



## Accelerate Your System Development with AI-Enhanced Model-Based Systems Engineering

**Icarus by Zaden Technologies is an AI-powered Architecture as Code (AaC) tool** designed to streamline your workflow. It effortlessly converts text-based requirements and documentation into detailed SysML models using advanced Natural Language Processing (NLP). By analyzing various document formats, Icarus extracts system components, relationships, and requirements, turning them into comprehensive, ready-to-use system models.

### FEATURES & ROADMAP

#### COLLABORATIVE MODEL ANNOTATION

AI-based model validation to catch inconsistencies and suggest improvements

#### SMART MODEL VALIDATION

Allows teams to collaboratively view, discuss, and annotate models within Icarus

#### CHATBOT FUNCTIONALITY

Understands written English phrases for creating and modifying system models

#### VERIFICATION & VALIDATION

Automated test generation

#### CAMEO & MAGICDRAW INTEGRATION

Integrates with existing modeling tools

#### PDF MAPPING

Automatically reads and interprets system requirements from PDF docs.

**PLUS** User-friendly GUI & expanded compatibility with 3rd party design tools like PTC Modeler, Cameo, and DOORS.

### KEY BENEFITS BY USER GROUP

#### COMMERCIAL USERS

##### 40% FASTER MODELING\*

Assisted Architecture Development

##### SEAMLESS INTEGRATION

Integrates with Cameo, MagicDraw, and more

##### 50% LESS REWORK\*

Automated verification and validation

##### REAL-TIME COLLABORATION

Enables distributed engineering teams

#### GOVERNMENT USERS

##### 30% FASTER ACQUISITION\*

Accelerates procurement cycles

##### DIGITAL THREAD INTEGRITY

Ensures traceability from concept to deployment

##### 60% LESS UPDATES\*

Utilizes AI to detect requirement ambiguities

##### AUTOMATED STANDARDS

Ensures compliance with DoD, NIST requirements

### 138X RETURN ON INVESTMENT

*\*In comparison to traditional MBSE approaches*

Icarus empowers systems engineers to save time, improve model accuracy, and easily share system models with stakeholders—no MBSE expertise required. It's built to integrate seamlessly into diverse environments, including air-gapped systems, making it ideal for both commercial and defense use.

### PRODUCT OFFERING

**Icarus equips your engineers with the tool they need to:**



DEVELOP  
FASTER



IMPROVE  
ACCURACY



FOSTER  
INNOVATION



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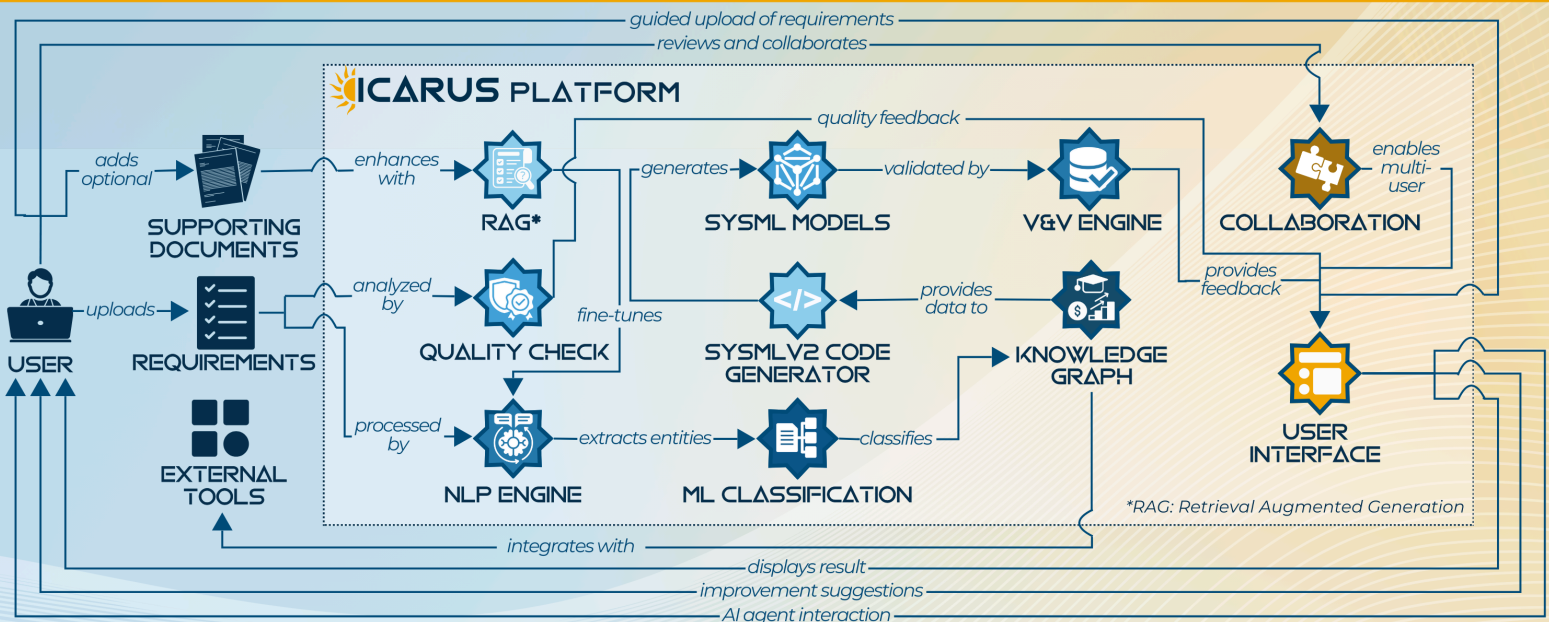
Gift your system  
engineers with the  
power of AI.

**Request a demo  
today.**



bit.ly/m/zadenicarus

# ICARUS PLATFORM DATA FLOW



## ICARUS DETAILED ARCHITECTURE

