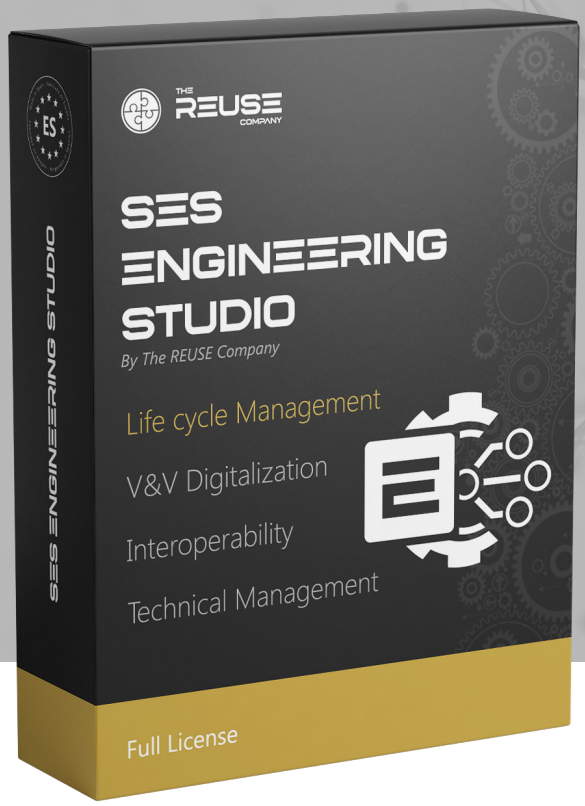
SES ENGINEERING STUDIO



A SMARTER WAY TO DIGITALIZE YOUR SYSTEMS ENGINEERING

MAIN FEATURES

Systems Engineering Life cycle Management (SELM) Digitalization.

Universal Connectivity and Semantic Interoperability

MBSE Integration by Connectivity technology

MBRE: Fully integration of Requirements and NL texts in the MBSE wave.

Semantic Analysis: Natural Language Processing and Ontologies applied to Systems Engineering.

Text authoring and assistance for technical writers: SMART quality analysis, V&V, traceability, configuration management, decision management, knowledge management, life cycle management: (Empowered by AI)

Interoperability Hub & Synchronized Source of Truth (SSoT)

ENG RQA V&V RAT TRA KM

TEST YOURSELF

If you answer YES to at least one of the following questions, we have the solution for you:

Do you have to deal with a large and heterogeneous ecosystem of Systems Engineering software tools for developing your products?

Would you like to smoothly reuse and evolve the skills and experience of your engineers avoiding huge investements for learning new tools?

Would you like to manage the life cycle of your product/project by connecting in a workflow the SE tools you already have?

Would you like to provide Technical Management Support (quality, CM, Traceability, V&V, etc.) to any output (requirements, logical models, physical models, manuals, test cases, etc.) from your current ecosystem of SE tools?

Would you like your ecosystem of SE tools to be transformed into a Smart Systems Engineering framework? (SELM + Authoring + Ontologies + AI, etc.)

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TAMING YOUR ECOSYSTEM OF HETEROGENEOUS SE TOOLS

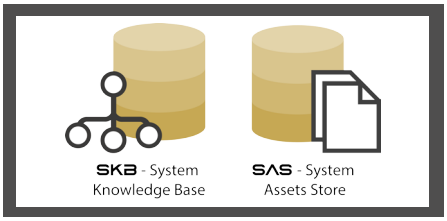
SES ENGINEERING Studio is a software tool designed to orchestrate the development of all kinds of systems (hardware, hybrid, software). It allows interoperability between an unlimited number of existing Systems Engineering tools (Requirements Management Systems, MBSE tools, Simulation tools, Risks Management, RAMS Management, MS Office, etc.).

For example, you can edit your requirements from IBM DOORS, connect them with Atlassian Jira, change your models in Dassault Systèmes CAMEO based on simulations in Modelica, generate models in Capella from requirements in Siemens Teamcenter or convert Microsoft Word into a professional Requirements Engineering tool.

CENTRAL REPOSITORY FOR MANAGING CONFIGURATIONS, VERSIONS, TRACES, QUALITY, ETC

Even if the selected SE tools at your side take care of their own information (IBM DOORS, DS Cameo, Thales Capella, etc..) it is usually necessary to integrate them all, control changes or define versions for the different work products (requirements, model elements, diagrams, circuits, etc.), trace among them, define configurations, manage their risks, evaluate their quality, etc.

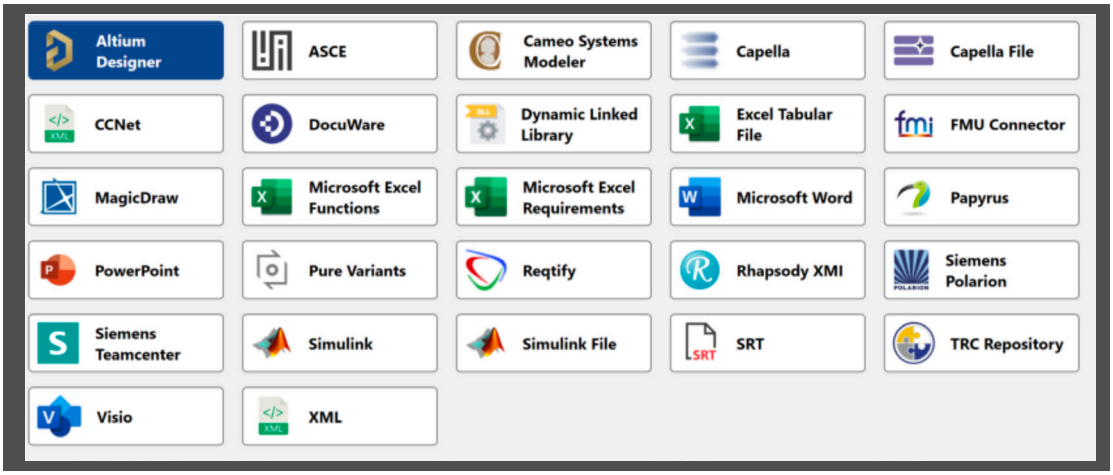
SES ENGINEERING Studio takes care of all these needs managing this information in its central repository.



INTEROPERABILITY WITHIN THE ECOSYSTEM OF SE TOOLS

Usually, every SE tool is proficient in managing the information it has been designed to work with. For example, a Requirements Management System (RMS) is best suited to manage requirements. But, when you want to transform or operate with the work products of a SE tool to produce, affect or connect with the work products of another tool, real interoperability problems arise.
SES ENGINEERING Studio offers you a framework for defining your own interoperability transformations & operations, tailored to your own needs.

Do you want to generate test cases from requirements? Would you like to connect models with functions in Microsoft Excel for simulation purposes? Would you like to automatically discover traces between the customer documents and the user manuals of your products? All those challenges and many more can be defined and configured in **SES ENGINEERING Studio.**



Would you like to smoothly reuse and evolve the skills and experience of your engineers avoiding huge investements for learning new tools?

REUSING SKILLS AND CAPABILITIES

By enabling the organization and structuring of the SE tools ecosystem within an organization into a **Life cycle Manager**, you will be able to **reuse** knowledge skills and company investments.

By integrating the SE tools into modern & consolidated product development capabilities, your company will make more efficient use of the tools.

EVOLVING SE TOOLS AND SKILLS WHEN NECESSARY AND IN A SMOOTHLY

You can seamlessly plan the replacement of a SE tool by a more modern or adaptable one WITHOUT losing the information produced and allowing maturity grow with MINIMUM investments.

Would you like to manage the life cycle of your product/ project by connecting in a workflow the SE tools you already have?

CREATING LIFECYCLE TEMPLATES

According to the ISO 15288 Standard, a specific Life cycle Management process must be considered when developing a project. **SES ENGINEERING Studio** has been designed to enable the creation and instantiation of life cycle templates. Using these, allows the organization of knowledge regarding the different stages and dependencies all engineers must follow in order to assure a successful product development.

A template is defined by connecting to SE tools, establishing dependencies between them, creating folders to orgnaize them and configuring decision gates to manage the flow between them.

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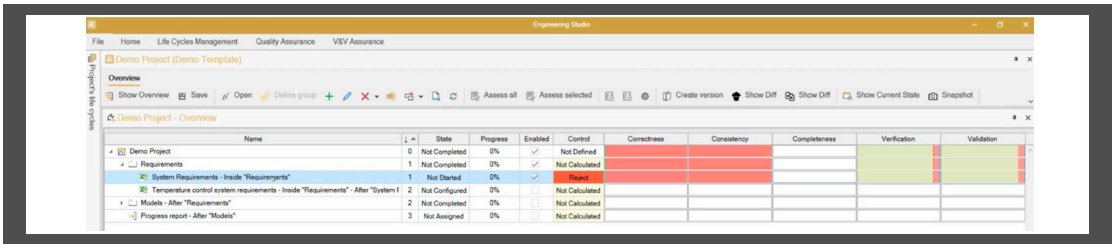
MANAGING PROJECTS USING A WORKFLOW OF SE TOOLS OUTPUTS

By instantiating templates, the corresponding engineering team can define the actual project structure to be followed reusing previous experiences. It is a wonderful example of KNOWLEDGE REUSE.

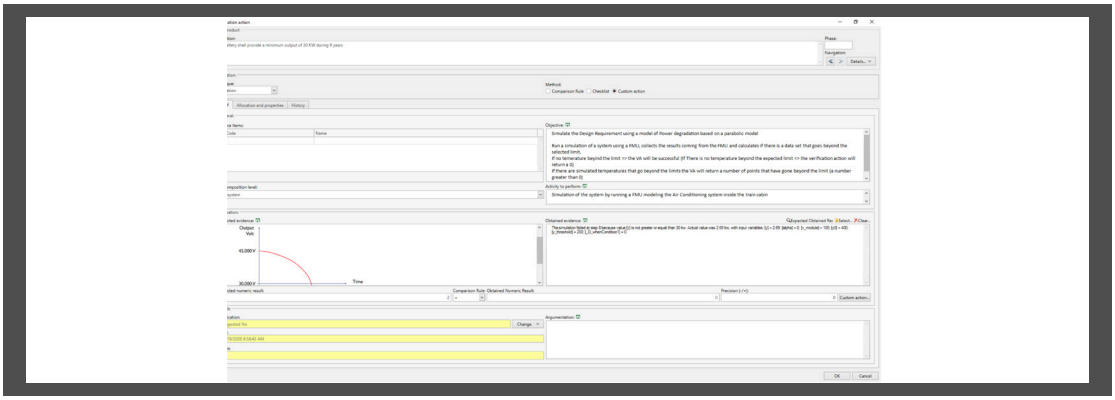
Once inside a project, the project manager can follow the evolution of the situation by controlling progress, by means of quality, V&V, traceability, and time, effort & resources.



On the other hand, project engineers can follow the availability guidance provided by the predefined workflow (for example, you can work on System Requirements and Functional Architecture in parallel but not defining the detailed design of the engine until having successfully passed a decision gate). These engineers can work on the actual engineering items (requirements, models etc.) and provide the means to calculate quality, versions etc.

AUTOMATING AND DIGITALIZING DECISION GATES EVIDENCE

Every decision gate can be assigned a verification action, where the engineers can manage the necessary evidence in a digital way to make a decision (for example the answers within a check list). The verification action can be configured to perform an automatic calculation of the evidence, as well as suggesting an automatic proposal for a result (the engineer will ALWAYS have the last word to accept or not the provided evidences).



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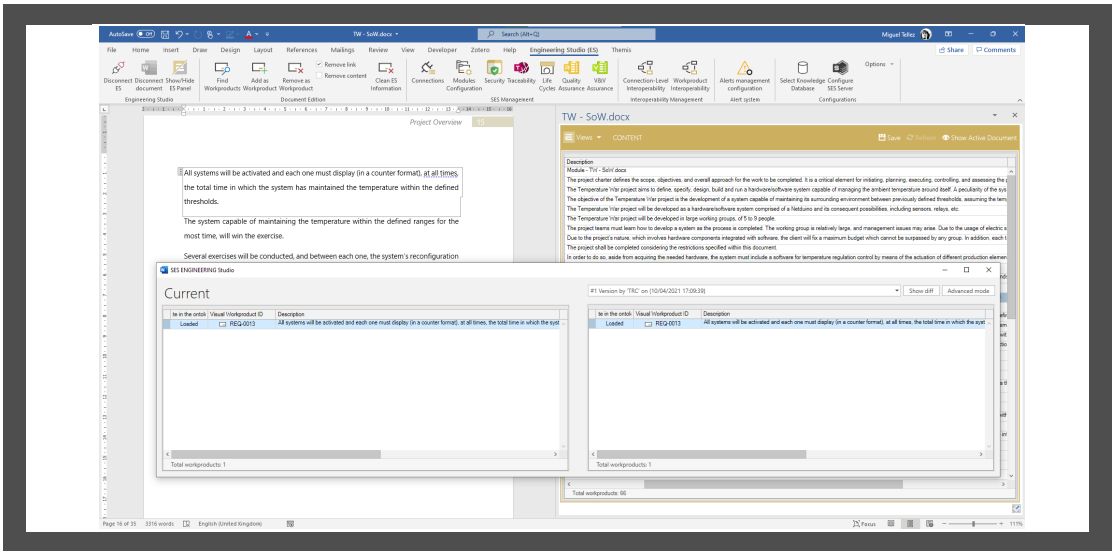
INTEGRATING QUALITY, V&V, TRACEABILITY, AUTHORING, CM AND RISK MANAGEMENT

SES ENGINEERING Studio has been designed to include all the existing Technical Management SE tools already commercialized by The REUSE Company. Therefore, the former **RQA - QUALITY Studio**, **V&V Studio**, **RAT - AUTHORING Tool**, and **TRACEABILITY Studio**, together with the Configuration Management, Risk Management, Decision Management, Information Management, and Knowledge Management, form now the CORE of **SES ENGINEERING Studio** functionalities.



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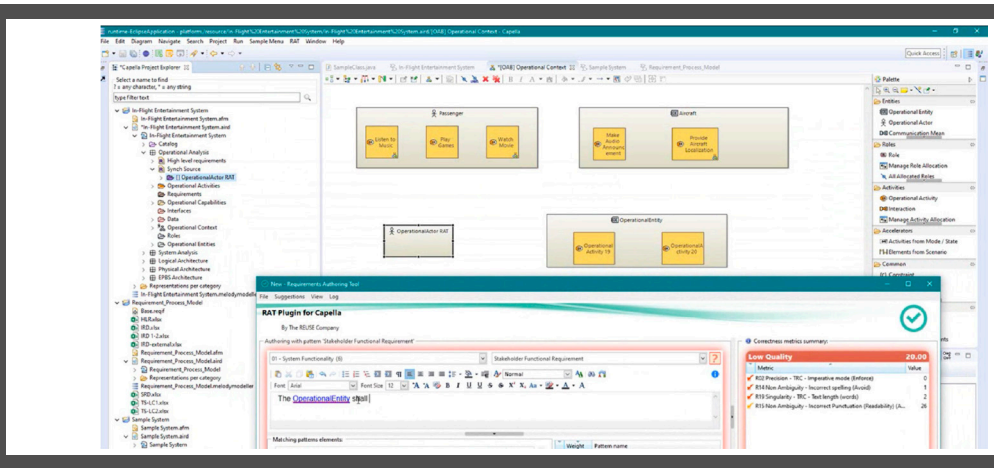
Would you like your ecosystem of SE tools to be transformed into a Smart Systems Engineering framework? (SELM + Authoring + Ontologies + AI, etc.)

TRANSFORMING YOUR DIFFERENT SE TOOLS INTO A PROFESSIONAL SYSTEM LIFECYCLE MANAGEMENT FRAMEWORK

By offering full connectivity (managing source content from **SES ENGINEERING Studio**, minimizing the impact of a particular SE tool in the system life cycle, allowing interoperability between tools, providing a system life cycle workflow on top of different tools), your SE tools ecosystem will be INTEGRATED and transformed into a professional System Life cycle Management environment.

In some cases (desktop & online applications) **SES ENGINEERING Studio** can be included inside a particular SE tool (Microsoft Office, Capella, CAMEO Systems Modeller, etc. and provide all SE capabilities from inside.

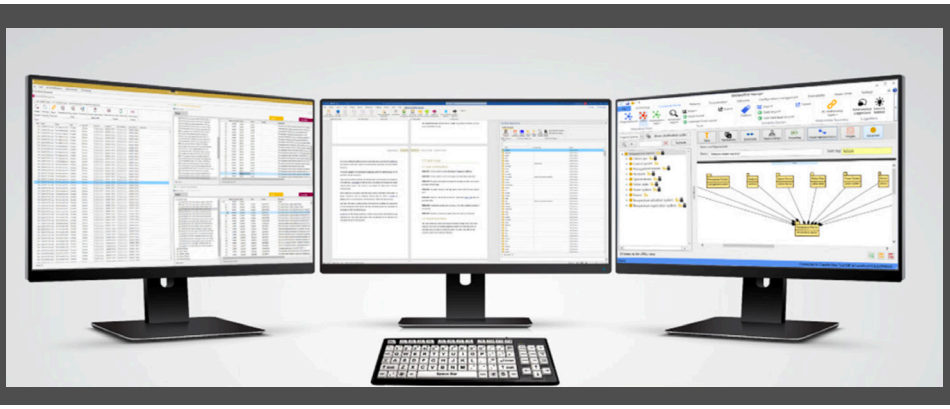


ARTIFICIAL INTELLIGENCE AND ONTOLOGIES

SES ENGINEERING Studio relies on the experience of The REUSE Company working with AI and Ontologies. By using machine learning strength, the engineers receive support to take decisions, to author requirements smartly, to assess quality automatically, to generate trace suggestions or even V&V proposals.

POWERFUL ENGINEERING ENVIRONMENT

Complex and complicated projects need proper environments to work in. An engineer has so many processes to take care of at the same time, with so many dependencies, so many trace links, so many decisions, and so little help. SES ENGINEERING Studio allows engineers to organize their digital environments as they wish. Do you have 2 monitors? 3 monitors? even more? Great. SES ENGINEERING Studio will be able to fill them with different widows containing any information you want to work with in one single sight. Any changes will be automatically propagated in real time to the other windows accordingly.



The REUSE Company
contact@reusecompany.com
www.reusecompany.com
@ReuseCompany

North & East Europe
Spanska Ambassadens
Handelsavdelning
Drottninggatan 82
111 36 Stockholm – Sweden
+46 (0) 72 232 24 63

West Europe, the Americas & Japan
Margarita Salas, 16
Parque Tecnológico LEGATEC
28919- Leganés. Madrid (Spain)
+34 912 17 25 96