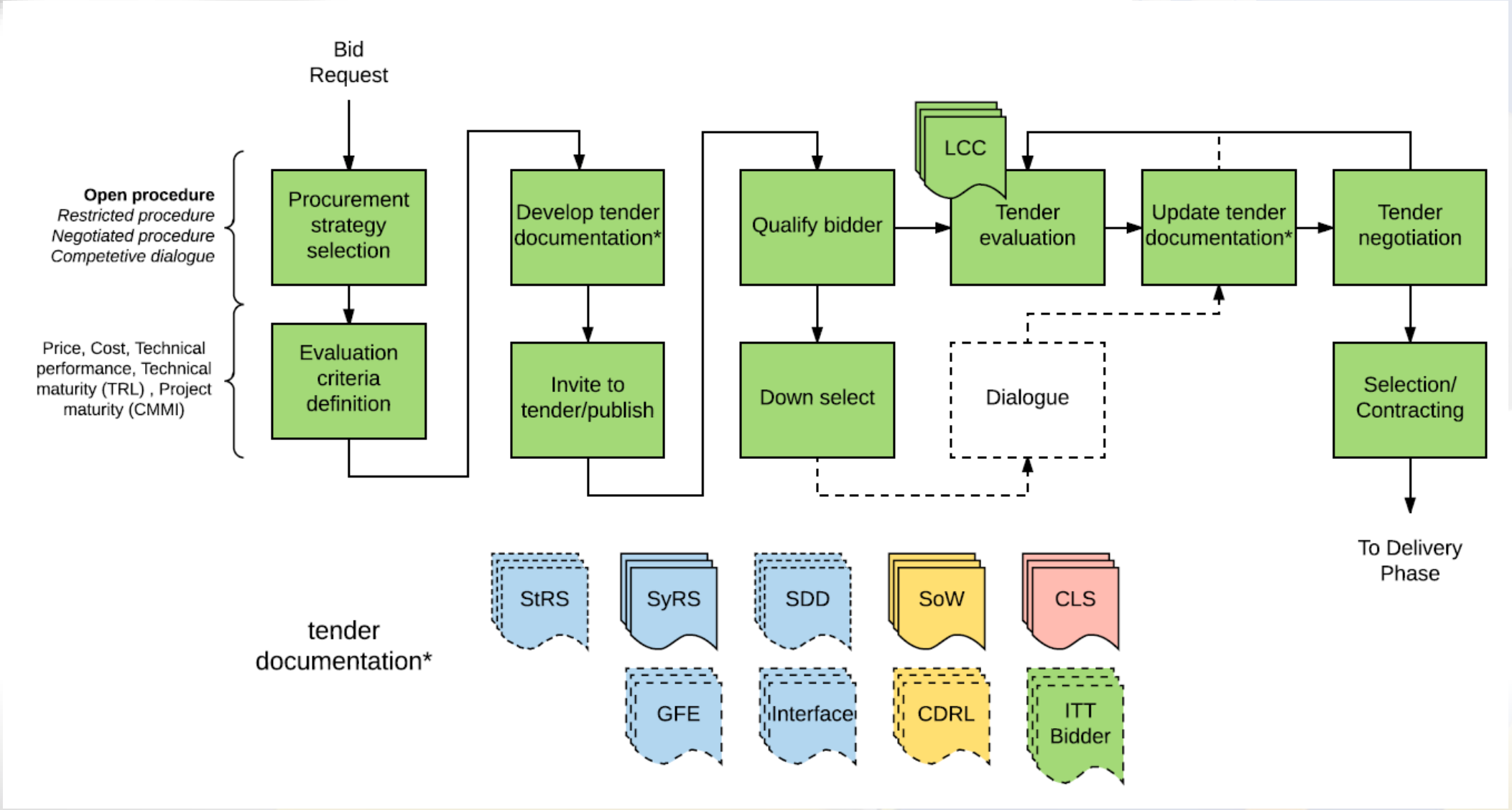
- REUSE V18.1 tool suite
- KM database with procurement content:
  - Standards and rules
  - Pattern for requirement development
  - Metrics for QA
- Process defined with ”Procurement Assistant” Handbook
- Templates (excel) for SyRS, SoW, CLS specifications and Price/LCC response

- To come in future releases:
  - Traceability and Change management
  - Evaluation support (technology/price/other)
  - Reports
  - Plus….

The Procurement Quality Suite – Process overview



The Procurement Quality Suite – Overview



the
REUSE
company

Systems Engineering Studio v18.1:
Demonstration for Procurement documentation analysis

Friday, 01 June 2018

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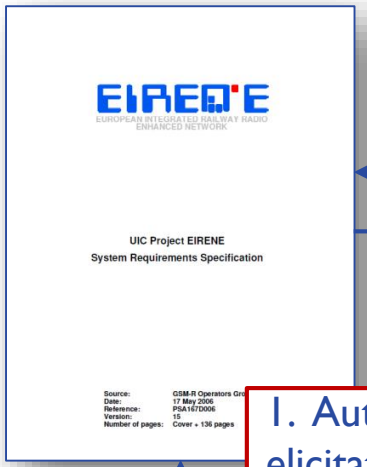
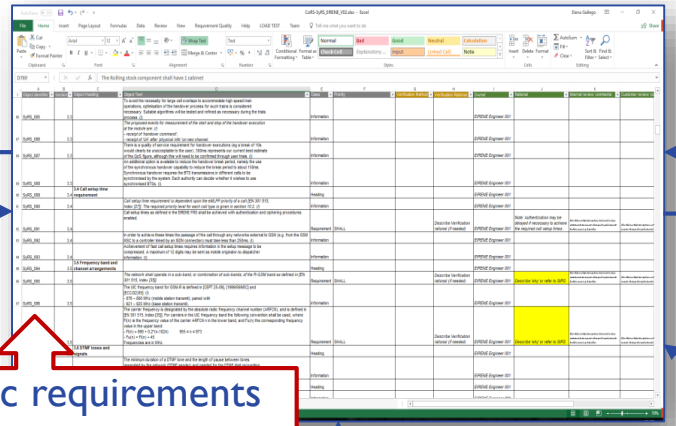
Connects every tool involved in the systems engineering processes

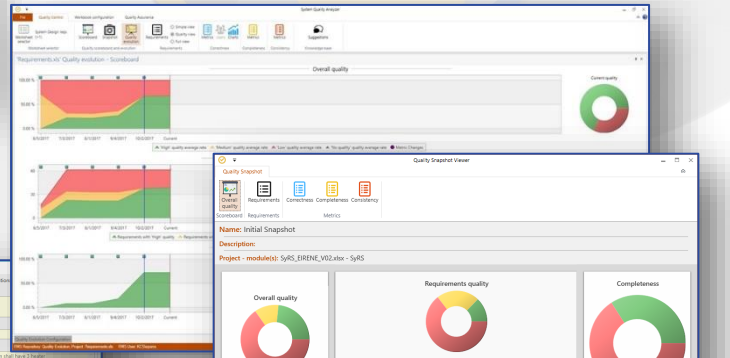
What you are going to see in the Demonstration of SES v18.1



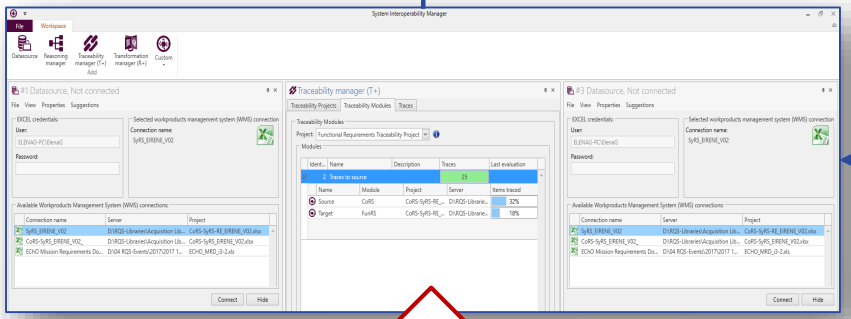


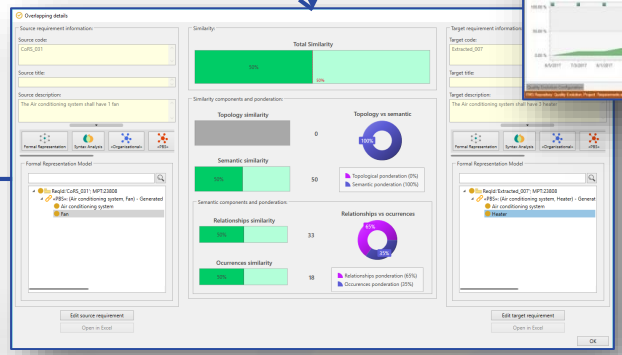
1. Automatic requirements elicitation from documents

2. An application to check compliance with standards in the procurement projects



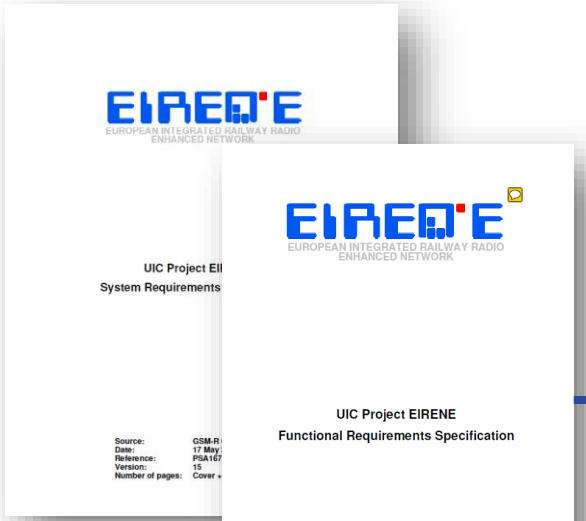
3. How are we performing?



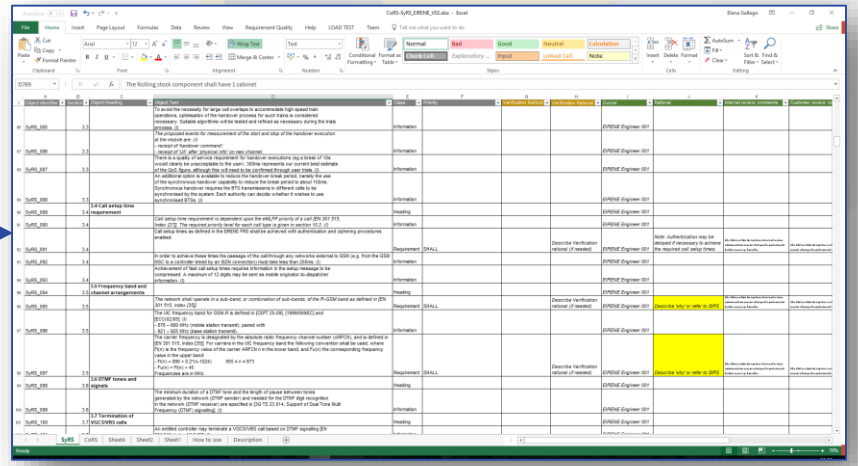


4. Keep tracing all the information back to their source.

1. Automatic requirements elicitation from documents



Automatic Extraction based on **patterns**

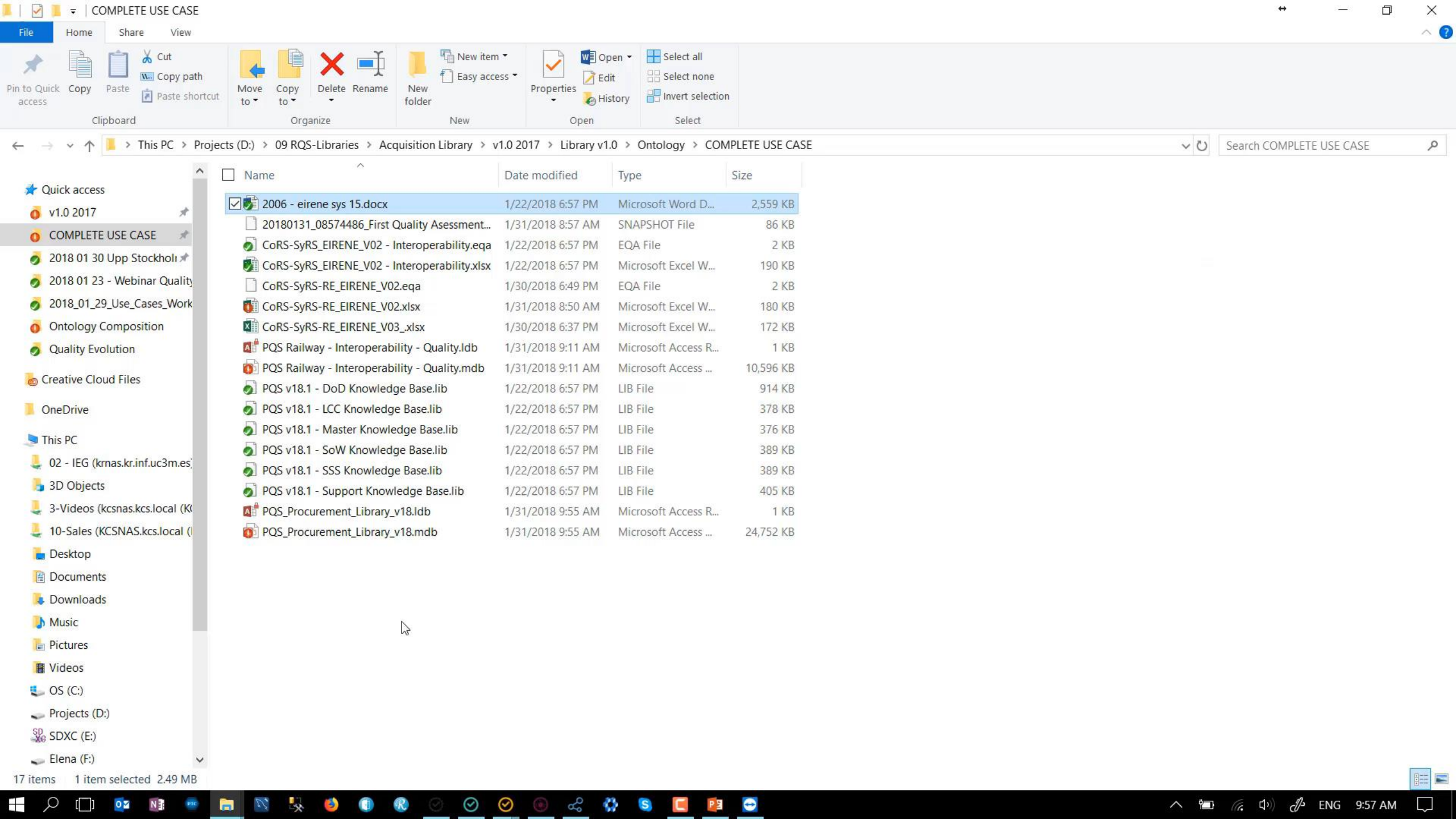


Source Requirements Documents (Word, PDF)

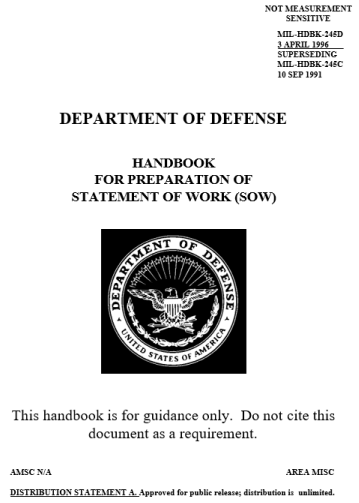
Simple Index Process

Knowledge - Based Index Process

Requirements Documents (Excel, DOORS, Word, …)


COMPLETE USE CASE
File
Home
Share
View
Pin to Quick access
Copy
Paste
Cut
Copy path
Paste shortcut
Clipboard
Move to
Copy to
Delete
Rename
Organize
New folder
New item
Easy access
New
Properties
Open
Edit
History
Open
Select all
Select none
Invert selection
Select
This PC
Projects (D:)
09 RQS-Libraries
Acquisition Library
v1.0 2017
Library v1.0
Ontology
COMPLETE USE CASE
Search COMPLETE USE CASE
Quick access
v1.0 2017
COMPLETE USE CASE
2018 01 30 Upp Stockholi
2018 01 23 - Webinar Quality
2018_01_29_Use_Cases_Work
Ontology Composition
Quality Evolution
Creative Cloud Files
OneDrive
This PC
02 - IEG (krnas.kr.inf.uc3m.es)
3D Objects
3-Videos (kcsnas.kcs.local (K
10-Sales (KCSNAS.kcs.local (
Desktop
Documents
Downloads
Music
Pictures
Videos
OS (C:)
Projects (D:)
SDXC (E:)
Elena (F:)
Name
Date modified
Type
Size
2006 - eirene sys 15.docx 1/22/2018 6:57 PM Microsoft Word D... 2,559 KB
20180131_08574486_First Quality Asessment... 1/31/2018 8:57 AM SNAPSHOT File 86 KB
CoRS-SyRS_EIRENE_V02 - Interoperability.eqa 1/22/2018 6:57 PM EQA File 2 KB
CoRS-SyRS_EIRENE_V02 - Interoperability.xlsx 1/22/2018 6:57 PM Microsoft Excel W... 190 KB
CoRS-SyRS-RE_EIRENE_V02.eqa 1/30/2018 6:49 PM EQA File 2 KB
CoRS-SyRS-RE_EIRENE_V02.xlsx 1/31/2018 8:50 AM Microsoft Excel W... 180 KB
CoRS-SyRS-RE_EIRENE_V03_.xlsx 1/30/2018 6:37 PM Microsoft Excel W... 172 KB
PQS Railway - Interoperability - Quality.ldb 1/31/2018 9:11 AM Microsoft Access R... 1 KB
PQS Railway - Interoperability - Quality.mdb 1/31/2018 9:11 AM Microsoft Access ... 10,596 KB
PQS v18.1 - DoD Knowledge Base.lib 1/22/2018 6:57 PM LIB File 914 KB
PQS v18.1 - LCC Knowledge Base.lib 1/22/2018 6:57 PM LIB File 378 KB
PQS v18.1 - Master Knowledge Base.lib 1/22/2018 6:57 PM LIB File 376 KB
PQS v18.1 - SoW Knowledge Base.lib 1/22/2018 6:57 PM LIB File 389 KB
PQS v18.1 - SSS Knowledge Base.lib 1/22/2018 6:57 PM LIB File 389 KB
PQS v18.1 - Support Knowledge Base.lib 1/22/2018 6:57 PM LIB File 405 KB
PQS_Procurement_Library_v18.ldb 1/31/2018 9:55 AM Microsoft Access R... 1 KB
PQS_Procurement_Library_v18.mdb 1/31/2018 9:55 AM Microsoft Access ... 24,752 KB
17 items
1 item selected 2.49 MB
ENG
9:57 AM

2. An application to check compliance with standards


NOT MEASUREMENT SENSITIVE

MIL-HDBK-245D
3 APRIL 1996
SUPERSEDING
MIL-HDBK-245C
10 SEP 1991

DEPARTMENT OF DEFENSE

HANDBOOK
FOR PREPARATION OF
STATEMENT OF WORK (SOW)

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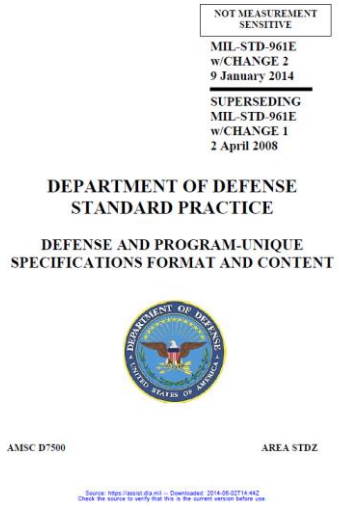
AMSC N/A AREA MISC

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

Statement of Work
SoW


NOT MEASUREMENT SENSITIVE

MIL-STD-961E
w/CHANGE 2
9 January 2014

SUPERSEDING
MIL-STD-961E
w/CHANGE 1
2 April 2008

DEPARTMENT OF DEFENSE
STANDARD PRACTICE

DEFENSE AND PROGRAM-UNIQUE
SPECIFICATIONS FORMAT AND CONTENT

AMSC D7500 AREA STDZ

Defence Technical
Specification


SX000i

SX000i-B6865-0X000-00

International guide for
the use of the S-Series
Integrated Logistic Support (ILS)
specifications

SX000i-B6865-0X000-00

Issue No. 1.1

SX000i

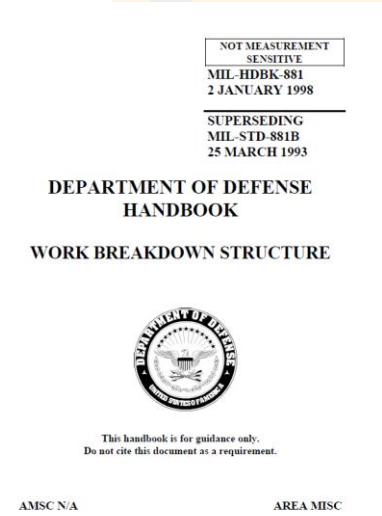
Publishers:
ASD
AeroSpace and Defence Industries Association of Europe
Aerospace Industries Association

Applicable to: All

SX000i-A-00-00-0000-00A-040A-A

2016-07-15 Page 1

Support
CLS / ILS


NOT MEASUREMENT SENSITIVE

MIL-HDBK-881
2 JANUARY 1998

SUPERSEDING
MIL-STD-881B
25 MARCH 1993

DEPARTMENT OF DEFENSE
HANDBOOK

WORK BREAKDOWN STRUCTURE

This handbook is for guidance only.
Do not cite this document as a requirement.

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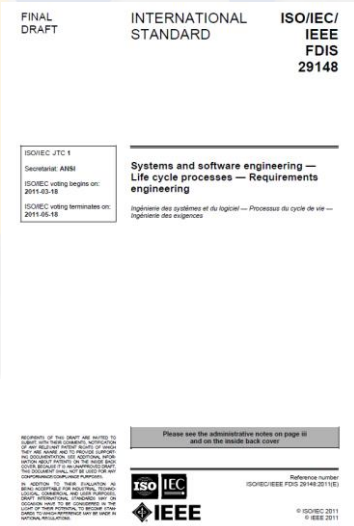
Work Breakdown
SoW


FINAL DRAFT

INTERNATIONAL STANDARD

ISO/IEC/
IEEE
FDIS
29148

ISO/IEC JTC 1

Secretariat: ANSI

ISO/IEC voting begins on:
2011-03-18

ISO/IEC voting terminates on:
2011-05-18

Systems and software engineering —
Life cycle processes — Requirements
engineering

Ingénierie des systèmes et du logiciel — Processus du cycle de vie — Ingénierie des exigences

Please see the administrative notes on page iii and on the inside back cover

ISO IEC IEEE

Reference number
ISO/IEC/IEEE FDIS 29148:2011(E)

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Technical Specification
SSS

KNOWLEDGE Manager

File | Terminology | Conceptual Model | Patterns | Formalization | Inference | Configuration management | Extensibility | Assets store | Settings

Terms | Term suggestions | Import terms | Special sentences | Integrity | Generate terms and frequencies | Tags | Languages | Tokenization rules | Test | Rules | Affixes | Substitutes | Test | Spell checker | Rules | Bigrams rules | Tags probabilities | Test

Terminology Management | Terminology Discovery | Term Tags | Languages | Tokenization | Normalization | Disambiguation

Search fields:

Term:

Term tag:

Cluster:

Relationship type:

Identifier:
- Equals to:
- Greater than:
- Lower than:

Relationship filters:
- Belongs to domain
- Belongs to SCM
- Revised
- Synonym

Flags:
- Flag 1
- Flag 2

Advanced filters:

Search in a new window | Search

Terms:

Identifier	Term	Term Tag	Cluster	Relationship type	Belongs to domain	Belongs to SCM	Includes content	Scope Note
48,865	A-1	ACRONYMS	< No «Cluster» >	< No «Relationship type» >	☑	☐	☐	director of manpower, personnel, and services (Air Force)
48,866	A2	ACRONYMS	< No «Cluster» >	< No «Relationship type» >	☑	☐	☐	antiaccess
48,868	A-2	ACRONYMS	< No «Cluster» >	< No «Relationship type» >	☑	☐	☐	intelligence staff officer (Air Force)
48,867	A2C2	ACRONYMS	< No «Cluster» >	< No «Relationship type» >	☑	☐	☐	Army airspace command and control
48,869	A-3	ACRONYMS	< No «Cluster» >	< No «Relationship type» >	☑	☐	☐	operations directorate (COMAFFOR staff); operations staff officer (Air Force)
48,870	A-4	ACRONYMS	< No «Cluster» >	< No «Relationship type» >	☑	☐	☐	director of logistics (Air Force)
48,564	A4A	ACRONYMS	--- Locked ---	--- Locked ---	☑	☑	☐	Airlines for America [Source: SX000i-B6865-0X000-00]
48,871	A-5	ACRONYMS	< No «Cluster» >	< No «Relationship type» >	☑	☐	☐	plans directorate (COMAFFOR staff)
48,872	A-6	ACRONYMS	< No «Cluster» >	< No «Relationship type» >	☑	☐	☐	communications staff officer (Air Force)
48,873	A-7	ACRONYMS	< No «Cluster» >	< No «Relationship type» >	☑	☐	☐	director of installations and mission support (Air Force)
48,874	AA	ACRONYMS	< No «Cluster» >	< No «Relationship type» >	☑	☐	☐	assessment agent; avenue of approach
48,875	AA&E	ACRONYMS	< No «Cluster» >	< No «Relationship type» >	☑	☐	☐	arms, ammunition, and explosives
48,876	AAA	ACRONYMS	< No «Cluster» >	< No «Relationship type» >	☑	☐	☐	antiaircraft artillery; arrival and assembly area; assign alternate area
48,877	AABB	ACRONYMS	< No «Cluster» >	< No «Relationship type» >	☑	☐	☐	American Association of Blood Banks
48,878	AABWS	ACRONYMS	< No «Cluster» >	< No «Relationship type» >	☑	☐	☐	amphibious assault bulk water system

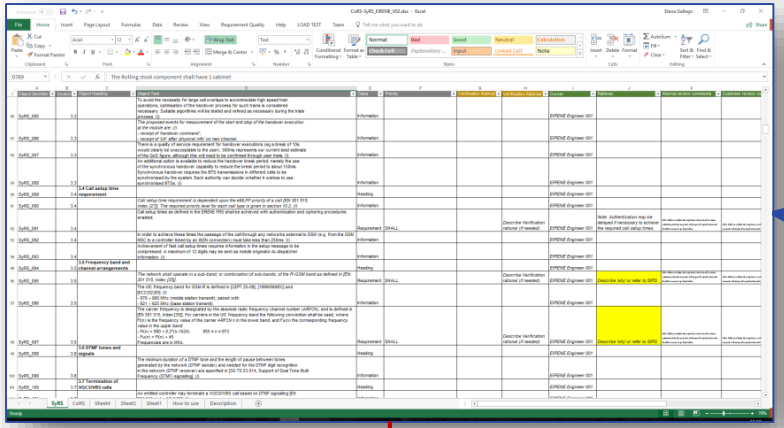
16096 term(s)

Ready

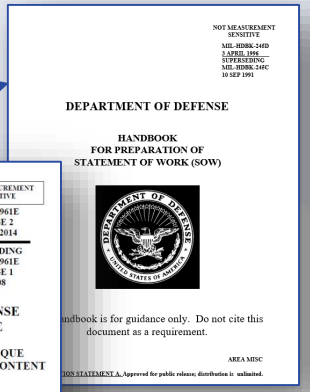
Connected to 'D:\09 RQS-Libraries\Acquisition Library\v1.0 2017\Library v1.0\Ontology\COMPLETE USE CASE\PQS_Procurement_Library_v18.mdb'

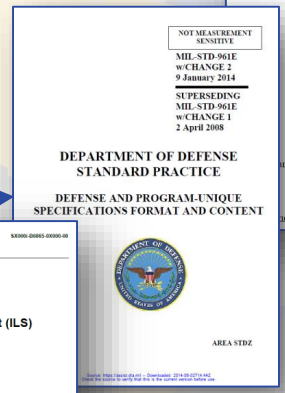
ENG 2:55 PM

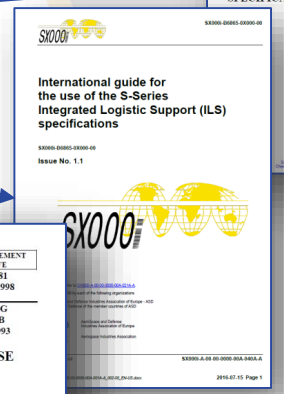
3. An application to check compliance with standards

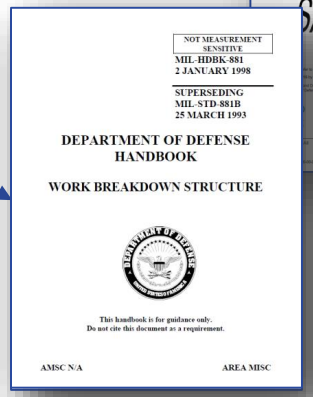


Completeness
Consistency

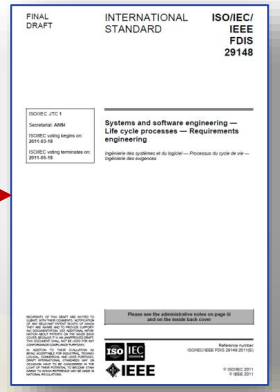




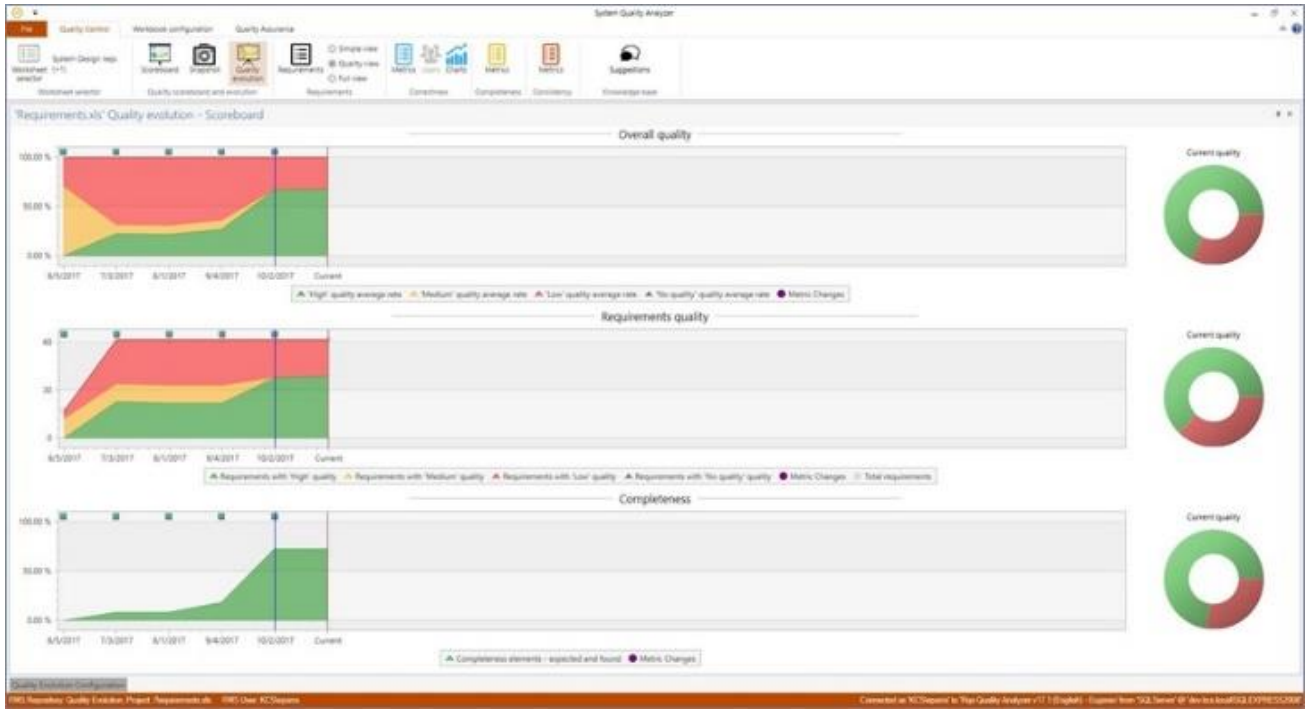




Correctness
Completeness
Consistency



3. Keep the performance under control

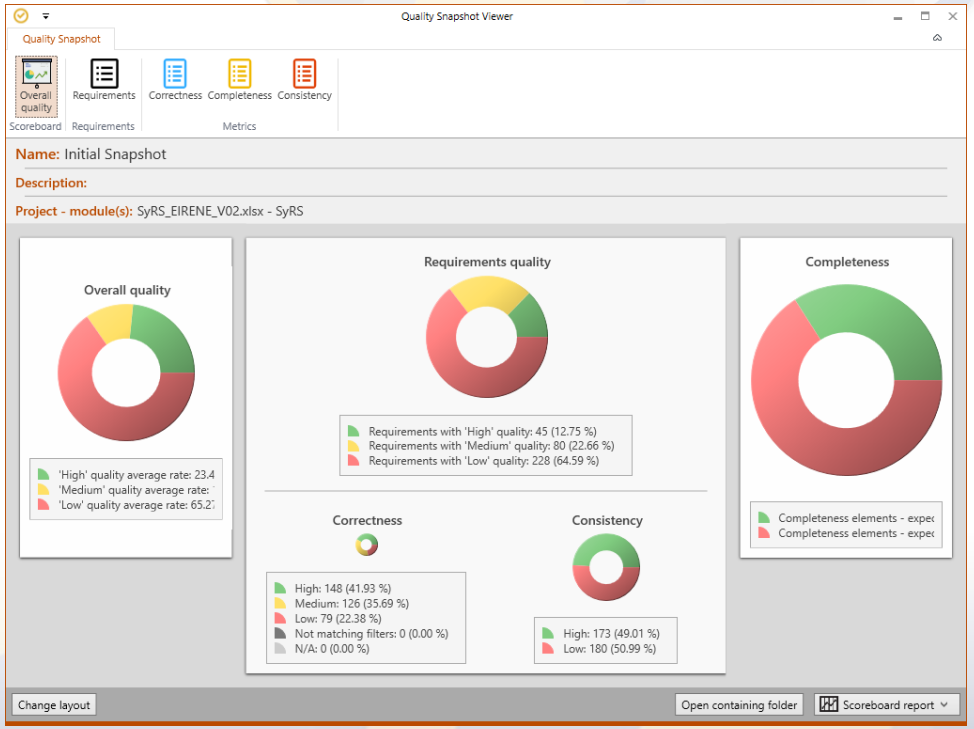


Automatic Evaluation of the different bidder's documentation!

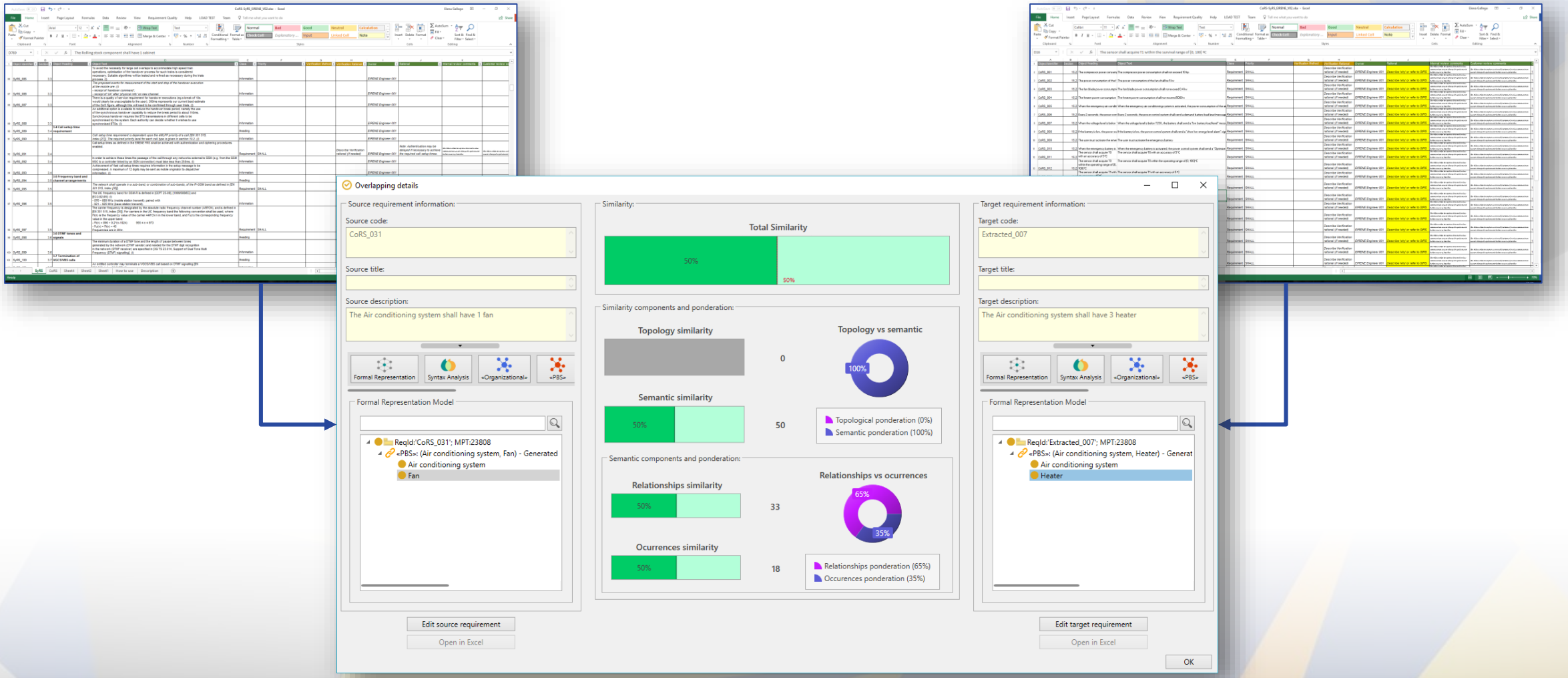
Acquirer viewpoint

Supplier viewpoint

Key Performance Indicators from the beginning, up to today!



3. Do we specify our projects too much (or not enough)?



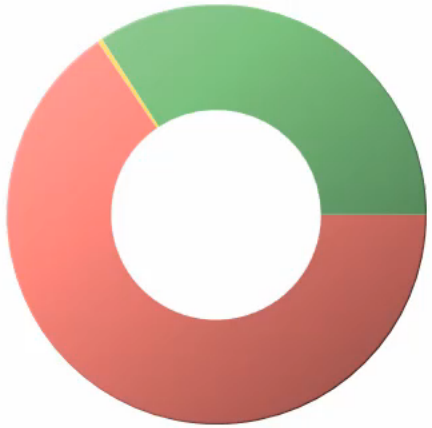
VERIFICATION Studio

File | Quality Control | Workbook configuration | Quality Assurance

Worksheet selector | CoRS (+2) | Scoreboard | Snapshot | Quality evolution | Requirements | Simple view | Quality view | Full view | Metrics | Users | Charts | Metrics | Metrics | Suggestions

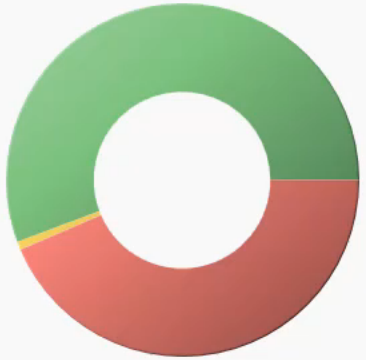
Worksheet selector | Quality scoreboard and evolution | Requirements | Correctness | Consistency | Completeness | Knowledge base

Overall quality



'High' quality average rate: 34.17%
'Medium' quality average rate: 0.38%
'Low' quality average rate: 65.44%

Requirements quality



Requirements with 'High' quality: 73 (55.73%)
Requirements with 'Medium' quality: 1 (0.76%)
Requirements with 'Low' quality: 57 (43.51%)

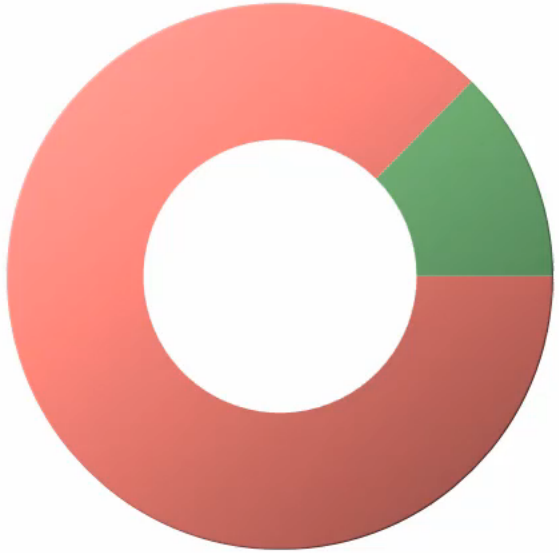
Correctness

High: 130 (99.24%) | Medium: 1 (0.76%)
Low: 0 (0.00%) | Not matching filters: 0 (0.00%)
N/A: 0 (0.00%)

Consistency

High: 33 (25.19%)
Low: 57 (43.51%)
No quality: 41 (31.30%)

Completeness



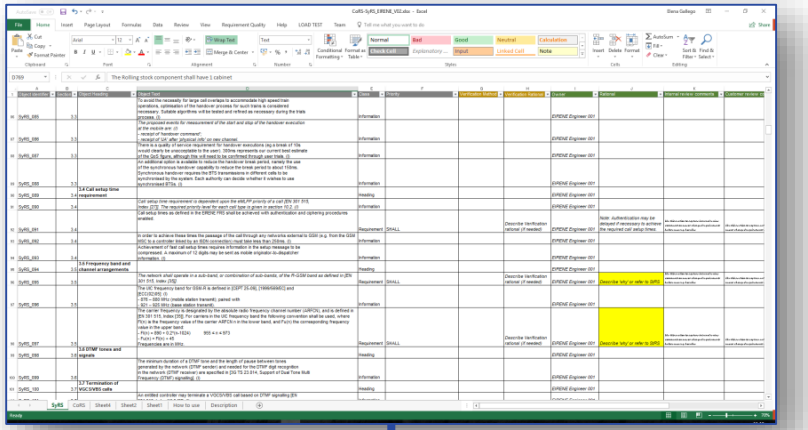
Completeness elements - expected and found: 89 (12.6
Completeness elements - expected but NOT found: 616

Change layout | Scoreboard report

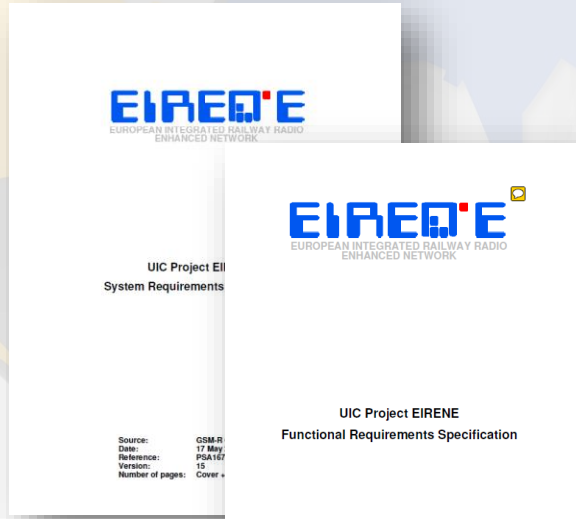
RMS Repository: Ontology; Project: CoRS-SyRS_EIRENE_V02.xlsx | RMS User: EGALLEGO-LAPTOP\Elena Gallego | Connected to 'D:\09 RQS-Libraries\Acquisition Library\v1.0 2017\Library v1.0\Ontology\Ontology Composition\PQS_Procurement_Library_v18_Quality_Ontology.mdb'

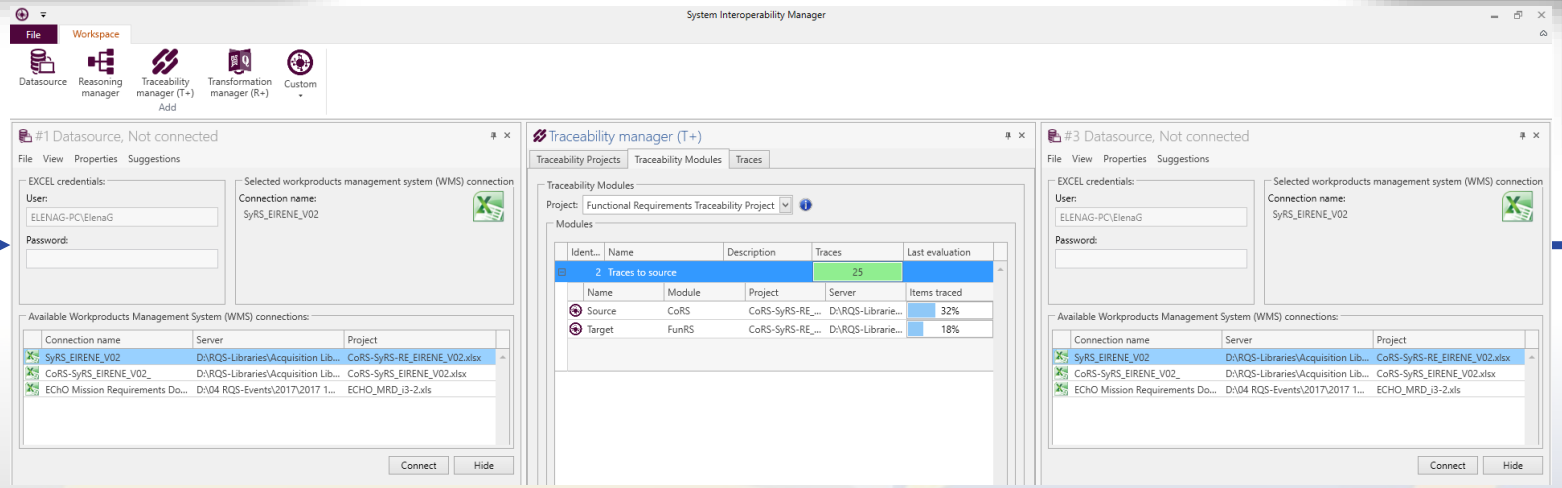
ENG 2:02 PM

4. Keep tracing all the information back to their source



Smart Suggestion of Traces
based on **Ontology**





TRACEABILITY Studio

File | Workspace

#2 Datasource, {Use Case for Procurement PQS Dem...

File View Properties Suggestions

CoRS

Drag a column header here to group by that column

	Label	Text
	N/A	Every 2 seconds, the power control system shall send...
	N/A	When the voltage level is below 11,5V, the battery sh...
	N/A	If the battery is low, the power control system shall s...
	N/A	The user must activate the emergency battery
	N/A	When the capacity of the accumulator is lower than...
	N/A	The sensor shall acquire T0 with an accuracy of 5 °C
	N/A	The sensor shall acquire T0 within the operating ran...
	N/A	The sensor shall acquire T1 with an accuracy of 5 °C
	N/A	The sensor shall acquire T1 within the operating ran...
	N/A	The sensor shall acquire T1 within the survival range...
	N/A	The sensor shall acquire T2 with an accuracy of 5 °C
	N/A	The sensor shall acquire T2 within the operating ran...
	N/A	The sensor shall acquire T2 within the survival range...
	N/A	The sensor shall acquire T2 within the response time...
	N/A	The sensor shall acquire T3 within the survival range...
	N/A	The sensor shall acquire T3 within the response time...
	N/A	The sensor shall acquire T4 with an accuracy of 5 °C
	N/A	The sensor shall acquire T4 within the operating ran...
	N/A	The sensor shall acquire T4 within the survival range...

Total requirements: 34

Hide non-Requirement

RMS Repository: COMPLETE USE CASE; Project: CoRS-SyRS-F | Save | Close

TRACEABILITY Studio

Traceability projects | Traceability modules | Traces

Traceability project scoreboard:

ID: 2
Name: Traceabili between Functiona

Number of projects: 2
Number of traceability modules: 1

Number of document

Traceability completeness:

Number of workproducts: 89
Traced workproducts: 0
Untraced workproducts: 89

0%

Trace analysis:

Number of traces: 0
Non-suspects traces: 0
Suspect traces: 0

0

Traceability projects:

	Name	Description	Modific...	Creatio...
1	Functional R...	This traceability project will mana...	1/31/2...	1/18/20...
2	Traceability b...	Traceability project to connect sy...	5/21/2...	5/21/20...

Number of projects: 2

#3 Datasource, {Use Case for Procurement Demonstr...

File View Properties Suggestions

FunRS

Drag a column header here to group by that column

	Label	Text
	N/A	The maximum power consumption of the compresso...
	N/A	The maximum power consumption of the fan shall b...
	N/A	The maximum power consumption of the fan blade s...
	N/A	The maximum power consumption of the heater shal...
	N/A	The maximum power consumption of the air conditi...
	N/A	The Air conditioning system shall have 3 heater
	N/A	The Hydraulic system shall have 1 accumulator
	N/A	The Hydraulic system shall have 1 Pump
	N/A	The Hydraulic system shall have 1 relief valve
	N/A	The capacity of the pump shall be lower than 2 gallo...
	N/A	The maximum power consumption of the Rolling Sto...
	N/A	The maximum power consumption of the Auxiliary s...
	N/A	The maximum power consumption of the Braking sy...
	N/A	The maximum power consumption of the cabinet sh...
	N/A	The maximum power consumption of the cabling sh...
	N/A	The maximum power consumption of the car body s...
	N/A	The maximum power consumption of the car body fi...
	N/A	The maximum power consumption of the communic...
	N/A	The maximum power consumption of the coupler sh...

Total items: 55 , Requirements: 55

Hide non-Requirement

RMS Repository: Ontology; Project: CoRS-SyRS_EIRENE_V02. | Save | Close

Reasoning manager

Connected to: 'D:\09 RQS-Libraries\Acquisition Library\v1.0 2017\Library v1.0\Ontology\COMPLETE USE CASE\PQS Railway - Interoperability - Quality.mdb'

ENG 2:43 PM


Q&A

NEXT WEBINAR – The SMARTER way to improve your requirement specifications

- Requirements are, with no doubts, the main source of re-work in both software and systems intensive projects.
- This webinar introduces these sources of problems and misunderstanding, and provides a set of basic tricks and techniques to overcome the problems and provide error-free requirements specifications to properly set the roots of successful projects.
- All these basic aspects of requirements quality will be covered using a default installation of the tools VERIFICATION Studio and the Rich Authoring Tool.

19th of June at 5.00 pm and 21th of June at 9.00 am

Enroll at: https://www.reusecompany.com/webinars

Webinar planner

- **Next Dates:**
  - Tuesday 19th June 2018 at 5.00 pm CET
  - Thursday 21st June 2018 at 9.00 am CET

WEBINAR ID	NAME	DATES	TIME
TRCW-01	Requirements Quality along the supply chain	16/01/2018 18/01/2018	5.00 pm CET 9.00 am CET
TRCW-02	Managing the quality ecosystem: DOORS, Rhapsody, Simulink and Modelica	20/02/2018 22/02/2018	5.00 pm CET 9.00 am CET
TRCW-03	Ontologies Configuration Management	13/03/2018 15/03/2018	5.00 pm CET 9.00 am CET
TRCW-04	Can script based languages, like DXL, hack Natural Language Processing?	10/04/2018 12/04/2018	5.00 pm CET 9.00 am CET
TRCW-05	Procuring systems: PQS for SMARTer acquisition	08/05/2018 09/05/2018	5.00 pm CET 9.00 am CET
TRCW-06	The SMARTER way to improve your requirement specifications	19/06/2018 21/06/2018	5.00 pm CET 9.00 am CET
TRCW-07	Knowledge and Quality management milestones in a SE organization	11/09/2018 13/09/2018	5.00 pm CET 9.00 am CET
TRCW-08	Automatic checking of quality metrics for logical and physical models	16/10/2018 18/10/2018	5.00 pm CET 9.00 am CET
TRCW-09	Following standards patterns in KCSE: An application to EARS patterns in RAT and SKM	03/07/2018 05/07/2018	5.00 pm CET 9.00 am CET
TRCW-10	Tracing system work products: T+ Manager	06/11/2018 08/11/2018	5.00 pm CET 9.00 am CET
TRCW-11	Defining your own quality rules in KCSE: A one-hour practical approach	11/12/2018 13/12/2018	5.00 pm CET 9.00 am CET
TRCW-12	The KCSE approach in a nutshell	15/01/2019 17/01/2019	5.00 pm CET 9.00 am CET
TRCW-13	Requirements Transformations	12/02/2019 14/02/2019	5.00 pm CET 9.00 am CET

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