Boosting Requirements Management capabilities in MS Word:

Carrying your requirements everywhere (7/10)

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THE REUSE COMPANY

- Short introduction to The REUSE Company and the presenter
- What is interoperability?
- Use Case #1: Moving your requirements to other tools
  - Live demo
- Use Case #2: Transforming your requirements
  - Live demo
- Q&A

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01

What we DO

The REUSE Company is a tool vendor specialized in the application of semantic technologies and artificial intelligence to improve the digitalization of the Systems Engineering life cycle.

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Ilyes Yousfi

- **Current position:** Senior Key Account Manager at The REUSE Company
- Master's degree from the University of Montreal (Canada) and the IMT Atlantique School of Engineering (France).
- **INCOSE Member** (AEIS – Spanish Chapter)
  - Active member of the **Requirements Working Group**
  - Associate Systems Engineering Professional (ASEP) **Certification**.
- 7 years of experience, technical background in energy and mechanical engineering
- Speak 4 languages fluently: English, French, German and Spanish.

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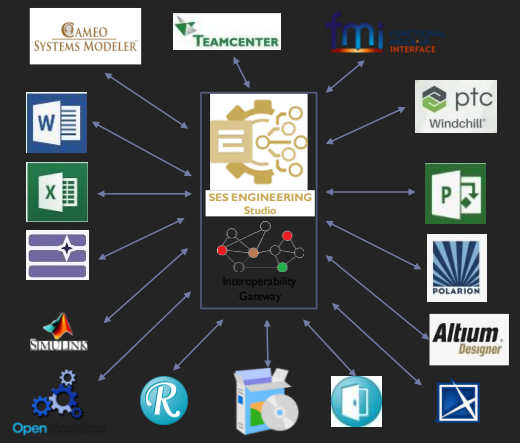


Interoperability

HUB

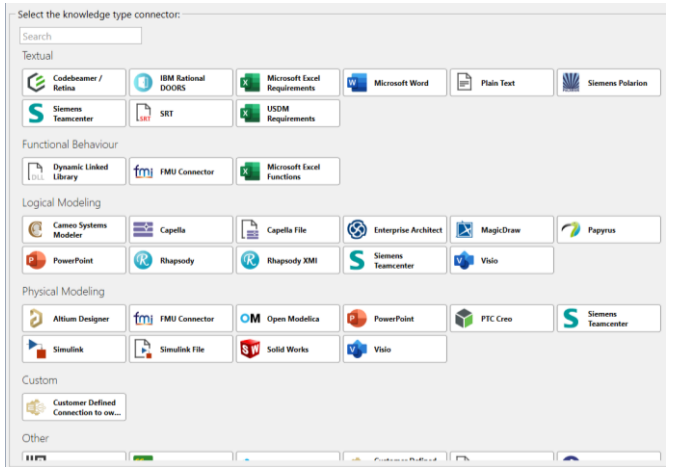
What is interoperability?

INTEROPERABILITY

OPERATIONS **between** **Connections**

- Copy
- Merge
- Duplicate
- Transform / Convert
- ...

- Document
- Module
- SysML Model
- Project
- Database
- ...



...established and stored in the **same Project repository!**

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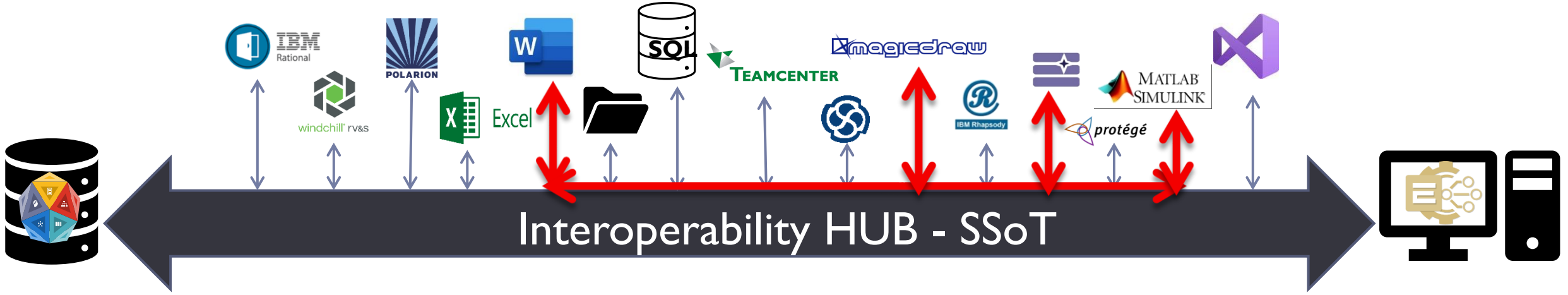
SES ENGINEERING Studio: Interoperability HUB

- SES ENGINEERING Studio has implemented the notion of ***Interoperability hub (SSoT – Synchronized Source of Truth)***:
  - No one-to-one connections: every source is connected to the hub
  - Source tools from many different disciplines: RMS, MBSE, PLM, ALM, MS Office, PDFs, DBMS
  - No *wipe-out* approach at all, those sources remain the ***Authoritative Source of Truth (ASoT)***
  - Changes in source are notified in SES ENGINEERING Studio and give rise to the notion of **suspect links**
  - Removed elements in the source are also shown, and enable alerts in traces
  - Changes in the SES ENGINEERING Studio are persisted in the corresponding source tool (*ASoT*)



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1

Copying/Moving Workproducts

No change of metamodel between source and target
Just moving among different tools

2

Transforming workproducts

Change of metamodel between source and target workproducts
Textual requirements to models, SysML to Capella …

3

Binding workproducts

Changes in one workproduct triggering changes to target workproducts

NEXT EPISODE!

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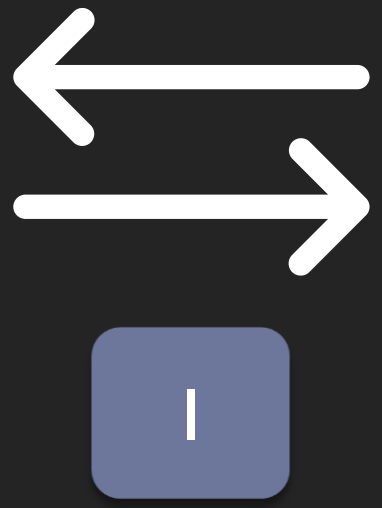

Copying / Moving

Workproducts

Use Case #1: Copy / Move work products to an other repository

- From MS Word to a DOORS Project, with changes and roundtrip to MS Word.
- From MS Word to Capella + linking with model elements.

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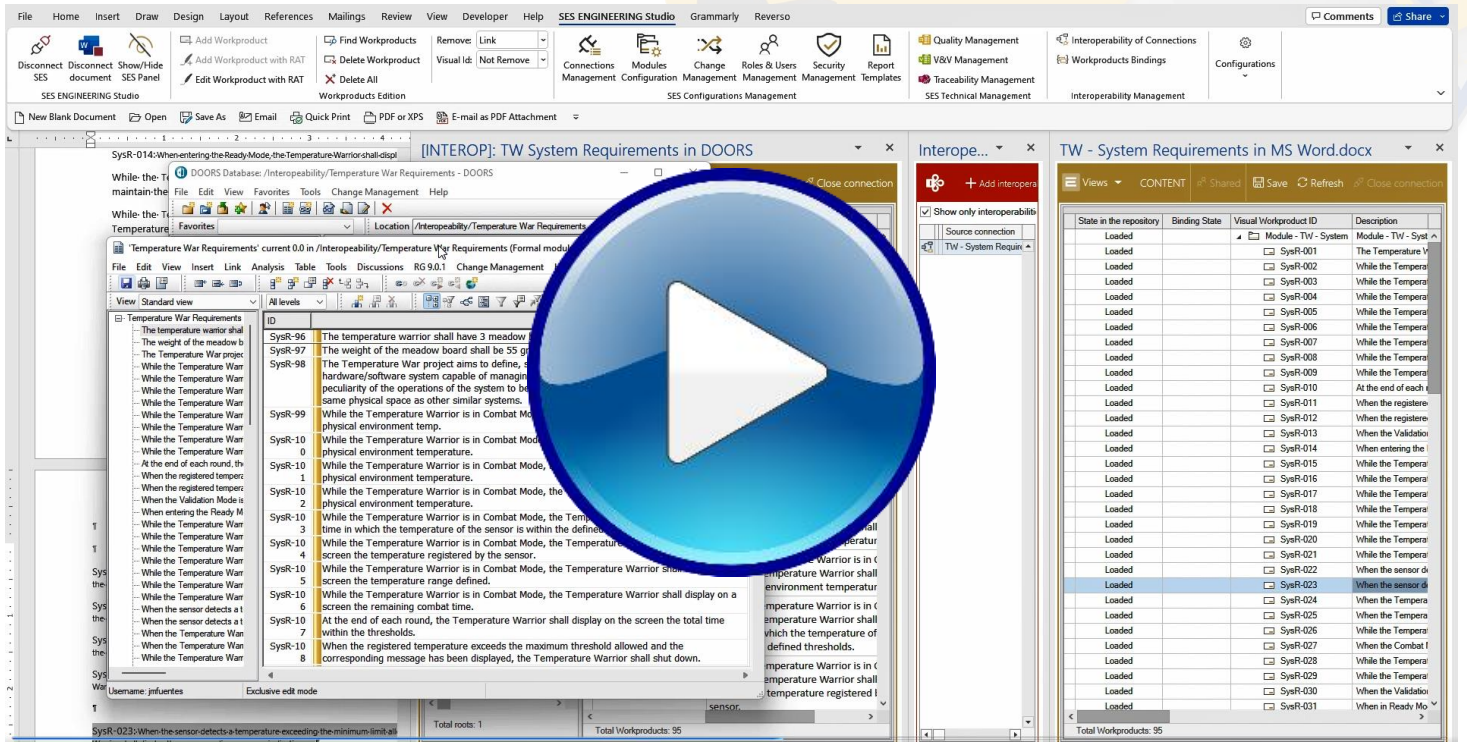
Use Case #1: Copy / Move work products to an other repository (DOORS)

Steps:

1. Open the SES ENGINEERING Studio MS-Word Add-in
2. Connect to a **DOORS** module
3. Map attributes between both sources
4. Perform the copy and show results



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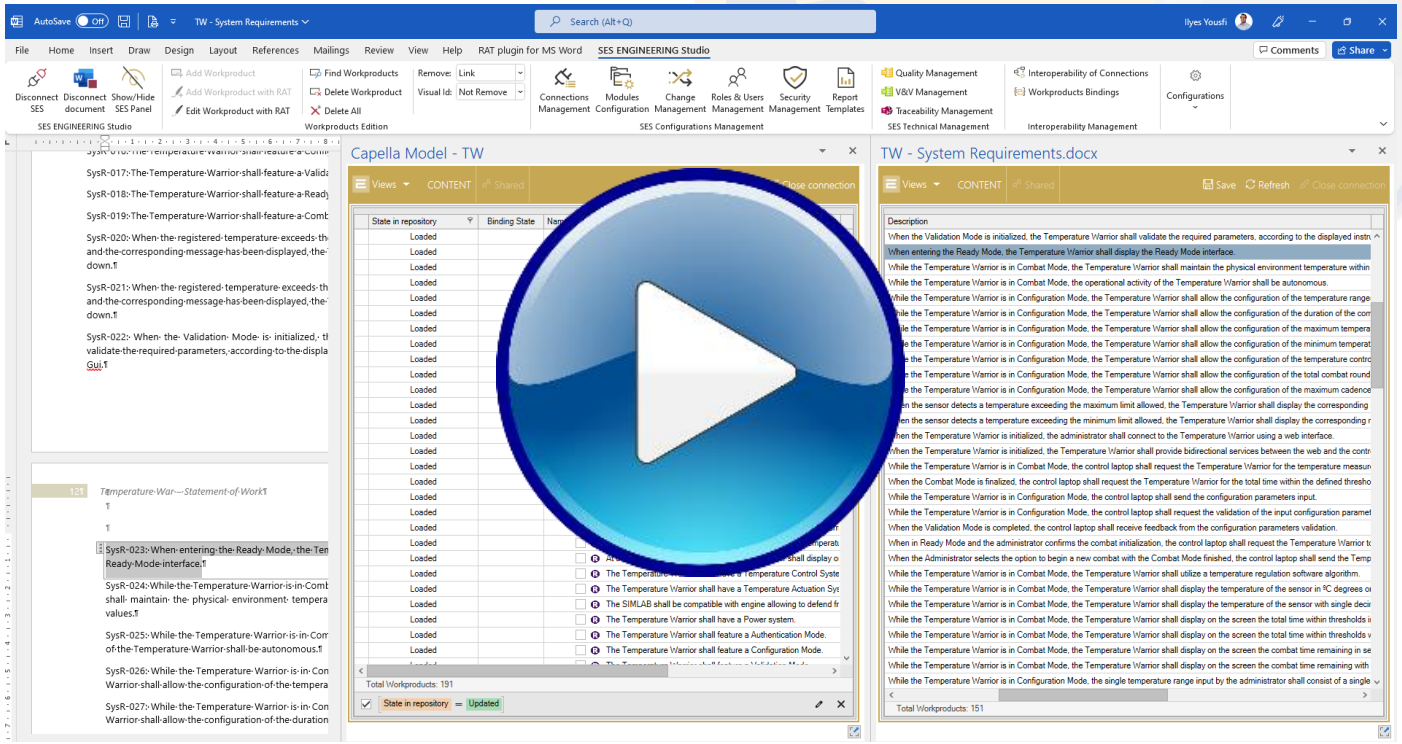
Use Case #1: Copy / Move work products to an other repository (Capella)

Steps:

5. Connect to a **Capella** model
6. Copy requirements
7. Use *RAT – AUTHORING Tool* to automatically link the requirements to the model
8. Save the **Capella** Model



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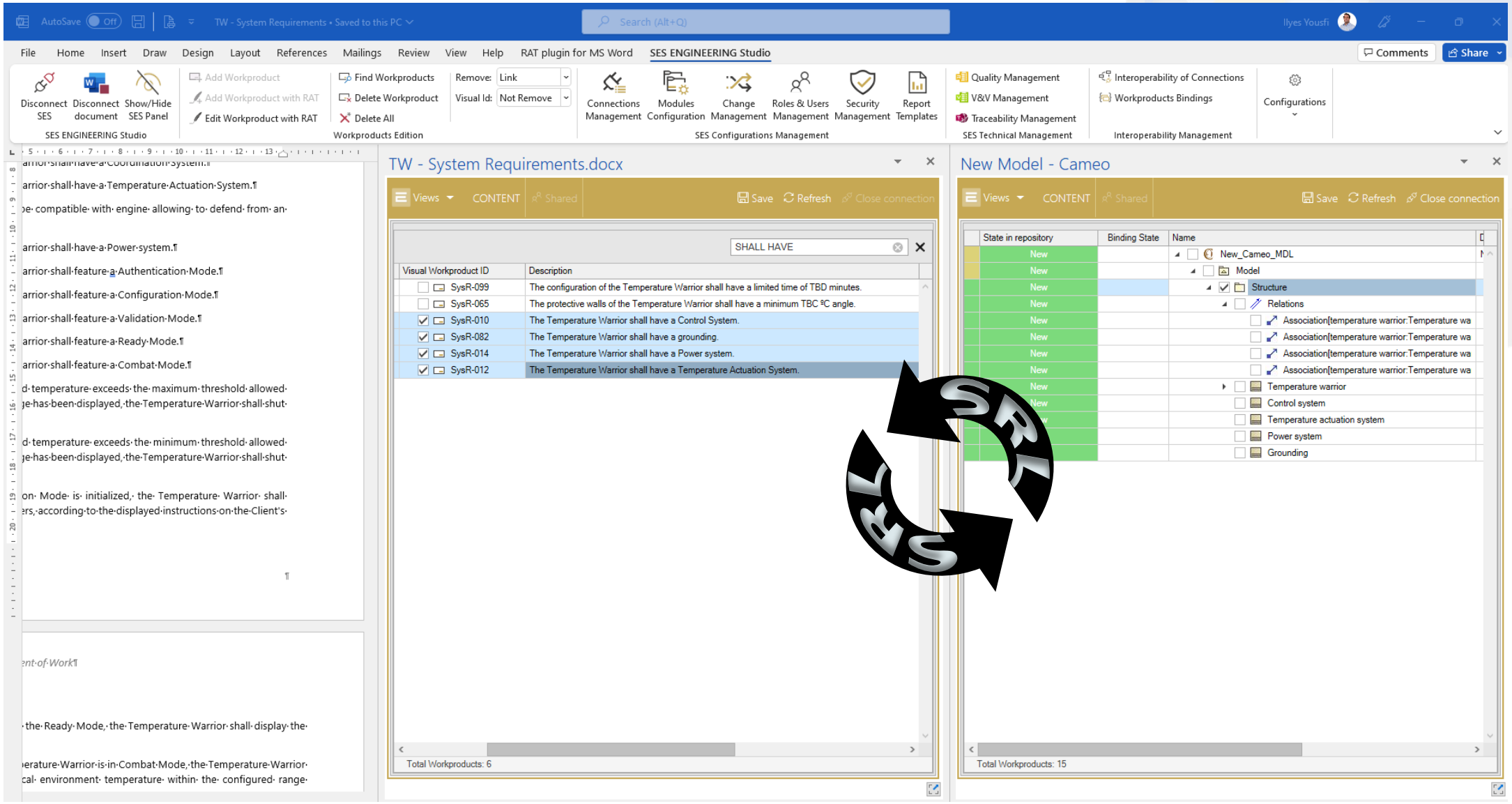
2

Transforming Workproducts

Use Case #2: Generate SysML content from textual requirements

- Textual requirements in Word are converted into SysML relationships



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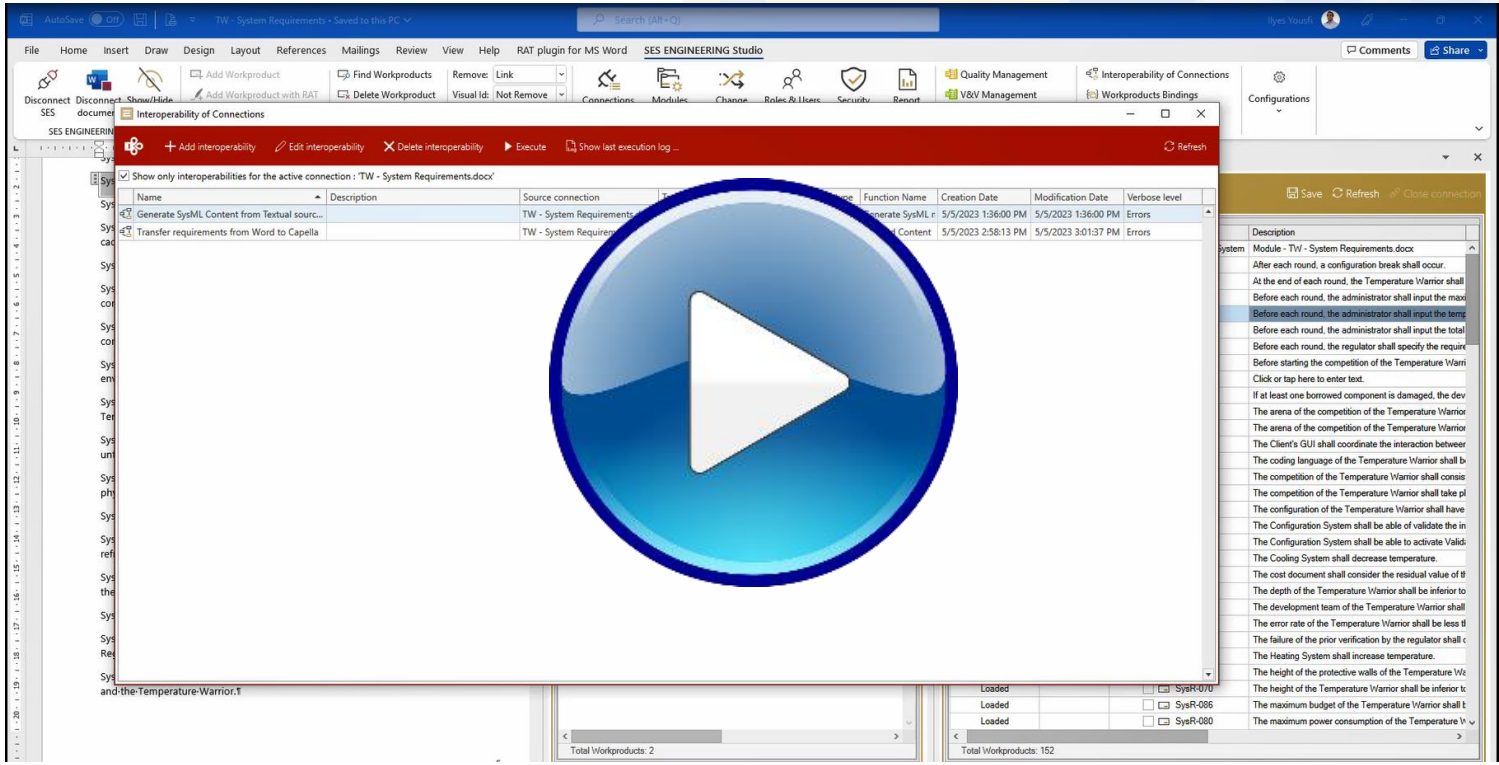
Use Case #2: Generate SysML content from textual requirements

Demo steps:

1. Open the SES ENGINEERING Studio MS-Word Add-in
2. Connect to a Cameo Model
3. Run the transformation interoperability
4. Check the content in the engineering view (from Word)
5. Save the content in both sources (the Hub and the model)
6. Check the generated content in the model



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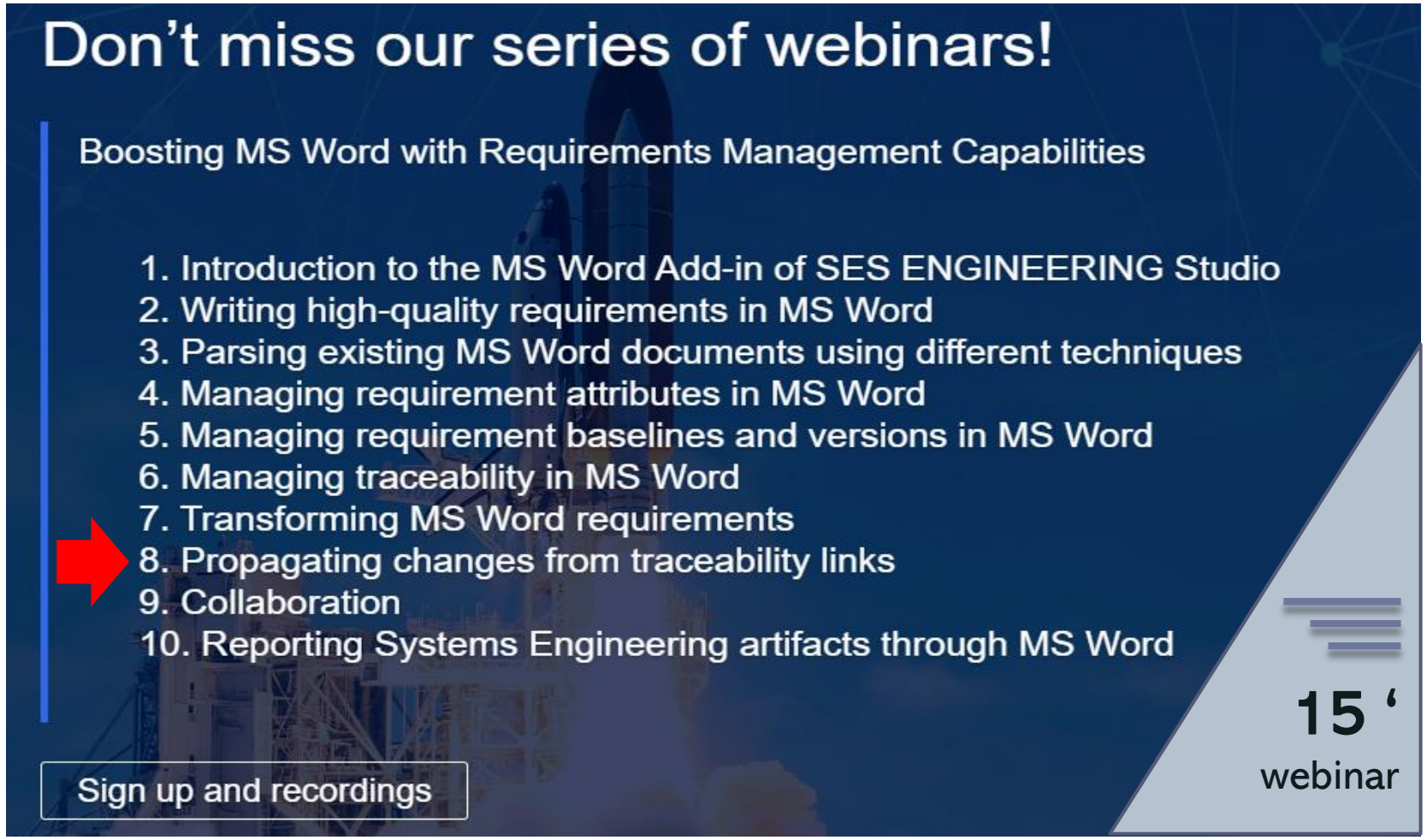
Q&A



Episode 8. Propagating changes from traceability links.

This chapter will be focused on the application of a core technique to **preserve consistency** across the board by allowing the choice to **propagate automatically** the desired changes between elements that are traced..

Dates:

Tuesday, May 23rd, 2023, 5:00 PM CET (Madrid)/ 8:00 AM PST (Los Angeles)/ 11:00 AM EST (Detroit)
Thursday, May 25th, 2023, 9:00 AM CET (Madrid)/ 4:00 PM JST (Tokyo)/ 5:00 PM AEDT (Sydney)

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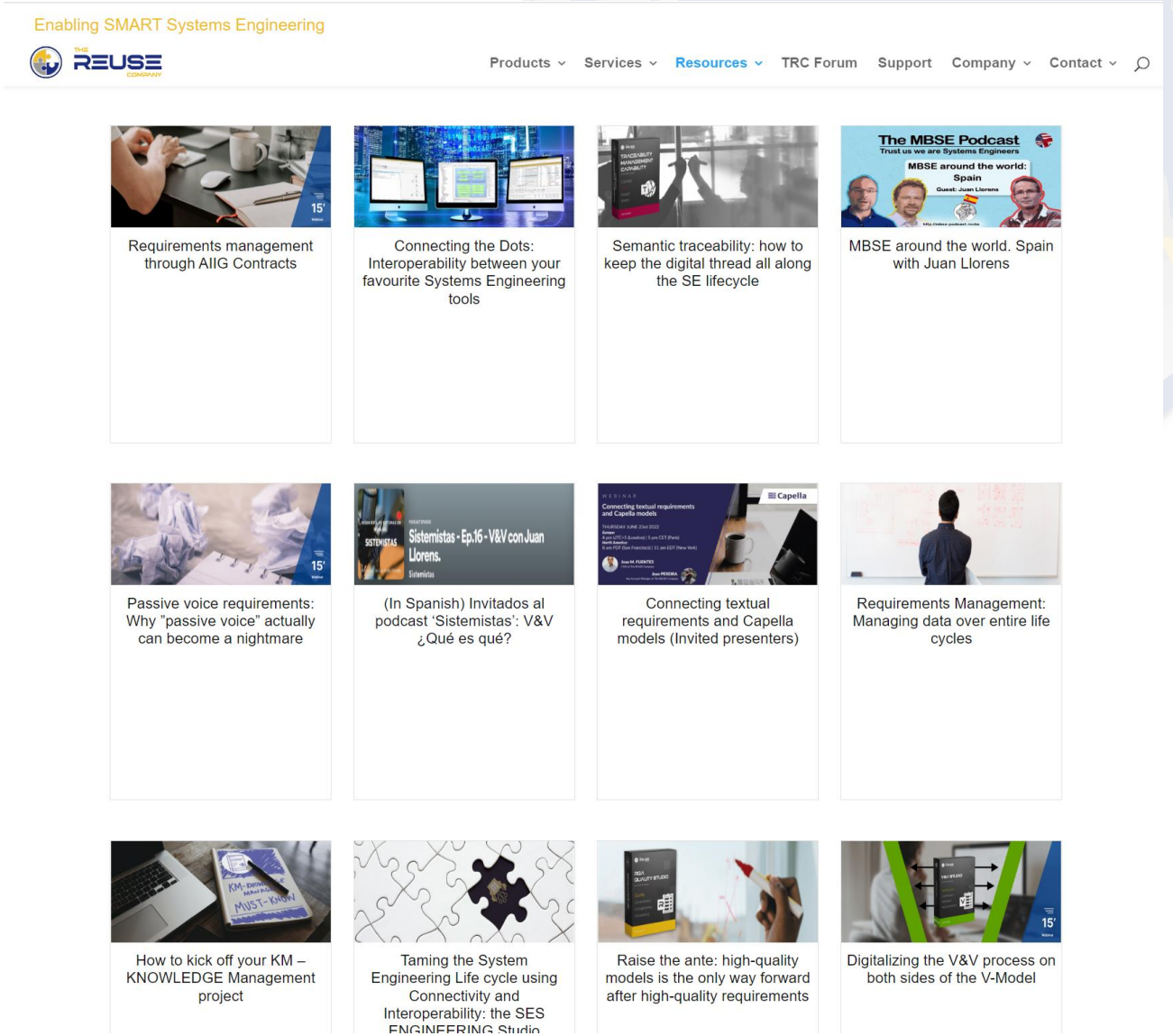
- www.reusecompany.com
  - Resources -> Webinars (15' and 1hr)
  - Services
  - Support Forum



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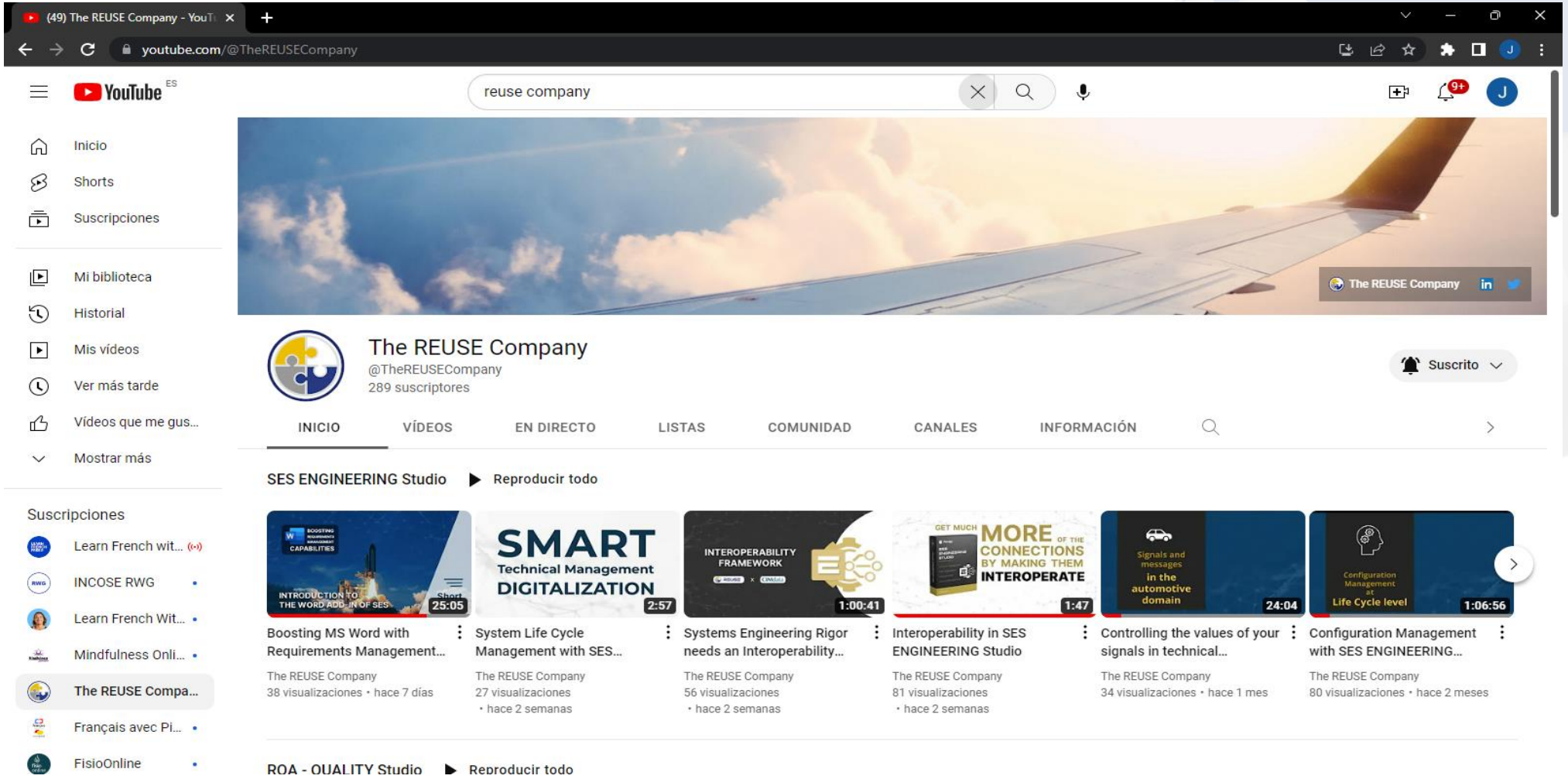

The REUSE Company on YouTube:

https://www.youtube.com/user/TheREUSECompany

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Contact Information

Thank you for your attention!

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