- **Webinar rules:**
  - You'll be muted all along the Webinar
  - There's a *Question* section to ask your questions or send your comments whenever you want
  - The Webinar will be recorded. A link to the recording will be sent to you in few days

Boosting Requirements Management capabilities in MS Word:

Writing high-quality requirements in MS Word

José M. Fuentes
The REUSE Company
Chief Operating Officer
jose.fuentes@reusecompany.com

THE REUSE COMPANY

- Introduction to The REUSE Company and the speaker
- Frameworks and guidelines for requirements quality rules
- The notion of requirement patterns
- Live demo
- Q&A

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:
Boston (USA)
Stockholm (Sweden)
Tokyo (Japan)
Delegation

04 Specialized in the application of **semantic technologies** and **artificial intelligence** to improve the **digitalization** of the **Systems Engineering life cycle** (**SysLCM**).

- **The Systems ENGINEERING Suite:**
  - RQA – QUALITY Studio
  - RAT – AUTHORING Tool
  - TRACEABILITY Studio
  - V&V Studio
  - KM – Knowledge Manager

- SES ENGINEERING Studio
- SES ENGINEERING Studio add-in for MS Word

José Fuentes

- **Current Position:** Chief Sales Manager of The REUSE Company
- Former Product Manager of RQA and the Systems Engineering Suite
- 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 to Writing Requirements
- Other certifications: ITIL
- Other interests: Project Management, Business Analysis, Risk Management

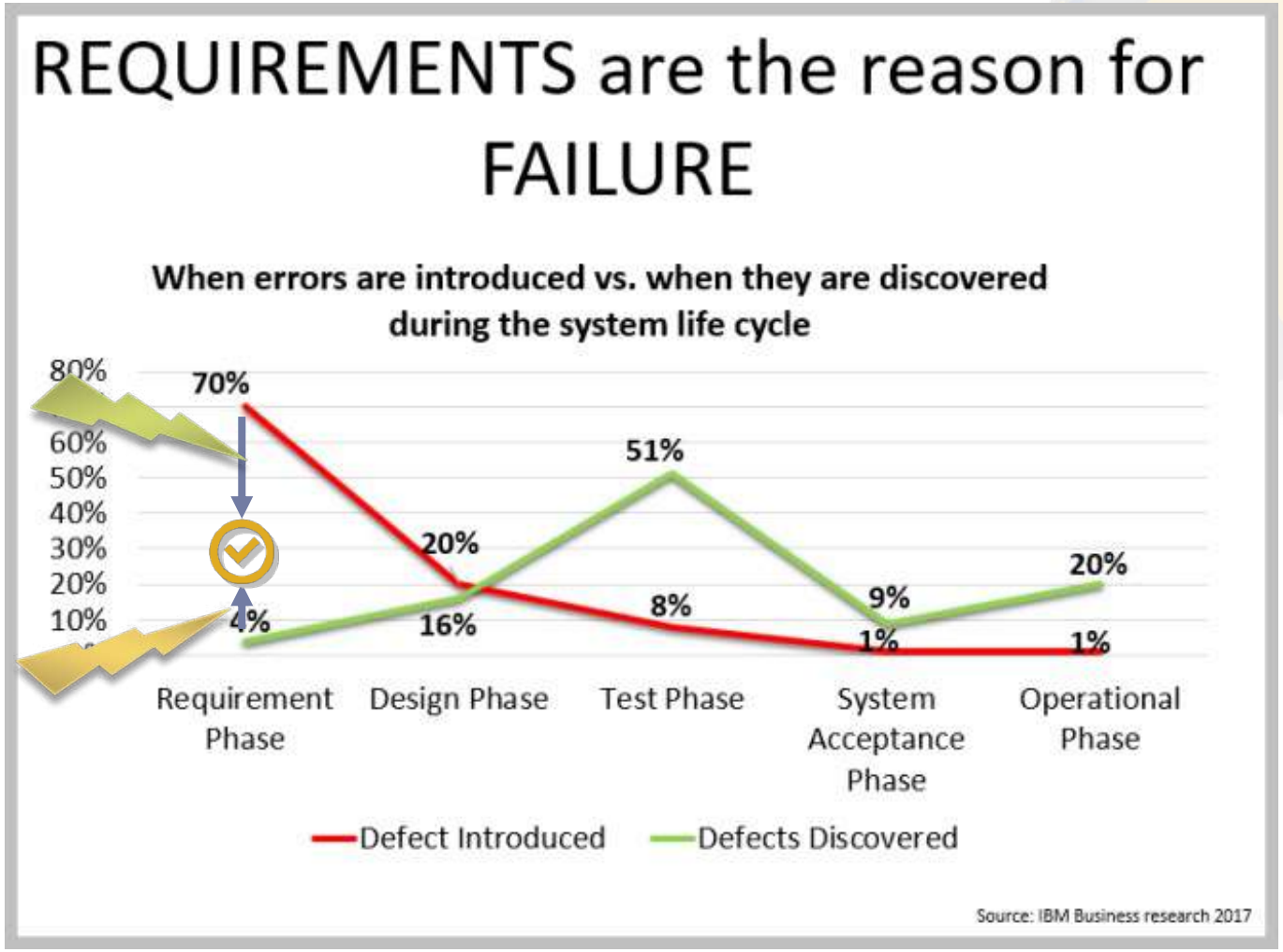
Frameworks and guidelines

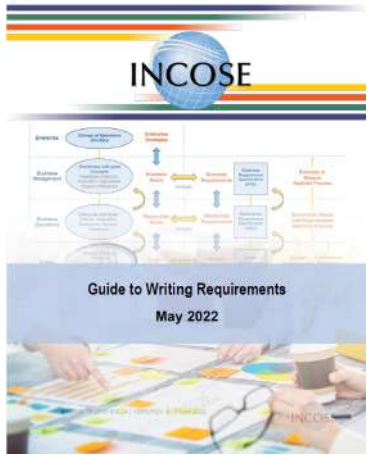
of quality for requirements

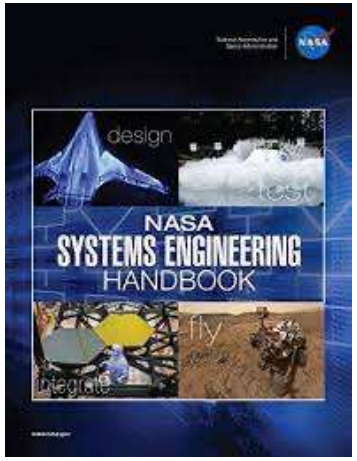
Why are these frameworks needed?

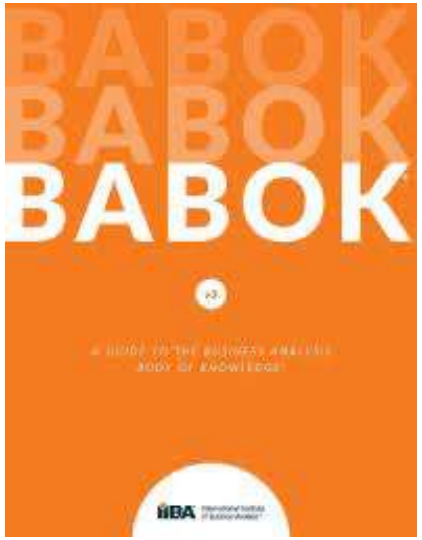
Authoring with a tailored set of rules

Inspection with a tailored set of rules

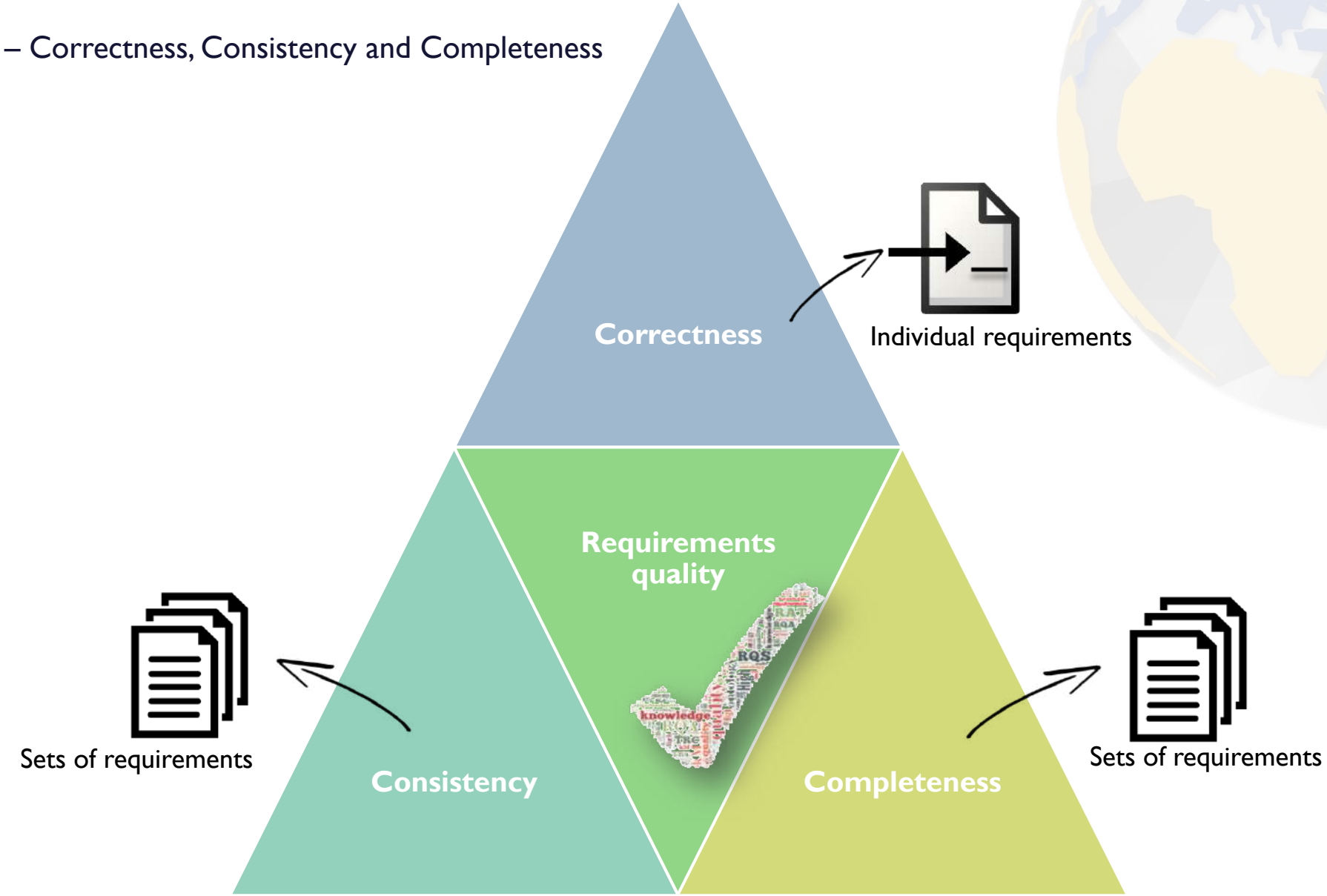








- CCC – Correctness, Consistency and Completeness



When writing textual requirements, why is it more difficult to choose the correct numbers than to choose the correct words?

How to generate a quality report of your requirements based on the INCOSE guidelines

(In Spanish) Podcast Sistemistas – Calidad de requisitos, con José Fuentes

Completeness: tips and tricks for high-quality specifications

Why CHALLENGING the COSE Consistency Metrics t benefit your requirements

Improve the quality of your requirements using advanced Correctness metrics in RQA – QUALITY Studio

From zero to hero: The Temperature War

Tailoring and Deployment of SE Suite in F4E

Optimization of the equirements Engineering

Requirements Quality for Beginners

RAT for Capella – The perfect way for working with both

SMART Traceability: the core of a successful systems

Active poll 0

Join at
slido.com
#8019 632

I normally follow the requirements writing rules as described in:

INCOSE Guide to Writing Requirements
0%

ECSS/ESA
0%

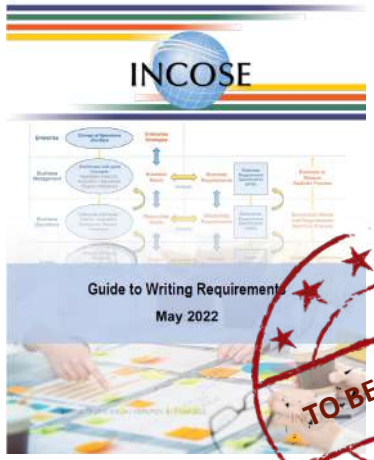
NASA - Systems Engineering Handbook
0%

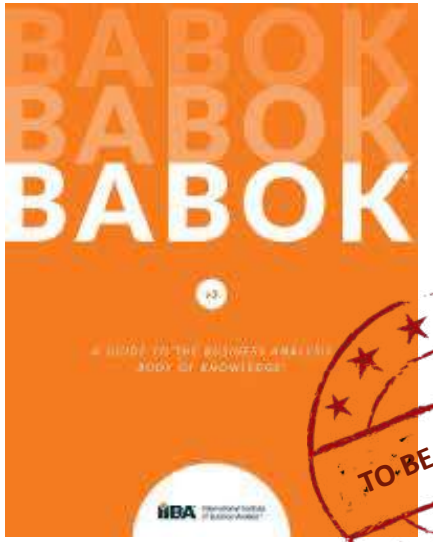
SOPHIST
0%

IEEE 830
0%

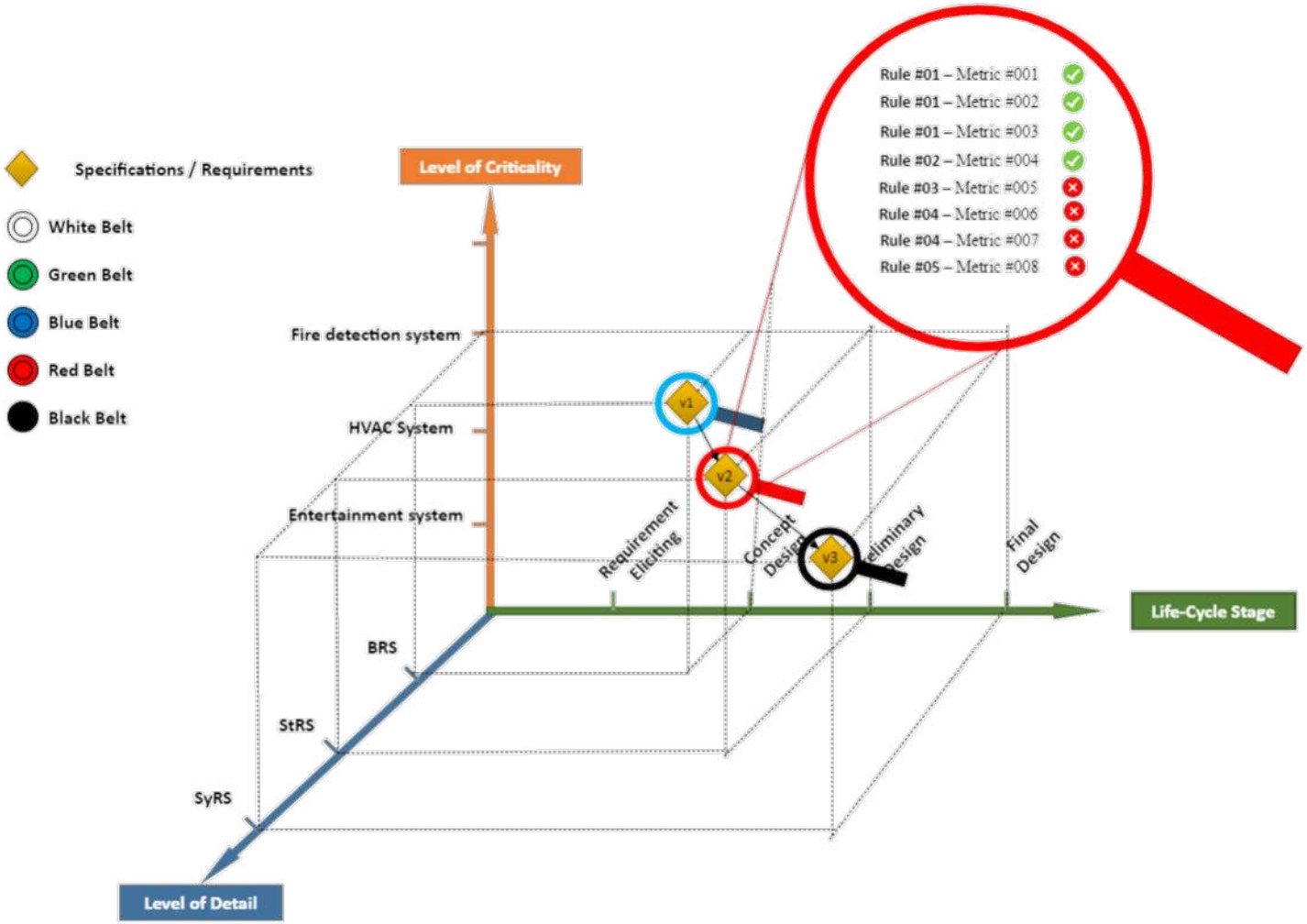
ISO 29148

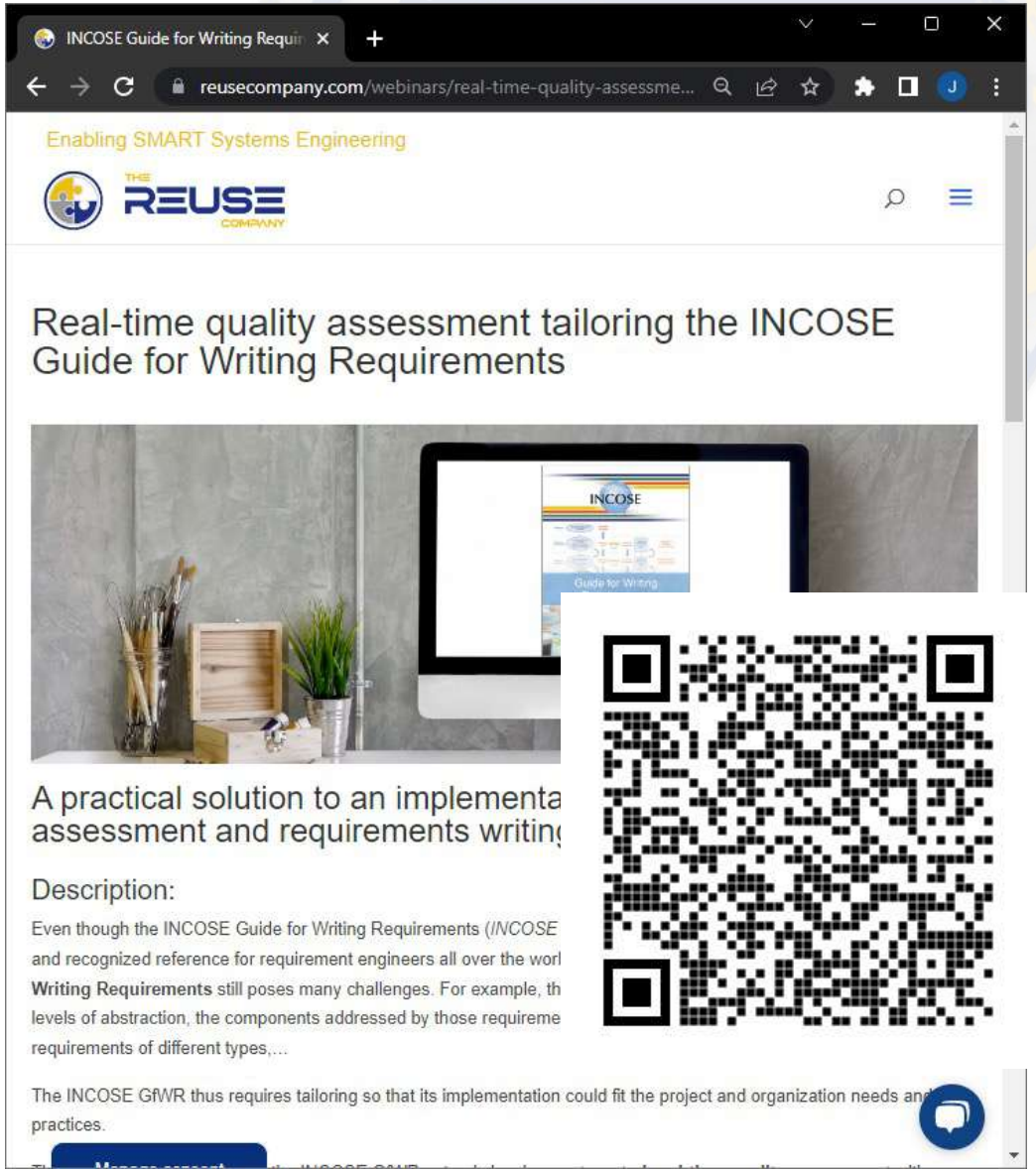
Frameworks and guidelines of quality for requirements





The 3-dimensional tailoring space





Active poll 0

Which is the most challenging rule to cover in your requirements?

Join at

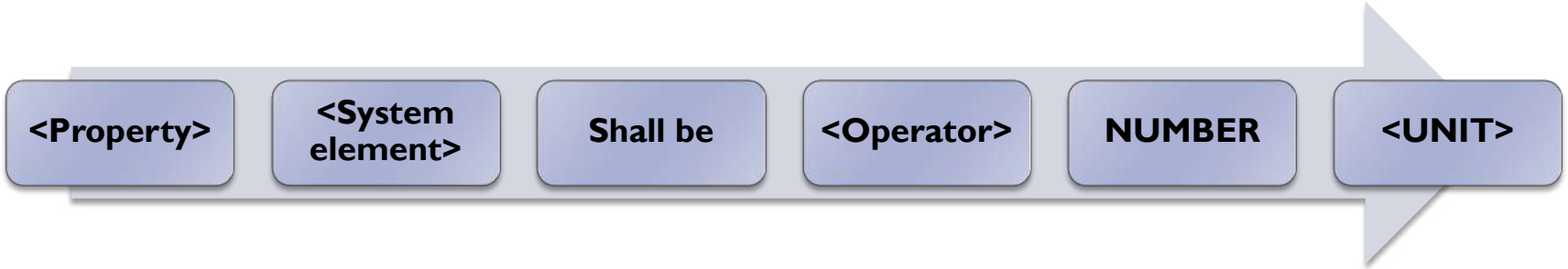
slido.com

#8019 632

Patterns for writing requirements

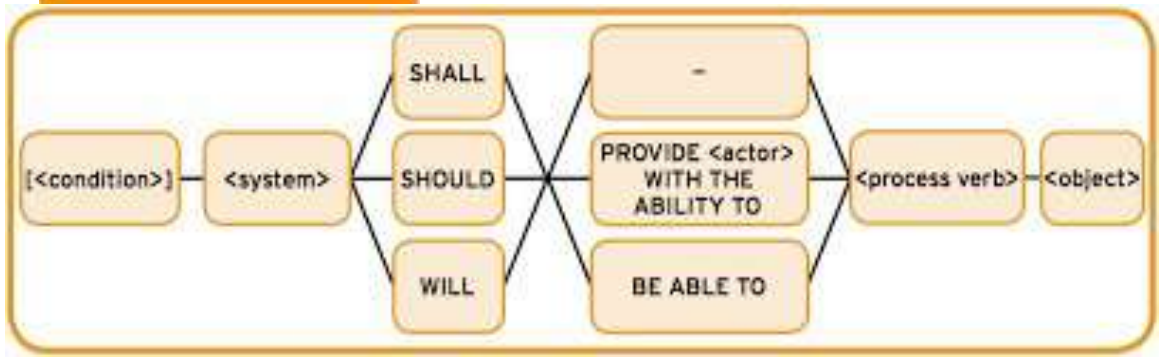
- When the heater enters warm-up mode, the display shall show an orange led in less than 0,5 s.

  - The weight of the heads-up display shall be less than 700 gr.



EARS

Pattern name	Pattern
Ubiquitous	The <system or actor> shall <action> <object>
Event-Driven	WHEN <trigger> <optional precondition> the <system or actor> shall <action> <object>
State-Driven	WHILE <system state or actor state>, the <system or actor> shall <action> <object>
Unwanted Behavior	IF <unwanted state or unwanted event>, THEN the <system or actor> shall <action> <object>
Optional Feature	WHERE <feature is included>, the <system or actor> shall <action> <object>
Compound	Combinations of the previous patterns



Active poll 0

Join at
slido.com
#8019 632

I normally write requirements following this pattern/boilerplate/template:

EARS - Easy Approach to Requirements Syntax
0%

SOPHIST
0%

ISO 29148
0%

PABRE Catalog
0%

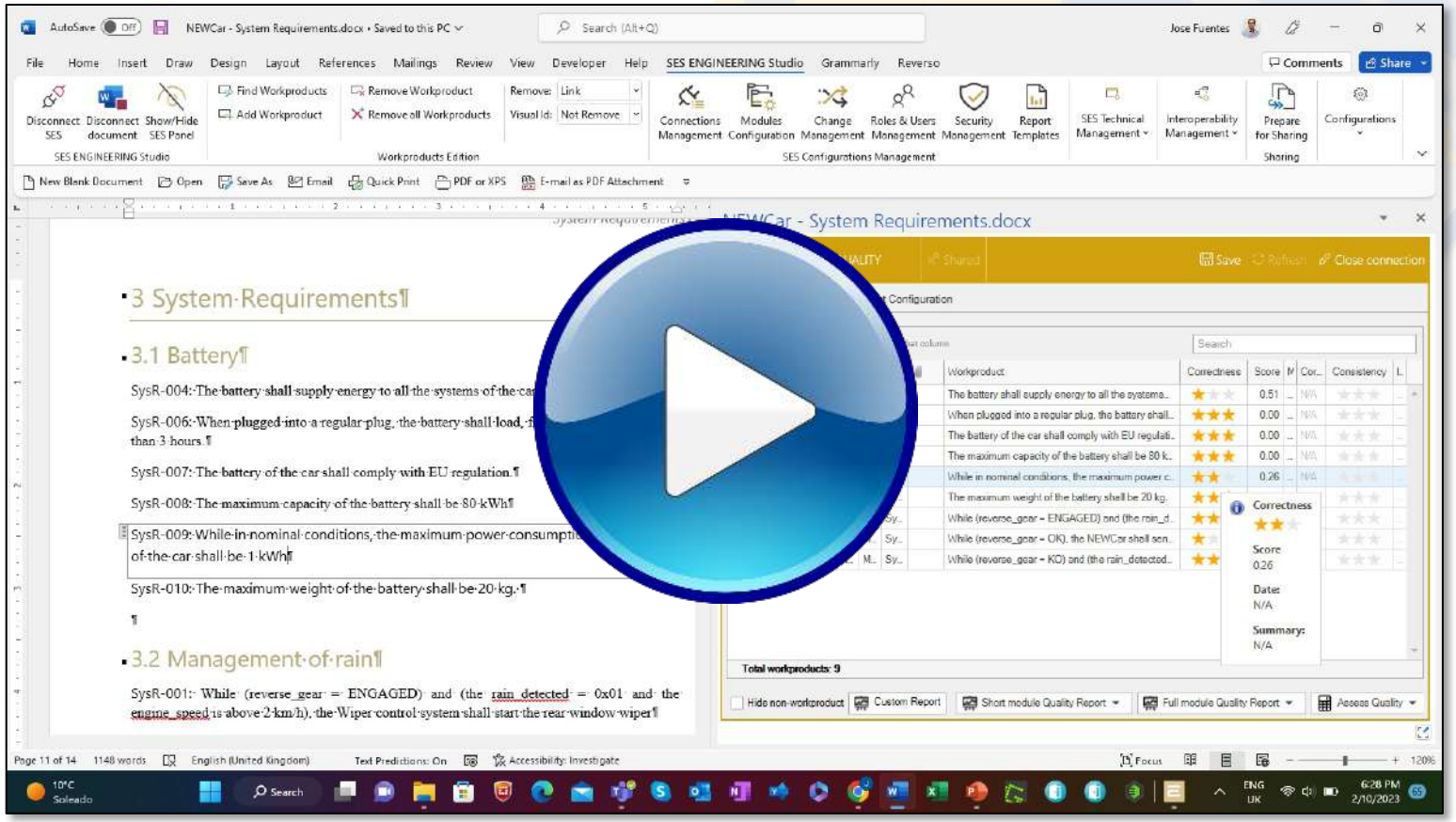
Others...
0%

Demonstration

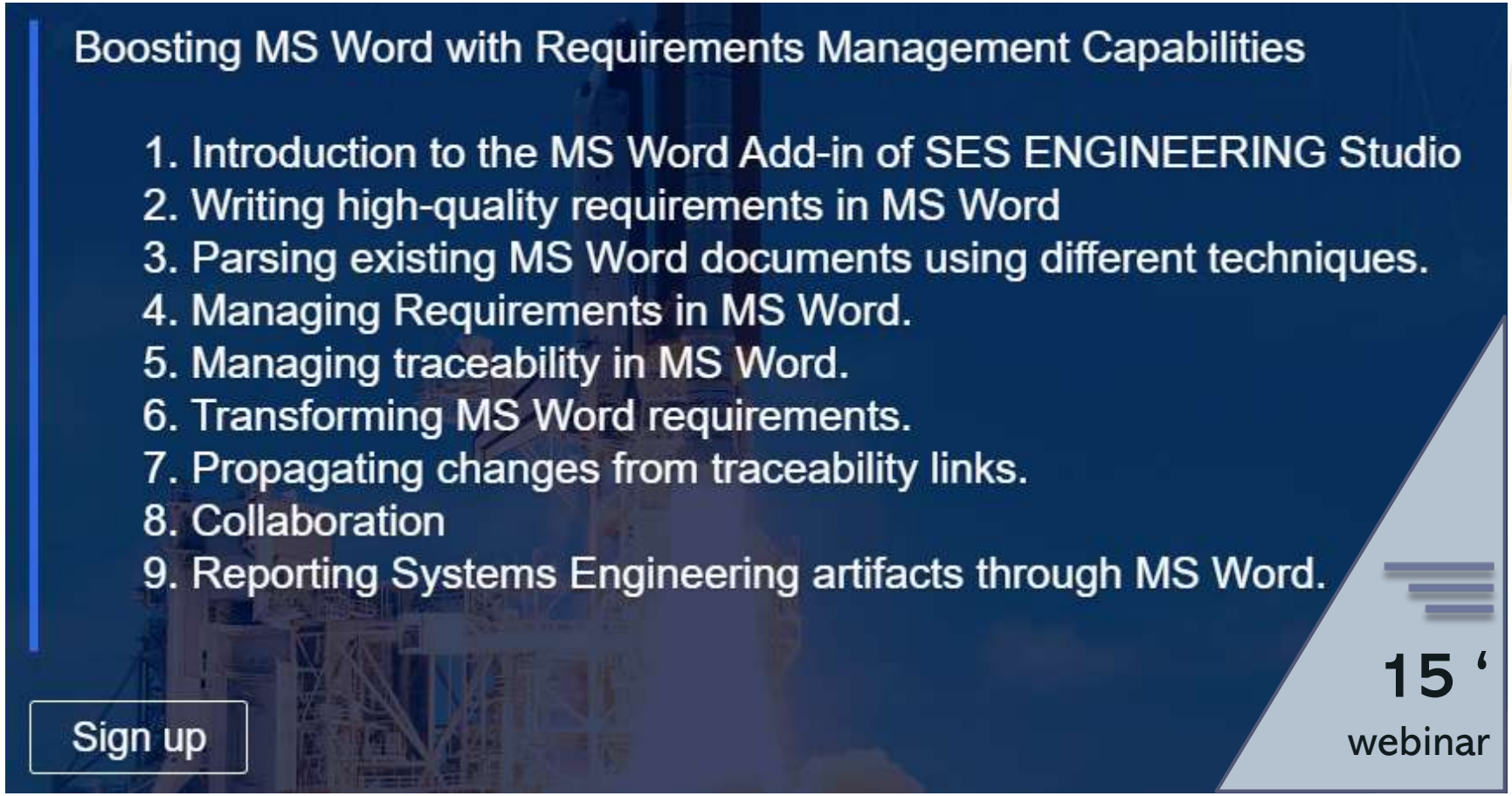
Demo

Steps:

1. Open MS-Word
2. Connect to your ontology
3. Choose a catalogue of patterns
4. Use the authoring tool to correct a requirement
5. Use the authoring tool to follow a pattern
6. Assess the overall quality of the document




Q&A



Episode 3. Parsing existing MS Word documents

In some cases, the requirements are created by an external party, and you are given the document (MS Word or PDF) to be integrated with other engineering artefacts. In this episode we will show how an existing document can be automatically parsed to delimit the different requirements and provide a unique identifier so that all the technical management capabilities can also be applied to those external documents.

Date:

Tuesday, February 28, 2023, 5:00 PM CET (Madrid)/ 5:00 PM JST (Tokyo)/ 7:00 PM AEDT (Sydney)
Thursday, March 2, 2023, 9:00 PM CET (Madrid)/ 8:00 AM PST (Los Angeles)/11:00 AM EST (Detroit)


Q&A

Contact information

THE REUSE COMPANY

José M. Fuentes

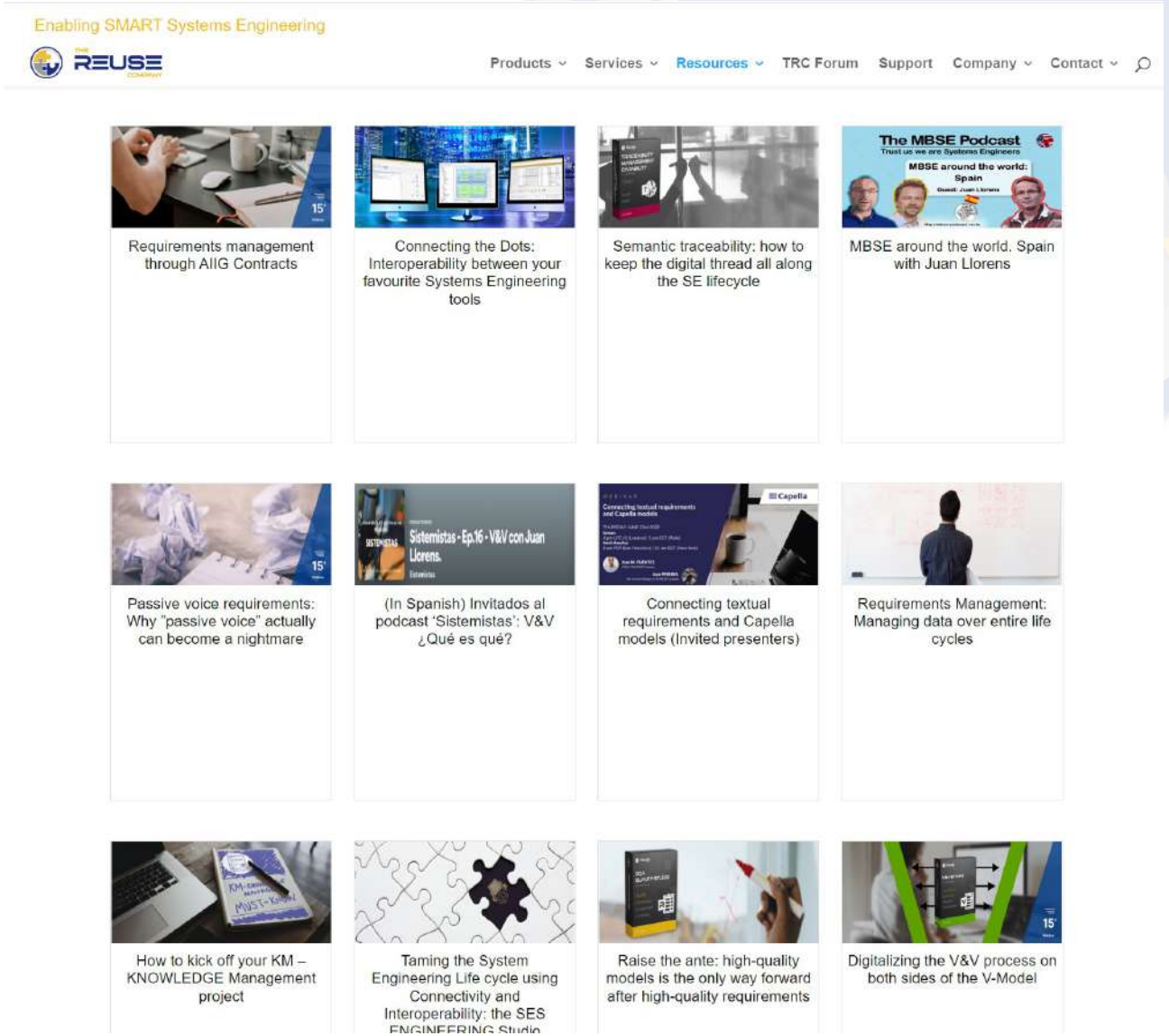
jose.fuentes@reusecompany.com

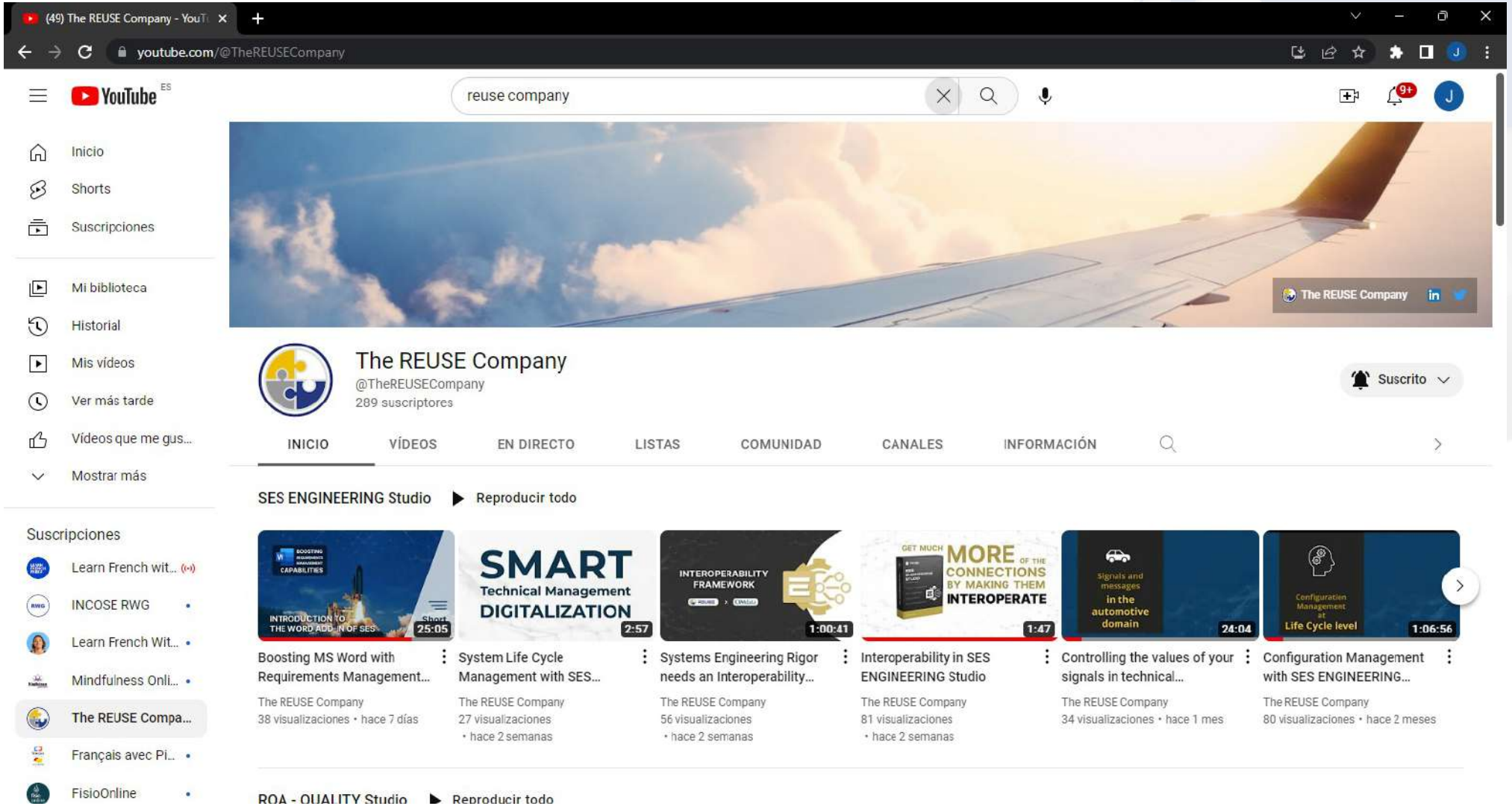
+34 912 17 25 96

@ReuseCompany

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

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





The REUSE Company in YouTube: https://www.youtube.com/user/TheREUSECompany

THE REUSE COMPANY