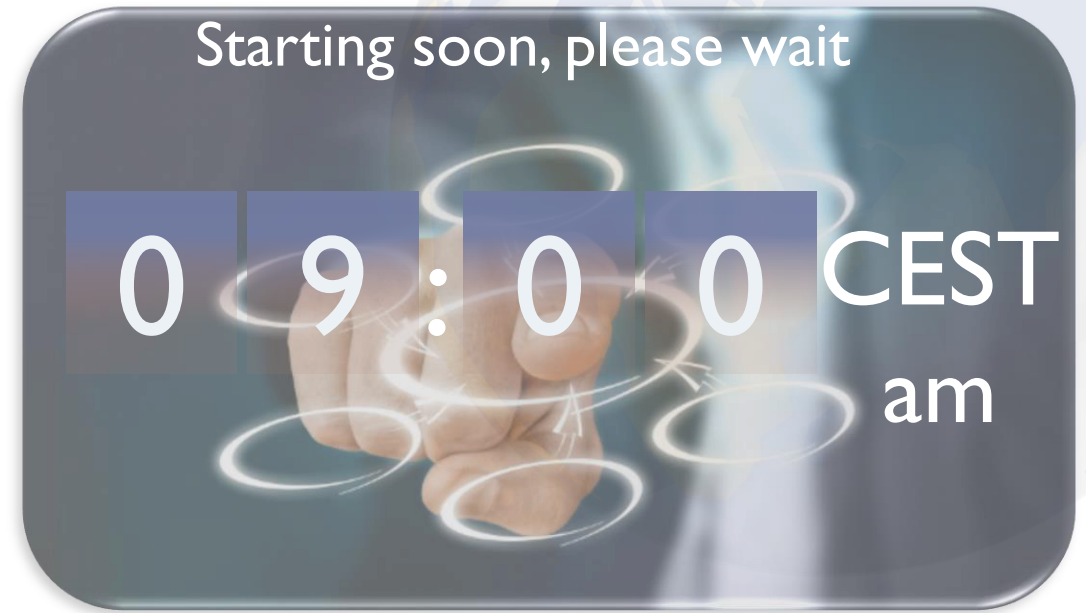


## Introduction: Webinar rules

# RAT for Capella

### › 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](mailto:support@reusecompany.com)
- › The Webinar will be recorded. A link to the recording will be sent to you in few days





# WEBINARS 2020

**RAT for  Capella**

Tuesday, 16 June, 2020



**José M. Fuentes**

- Chief Operating Manager
- jose.fuentes@reusecompany.com



**Cecilia Karlsson**

- Marketing & Communication manager
- cecilia.karlsson@reusecompany.com

## Table of Contents

- › Description of The Reuse Company
- › Presenter's profile
- › What is Capella?
- › Main capabilities of RAT for Capella
- › Capella models, as source of knowledge to analyse requirements quality
- › Live demo
- › Q&A





**01** The company was created in **1999**

As a spin-off of a University in Europe

**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.



### Research and Innovation in our DNA

Spin-off of Carlos III University of Madrid

TRC's headquarter is in the Legatec Technology Park of the University

≈10% of revenues are devoted to R&D

TRC is actively involved in several large EU research projects



REVaMP<sup>2</sup>

Past

ARTEMIS CRYSTAL  
Requirements  
Engineering



AMASS  
Assurance and Certification of CPS



ARROWHEAD

Current

Celtic+: IoD



Celtic-Plus  
Smart Connected World



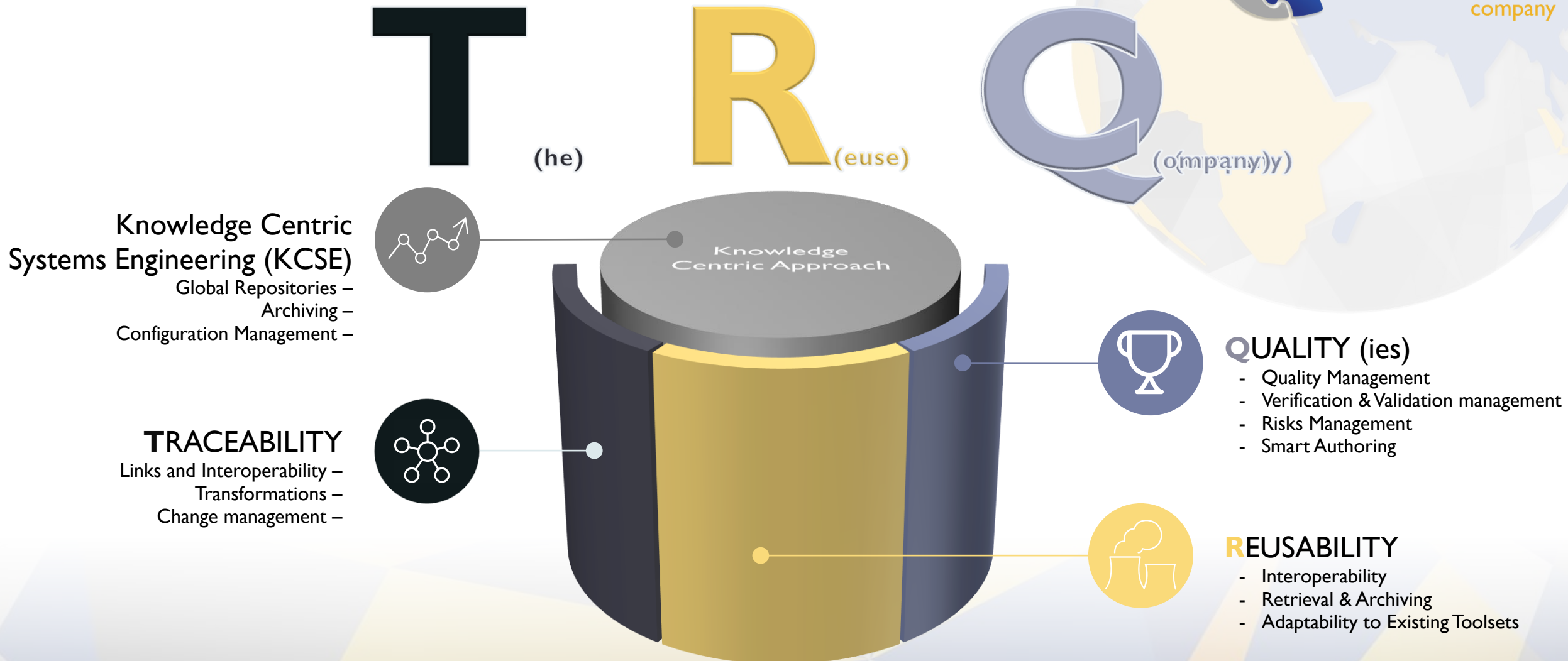
ITEA3


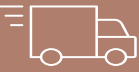


Starting  
ITEA3: EMBRACE

IREL 4.0  
VALUE 3S



ECSEL JU



	Aerospace and defense
	Energy
	Automotive
	Healthcare
	Other industries





José Fuentes



- **Current position:** Chief Operating Officer at The REUSE Company
- Product manager of the Systems Engineering Suite tools during the last 5 years
- INCOSE CSEP Certified
- Graduated in the INCOSE Institute for Technical Leadership
- Member of the board of AEIS – the Spanish chapter of INCOSE
- Active contributor to the INCOSE Guide for Writing Requirements

 TRC WEBINARS 2020

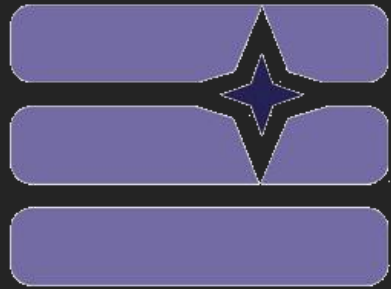
TRC



WEBINARS 2020

**RAT for  Capella**

Tuesday, 16 June, 2020



# What is Capella

## 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/>



### Need model

helps formalize and consolidate customer and system requirements

### Textual requirements

are at the heart of the current engineering practices

### Solution model

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



## Textual requirements and model requirements

Models add rigor to need expression / solution description

Models enable automated processing

A model requirement can formalize a textual requirement and explicit its effects and ramifications

Some expectations (environmental, regulations, etc. ) are easier to express with textual descriptions

Some expectations on a model element at a given engineering level do not require a formal modeling (which is left to subsystem design)

Textual form of needs and requirements are not only useful, they are **fully necessary**



**RAT for Capella**

**Main  
capabilities**

## Enhancing the Requirements and models collaboration

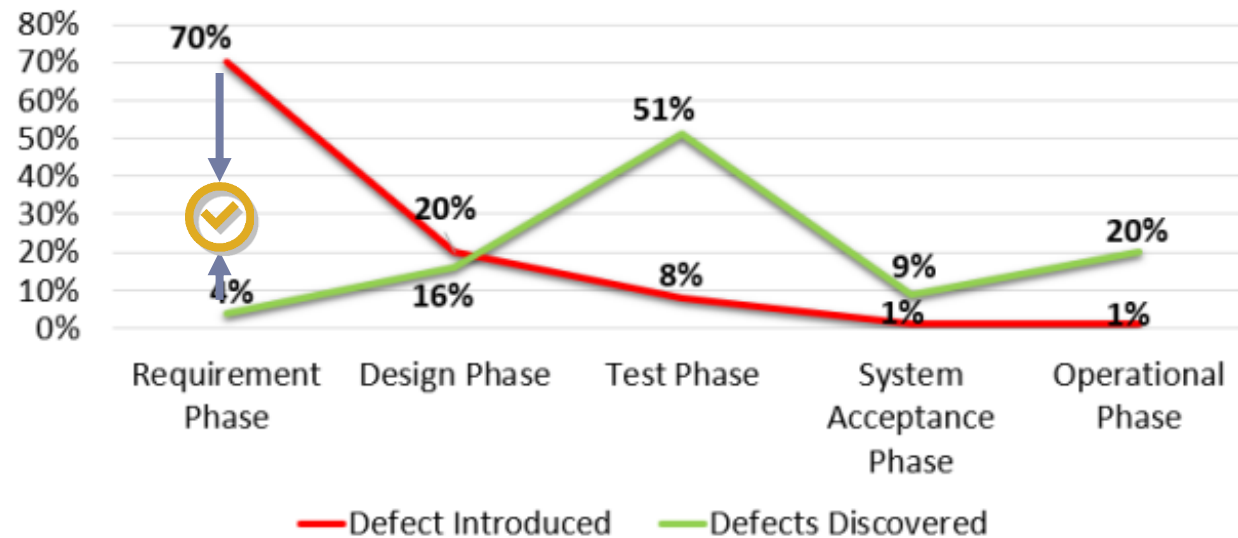
- All this looks great! But...
- ... the connection between requirements and models has to be consistent and robust
- Quality must be guaranteed at both sides



### Real-time quality analysis

## REQUIREMENTS are the reason for FAILURE

When errors are introduced vs. when they are discovered during the system life cycle



Source: IBM Business research 2017



## Enhancing the Requirements and Models Collaboration

- Because communication is not always that easy:

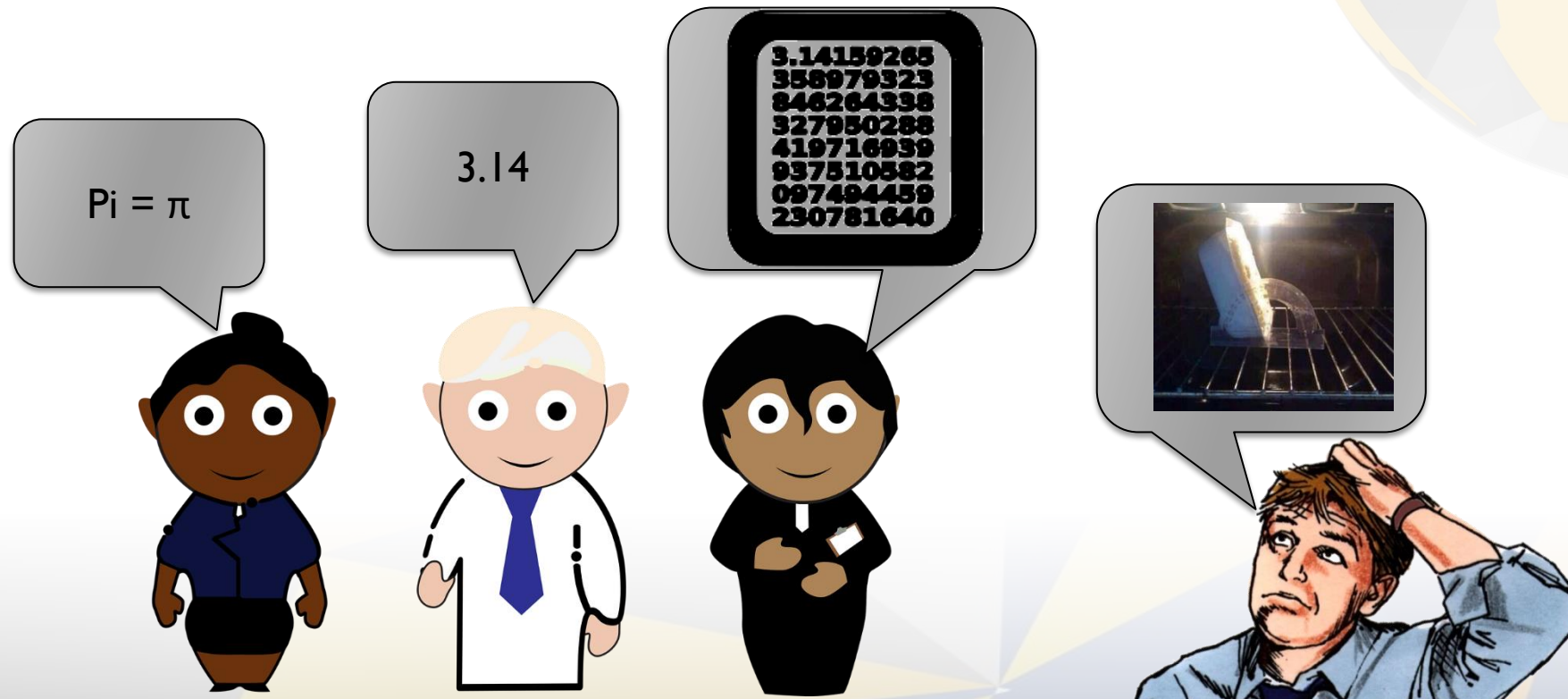
**MY WIFE TOLD ME TO  
PUT THE PIE IN THE  
OVEN AT 120 DEGREES**





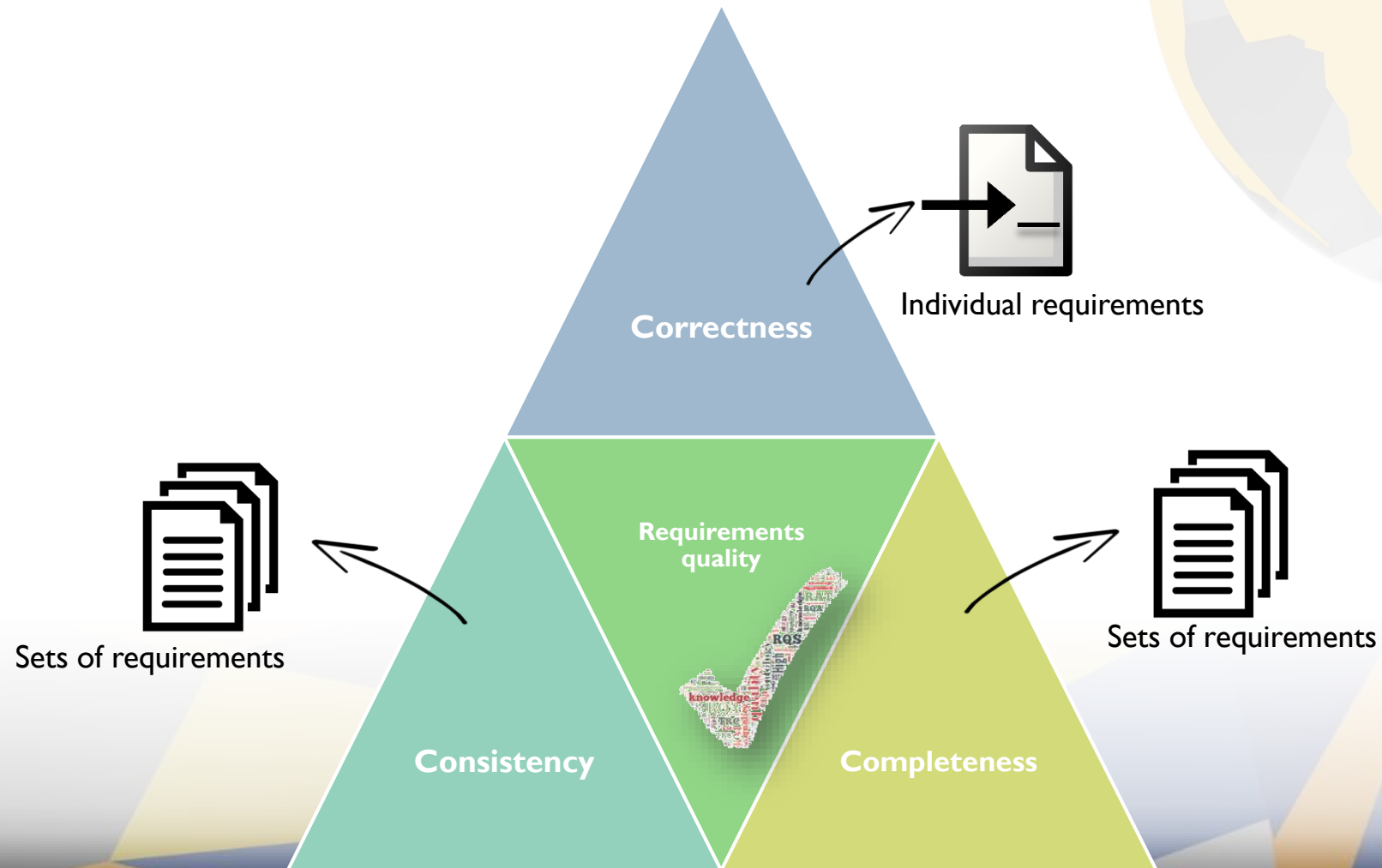
## Why focusing on requirements quality

- Because communication is not always that easy:



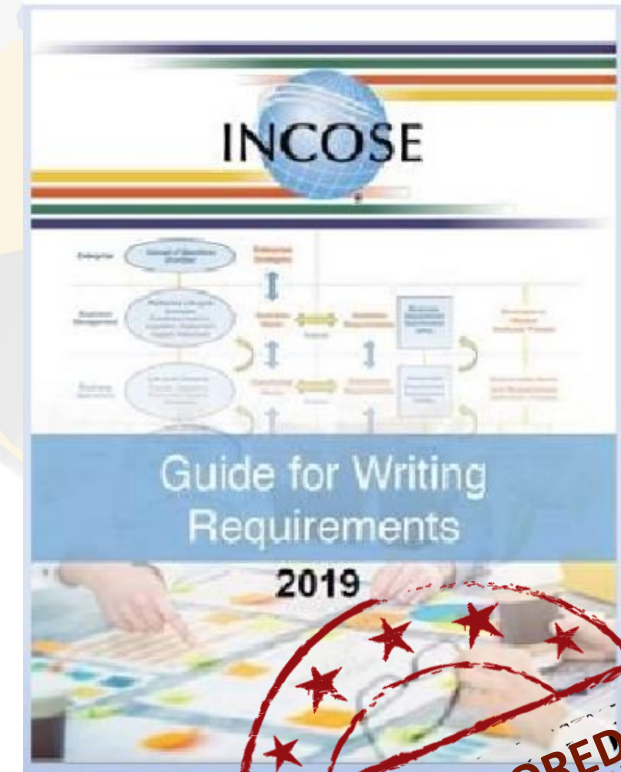
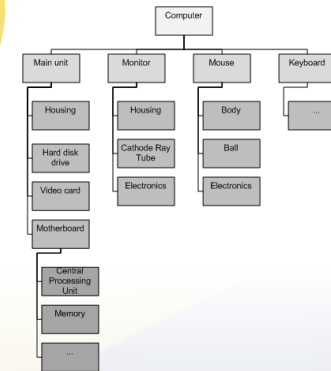
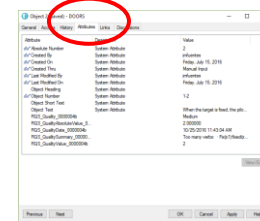
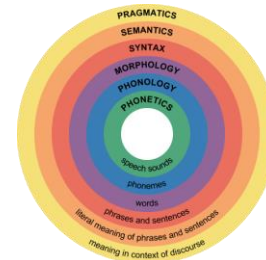
## Real-time quality analysis: CCC Approach

➤ CCC – Correctness, Consistency and Completeness

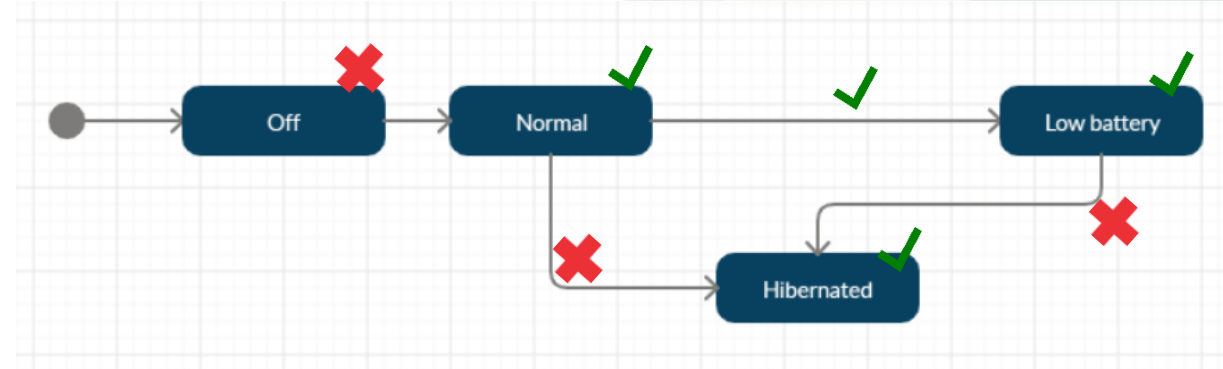
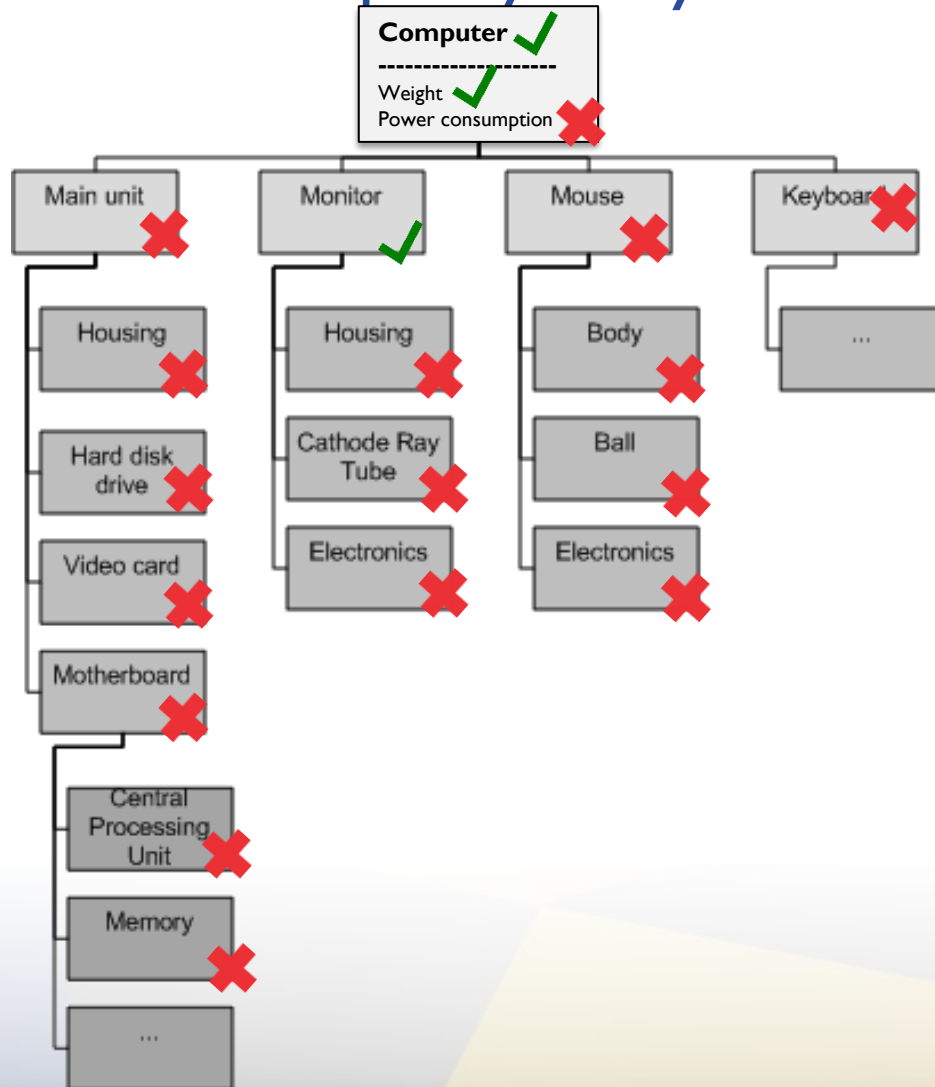


### Real-time quality analysis: Correctness

- 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



## Real-time quality analysis: Completeness



The computer shall have 2 monitors

The computer shall have 2 engines

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

When the Computer is in Hibernated mode, the monitor shall turn black

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

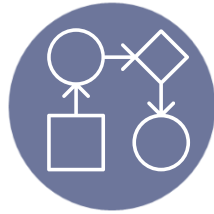


## Real-time quality analysis: Consistency

Requirements-  
models

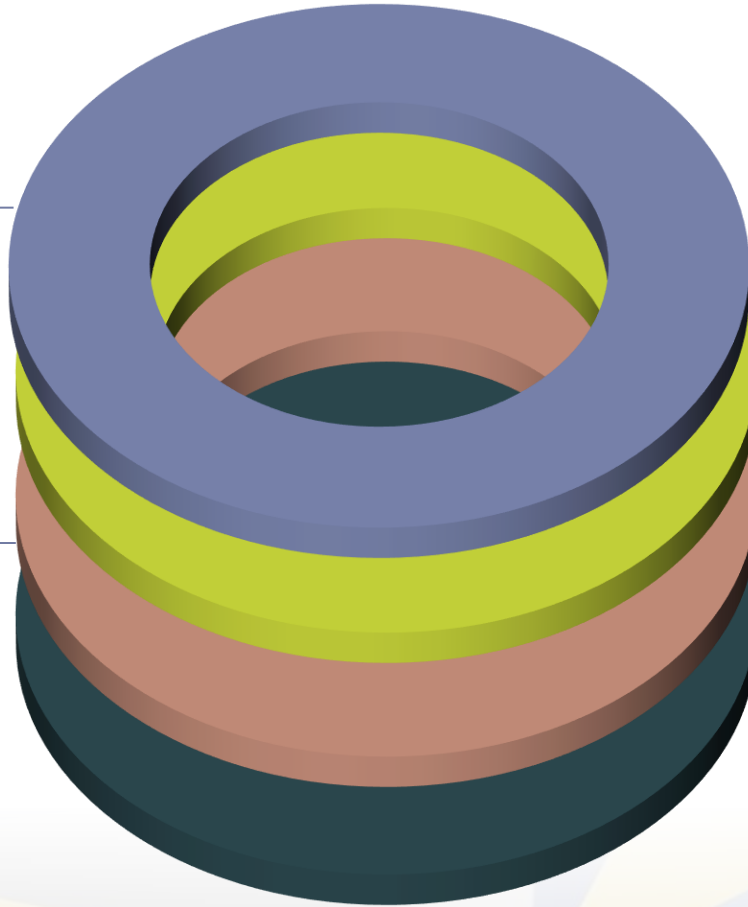
**Consistency**

e.g. allocation of  
properties



**Naming  
consistency**

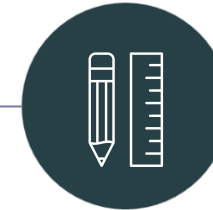
Among models elements  
and elements in textual  
requirements



**Consistency  
Among  
requirements:**  
e.g. overlapping



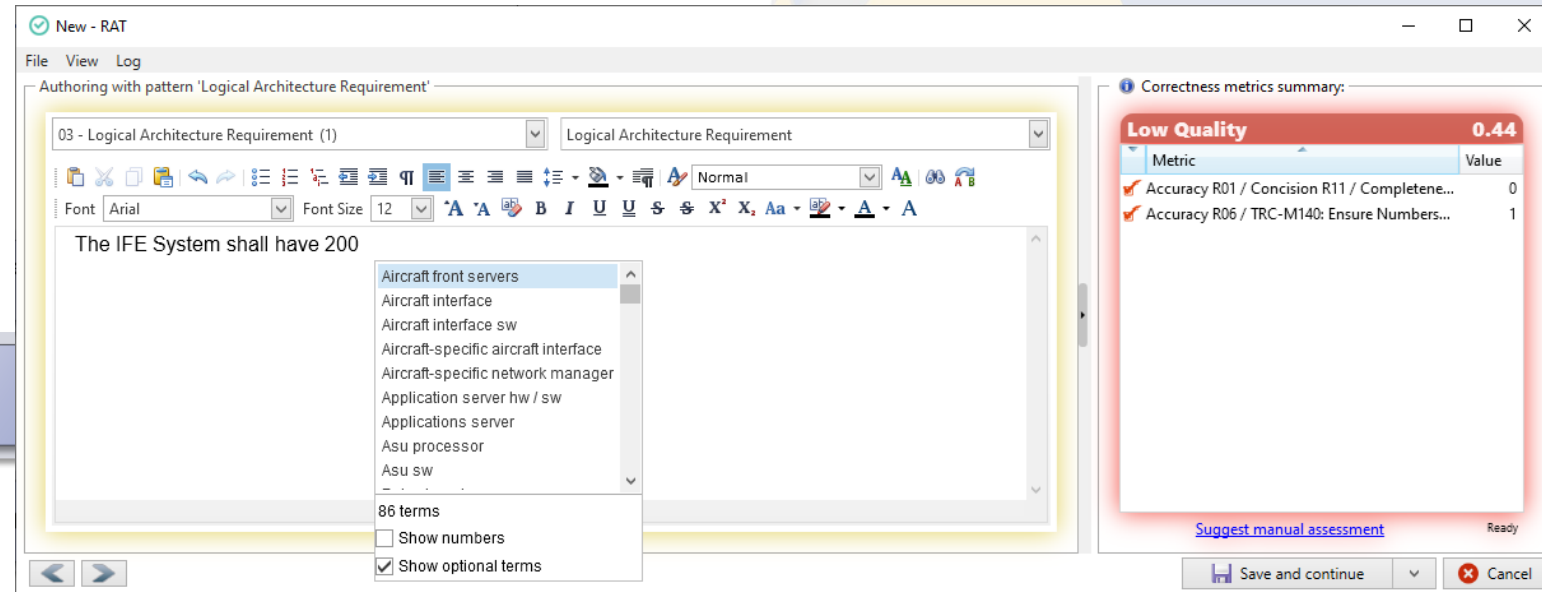
**Pattern-based  
writing**





### Real-time quality analysis: Patterns

When / After / If ...    [Condition]    <Subject>



<Entity>    Shall    Have    a/NUMBER    <Entity>

The    <Property>    Of    <Entity>    Shall be    <Value>



### Real-time quality analysis: dictionaries

#### RAT plugin for Rhapsody - Settings

Model Content    More settings

Available Model Content:

Drag a column header here to group by the

Use	Model Scope	Element Type
<input checked="" type="checkbox"/>	OperationalAnalysis	Activity
<input checked="" type="checkbox"/>	OperationalAnalysis	Actor
<input checked="" type="checkbox"/>	OperationalAnalysis	Entity
<input checked="" type="checkbox"/>	OperationalAnalysis	Capability
<input checked="" type="checkbox"/>	OperationalAnalysis	Operational State
<input checked="" type="checkbox"/>	OperationalAnalysis	Operational Interaction
<input checked="" type="checkbox"/>	OperationalAnalysis	Operational Process
<input checked="" type="checkbox"/>	SystemAnalysis	Function
<input checked="" type="checkbox"/>	SystemAnalysis	Actor
<input checked="" type="checkbox"/>	SystemAnalysis	Component
<input checked="" type="checkbox"/>	SystemAnalysis	Functional Exchange
<input checked="" type="checkbox"/>	SystemAnalysis	Functional Chain
<input checked="" type="checkbox"/>	SystemAnalysis	Port
<input checked="" type="checkbox"/>	SystemAnalysis	Capability

runtime-EclipseApplication - platform/resource/In-Flight%20Entertainment%20System/In-Flight%20Entertainment%20System.aird/[MCB] Capabilities Context - Capella

File Edit Diagram Navigate Search Project Run RAT Window Help

\*Capella Project Explorer

Select a name to find  
? = any character, \* = any s  
type filter text

Editing 7e401d1c-96d3-48b1-8a77-4485b1fa7965 - RAT Plugin for Capella

File Suggestions View Log

#### RAT Plugin for Capella

By The REUSE Company

Authoring with pattern 'Stakeholder Functional Requirement'

01 - System Functionality (6)    Stakeholder Functional Requirement

The Aircraft should be assigned to perform the interaction very quickly

Metric: R13 Non Ambiguity - TRC - Ambiguous sentences (Avoid)

Matching patterns elements:

Example	Source	Weight	Pattern name
manager of the vehicle shall be able to accelerate the accelerometer	Ontology		

Other quality elements:

Correctness	Syntactic information	Formal representation	Patterns information
Metric	Correctness	Value	Summary
R02 Precision - Passive voice (Avoid)	★ ★ ★	1	Avoid passive voice in your requirements
R02 Precision - TRC - Imperative mode (Enf...)	★ ★ ★	0	At least one imperative verb must be involved
R05 Precision - Imprecise quantifiers (Avoid)	★ ★ ★	1	Avoid imprecise quantifiers
R11 Concision - Superfluous infinitives (Av...)	★ ★ ★	1	Avoid superfluous infinitives
R13 Non Ambiguity - TRC - Ambiguous se...	★ ★ ★	1	Ambiguous sentences must be avoided
R44 Uniformity Of Language - Style guide (...)	★ ★ ★	0	The structure of the requirement must follow one of th...
R33 Abstraction Level - Solution vocabulary	★ ★ ★	1	Sentences and words close to design must be avoided
R01 Precision - Indefinite article...	★ ★ ★	0	N/A

Correctness metrics summary:

**Low Quality 2.03**

Metric	Value
✓ R02 Precision - Passive voice (Avoid)	1
✓ R02 Precision - TRC - Imperative mode (Enf...)	0
✓ R05 Precision - Imprecise quantifiers (Avoid)	1
✓ R11 Concision - Superfluous infinitives (Av...)	1
✓ R13 Non Ambiguity - TRC - Ambiguous se...	1
✓ R44 Uniformity Of Language - Style guide (...)	0
✓ R33 Abstraction Level - Solution vocabulary	1

Suggest manual assessment    Ready

Save and close    Cancel

Quick Access

Palette

- Tools
- Actor
- Mission
- Capability
- Capability Exploitation
- Involved Actor
- Extends
- Includes
- Capability Generalization
- Actor Generalization
- Actors
- Capabilities
- Missions
- Relationships

Common

- (c) Constraint
- ConstraintElement
- Constraints
- Applied Property Value Groups

Requirements

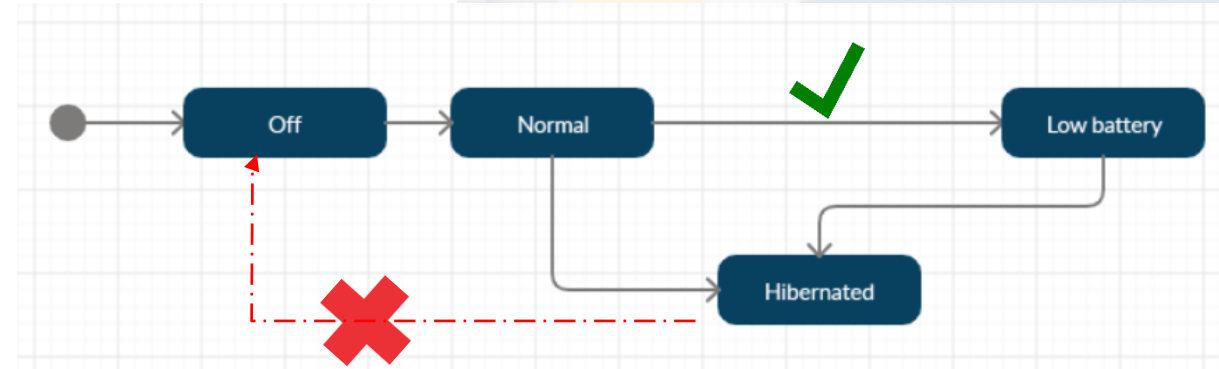
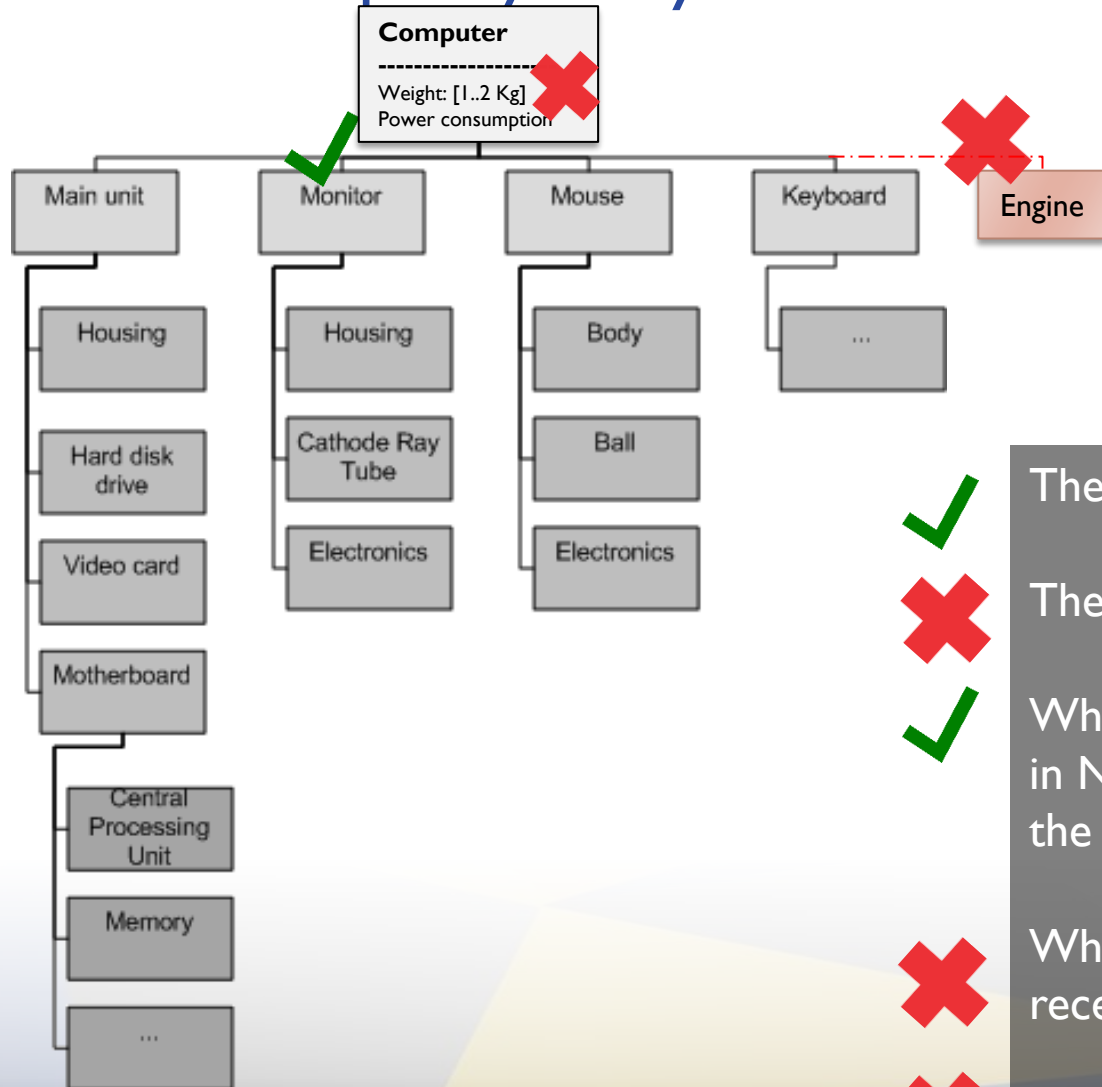
- Requirements
- Requirement Link
- All Linked Requirements

### Real-time quality analysis: dictionaries

The screenshot displays the Capella software interface. On the left, the 'Capella Project Explorer' shows a project structure for 'In-Flight Entertainment System'. The main workspace shows a system model with actors 'Aircraft' and 'Cabin Crew' connected by a requirement 'Provide Audio and Video Intercommunication Means'. A red circle highlights the 'Aircraft' actor, and another red circle highlights the requirement. Overlaid on the bottom right is the 'New - Requirements Authoring Tool' window, titled 'RAT Plugin for Capella'. This window shows a text editor with the sentence 'The Aircraft shall pr' and a list of suggestions for completion, including 'Provide Access Management Control', 'Provide Access to Digital Media', and 'Provide Audio and Video Intercommunication Means'. To the right of the text editor is a 'Correctness metrics summary' table.

High Quality 0.53	
Metric	Value
✓ R19 Singularity - TRC - Text length (words)	3
✓ R44 Uniformity Of Language - Style guide (Enforce)	0

### Real-time quality analysis: Consistency



The computer shall have 2 monitors

The computer shall have 2 engines

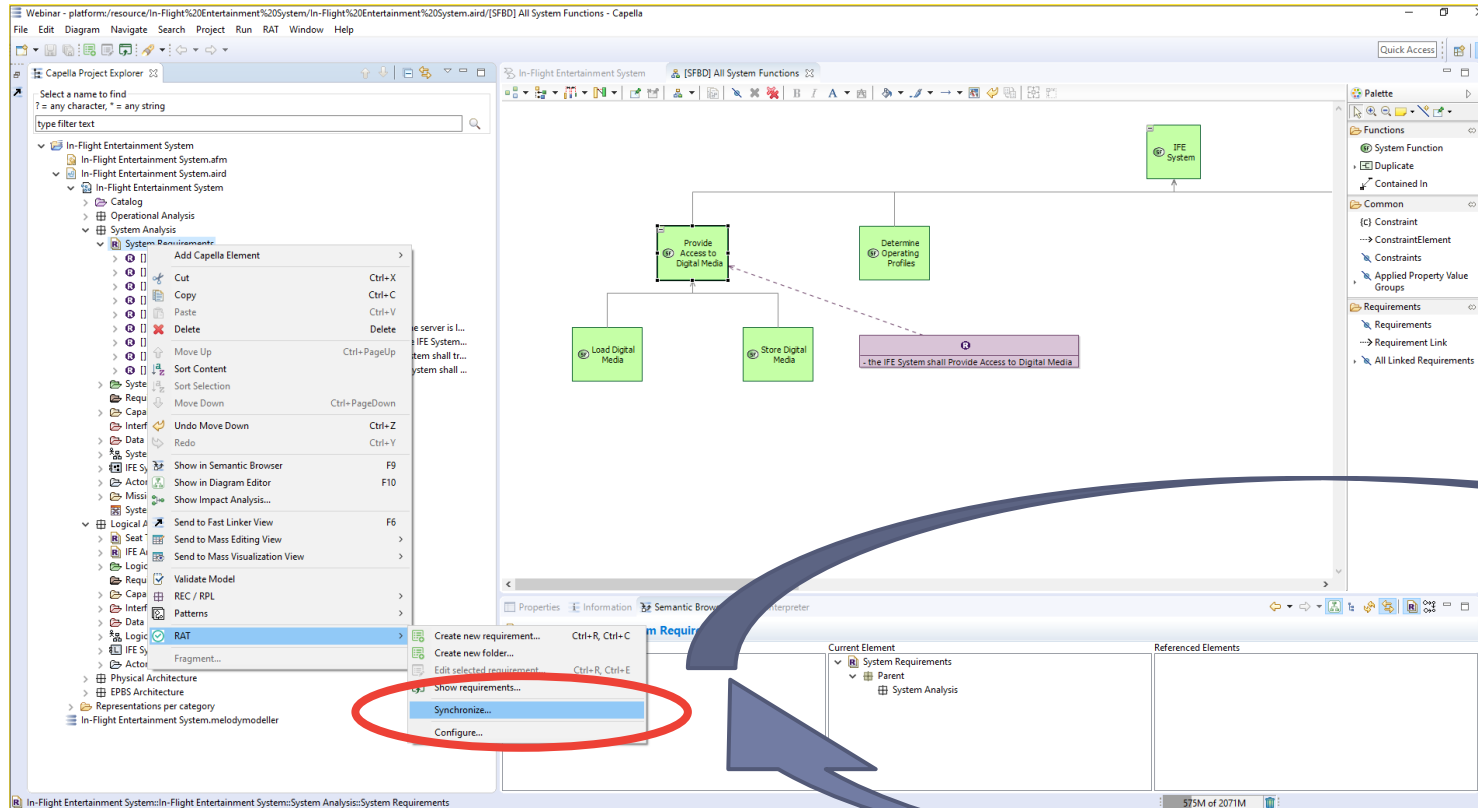
When the Computer is not plugged in, and the computer is in Normal state and the level of battery drops below 10%, the computer shall transit to Low battery mode

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%



### Requirements roundtrip



... and more



## Requirements roundtrip

Capella integration with RAT: the Authoring Tools

The screenshot shows the Capella IDE interface. On the left is the 'Capella Project Explorer' with a tree view of the project structure. The main workspace displays a system model with components like 'In-Flight Entertainment System' and 'IFE System'. A 'Textual merge' dialog is open, showing a comparison between 'Master: System Requirements' and 'Side 2: System Requirements'. The dialog includes a table of merge actions and a 'Synchronize...' button highlighted with a red circle.

Ch...	Master	Link	Side 2	Action	Link action
<input type="checkbox"/>	The IFE System shall Provide Navigation Data	---		Create item in side 2	Create link
<input type="checkbox"/>	the IFE System shall Provide Access to Digital Media	---		Create item in side 2	Create link
<input type="checkbox"/>	The IFE System shall Manage Passenger Services Lifecycle	---		Create item in side 2	Create link
<input type="checkbox"/>	The IFE System shall Manage Video and Audio Diffusion	---		Create item in side 2	Create link
<input type="checkbox"/>	The IFE System shall Run Cabin Intercommunication Service	---		Create item in side 2	Create link
<input type="checkbox"/>	When IFE System is in Fully Operational and the connection to the serv...	---		Create item in side 2	Create link
<input type="checkbox"/>	When IFE System is in Fully Operational and the power is lost, the IFE S...	---		Create item in side 2	Create link
<input type="checkbox"/>	When IFE System is in Degraded and the power is lost, the IFE System...	---		Create item in side 2	Create link
<input type="checkbox"/>	When IFE System is in Halted and the power is received, the IFE System...	---		Create item in side 2	Create link



... and more

### Usability

runtime-EclipseApplication - platform:/resource/In-Flight%20Entertainment%20System/In-Flight%20Entertainment%20System.aird/[MCB] Capabilities Context - Capella

File Edit Diagram Navigate Search Project Run RAT Window Help

Capella Project Explorer

Select a name to find  
? = any character, \* = any string  
type filter text

- In-Flight Entertainment System
  - In-Flight Entertainment System.afm
  - In-Flight Entertainment System.aird
    - Catalog
    - Operational Analysis
    - System Analysis
      - System Requirements
        - The Aircraft shall Provide Video Gaming Services
        - The actor shall perform the interaction
        - The Aircraft shall Provide Access Management Control
        - The Aircraft shall perform TBD
        - The Aircraft should be designed to perform the interact
      - System Functions
        - Requirements
        - Capabilities
        - Interfaces
        - Data
        - System Context
        - IFE System
        - Actors
        - Missions
      - System Functions - Operational Activities
      - Logical Architecture
      - Physical Architecture
      - EPBS Architecture
      - Representations per category

- In-Flight Entertainment System.melodymodeller
- Requirement\_Process\_Model
- Base.reqif
- HLR.xlsx
- IRD.xlsx
- IRD 1-2.xlsx
- IRD-external.xlsx
- Requirement\_Process\_Model.afm
- Requirement\_Process\_Model.aird
  - Requirement\_Process\_Model
  - Representations per category
- Requirement\_Process\_Model.melodymodeller
- SRD.xlsx
- TS-LC1.xlsx
- TS-LC2.xlsx
- Sample System
- Sample System.afm
- Sample System.aird

RAT Plugin for Capella

File Authoring

System Requirements

Specification selector

Simple view  
Quality view  
Full view

New Edit Remove

View Workproducts

Drag a column header here to group by that column

	C.	ID	Workproduct name	Correctness	Score	M...	Correctnes...	Iss...
		e907837e...	The Aircraft shall Provide Video Gaming Services	★★★★	0.31	0	13/09/201...	N/A
		f84a0ed5...	The actor shall perform the interaction	★★★★	0.31	0	13/09/201...	N/A
		954257a4...	The Aircraft shall Provide Access Management Control	★★★★	0.31	0	16/07/201...	N/A
		72397322...	The Aircraft shall perform TBD	★★★★	0.31	0	13/09/201...	N/A
		7e401d1c...	The Aircraft should be designed to perform the interaction very quickly	★★★	2.03	0	13/09/201...	N/A

Total Workproducts: 5

✓ Show rich text format

Custom report Short specification quality rep

Quality database type SQLServerNative: Server 'localhost\sqlxp

Name: System Requirements

Type: <undefined>

Correctness

Score  
2.03

Date:  
13/09/2019 12:51:10

Summary:

- Avoid passive voice in your requirements: - Be Designnbe designed(x1)
- At least one imperative verb must be involved
- Avoid imprecise quantifiers: - Very(x1)very(x1)
- Avoid superfluous infinitives: - Be designed to(x1);be designed to(x1)
- Ambiguous sentences must be avoided: - Quickly;quickly(x1)
- Sentences and words close to design must be avoided: - Design(x1);designed(x1)
- The structure of the requirement must follow one of the patterns

613M of 1216M

### Accessibility

The screenshot displays the IMBSE Tool - Team for Capella interface. The browser window at the top shows the URL [obeo.fr/en/team-for-capella](https://obeo.fr/en/team-for-capella). The main application window is titled "workspace - Test Team Project - Capella" and features a menu bar (File, Edit, Navigate, Search, Project, Run, RAT, Window, Help) and a toolbar.

The **Capella Project Explorer** on the left shows a hierarchical tree structure. The "Test Team Project" is expanded, revealing sub-projects like "In-Flight Entertainment System" and "Test Team Project.team.team". A red circle highlights the "Test Team Project" node. Below it, the "Operational Analysis" node is also highlighted with a red circle. The "Operational Analysis" node contains a requirement: "The system administrator shall Manage operators and Manage".

The **Workflow of Test Team Project** on the right lists several stages:

- Operational Analysis**: Define Stakeholder Needs and Environment. Capture and consolidate operational needs from stakeholders. Define what the users of the system have to accomplish. Identify entities, actors, roles, activities, concepts.
- System Analysis**: Formalize System Requirements. Identify the boundary of the system, consolidate requirements. Define what the system has to accomplish for the users. Model functional dataflows and dynamic behaviour.
- Logical Architecture**: Develop System Logical Architecture. See the system as a white box: define how the system will work so as to fulfill expectations. Perform a first trade-off analysis.
- Physical Architecture**: Develop System Physical Architecture. How the system will be developed and built. Software vs. hardware allocation, specification of interfaces, deployment configurations, trade-off analysis.
- EPBS**: Formalize Component Requirements. Manage industrial criteria and integration strategy: what is expected from each designer/sub-contractor. Specify requirements and interfaces of all configuration items.

A context menu is open over the "Operational Analysis" node, listing various actions:

- Cut (Ctrl+X)
- Copy (Ctrl+C)
- Paste (Ctrl+V)
- Delete
- Move Up (Ctrl+PageUp)
- Sort Content
- Sort Selection
- Move Down (Ctrl+PageDown)
- Undo Model Edition (Ctrl+Z)
- Redo (Ctrl+Y)
- Send to Mass Editing View
- Send to Mass Visualization View
- Validate Model
- REC / RPL
- Patterns
- RAT (highlighted)
- Lock / Unlock...
- Show Commit History
- Migration

The **RAT** (Requirements Authoring Tool) menu is open, showing options:

- Create new requirement... (Ctrl+R, Ctrl+C)
- Create new folder...
- Edit selected requirement... (Ctrl+R, Ctrl+E)
- Show requirements...
- Edit a requirement using RAT
- Synchronize...
- Configure...

The bottom status bar indicates the current view: "Test Team Project::Test Team Project::Operational Analysis::OA Requirements::[] The system will have a System administrator". The bottom right corner shows "185M of 2309M".



# Capella and Knowledge manager

## Knowledge-based requirements writing

### 05 Reasoning

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

### 04 Formalization

Representation of assets semantic through SRL – System Representation Language



01

### Vocabulary

Controlled Organizational and Project Vocabulary for a common understanding among stakeholders

02

### SCM/Architectures

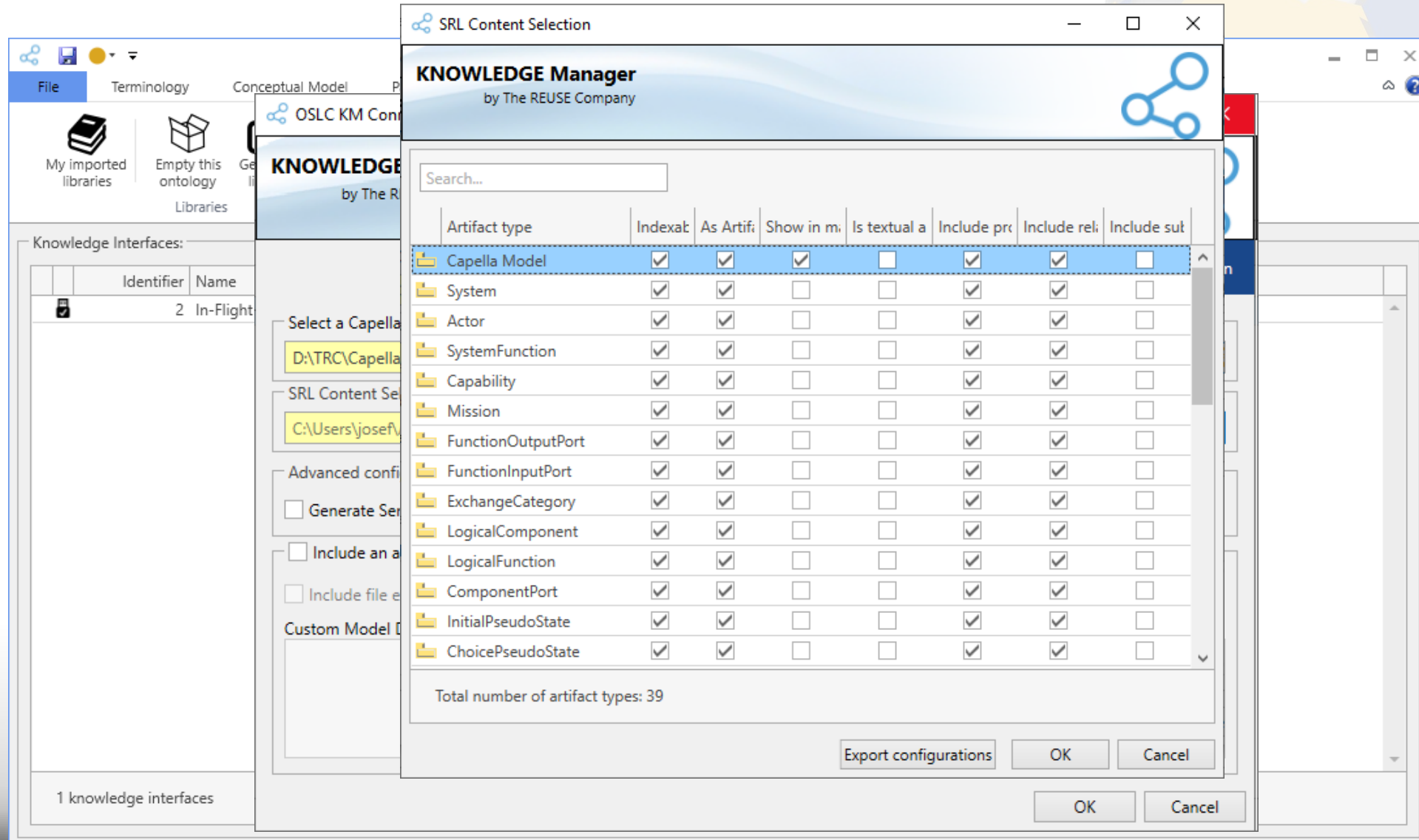
Recreate and capture the system architectures represented in views and models. Stablish relationships among system and system elements

03

### Patterns

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

## Capella models as Knowledge Base



**KNOWLEDGE Manager**  
by The REUSE Company

Search...

Artifact type	Indexat	As Artifi	Show in m	Is textual a	Include pr	Include reli	Include sut
Capella Model	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
System	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Actor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SystemFunction	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Capability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mission	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FunctionOutputPort	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FunctionInputPort	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ExchangeCategory	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
LogicalComponent	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
LogicalFunction	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ComponentPort	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
InitialPseudoState	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ChoicePseudoState	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Total number of artifact types: 39

Export configurations OK Cancel

OK Cancel



## Capella models as Knowledge Base

The screenshot displays the TRC Knowledge Manager application. The top menu bar includes File, Terminology, Conceptual Model, Patterns, Formalization, Inference, Configuration management, Extensibility, Assets store, and Settings. Below the menu is a toolbar with icons for various functions like Import, Export, and Search. The main window is divided into several sections:

- Searching fields:** A search bar with a 'Cluster' dropdown, 'Identifier' and 'km Code' input fields, and a 'Clusters with terms' checkbox.
- Clusters:** A tree view on the left showing a hierarchy of clusters. The '«MODE»' cluster is selected.
- Terms:** A table on the right displaying a list of terms for the selected cluster.

The 'Terms' table contains the following data:

Term	Term Tag	Cluster	Relationship type	Language
1 Seat tv - any other service activated	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
1 Seat tv - audio announcement running	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
1 Seat tv - displaying vod user interface	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
1 Seat tv - end-user service running	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
1 Seat tv - gaming service activated	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
1 Seat tv - home page displayed	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
1 Seat tv - imposed video paused	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
1 Seat tv - imposed video running	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
1 Seat tv - interrupted	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
1 Seat tv - moving-map service activated	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
1 Seat tv - news service activated	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
1 Seat tv - vod movie paused	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
1 Seat tv - vod movie running	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
1 Seat tv - vod paused	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
1 Seat tv - vod playing	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
1 Seat tv - vod service activated	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
1 Software upgrade	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
1 Start up	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
1 Sustaining	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)

At the bottom of the interface, a status bar shows 'Ready' on the left and 'Connected to 'D:\TRC\WEBINARS\2020\20200616 - RAT for Capella\INCOSE Rules for RAT for Capella Webinar.mdb'' on the right.

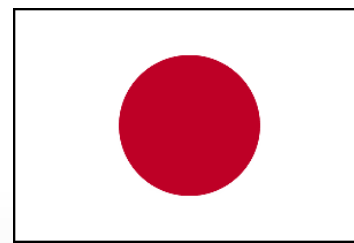
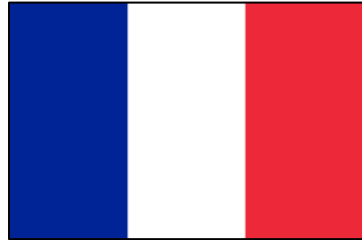
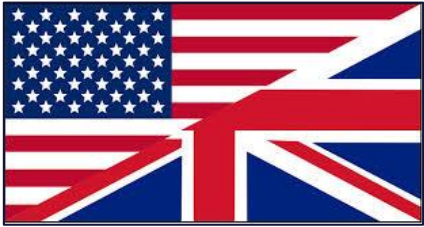


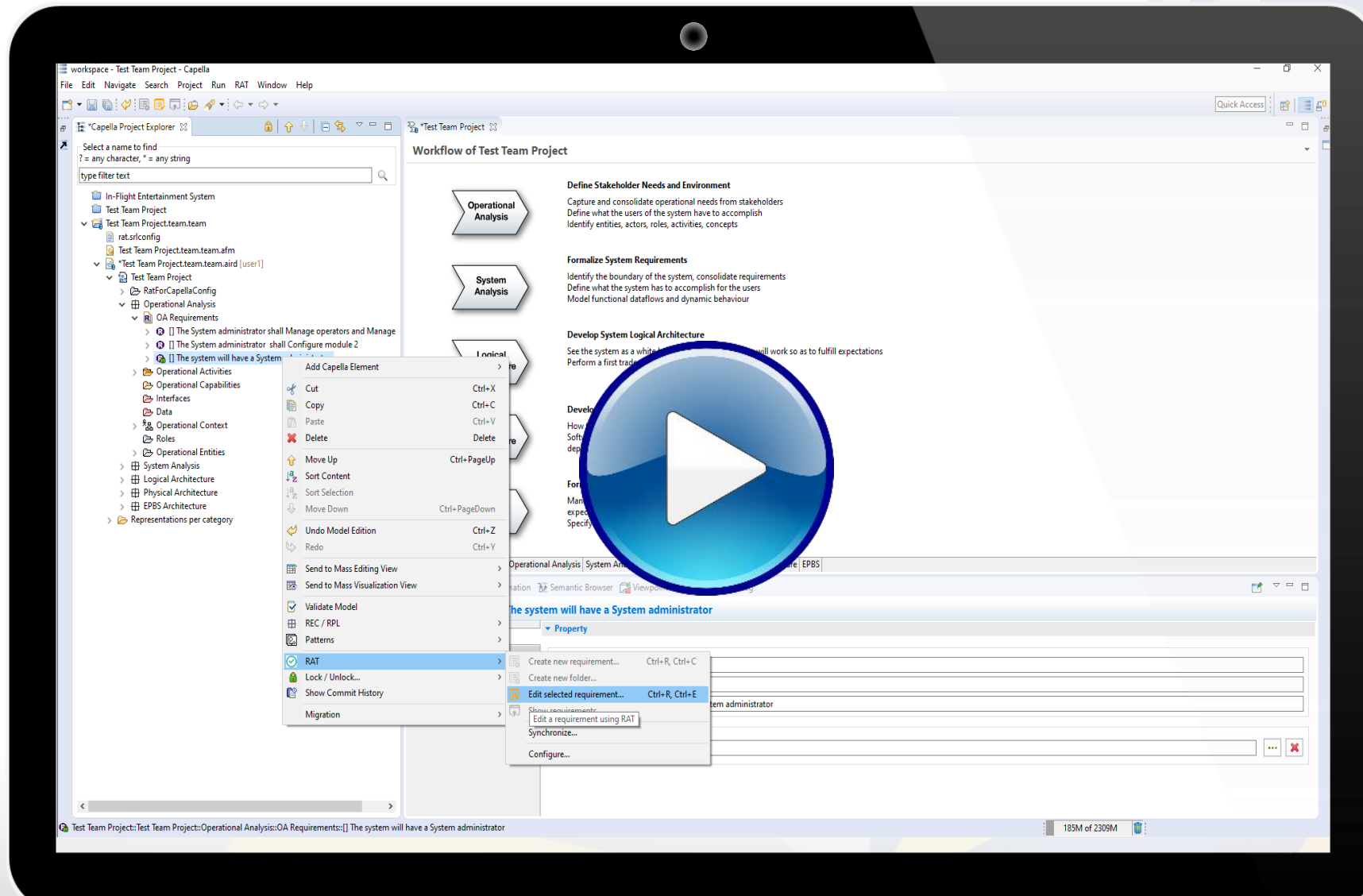
# **RAT for Capella**

## **Live demo**

## The TRC Quality Suite: supported languages

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







## Next webinar

- **A comprehensive guide on tailoring the INCOSE GfWR** (Guide for Writing Requirements)
  - While the guide is a worldwide broadly used and recognized reference for requirement engineers, its implementation still poses many challenges. For example, the fact that requirements can be expressed at different levels of abstraction, the components addressed by those requirements are not equally critical and a requirement document might contain requirements of different types or levels. Additionally, because the guide is extremely complete, the implementation of these rules in a single step turns out to be very complex, especially when considering the different skills of different team members, not to mention the amount of effort for the manual inspection of such a large number of quality rules.
  - This webinar describes a solution for all these challenges, including, among others, the use of a set of tools to automatize some of the most tedious tasks

### Dates:

- June 25th 2020

### Where:

- Only for INCOSE members





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Capella integration with RAT: the Authoring Tools





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