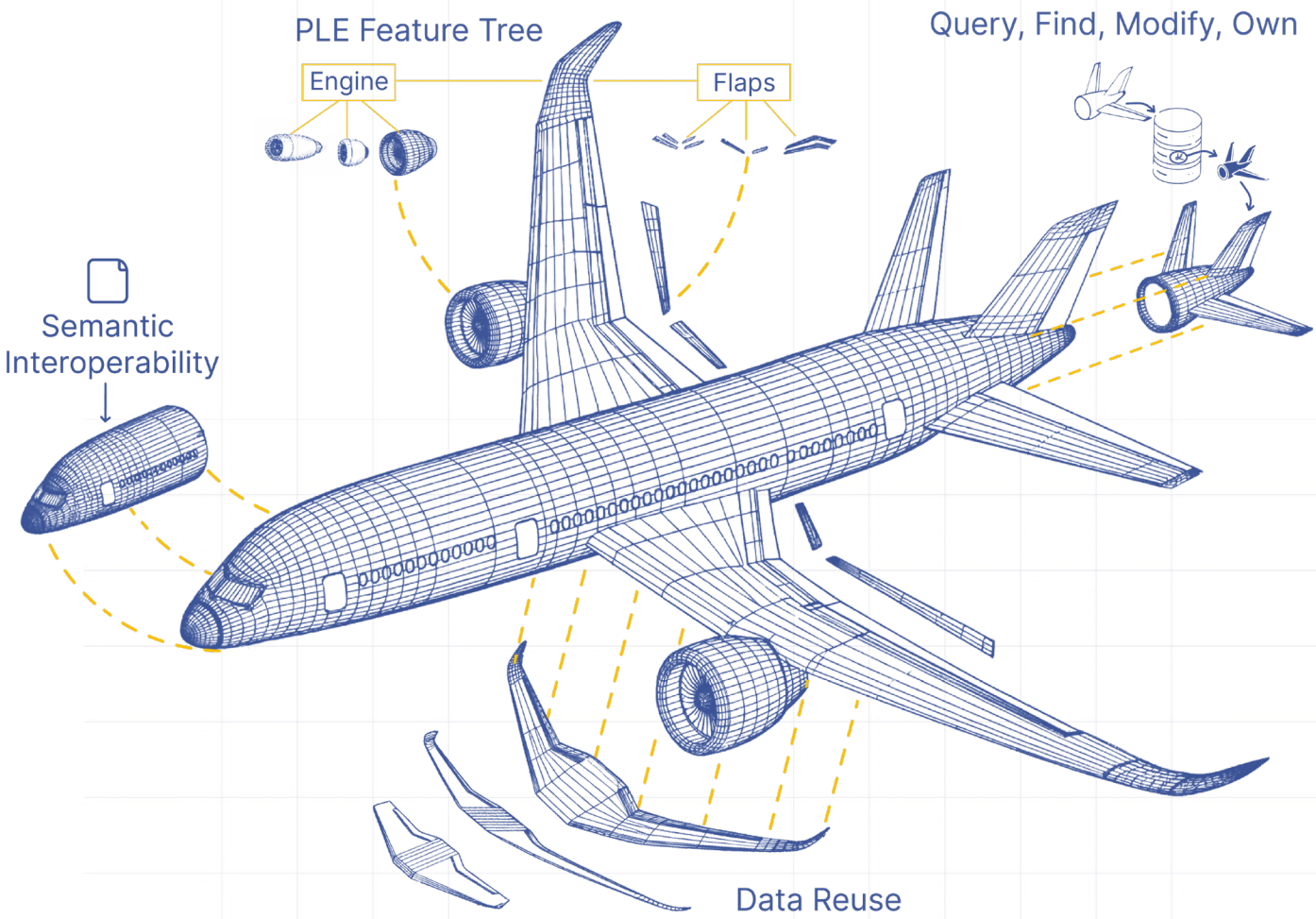
THE REUSE COMPANY



AI - Powered Systems Engineering Reuse

Achieve the benefits of a systematic reuse strategy with the low upfront investment of an opportunistic strategy

The REUSE Process

Achieving True Digital Continuity

The REUSE Approach consists of 5-step workflow that guarantees the quality and integrity of your engineering assets:

Systems Engineering in safety-critical industries shouldn't feel like managing data chaos. Engineers spend up to 40% of their time simply trying to reconcile information across disparate tools—from legacy Requirements Management Systems (RMS) to complex Model-Based Systems Engineering (MBSE) platforms.

When data is trapped in silos, risk multiplies: change management becomes a guessing game, manual verification drains engineering hours, and true intellectual property reuse remains out of reach.

By adopting an integrated REUSE Approach, powered by Artificial Intelligence and Semantic Knowledge, we connect your tool ecosystem into a Single Source of Truth , with the consequence of a dramatic reduction of Non-Recurring Engineering (NRE).

1 IDENTIFY

Identify Reusable Assets and Features
Capture and Manage your systems engineering artifacts using the power of AI.

2 QUALIFY

Ensure the Quality of your Reusable Assets
Ensure the Correctness, Consistency, Completeness and Traceability of your engineering artifacts across your tools ecosystem.

3 CLASSIFY

Classify and Find your Assets
Navigate through your reusable engineering assets and identify knowledge using advanced AI models.

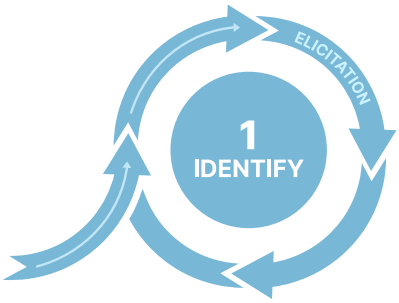
4 ADAPT

Enable Interoperability and Reuse between Engineering Artifacts and Assets
Use the power of AI to reuse data, information, knowledge and functions within your projects, your suppliers' models and even your clients' Specs respecting each ones tools ecosystem. Enable pure Systems Engineering collaboration

5 MEASURE

Measure Systems Engineering and Reuse
Aggregate the quality indicators of all your connected reusable artifacts, and use AI to support your decisions by providing real-time feedback.

1. Identify Reusable Assets and Features



Sources, and identifying valuable artifacts, models, templates, terms. structures, etc.

Instead of demanding point-to-point tool integrations that reinforce the siloed workflows that our REUSE Approach is aiming to avoid, use the power of our 40+ bi-directional connectors to the most widely used tools in the industry.

Instant Synchronization

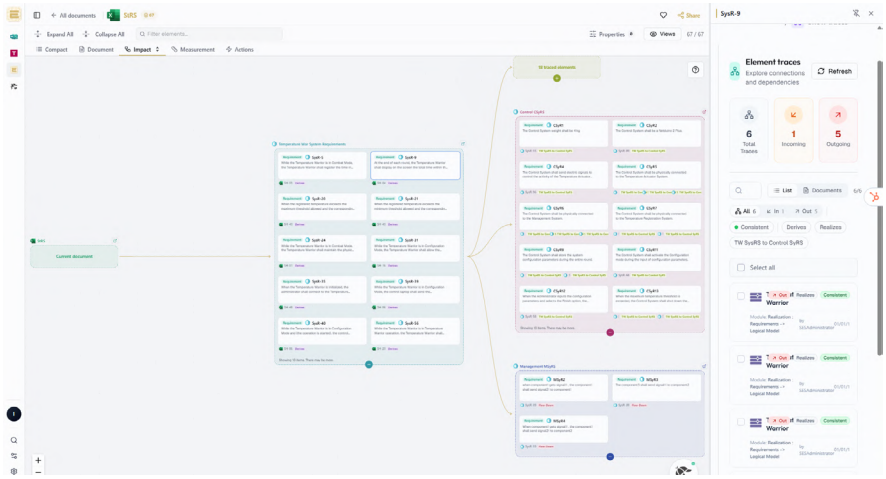
Unstructured data from PDFs or regulations are smartly parsed into active configuration items using semantic modules.

Canonical Framework

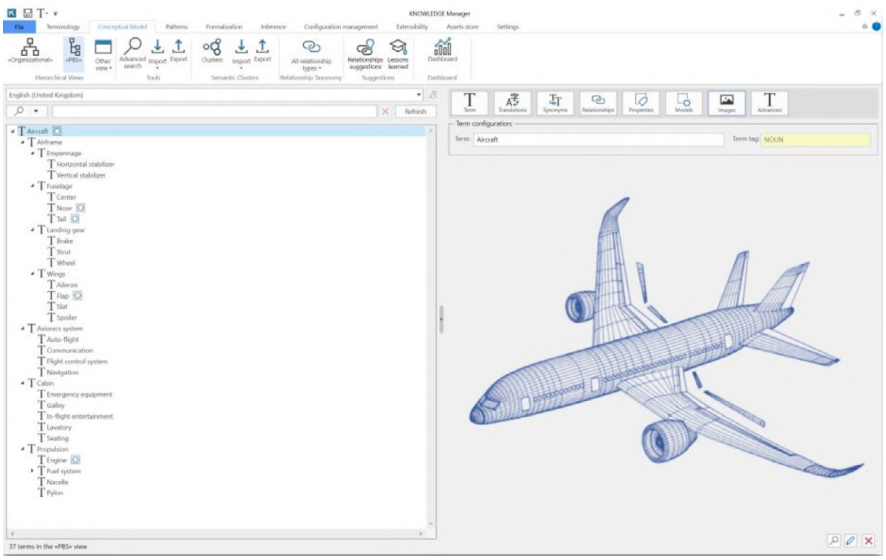
Requirements, risks, models, and test cases are translated into a standardized, synchronized representation that stays in sync with the real source tool.

The Outcome:

- Establish an active Authoritative Source of Truth without modifying your current tool ecosystem.
- Smoothly create and evolve your domain knowledge base just by connecting to the proper sources.
- Use powerful AI to automatically identify assets by smart commonality and variability analysis



Transforming raw data repositories into a smart corporate knowledge ontology.



Powered by: SES ENGINEERING Studio & KM – KNOWLEDGE Manager

2. Ensure the Quality of your Reusable Assets

Use advanced AI to ensure correctness, consistency, completeness, and traceability of the artifacts from any tools ecosystem. Manage the quality, traceability, and V&V processes for any source.

Whether you are authoring specs internally or managing complex supply chains, we move quality assurance to the front of your pipeline using advanced AI models.

Real-Time Authoring Assistance:

Empower your engineers to write clean, consistent, and standard-compliant requirements directly inside their native environment.

Automated Qualification and Scoring.

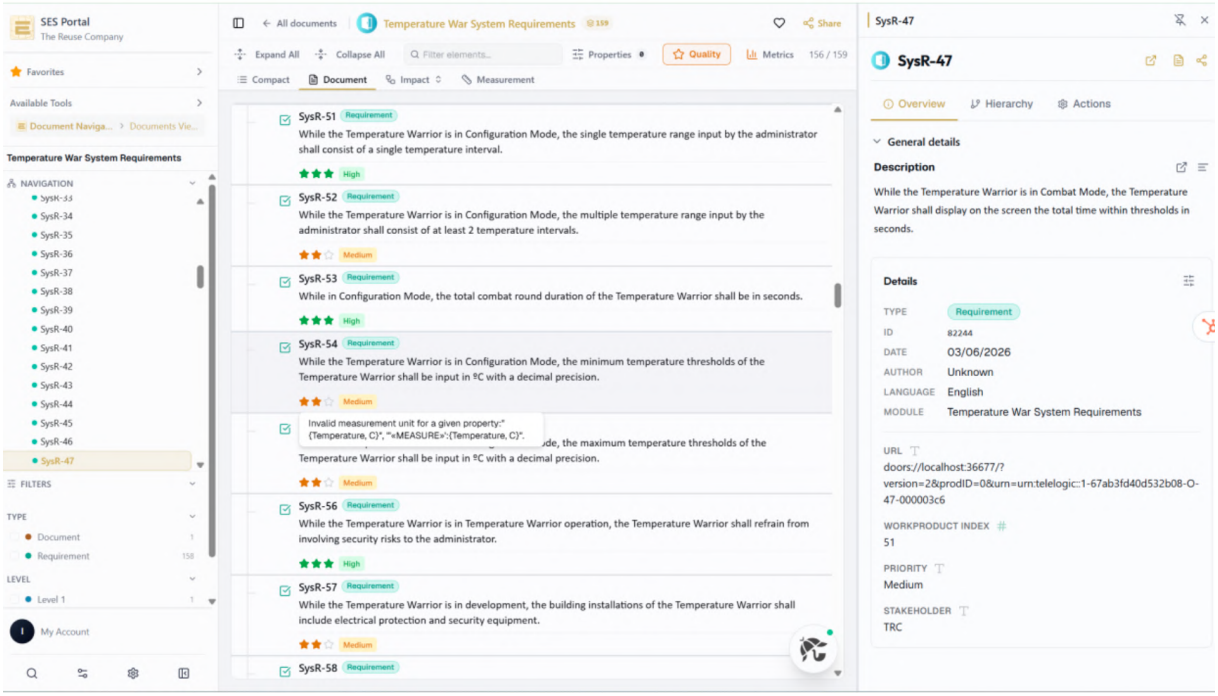
Instantly calculate and monitor project health by checking the correctness, clarity, and completeness of text and models against predefined rules. Perform trade-off Analysis, Universal Traceability, V&V, Change management and Global CM.

Smart Procurement & Acquisition Management:

Streamline the verification of massive tender documents and supplier proposals. Ensure incoming requirements from partners or customer RFPs are parsed, checked for quality, and aligned with your organizational standards before contract signing.

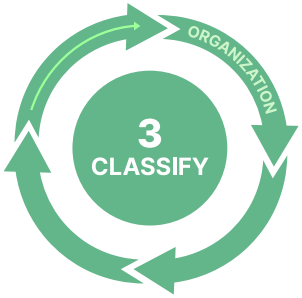
The Outcome:

- Drastically minimize customer communication errors and cut verification rework loops in half.
- Start your reuse journey at this point to minimize upfront investment.



Powered by: RAT – AUTHORING Tool (real-time interactive guidance), RQA –QUALITY Studio (automated metric aggregation across your entire project portfolio), and ACQUISITION Studio (bringing semantic quality management to the procurement and supply chain lifecycle).

3. Classify and Find Assets



In complex systems development, engineering data is too often locked away in disconnected software environments, causing misalignment and rampant rework.

The CLASSIFY activity introduces an enterprise-grade, on-site repository infrastructure engineered to store, organize, index, and retrieve information across your entire ecosystem seamlessly.

Instead of forcing teams into a single, restrictive tool, our platform connects to your existing ecosystem, ingesting and mapping data from all sources into a canonical conceptual graph, enabling systematic and smart information retrieval methods.

Core Capabilities:

Semantic Indexing:

Automatically extract, parse, and index your engineering items from all connected sources, transforming static documents and models into searchable, active assets.

AI-Powered Retrieval Engine:

Empower your engineers with a single, intuitive interface to query the entire system lifecycle, bypassing the boundaries of individual proprietary tools.

Cross-Tool Traceability Visualization:

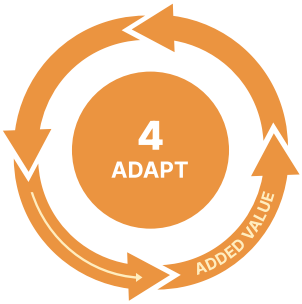
Instantly trace digital threads and map dependencies across heterogeneous environments (e.g., viewing how a requirement in DOORS links to a physical component in a CAD model).

Long-Term Information Preservation:

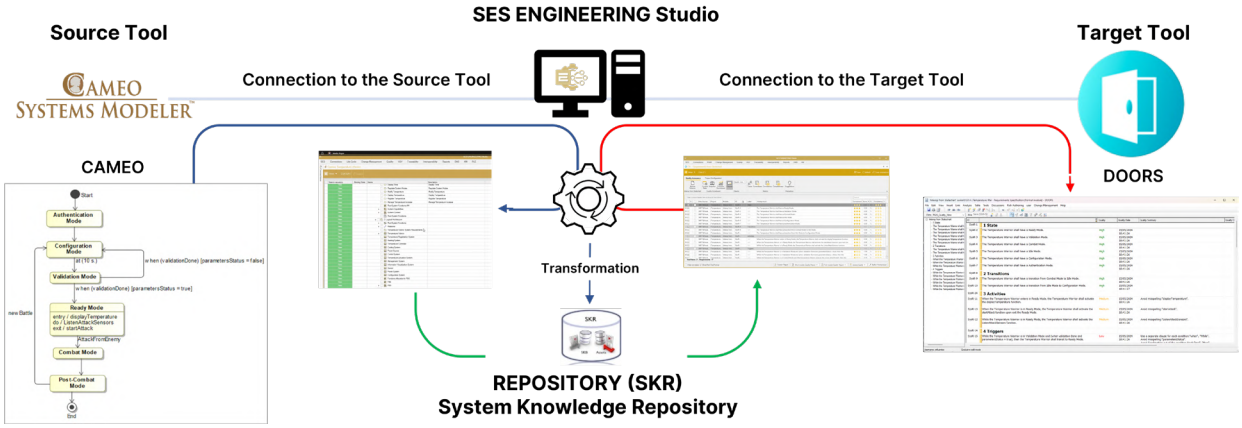
Secure your intellectual property and mitigate tool obsolescence by archiving critical engineering information in a tool-agnostic format, enabling seamless migration from obsolete tools to new and modern environments preserving most of the information.

Stop wasting engineering hours searching for data. Classify consolidates your corporate knowledge into a “Synchronized Source of Truth,” ensuring that the right asset is discoverable, verified, and ready for reuse instantly.

4. Enable Interoperability and Reuse between Engineering Artifacts and Assets



True engineering reuse is more than just copying last year's project folder and renaming it. The ADAPT activity delivers the methods and software logic required to systematically modify, transform, and apply existing engineering assets to a new, evolving, or variant system's context while drastically cutting risk, cost, and schedule. Experience data, information, knowledge and functions reuse.



Four Strategic Pillars of Systems Engineering Reuse

1. Reuse by Search (Find & Own):

Find engineering items within the centralized repository and pull complete, traceable asset packages (requirements, architectures, and tests) into your new project environment (own).

2. Reuse by Virtual Assistant (AI Smart Authoring):

Utilize the RAT – Authoring tool to actively guide engineers. It enforces semantic consistency, terminology coherence, and Correctness, Consistency, and Completeness (CCC) metrics in real time against your company's knowledge base.

3. Reuse by Product Line Engineering (PLE):

Manage system variability at scale. Automatically generate and apply Feature Trees and feature models across requirements and designs, allowing you to instantiate custom system variants instantly.

4. Reuse by Interoperability (Cross-Tool Generation):

Seamlessly translate and synchronize engineering work-products between completely different software paradigms - such as converting SysML v1 models in Rhapsody or Cameo directly into SysML v2 text, or pushing DOORS requirements into Capella functional models.

5. Reuse by Functional Workflow (Cross-Tool linking):

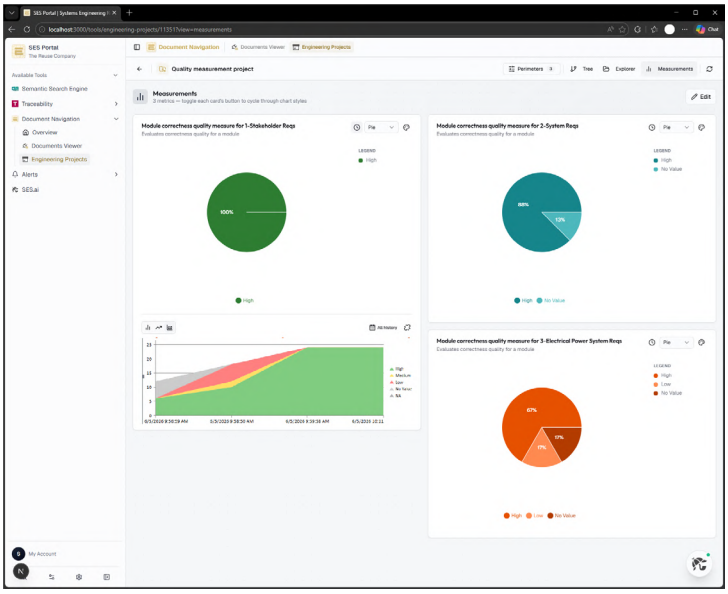
Reuse the functions inside your existing tools ecosystem and connect them all to create a complete and automatic digital thread.

Performance Jump: By transitioning to ontology-driven Smart Authoring, organizations experience up to a 10x gain in productivity during requirements documentation and reduce rigorous inspection times by a 3:1 ratio.

5. Measure Systems Engineering and Reuse

Without measuring the performance of your systems engineering processes, you cannot optimize them. The MEASURE activity provides a comprehensive, fully configurable Measurement Platform that takes advantage of our connectivity workbench and our digital thread model to create real MOEs, MOPs, TPMs and KPIs measuring the complete Systems Engineering project, by operating with the real data.

Operating via our batch processing and desktop environments, the platform connects to approximately 40+ industry-standard tools to pull real-time data without human bias or manual effort.



Comprehensive System Scoreboards

Systems Engineering Quality Dashboard:

Provides real-time visibility into the health of your project by evaluating text and models for structural correctness, rule compliance, and metamodel conformance.

Universal Traceability & Impact Status:

Continuously computes global configuration health, automatically flags broken links or suspect elements, and runs automated risk propagation analyses (including FMEA/FTA integration).

Technical Management Indicators:

Computes standardized Systems Engineering metrics directly from your live data, giving project managers instant access to:

- MOEs (Measures of Effectiveness)
- MOPs (Measures of Performance)
- TPMs (Technical Performance Measures)

Reuse Efficiency Scorecard:

Tracks metrics on Interoperability Reuse and PLE implementation, delivering concrete financial data to prove your return on investment.

Eliminate blind spots in your design lifecycle. Move from reactive testing to proactive assurance, catching defects and architectural gaps early when they cost the least to fix.

THE REUSE COMPANY

Powering Systems Engineering Reuse in the AI era

The REUSE Company is the global leader in enabling systematic Systems Engineering Reuse through a unique blend of Artificial Intelligence and Semantic Technologies. By establishing a Synchronized Source of Truth, we empower organizations to bridge engineering disciplines, automate technical management, and maximize asset profitability.

AEROSPACE | DEFENSE | AUTOMOTIVE

ENERGY | HEALTHCARE | INFRASTRUCTURE

LEGAL | SOFTWARE

Take the Next Step to Scale Your Operations

Optimize Your Toolchain Today.

Is your organization ready to transition from fragmented data silos to a highly productive, systematic reuse environment? Request a free, comprehensive audit of your current engineering processes. Our senior consultants will evaluate your current tool ecosystem and map out an incremental, low-investment implementation roadmap tailored to your specific organizational needs.

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