The Webianar has started..

- Webinar rules:
  - You'll be muted all along the Webinar
  - There's a chatting box to ask your questions or send your comments when you want
  - Please address these comments and questions to the user "The REUSE Company" and not to the presenter directly
  - If you have any technical issue, please use this chatting 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

Requirements Authoring Tool **RAT** for **Capella**

- The perfect way for working with both Models and Textual Requirements

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The REUSE Company
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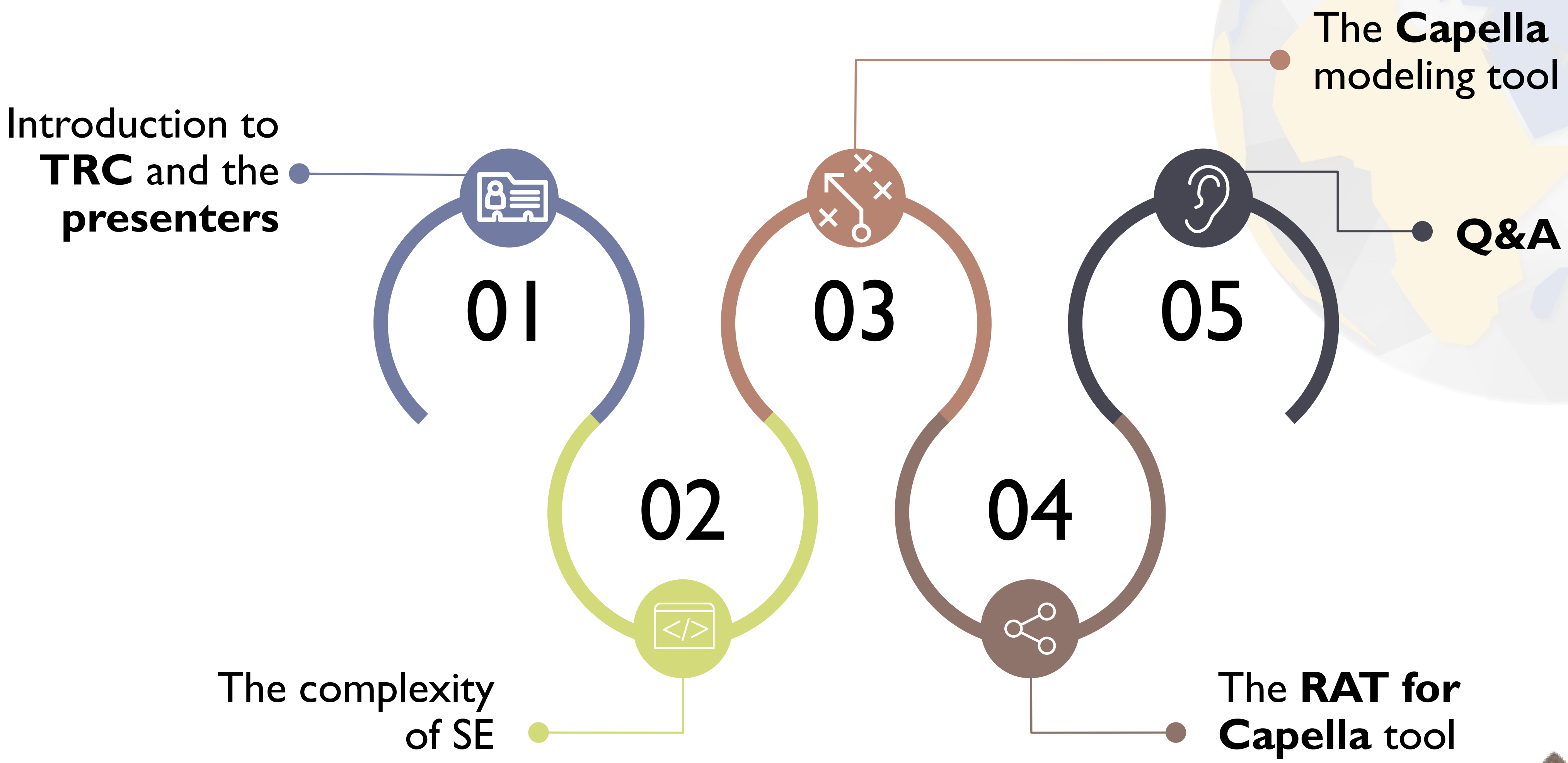
THE REUSE COMPANY

Contents



Introduction to **TRC** and the **presenters**

The complexity of SE

The **Capella** modeling tool

The **RAT for Capella** tool

Q&A

Introduction to

TRC and the presenters

WHEN

WHO

WHERE

WHY

01 The company was established in **1999**

As a spin-off of a University in Madrid

02 **System + Software Engineers**

Smart combination between Company staff and R&D from Academia

03 **Headquarters:**
Madrid (Spain)

International offices:
Stockholm (Sweden)
Tokyo (Japan) Delegation

2021:
USA
Chicago/Detroit/Miami

04 To promote a **reusable**, **scalable** and global solution to a **smart** and **interoperable** Systems Engineering environment, by offering a **semantic knowledge centric** approach.

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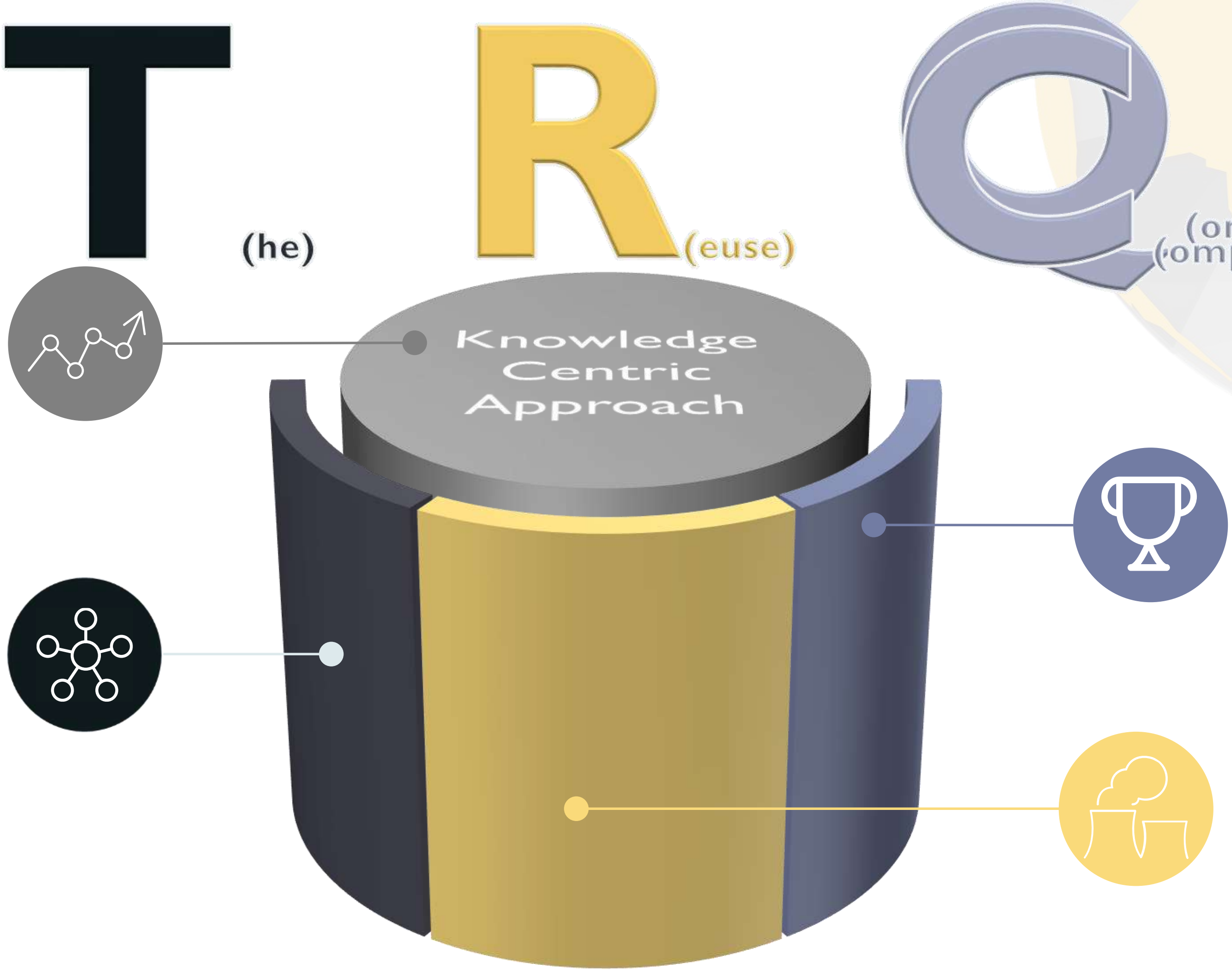

Knowledge Centric Systems Engineering (KCSE)

Global Repositories –
Archiving –
Configuration Management –

TRACEABILITY

Interoperability and links –
Change impact –
SMART identification of missing traces –
Flexible reporting –

QUALITY (ies)

- Quality Management
- Automatic static quality assessments
- Verification & Validation management
- Risks Management
- Smart Authoring

REUSABILITY

- Interoperability
- Retrieval & Archiving
- Adaptability to Existing Toolsets

The Presenter

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https://www.linkedin.com/in/christerfroling/

Christer Fröling is a Swedish citizen acting in the role of the **CEO for Reuse Company Scandinavia**. He has over **two decade of experience in** successful implementation of **Systems Engineering (SE)** and its sub-disciplines in a variety of roles and technical domains.

He has **experience** from both **developing advanced technical systems** as well as **helping public organizations** in the specification and **procurement** of complex infrastructure projects.

Christer specializes as a **principal consultant in applying SE and "design thinking"** into organizations willing to adopt change and implement a **knowledge driven** and **Lean SE approach** focusing on information quality, knowledge buildup and reuse with a passion of coaching others.

He is an **appreciated lecturer**, **teacher** and a strong **believer in knowledge sharing** and networking.

Complexity of Systems Engineering

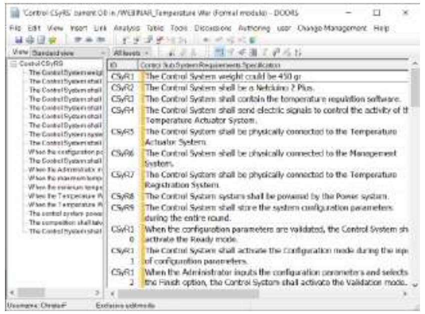
Why matching text with models?

*“It’s hard to imagine a world without **text**. A picture may well be worth a thousand words, but it’s likely a different thousand words for each of us. Text gives our ideas a precision that we can rarely approach with images alone.”*

Need model

helps formalize and consolidate customer and system requirements

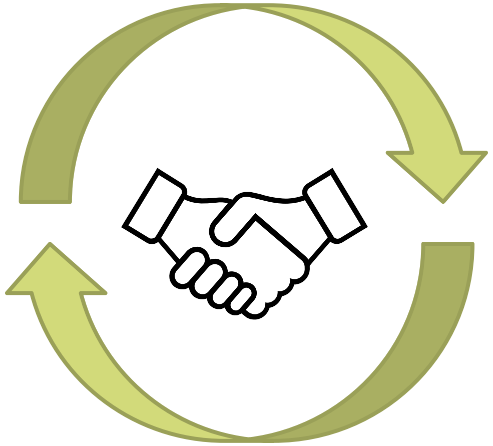
*“Our brain is hard-wired to process the world in a **visual form**. It’s part of our ‘native OS’. For at least 40,000 years, humans have been transferring information from one person to another with the help of images, pictograms and graphic symbols.”*


'Control CSyRS' current 0.0 in /WEBINAR_Temperature War (Formal module) - DOORS
File Edit View Insert Link Analysis Table Tools Discussions Authoring user Change Management Help
View: Standard view
All levels
Control CSyRS
Username: ChristaF
Exclusive edit mode

ID	Control Sub System Requirements Specification
CSyR1	The Control System weight could be 450 gr
CSyR2	The Control System shall be a Netduino 2 Plus.
CSyR3	The Control System shall contain the temperature regulation software.
CSyR4	The Control System shall send electric signals to control the activity of th Temperature Actuator System.
CSyR5	The Control System shall be physically connected to the Temperature Actuator System.
CSyR6	The Control System shall be physically connected to the Management System.
CSyR7	The Control System shall be physically connected to the Temperature Registration System.
CSyR8	The Control System system shall be powered by the Power system.
CSyR9	The Control System shall store the system configuration parameters during the entire round.
CSyR10	When the configuration parameters are validated, the Control System sh activate the Ready mode.
CSyR11	The Control System shall activate the Configuration mode during the inp of configuration parameters.
CSyR12	When the Administrator inputs the configuration parameters and selects the Finish option, the Control System shall activate the Validation mode.

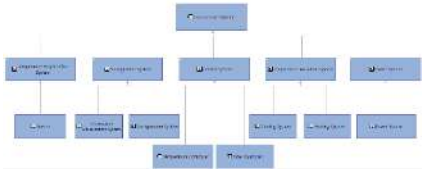
Textual requirements

are at the heart of the current engineering practices

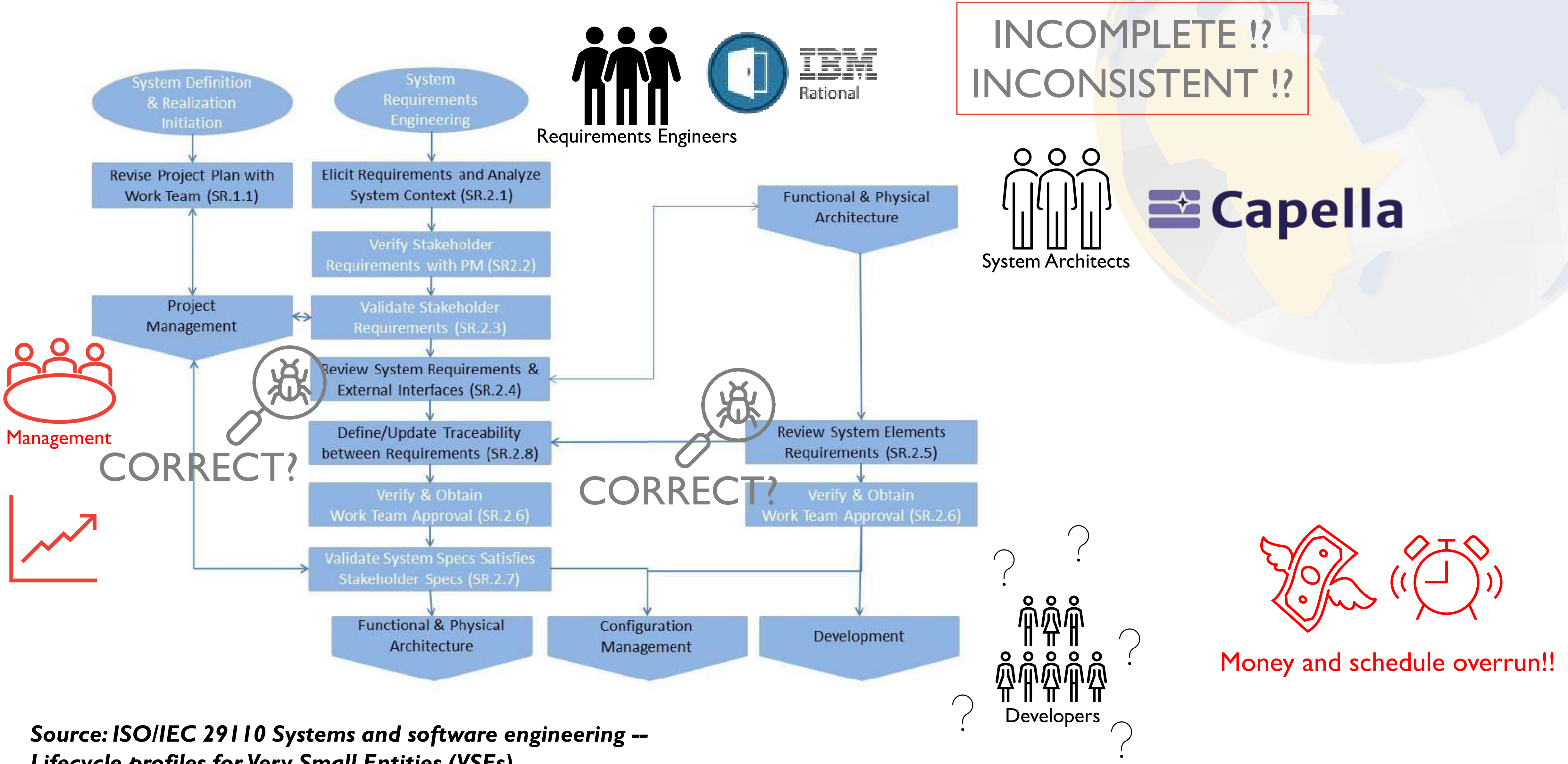


Solution model

helps validate feasibility, elicit/justify new requirements for the system/subsystems



The need for recursive engineering: TEAM COMMUNICATION



System Definition & Realization Initiation

Revise Project Plan with Work Team (SR.1.1)

Project Management

System Requirements Engineering

Elicit Requirements and Analyze System Context (SR.2.1)

Verify Stakeholder Requirements with PM (SR2.2)

Validate Stakeholder Requirements (SR.2.3)

Review System Requirements & External Interfaces (SR.2.4)

Define/Update Traceability between Requirements (SR.2.8)

Verify & Obtain Work Team Approval (SR.2.6)

Validate System Specs Satisfies Stakeholder Specs (SR.2.7)

Functional & Physical Architecture

Review System Elements Requirements (SR.2.5)

Verify & Obtain Work Team Approval (SR.2.6)

Functional & Physical Architecture

Configuration Management

Development

CORRECT?

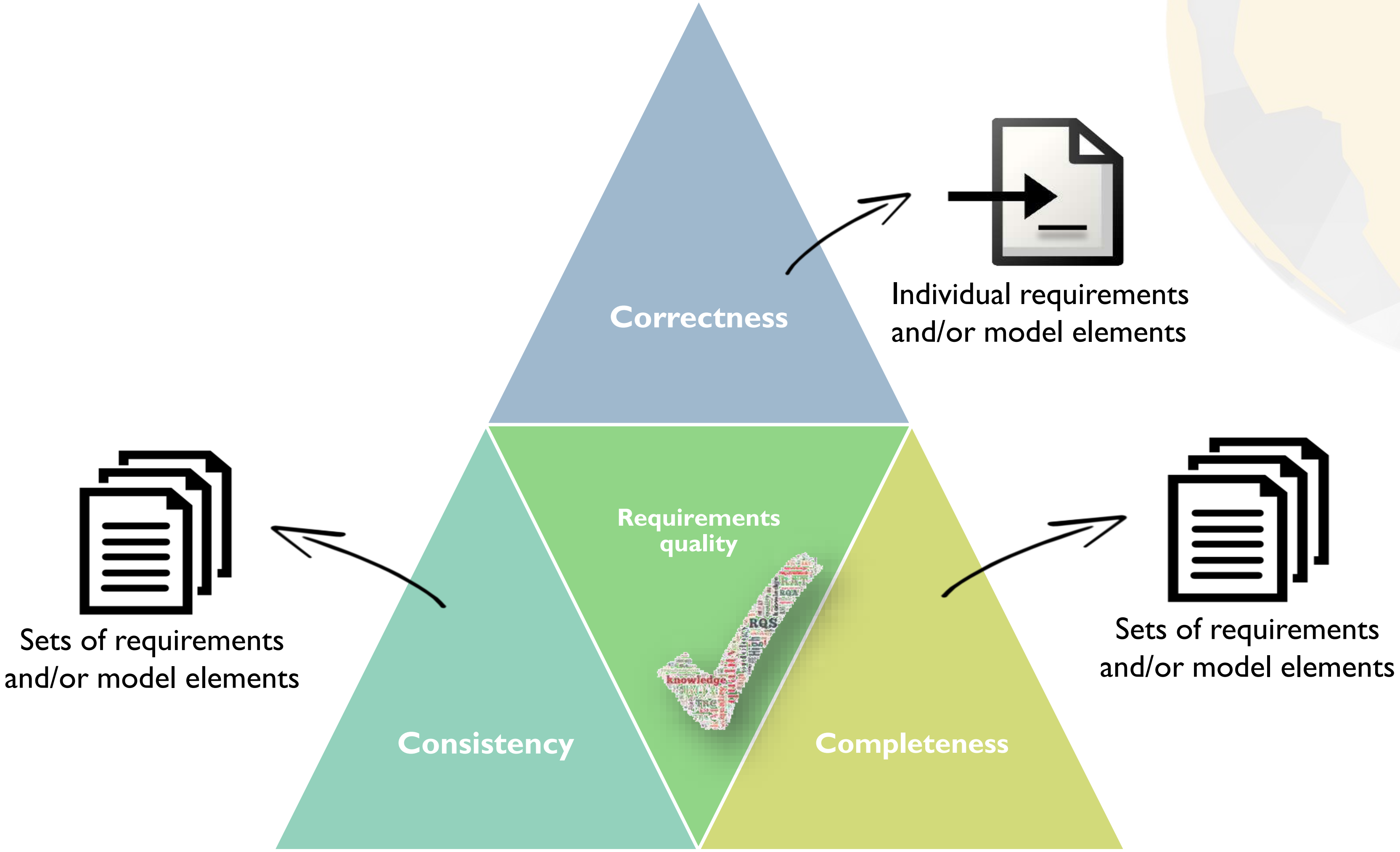
CORRECT?

INCOMPLETE !?
INCONSISTENT !?

Money and schedule overrun!!

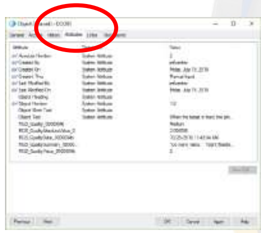
Source: ISO/IEC 29110 Systems and software engineering -- Lifecycle profiles for Very Small Entities (VSEs)

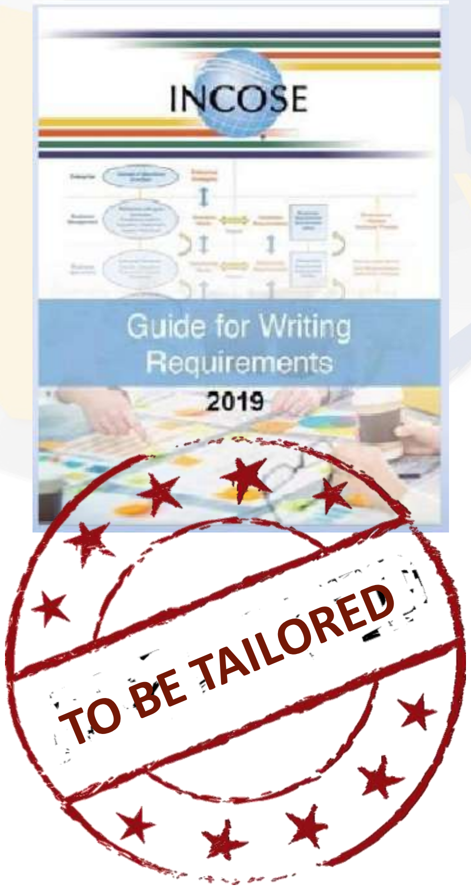
CCC – Correctness, Consistency and Completeness

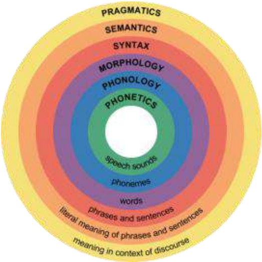

Correctness
Individual requirements and/or model elements
Requirements quality
Consistency
Sets of requirements and/or model elements
Completeness
Sets of requirements and/or model elements

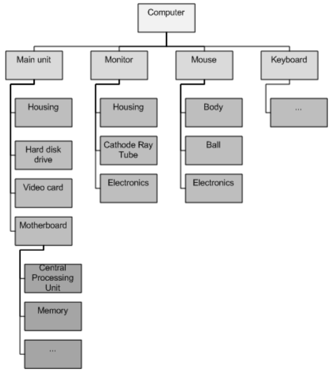
Real-time quality analysis: **Correctness**

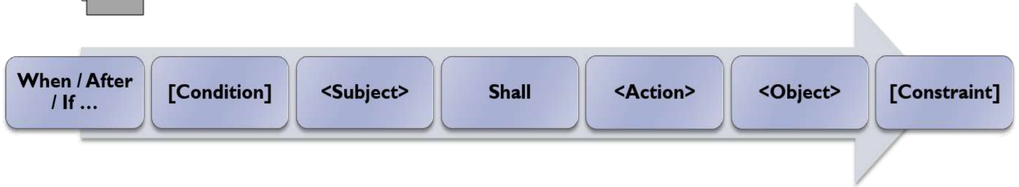
- **Metrics based on information coming from the RMS:**
  - Attributes, links, versions…
- **Metrics based on lists of terms:**
  - Forbidden: ambiguous, pronouns…
  - Restricted: negations…
  - Mandatory: 'shall', 'will', 'should'…
- **Metrics based on linguistic algorithms:**
  - Text length, misspelling, readability….
  - Detection of passive voice, imperative tense…
- **Metrics based on the conformance with models:**
  - Concepts in your requirements coming from PBS, FBS…
- **Metrics based on patterns:**
  - Compliance with different types of requirements patterns
  - Detection of specific structures within the requirements





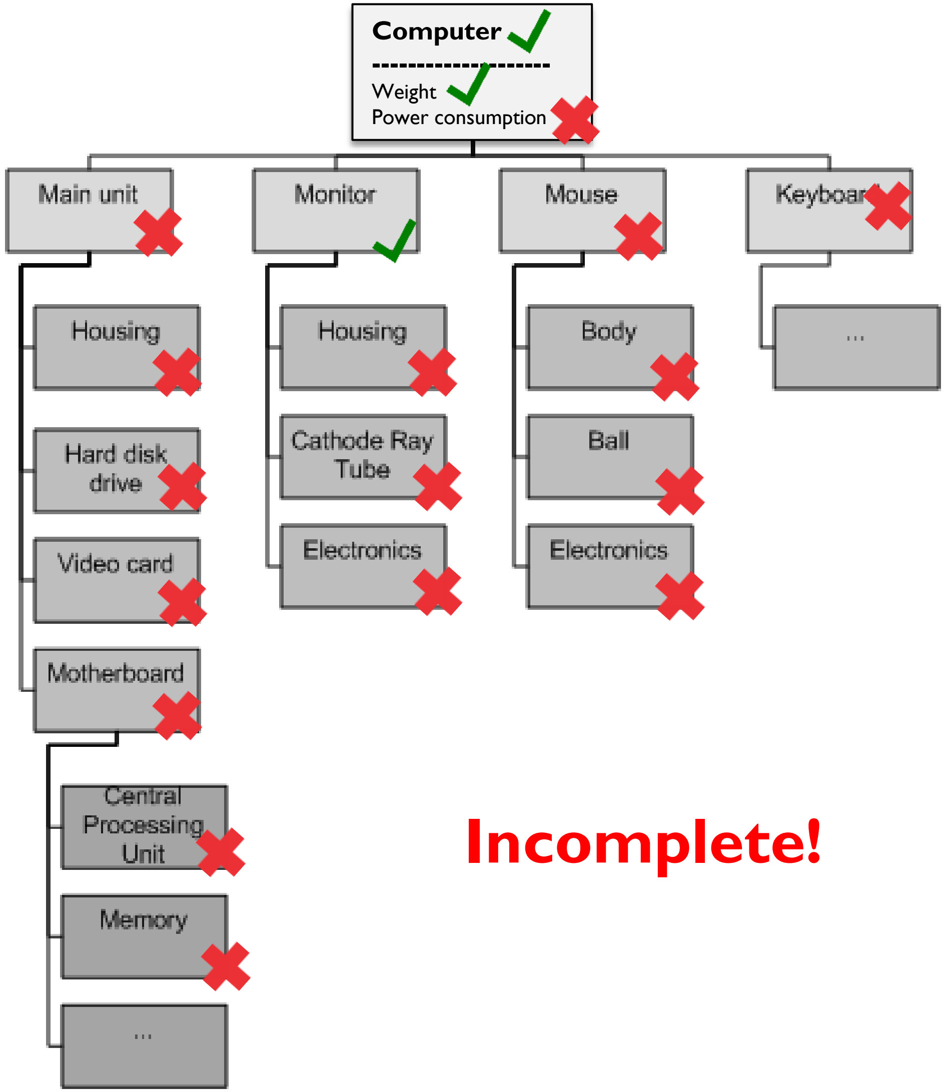




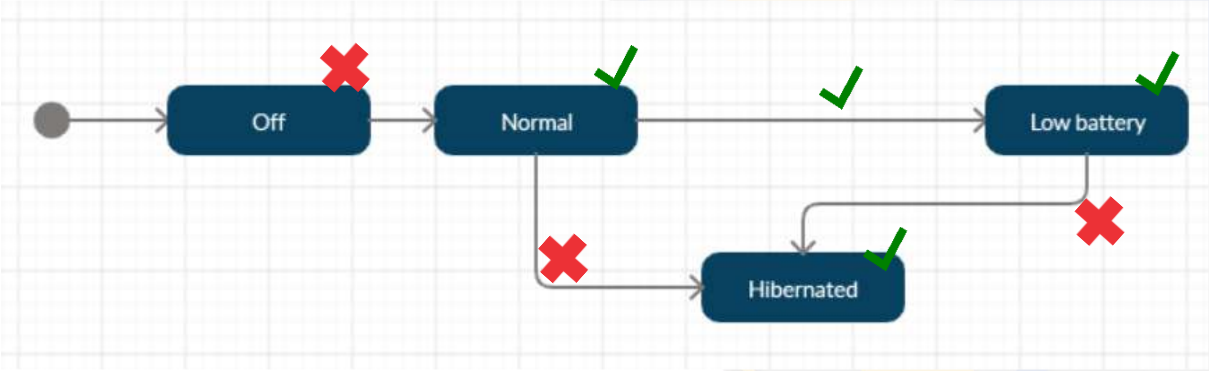


When / After / If …
[Condition]
<Subject>
Shall
<Action>
<Object>
[Constraint]

Real-time quality analysis: **Completeness**



Incomplete!



The computer shall have 2 monitors.

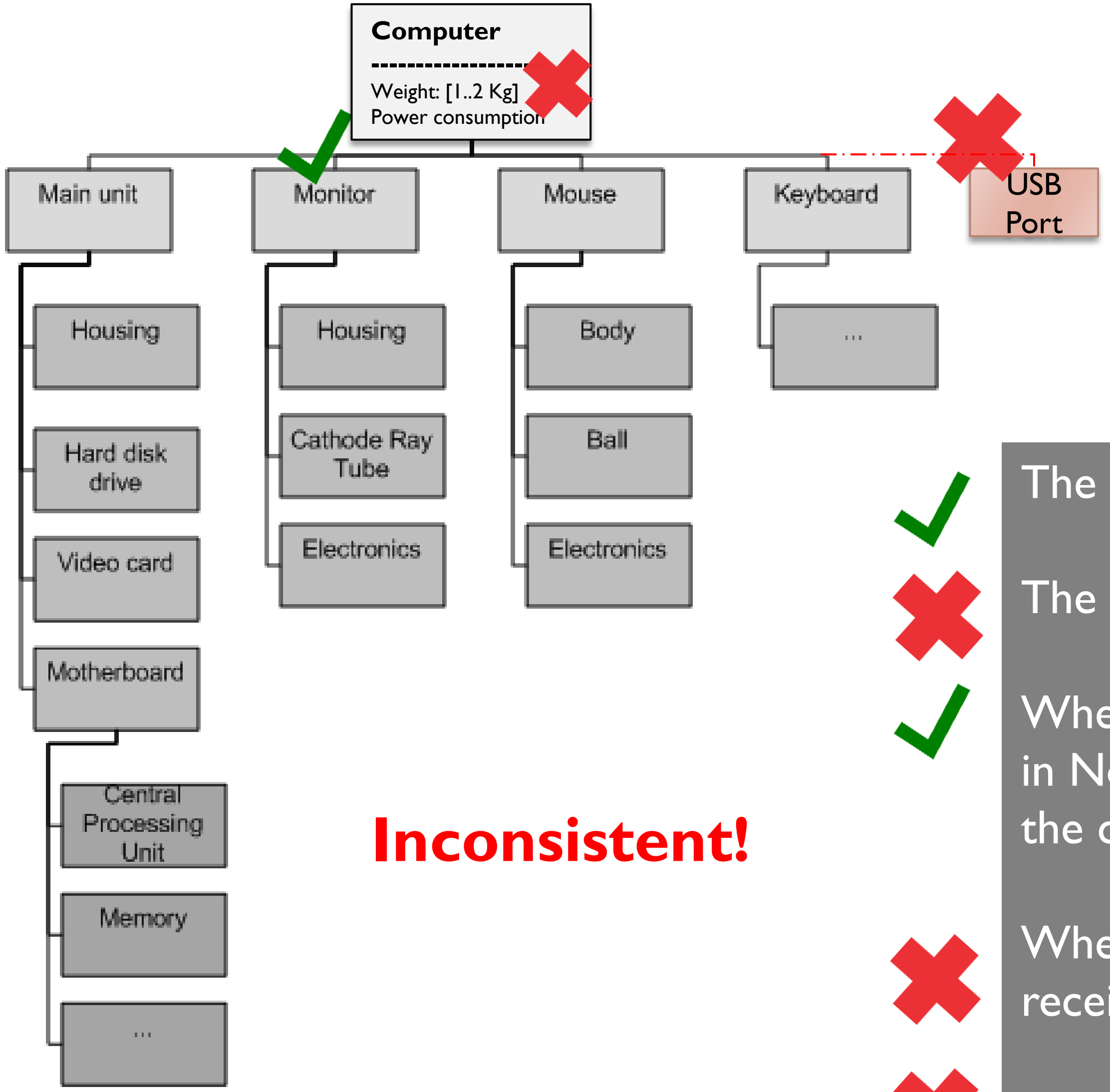
The computer shall have 2 USB ports.

When the Computer is not plugged in, and the computer is in Normal mode and the level of battery drops below 10%, the computer shall transit to Low battery state.

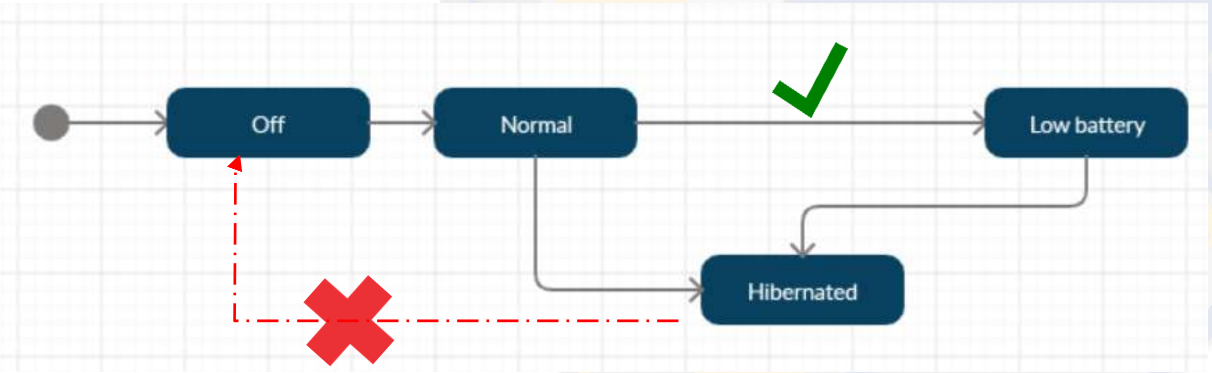
When the Computer is in Hibernated state, the monitor shall turn black.

The weight of the computer shall be 1.2 kg +- 10%

Real-time quality analysis: **Consistency**



Inconsistent!



✓ The computer shall have 2 monitors

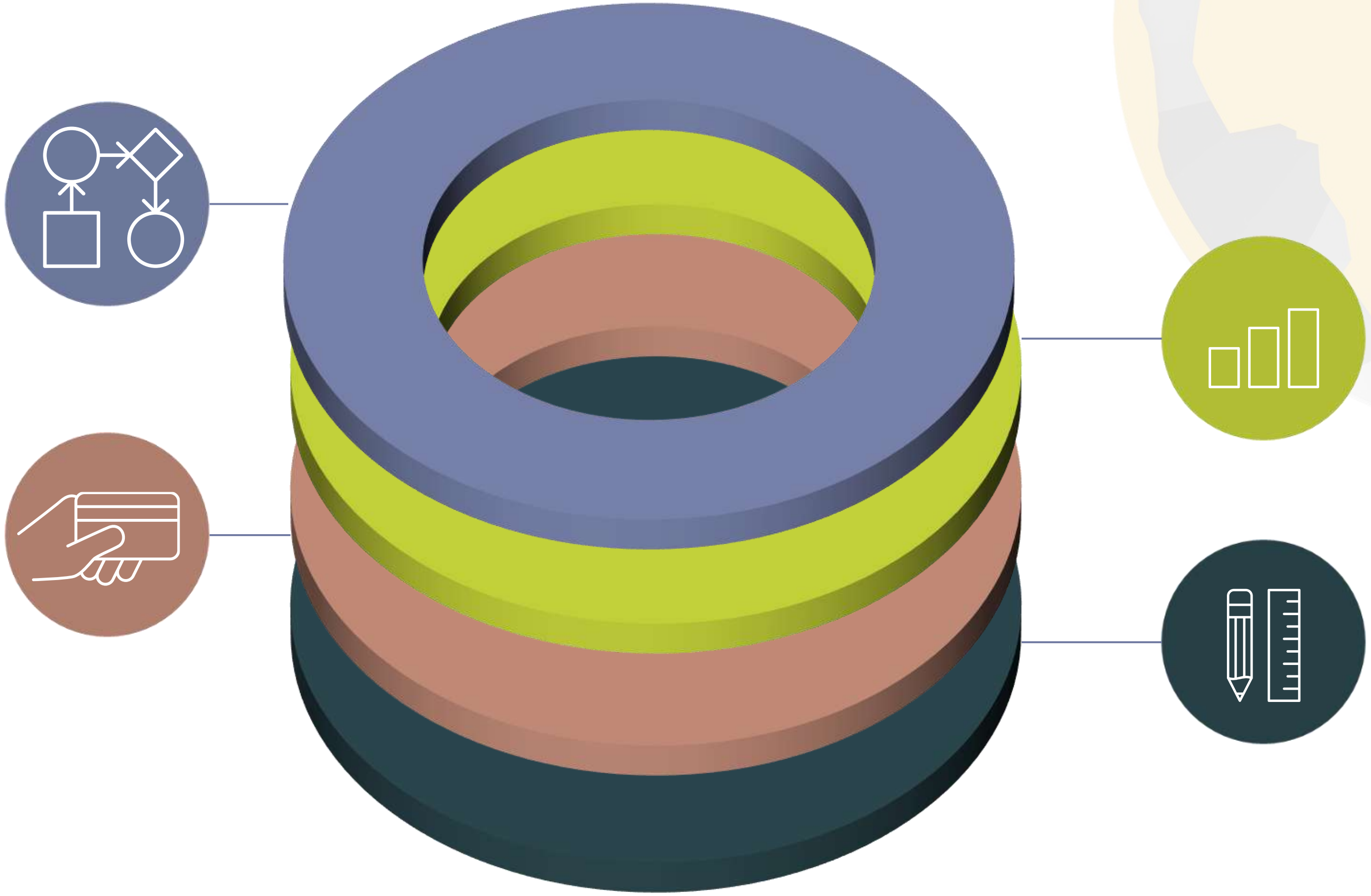
✗ The computer shall have 2 USB ports

✓ When the Computer is not plugged in, and the computer is in Normal mode and the level of battery drops below 10%, the computer shall transit to Low battery state

✗ When the Computer is in Hibernated state and EventX is received, the computer shall transit to Off mode

✗ The weight of the computer shall be 3.5 kg +- 10%

Real-time quality analysis: **Consistency**



Requirements-models Consistency
e.g. allocation of properties

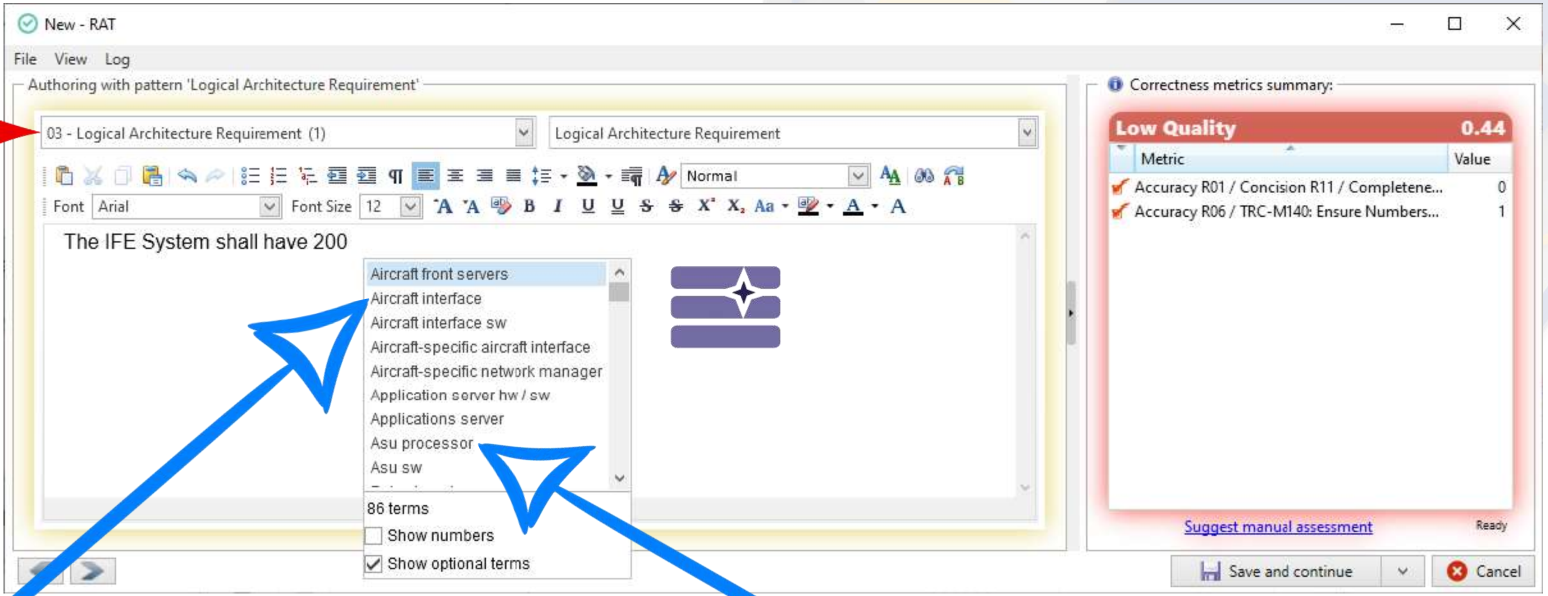
Naming consistency
Among models elements and elements in textual requirements

Consistency Among requirements:
e.g. overlapping

Pattern-based writing

Pattern-based writing
Knowledge-based
Consistency checking
Quality checking
More accesible
Requiriments roundtrip

Real-time quality analysis: **Patterns**



New - RAT

File View Log

Authoring with pattern 'Logical Architecture Requirement'

03 - Logical Architecture Requirement (1) | Logical Architecture Requirement

Font: Arial | Font Size: 12 | Normal

The IFE System shall have 200

- Aircraft front servers
- Aircraft interface
- Aircraft interface sw
- Aircraft-specific aircraft interface
- Aircraft-specific network manager
- Application server hw / sw
- Applications server
- Asu processor
- Asu sw

86 terms

☐ Show numbers

☑ Show optional terms

Correctness metrics summary:

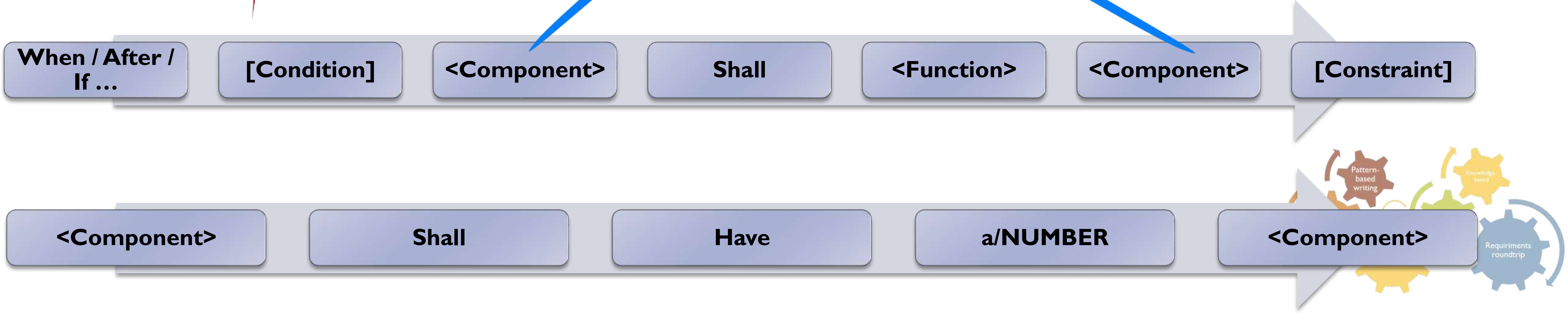
Low Quality 0.44

Metric	Value
Accuracy R01 / Concision R11 / Completene...	0
Accuracy R06 / TRC-M140: Ensure Numbers...	1

Suggest manual assessment

Ready

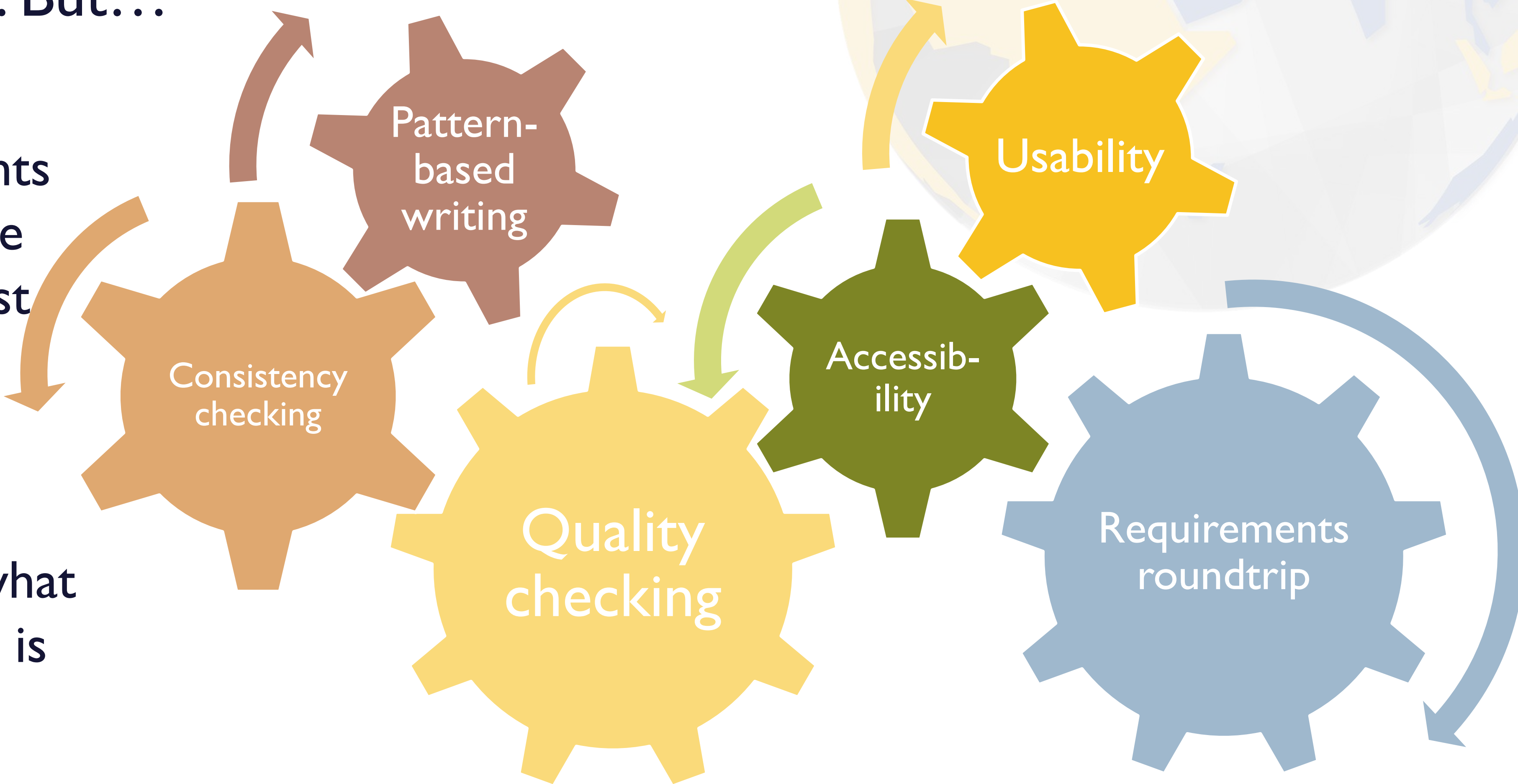
Save and continue | Cancel



When / After / If …
[Condition]
<Component>
Shall
<Function>
<Component>
[Constraint]

<Component>
Shall
Have
a/NUMBER
<Component>

- OK, I understand. But…
- … the connection between requirements and models has to be consistent and robust
- Quality must be guaranteed at both sides, right?
- We need to know what and where the truth is kept.



The

Capella modeling tool

What is Capella

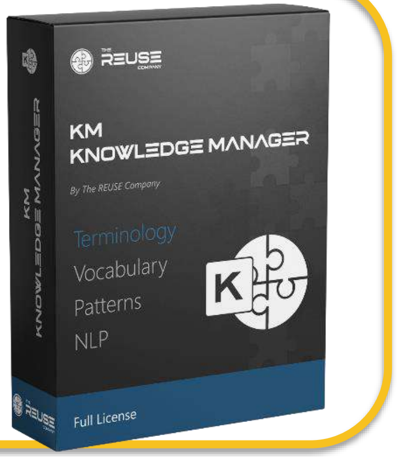
- Open-Source solution for Model-based Systems Engineering
- Comprehensive, extensible and field-proven MBSE tool and method to successfully design systems architecture
- Main characteristics:
  - Understand the customer need
  - Define and share the solution
  - Ensure engineering-wide collaboration
  - Early evaluate and justify architectural choices
  - Prepare and master V&V
- +info: https://www.eclipse.org/capella/

Main capabilities of

RAT for Capella

Knowledge Management

Capture, creation, **representation**, and **exchange of knowledge** across targeted groups of **stakeholders**

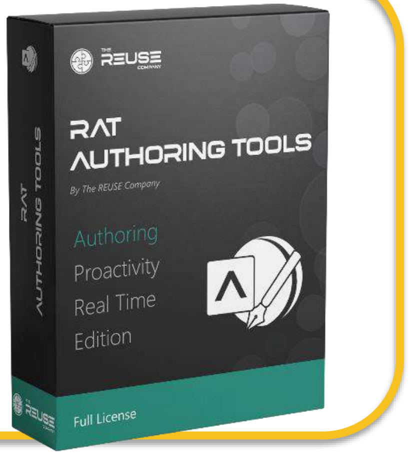


Traceability

Support the **integration** among assets through semantic **interoperability** to discover and keep the **traces** among related elements

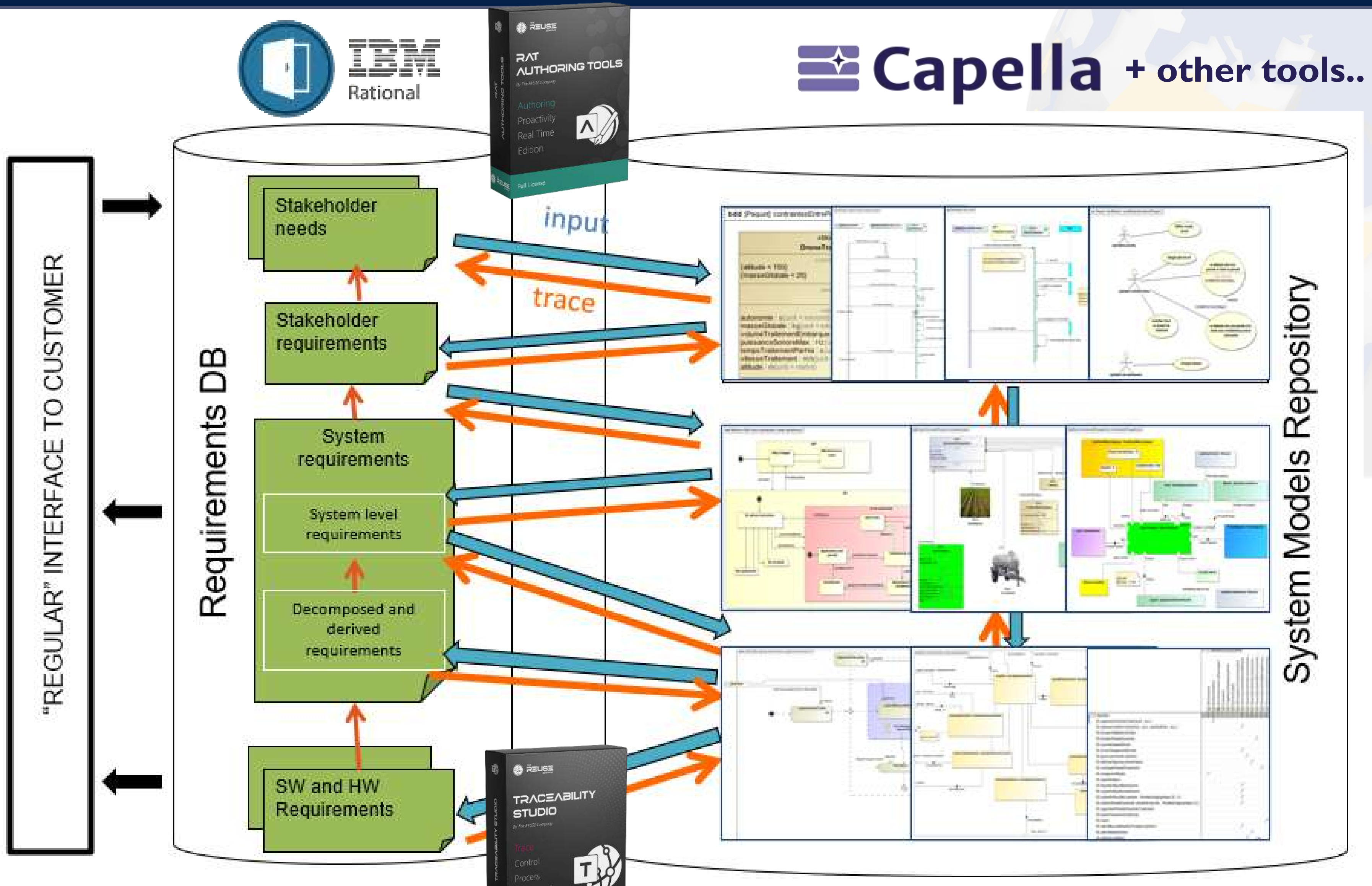
Authoring

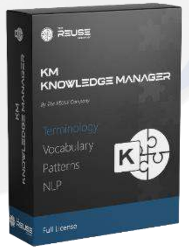
Definition of requirements and other textual engineering assets based on **real-time analysis** (NLP), **writing assistance**, **data extraction**..



Quality Management

Define, implement and perform **measures** to meet the **quality priorities** that satisfy the **verification** of any engineering element





WEBINAR on YouTube: https://youtu.be/WQAslzsYDV8

Source: www.samares-engineering.com

RAT for Capella : Main Features

Connections

Connection to data sources

- Connection to multiple types of MBSE and RM tool sources
- Extract's information to be imported to the Ontology (KM)

Click Here

Editing

Requirements Editing

- In line writing assistance
- Pattern based for correct and complete requirements syntax
- Easy to adapt a personal window setting

Click Here

Quality

Knowledge Based

- Uses an Ontology (KM)
- SMART quality rules for Correctness, Completeness and Consistency checking.
- Ensure naming consistency between the model elements and the textual requirements

Click Here

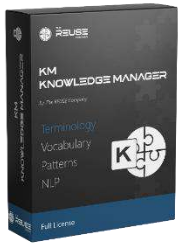
Synchronization

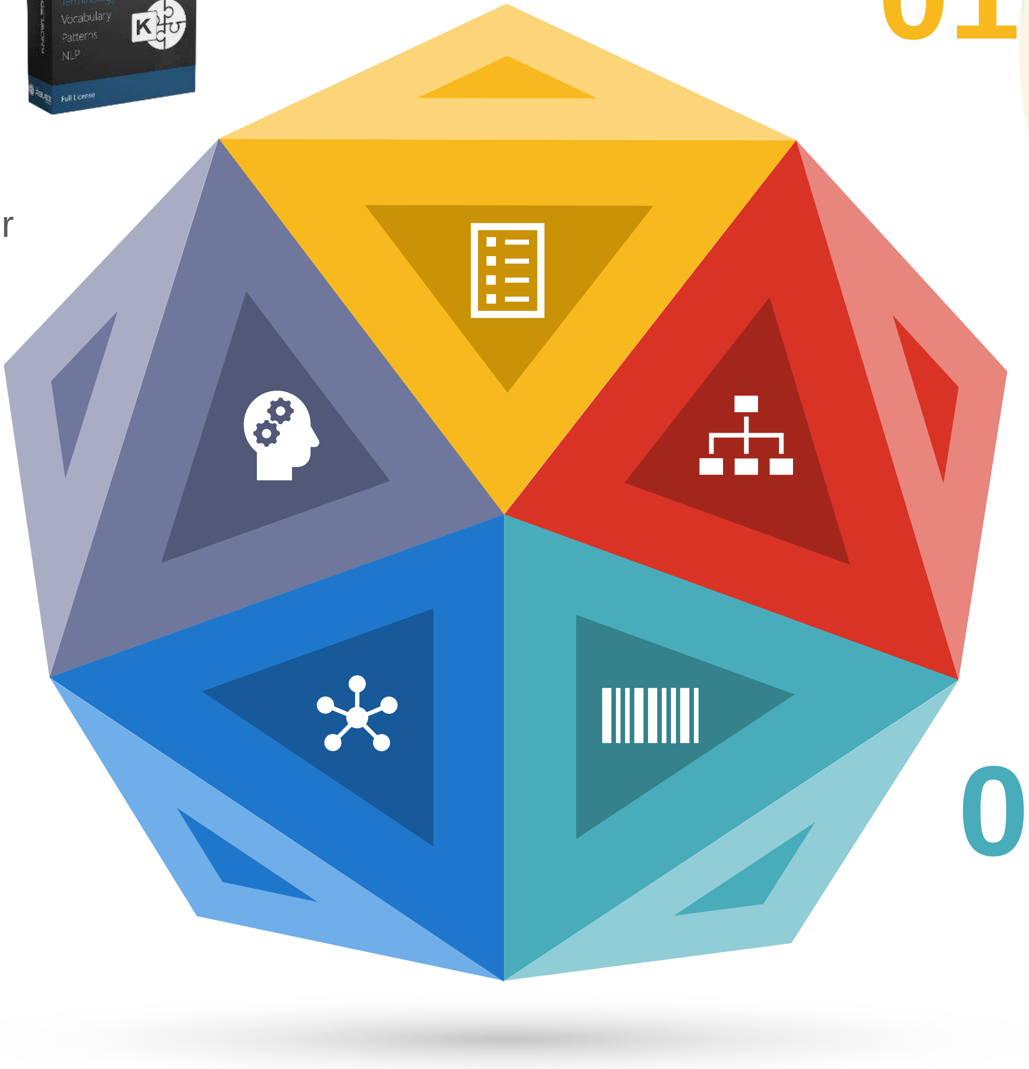
Data management

- Provide a complete round-trip between textual requirements in Requirement Management Systems and models
- Enables synchronization of different data sources

Click Here

The Knowledge manager (KM)





01 Vocabulary

Controlled Organizational and Project Vocabulary for a common understanding among stakeholders

02 SCM/Architectures

Recreate and capture the system architectures represented in views and models. Stablish relationships among system and system elements

03 Patterns

Represent requirements similarities and enable formal representation, automatic recognition and aid authors

04 Formalization

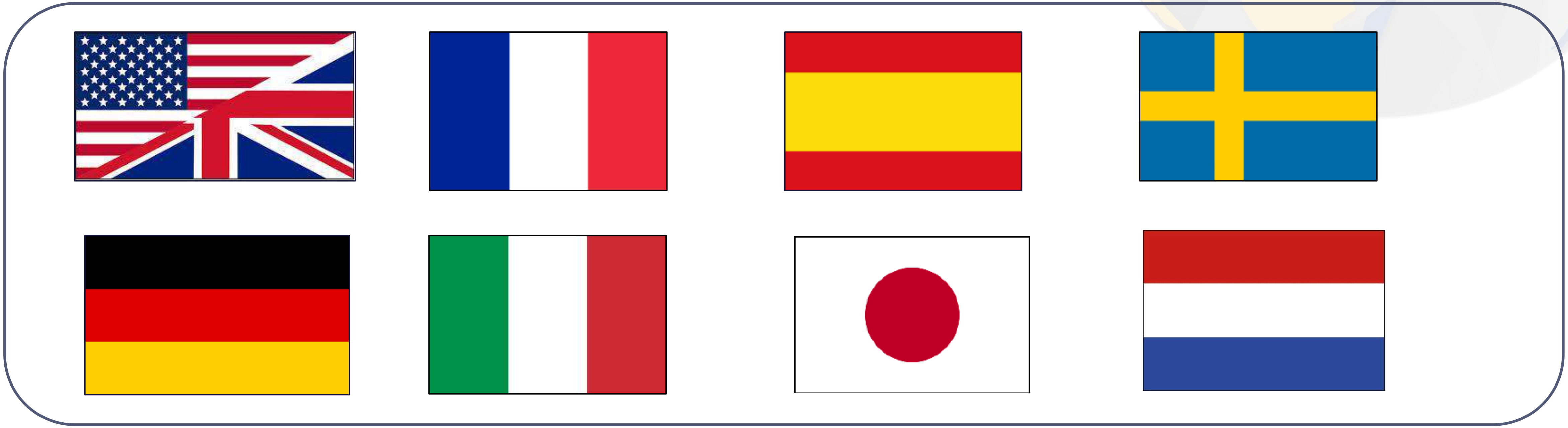
Representation of assets semantic through SRL – System Representation Language

05 Reasoning

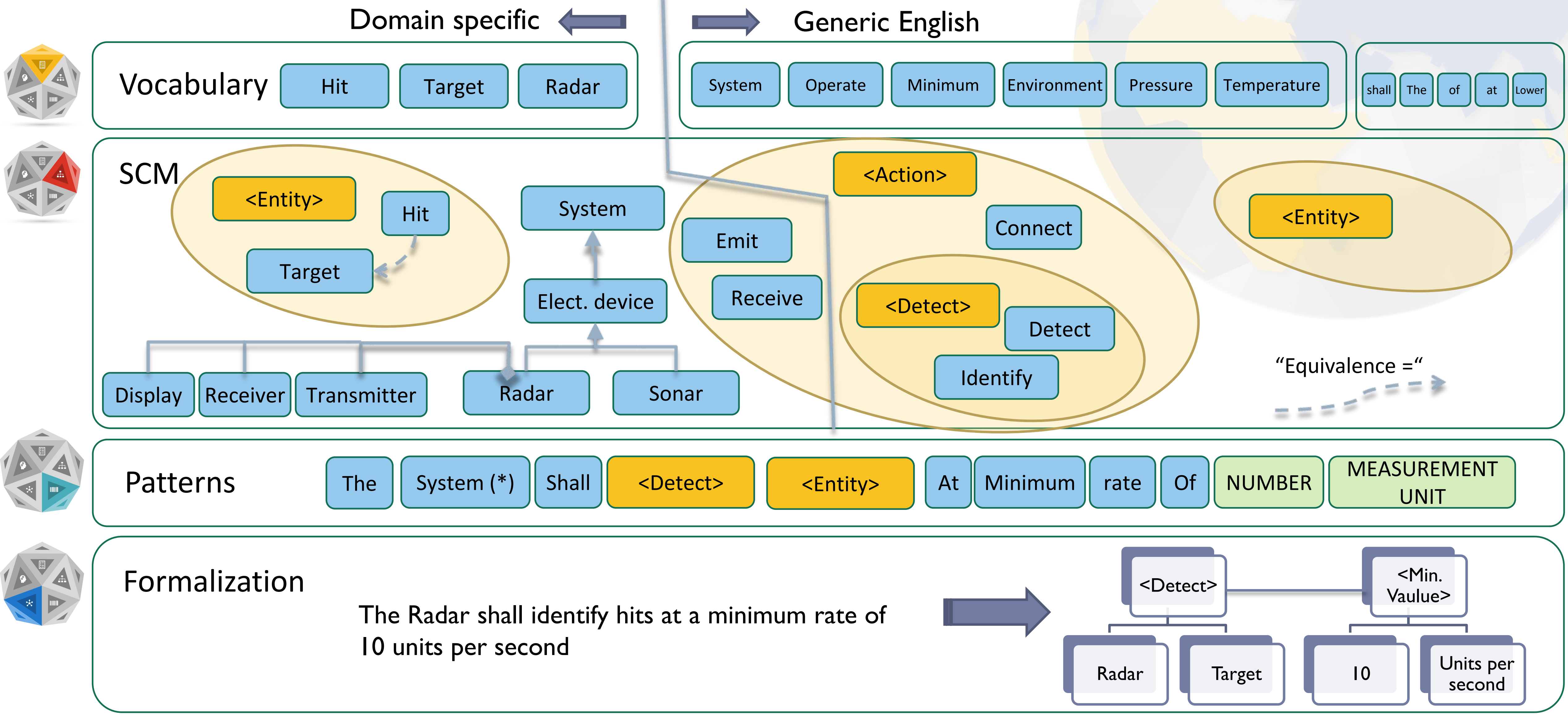
A combination of rules, tasks and groups to infer information from valuable assets

The TRC Quality Suite: supported languages

- The TRC SES Suite is highly dependent of the language of the requirements
- Languages supported so far:



Main features: semantic approach



Domain specific

Generic English

Vocabulary

Hit | Target | Radar

System | Operate | Minimum | Environment | Pressure | Temperature

shall | The | of | at | Lower

SCM

Patterns

The | System (*) | Shall | <Detect> | <Entity> | At | Minimum | rate | Of | NUMBER | MEASUREMENT UNIT

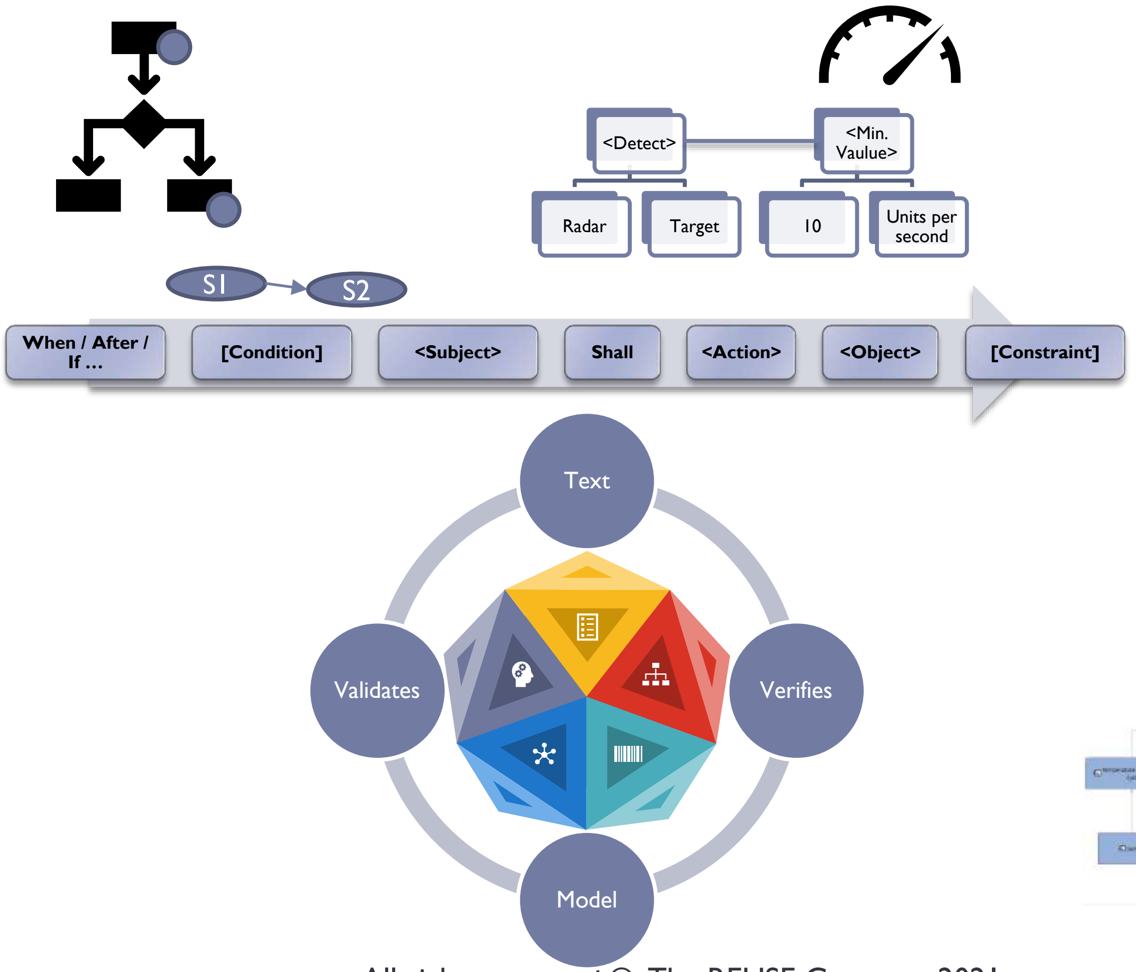
Formalization

The Radar shall identify hits at a minimum rate of 10 units per second

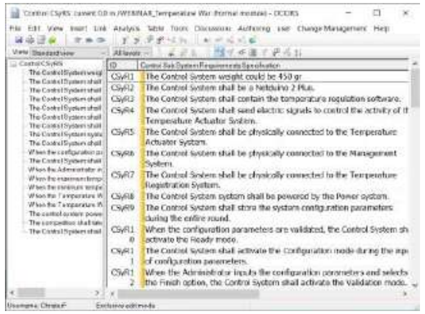
Main features: semantic approach

Reasoning layer: Ensure **CONSISTENCY** & **COMPLETENESS**

Requirements



Model



Control: CSyRS current 0.0 in /WEBINAR_Temperature War (formal module) - DOORS
File Edit View Insert Link Analysis Table Tools Discussion Authoring User Change Management Help
View Standard view
All levels
Control CSyRS
Username: ChristieF
Exclusive edit mode

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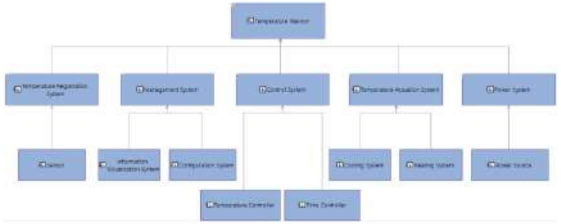
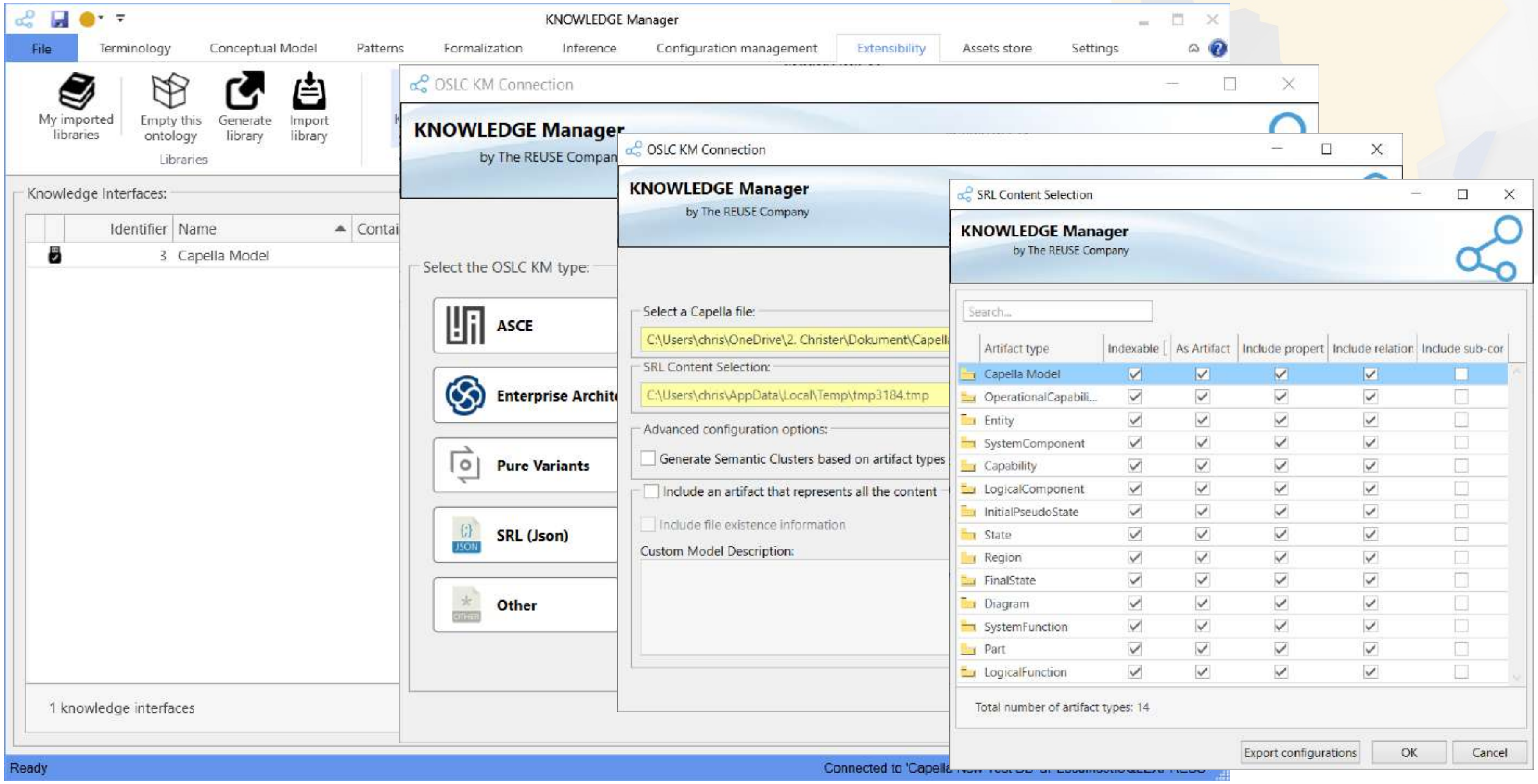


Setting up the knowledge interface to Capella



Knowledge Interfaces:

Identifier	Name	Contai
3	Capella Model	

1 knowledge interfaces

Ready

Connected to 'Capella

OSLC KM Connection

KNOWLEDGE Manager by The REUSE Compan

Select the OSLC KM type:

OSLC KM Connection

KNOWLEDGE Manager by The REUSE Company

Select a Capella file: C:\Users\chris\OneDrive\2. Christer\Dokument\Capell

SRL Content Selection: C:\Users\chris\AppData\Local\Temp\tmp3184.tmp

Advanced configuration options:

- ☐ Generate Semantic Clusters based on artifact types
- ☐ Include an artifact that represents all the content
- ☐ Include file existence information

Custom Model Description:

SRL Content Selection

KNOWLEDGE Manager by The REUSE Company

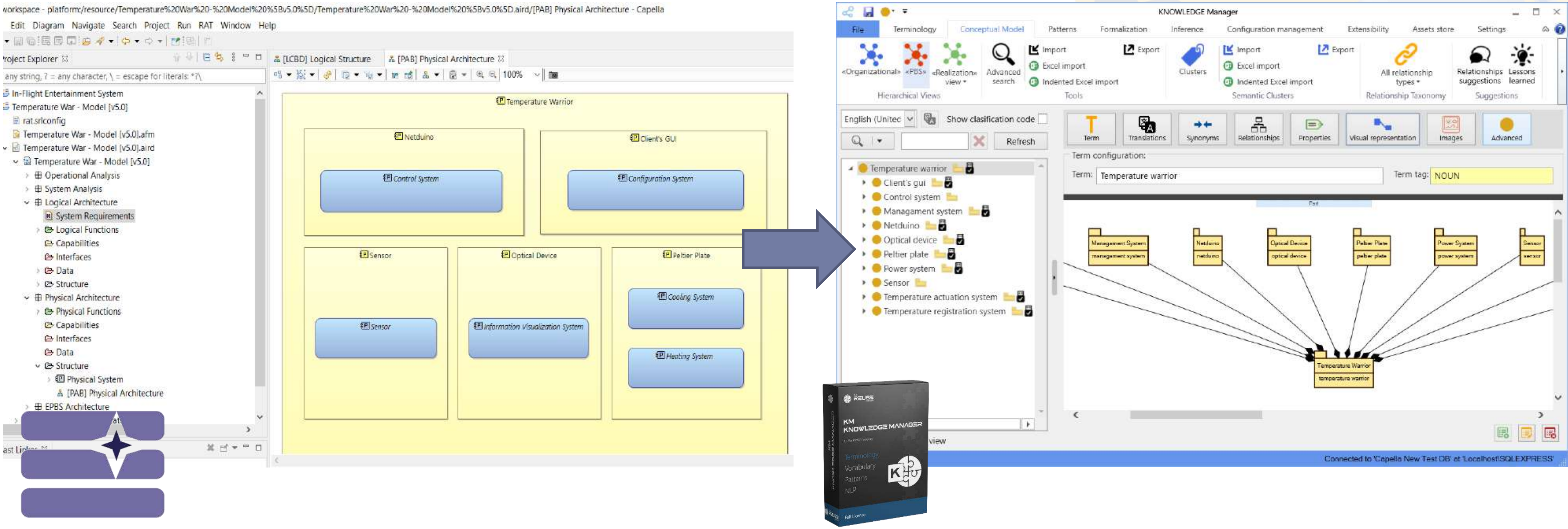
Search...

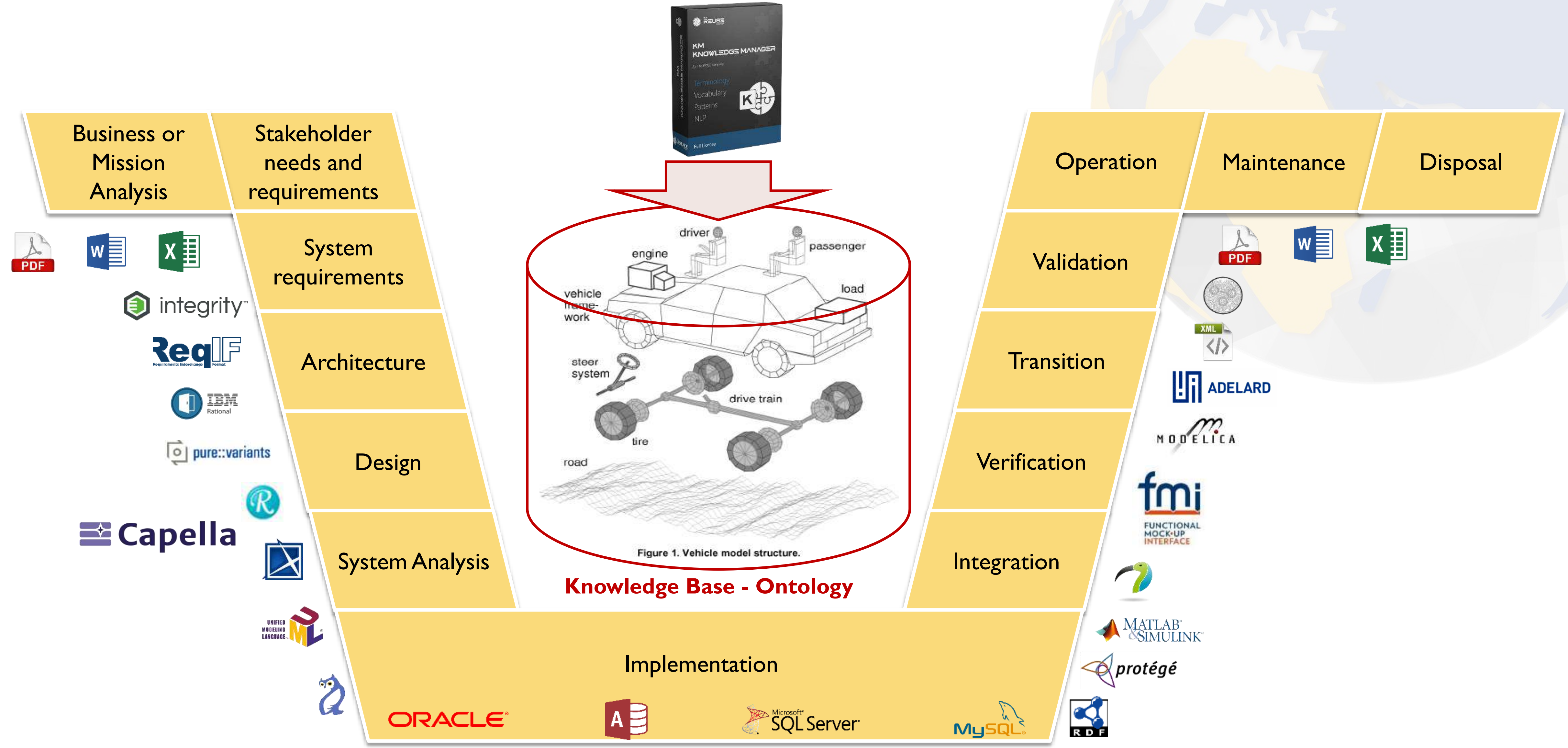
Artifact type	Indexable	As Artifact	Include propert	Include relation	Include sub-cor
Capella Model	☑	☑	☑	☑	☐
OperationalCapabili...	☑	☑	☑	☑	☐
Entity	☑	☑	☑	☑	☐
SystemComponent	☑	☑	☑	☑	☐
Capability	☑	☑	☑	☑	☐
LogicalComponent	☑	☑	☑	☑	☐
InitialPseudoState	☑	☑	☑	☑	☐
State	☑	☑	☑	☑	☐
Region	☑	☑	☑	☑	☐
FinalState	☑	☑	☑	☑	☐
Diagram	☑	☑	☑	☑	☐
SystemFunction	☑	☑	☑	☑	☐
Part	☑	☑	☑	☑	☐
LogicalFunction	☑	☑	☑	☑	☐

Total number of artifact types: 14

- **Master** in Capella
  - Stores the PBS/FBS/BDD, Actors, Subjects, Modes/States…

- **”Slave”** in Knowledge Manager
  - Updated every time you reload KM





Business or Mission Analysis

Stakeholder needs and requirements

System requirements

Architecture

Design

System Analysis

Implementation

Integration

Verification

Transition

Validation

Operation

Maintenance

Disposal

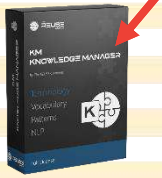
Figure 1. Vehicle model structure.

Knowledge Base - Ontology

Main features: connection to data sources

Synchronisation

		THE REUSE COMPANY Capabilities	Requirements Tools									Modeling Tools										Others		
			DOORS	DNG	PTC ILM	VISURE	Teamcenter	Excel	Reqif	Reqtify	3DX	Capella	Rhapsody	Cameo	EA	Simulink	XMI	Papyrus	ASCE	FMI/FMU	Pure Variants	OWL	Word	XML
Req. Analysis	Quality assessment	Analyze the quality of requirements (RQA)	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓		✓	✓	✓					✓
		Filter by views	✓	✓																				
		Filter by artifact type		✓																				
		Assessment by baseline		✓																				
		Store quality results back in the tool	✓	✓	✓	✓		✓																
		CCC with RQA	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓		✓	✓	✓					✓
	Requirements Authoring	RAT.exe. Correctness	✓	✓	✓	✓		✓	✓	✓			✓											
		RAT.exe. CCC	✓	✓	✓	✓		✓	✓	✓														
		RAT.exe. Pattern-based authoring	✓	✓	✓	✓		✓	✓	✓														
		RAT Plug-in. Correctness	✓	✓	✓	✓	✓	✓			✓	✓	✓										✓	
		RAT Plug-in. CCC	✓		✓							✓												
		RAT Plug-in. Pattern-based authoring	✓		✓			✓				✓	✓										✓	
Contents		Capture vocabulary						✓				✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		
	Logical Models	Extract info from class/block diagrams											✓	✓	✓		✓	✓						
		Classes and Interfaces										✓	✓	✓	✓		✓	✓						
		Extract properties						✓					✓	✓	✓		✓	✓						
		Extract relations: hierarchical, aggregation						✓				✓	✓	✓	✓	✓	✓	✓	✓			✓		
		Extract info from state machines											✓	✓	✓		✓	✓						
		Extract states										✓	✓	✓	✓		✓	✓						
		Extract transitions										✓	✓	✓	✓		✓	✓						
		Capella Operational Architecture										✓												
		Capella Capabilities										✓												
		Capella Dataflows										✓												
		Capella Architecture										✓												
		Capella Trees										✓												
		Extract info from sequence diagrams										✓	✓	✓	✓		✓	✓						
		Extract info from packages elements											✓	✓	✓		✓	✓						
		Extract info from use cases and actors											✓	✓	✓		✓	✓						
		Extract info from activities											✓	✓	✓		✓	✓						
	Physical models	Extract signals											✓	✓	✓		✓	✓						
		Signal values											✓	✓	✓		✓	✓						
		Simulink Blocks														✓								
		Simulink Common Block Properties														✓								
		Simulink Block-Specific Parameters														✓								
	Others	Safety case diagrams																	✓					
		Feature models vocabulary																			✓			
		Export future models																			✓			
		Ontological information																				✓		

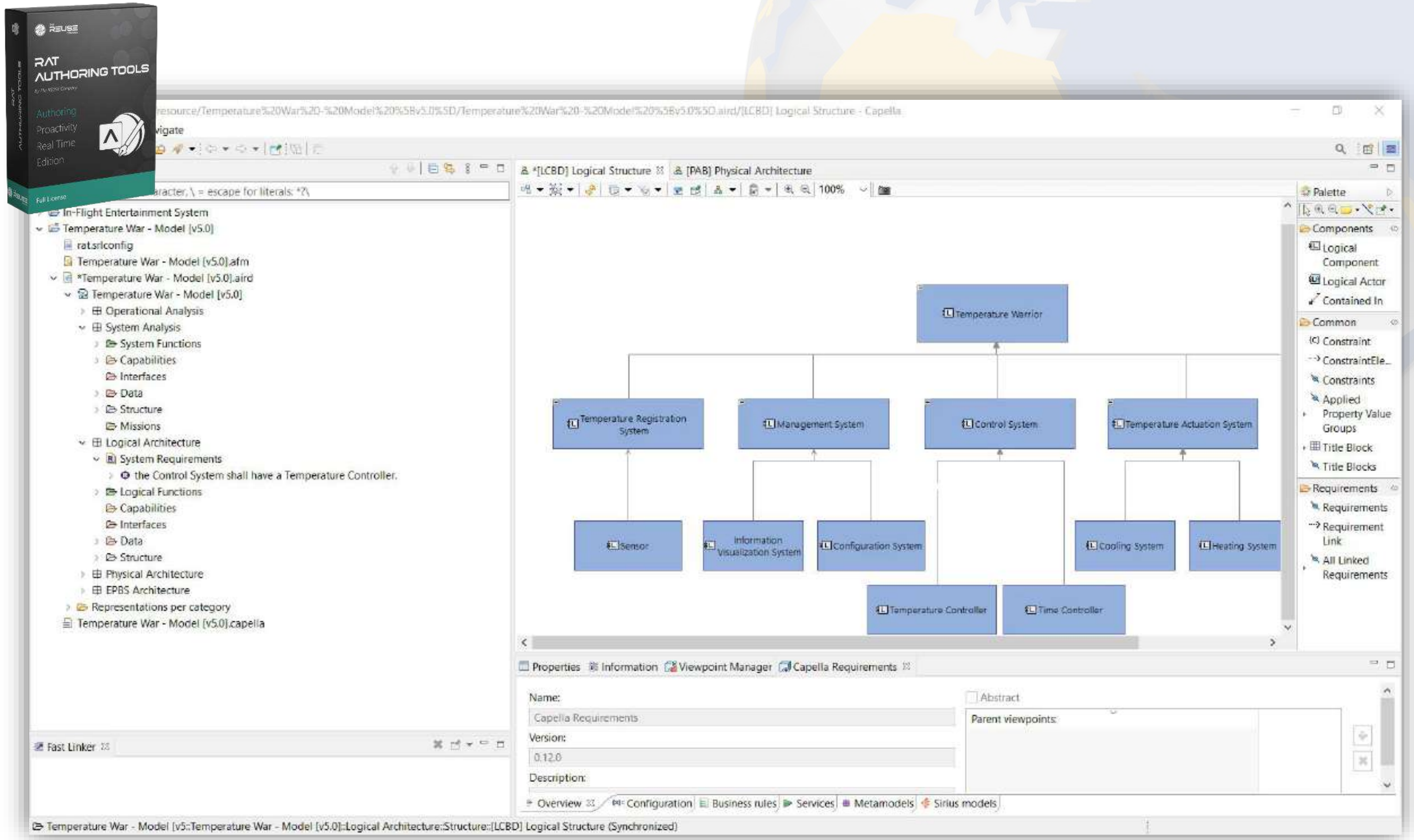


RAT for Capella

Demo

Tool Demo: RAT for CAPELLA

- **USE CASE #1** – Write a new requirement in Capella using RAT
- Sequence:
  1. Write a new requirement in Capella.
  2. Allocate requirement links.
  3. Open RAT. Edit and save the requirement.
  4. Write a new requirements in RAT using a pattern.



resource/Temperature%20War%20-%20Model%20%5Bv5.0%5D/Temperature%20War%20-%20Model%20%5Bv5.0%5D.aird/[LCBD] Logical Structure - Capella

aracter, \ = escape for literals: *?\

- In-Flight Entertainment System
- Temperature War - Model [v5.0]
  - rat.srlconfig
  - Temperature War - Model [v5.0].afm
  - *Temperature War - Model [v5.0].aird
    - Temperature War - Model [v5.0]
      - Operational Analysis
      - System Analysis
        - System Functions
        - Capabilities
        - Interfaces
        - Data
        - Structure
        - Missions
      - Logical Architecture
        - System Requirements
          - the Control System shall have a Temperature Controller.
        - Logical Functions
        - Capabilities
        - Interfaces
        - Data
        - Structure
      - Physical Architecture
      - EPBS Architecture
    - Representations per category
  - Temperature War - Model [v5.0].capella

Name: Capella Requirements

Version: 0.12.0

Description:

□ Abstract

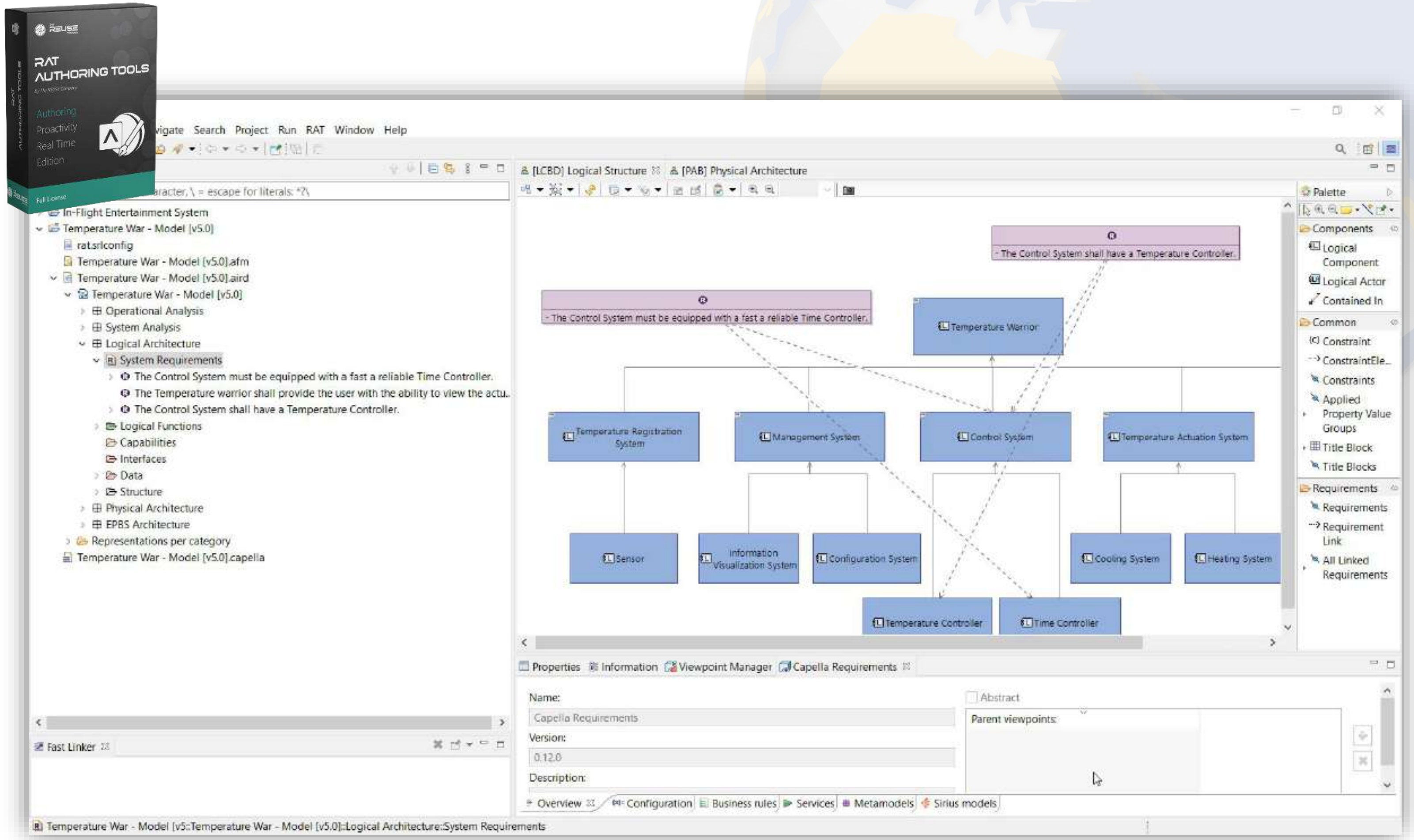
Parent viewpoints:

Temperature War - Model [v5::Temperature War - Model [v5.0]::Logical Architecture::Structure::[LCBD] Logical Structure (Synchronized)

[6:04 min]

Tool Demo: RAT for CAPELLA

- **USE CASE #2** – Use the RAT grid to edit requirements
- Sequence:
  1. Open the RAT Grid
  2. View all requirements in a sequence. Do some editing.
  3. Find suspect similar requirements.
     - Overlapping?
     - Inconsistent?
  4. Save and view in Capella.



The Control System must be equipped with a fast a reliable Time Controller.
The Temperature warrior shall provide the user with the ability to view the actu...
The Control System shall have a Temperature Controller.

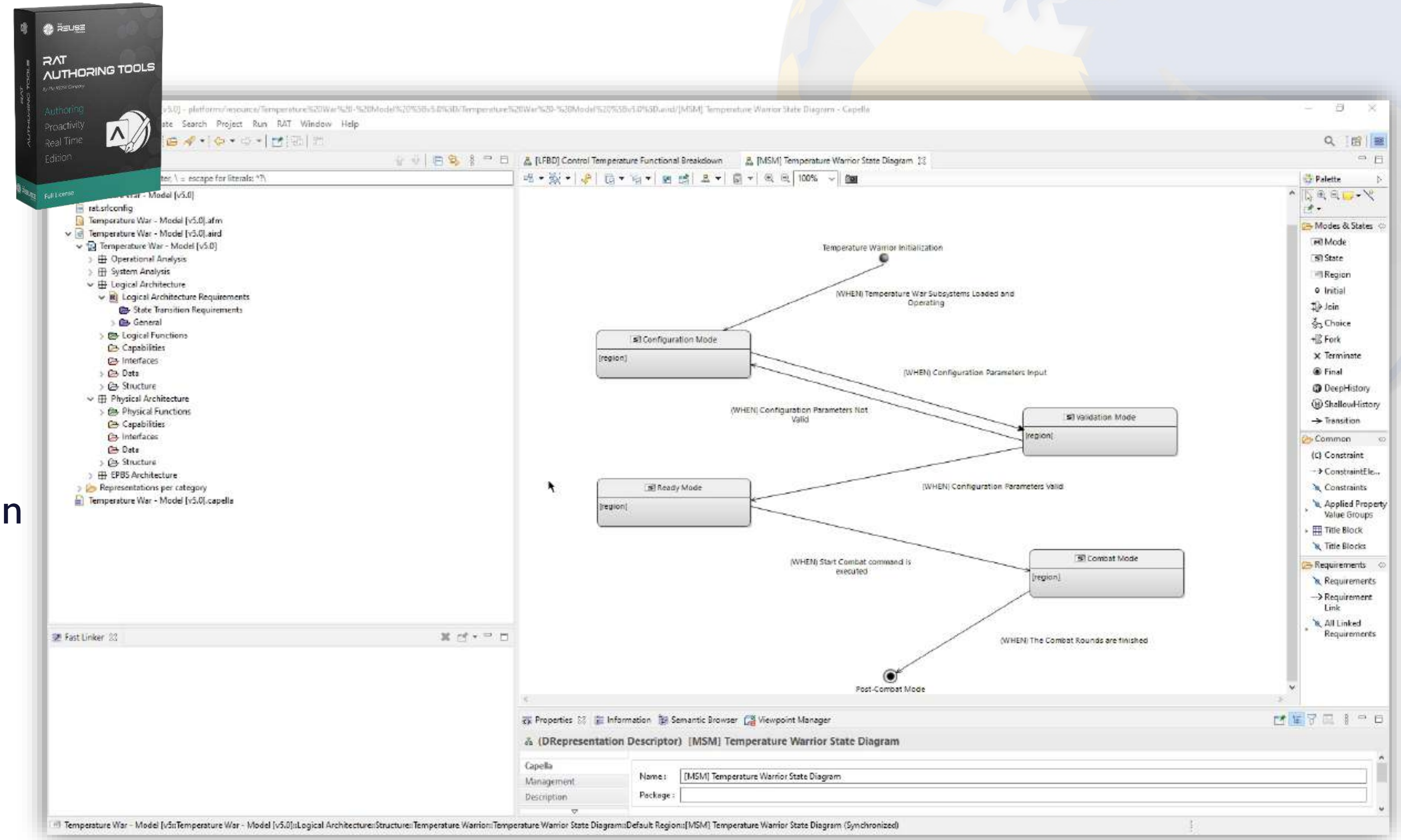
Name: Capella Requirements
Version: 0.12.0
Description:

Temperature War - Model [v5::Temperature War - Model [v5.0]::Logical Architecture::System Requirements

[2:53 min]

Tool Demo: RAT for CAPELLA

- **USE CASE #3** – Detecting wrong state transition
- Sequence:
  1. Author creates a new requirement with RAT.
  2. RAT quality window detects that the wrong state transition has been written.
  3. The author adds that state transition to the state chart.
  4. The knowledge interface is reloaded.
  5. The new requirement is now OK.



(DRepresentation Descriptor) [MSM] Temperature Warrior State Diagram

Name : [MSM] Temperature Warrior State Diagram

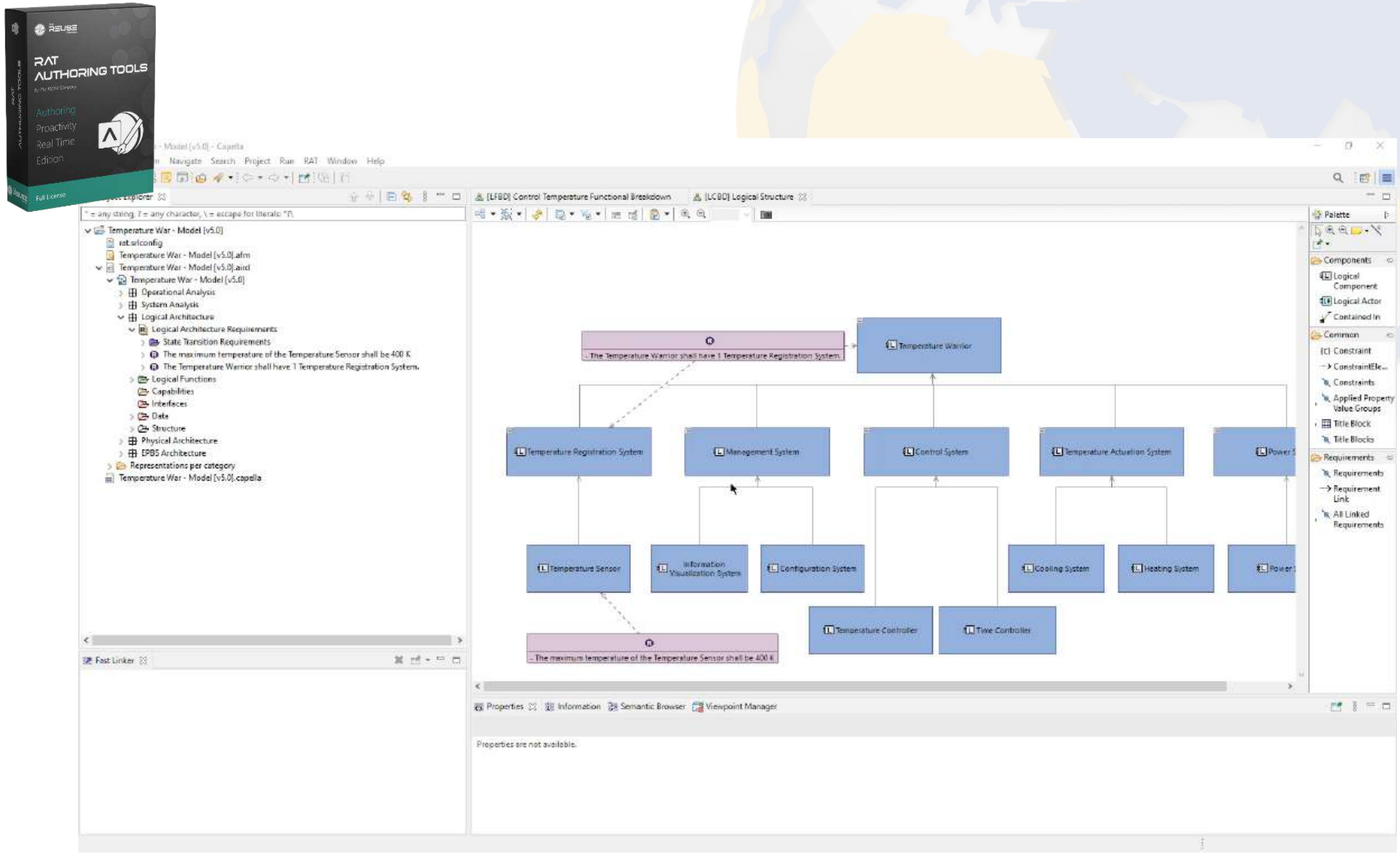
Package :

Temperature War - Model [v5.0]::Temperature War - Model [v5.0]::Logical Architecture::Structure::Temperature Warrior::Temperature Warrior State Diagram::Default Region::[MSM] Temperature Warrior State Diagram (Synchronized)

[2:13 min]

Tool Demo: RAT for CAPELLA

- **USE CASE #4** – Syntonise requirements between Capella and Doors
- Sequence:
  1. Start the RAT synchroniser
  2. Chose a:
     - Capella module, and;
     - DOORS module
  3. Chose to synchronisation requirements from DOORS to Capella.
  4. Edit a requirement and synchronise from Capella to DOORS.



*= any string, ? = any character, \ = escape for literals: *?\

- Temperature War - Model [v5.0]
  - rat.srlconfig
  - Temperature War - Model [v5.0].afm
  - Temperature War - Model [v5.0].aird
    - Temperature War - Model [v5.0]
      - Operational Analysis
      - System Analysis
      - Logical Architecture
        - Logical Architecture Requirements
          - State Transition Requirements
          - The maximum temperature of the Temperature Sensor shall be 400 K
          - The Temperature Warrior shall have 1 Temperature Registration System.
        - Logical Functions
        - Capabilities
        - Interfaces
        - Data
        - Structure
      - Physical Architecture
      - EPBS Architecture
    - Representations per category
  - Temperature War - Model [v5.0].capella

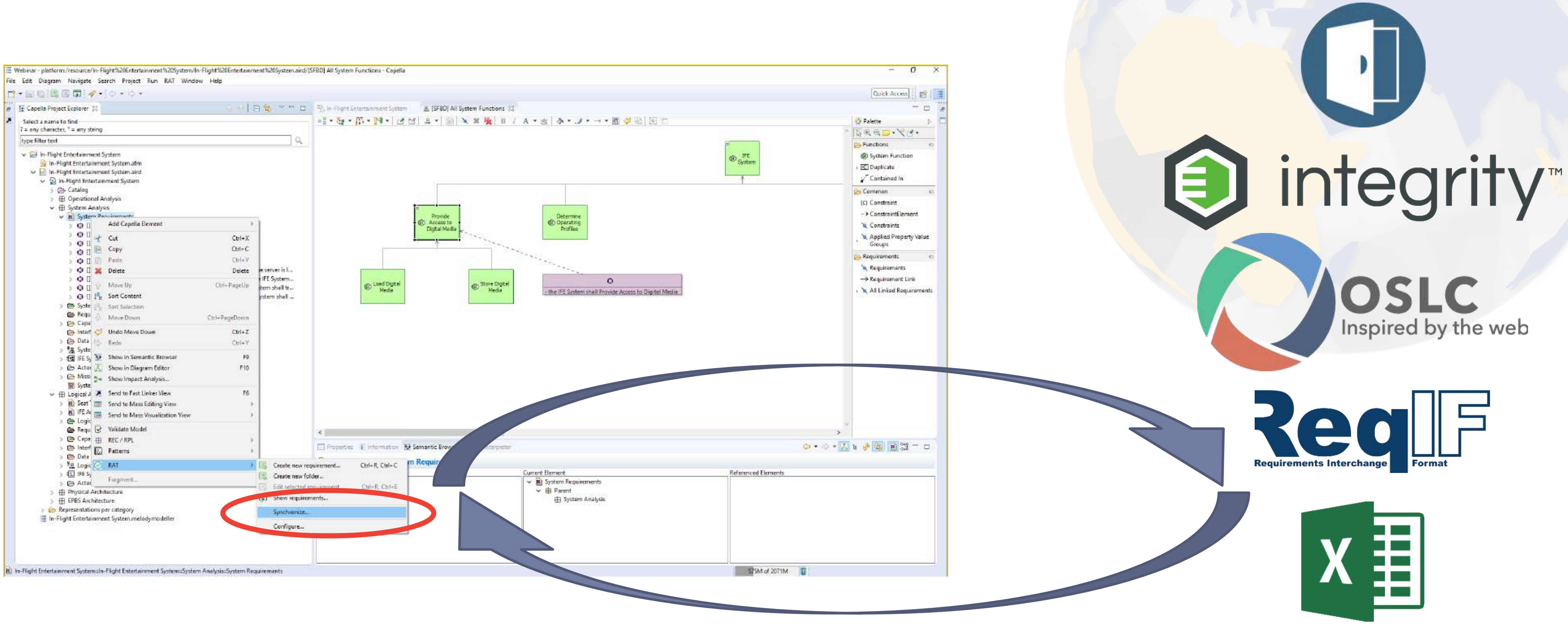
- The Temperature Warrior shall have 1 Temperature Registration System.

- The maximum temperature of the Temperature Sensor shall be 400 K

Properties are not available.

[4:21 min]

Requirements roundtrip


Webinar - platform:/resource/In-Flight%20Entertainment%20System/In-Flight%20Entertainment%20System.aird/[SFBD] All System Functions - Capella
File Edit Diagram Navigate Search Project Run RAT Window Help
Capella Project Explorer
In-Flight Entertainment System
System Analysis
System Requirements
Add Capella Element
Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V
Delete Delete
Move Up Ctrl+PageUp
Sort Content
Sort Selection
Move Down Ctrl+PageDown
Undo Move Down Ctrl+Z
Redo Ctrl+Y
Show in Semantic Browser F9
Show in Diagram Editor F10
Show Impact Analysis...
Send to Fast Linker View F6
Send to Mass Editing View
Send to Mass Visualization View
Validate Model
REC / RPL
Patterns
RAT
Fragment...
Create new requirement... Ctrl+R, Ctrl+C
Create new folder...
Edit selected requirement Ctrl+R, Ctrl+E
Show requirements...
Synchronize...
Configure...
Physical Architecture
EPBS Architecture
Representations per category
In-Flight Entertainment System.melodymodeller
[SFBD] All System Functions
IFE System
Provide Access to Digital Media
Determine Operating Profiles
Load Digital Media
Store Digital Media
- the IFE System shall Provide Access to Digital Media
Palette
Functions
Common
Requirements
Requirement Link
All Linked Requirements
Current Element
Referenced Elements
In-Flight Entertainment System::In-Flight Entertainment System::System Analysis::System Requirements
integrity™
OSLC
Inspired by the web
ReqIF
Requirements Interchange Format

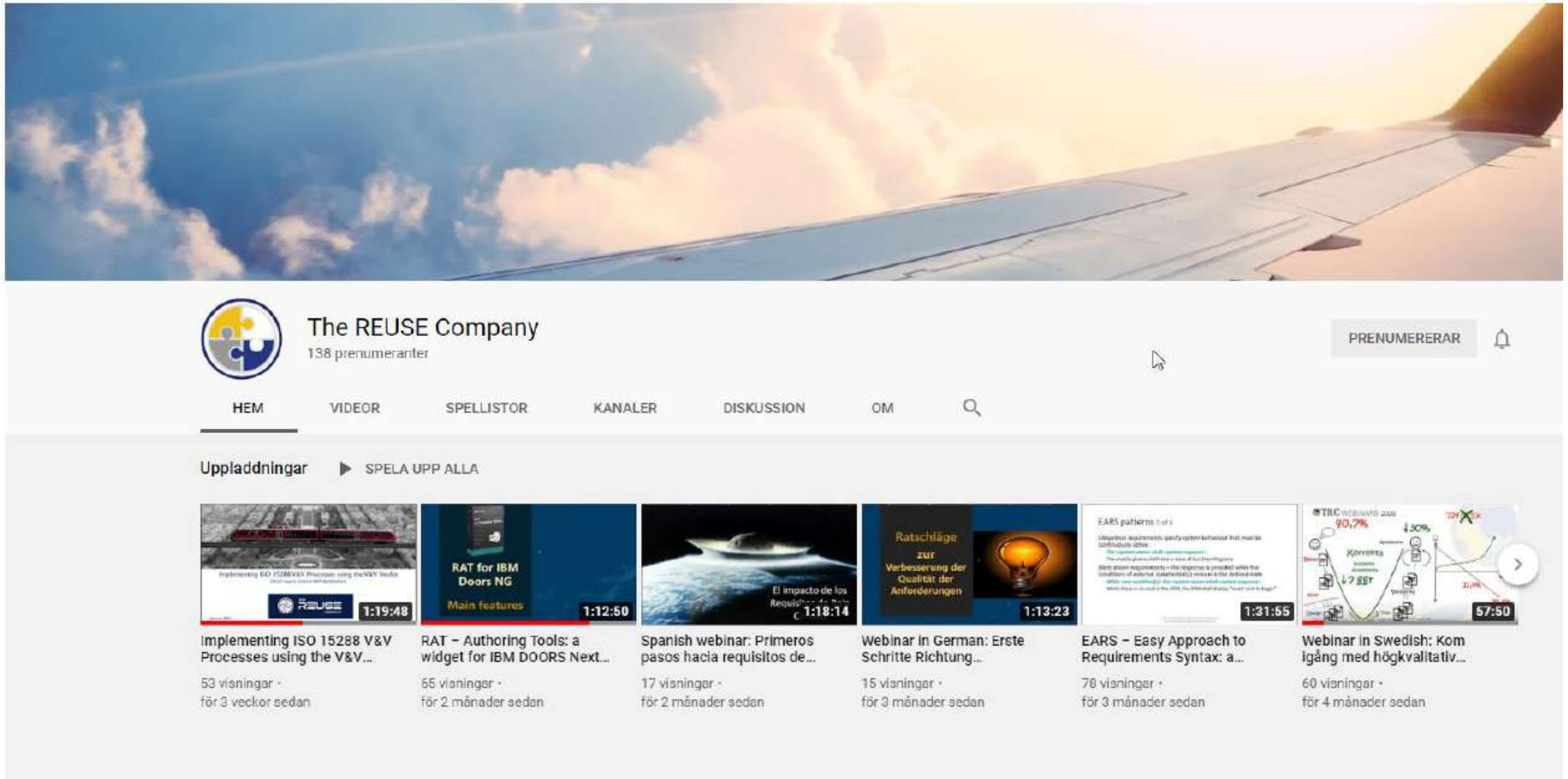
… and more

The End

Next webinar

- **Requirements Quality for Beginners**
- (Systems) Engineering projects, like buildings, require strong foundations to be successfully completed. However, instead of concrete or girders, as (systems) engineers, we have requirements. And if those specifications are poor in terms of quality, then our projects are most likely bound to fail.
- Throughout this webinar, you will be shown basic but important aspects to be considered when trying to improve any project requirements' quality. The RAT Authoring Tool and RQA Quality Studio will be the chosen software solutions, as they are capable of detecting prematurely defects or low-quality issues, as well as, providing consequent techniques to solve them

- **Dates:**
  - May 18, 2021
  - May 20, 2021



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57:50 Webinar in Swedish: Kom igång med högkvalitativ...
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RAT for IBM Doors NG
Main features
El impacto de los Requisitos
Ratschläge zur Verbesserung der Qualität der Anforderungen
EARS patterns

REUSE on YOUTUBE:

https://www.youtube.com/channel/UCHYV9teylpwC3FNGK_p8V6g

Q&A

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