

AI for Capella: Connect Capella to Your AI Ecosystem

THURSDAY, SEPT 24th, 2026



**Stéphane
LACRAMPE**
OBEO



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*Managing Director, North and
South America*
Obeo

Agenda

- **Why AI for Capella?**
- How it works
- What can AI actually do ? (See it in action)
- How to get started
- Q&A

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The diagram illustrates the mapping of a hierarchical system design to hardware, divided into two main vertical sections: **Need understanding** (top) and **Solution architectural design** (bottom).

Need understanding: This section shows a hierarchy of **ViewPoints** (A1, A2, A3, F1, F2, F3, F4, F5) and a **Reqs** (Requirements) block. Red arrows indicate the flow of information and mapping between these layers.

Solution architectural design: This section shows a hierarchy of **ViewPoints** (C1, C2, C3, C4, C11, C12, C1', C2', C3', C4') and a **Processors** block. Red arrows indicate the flow of information and mapping between these layers.

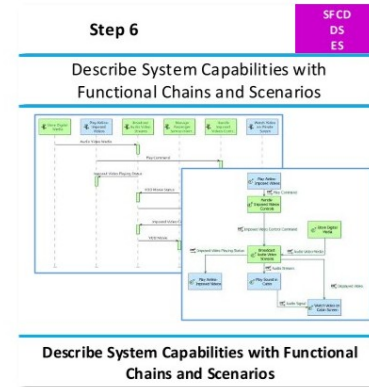
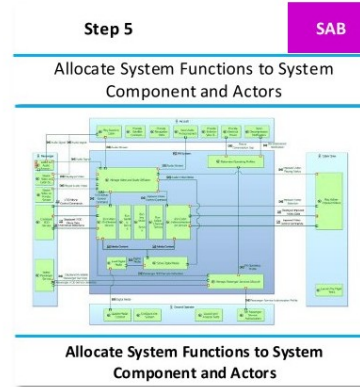
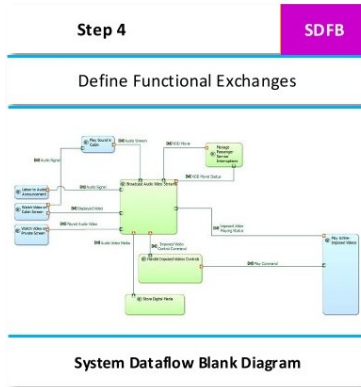
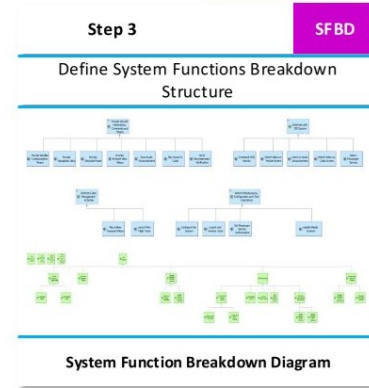
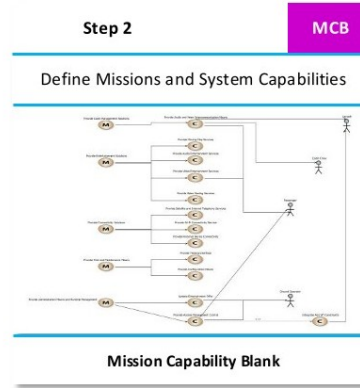
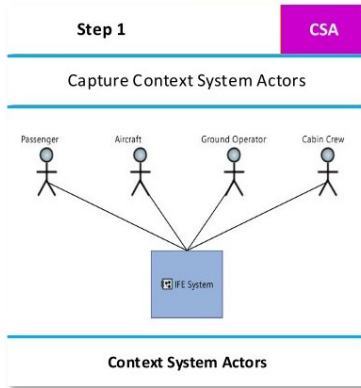
Legend:

- A: Operational activity
- F: Function
- C: Component

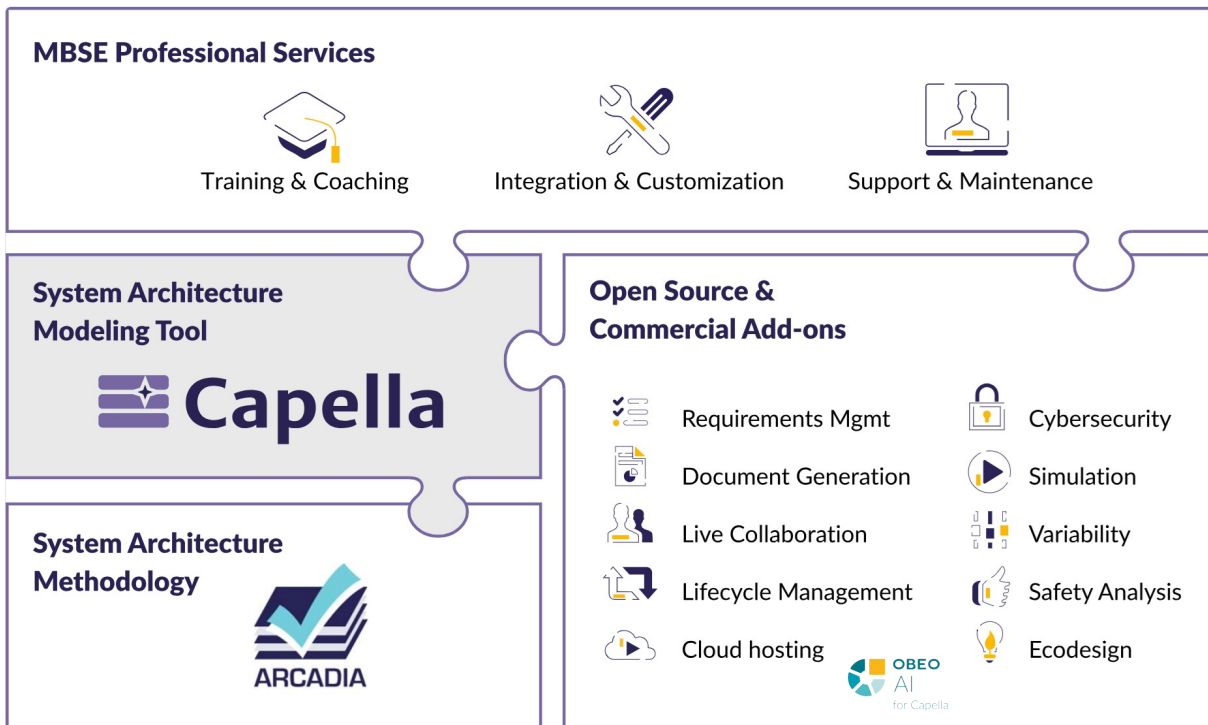
Physical Architecture
How the system will be developed and built



Arcadia/Capella Views



Capella ecosystem



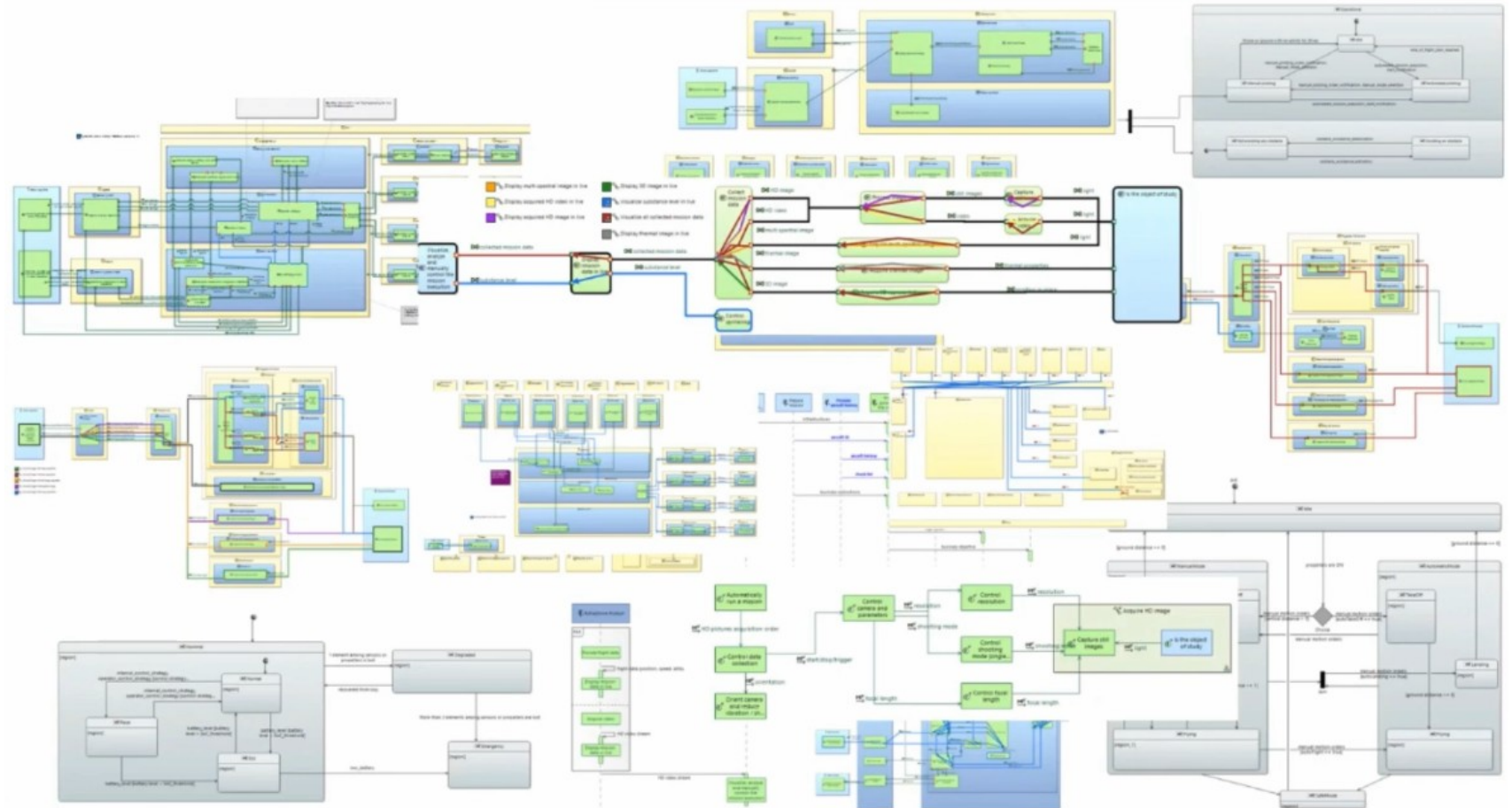
Capella, the modeling tool implementing the Arcadia methodology, is the cornerstone of a comprehensive MBSE ecosystem.

Why Arcadia & Capella Are a Strong Foundation for AI

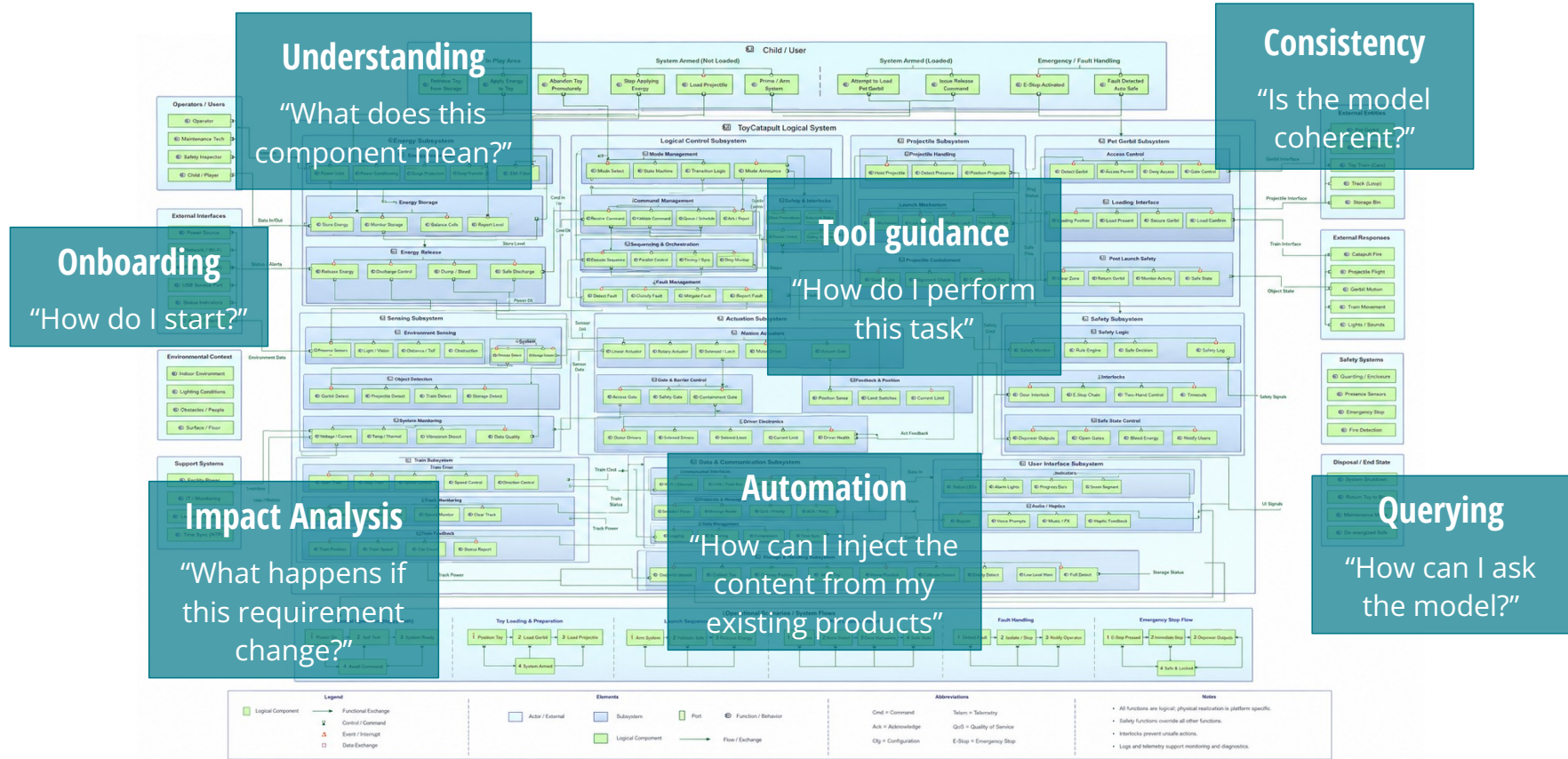
- **A structured method reduces ambiguity**
 - Defined perspectives, viewpoints and engineering steps give AI a constrained space to reason in.
- **Engineering semantics matter**
 - Capabilities, functions, exchanges and functional chains give AI meaningful engineering concepts to work with.
- **Explicit model relationships give agents structured context for impact analysis and navigation**
 - Functional chains and model relationships provide explicit links between engineering elements.
- **A consistent structure gives agents reusable patterns for navigating different models**
 - The same Arcadia structure applies across very different systems and domains



Your Capella model is an engineering asset



What Becomes Possible When AI Understands the Model

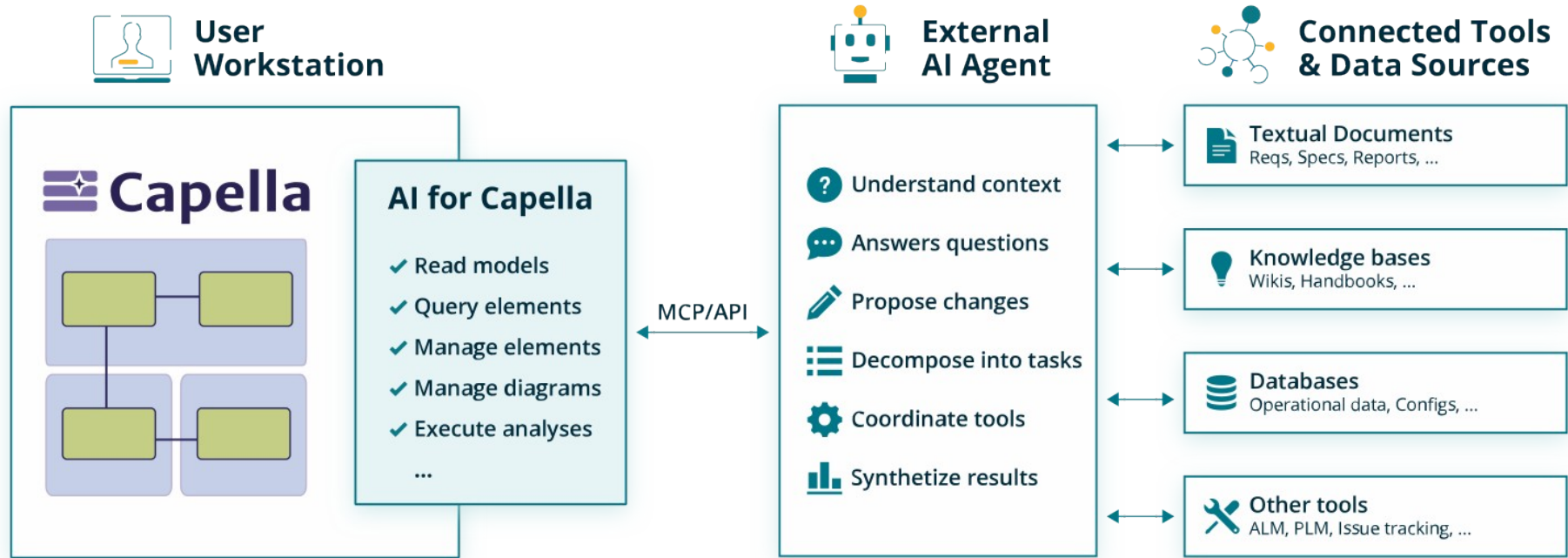


The value is not AI generating text around the model. The value is AI being able to work with the engineering knowledge contained in the model.

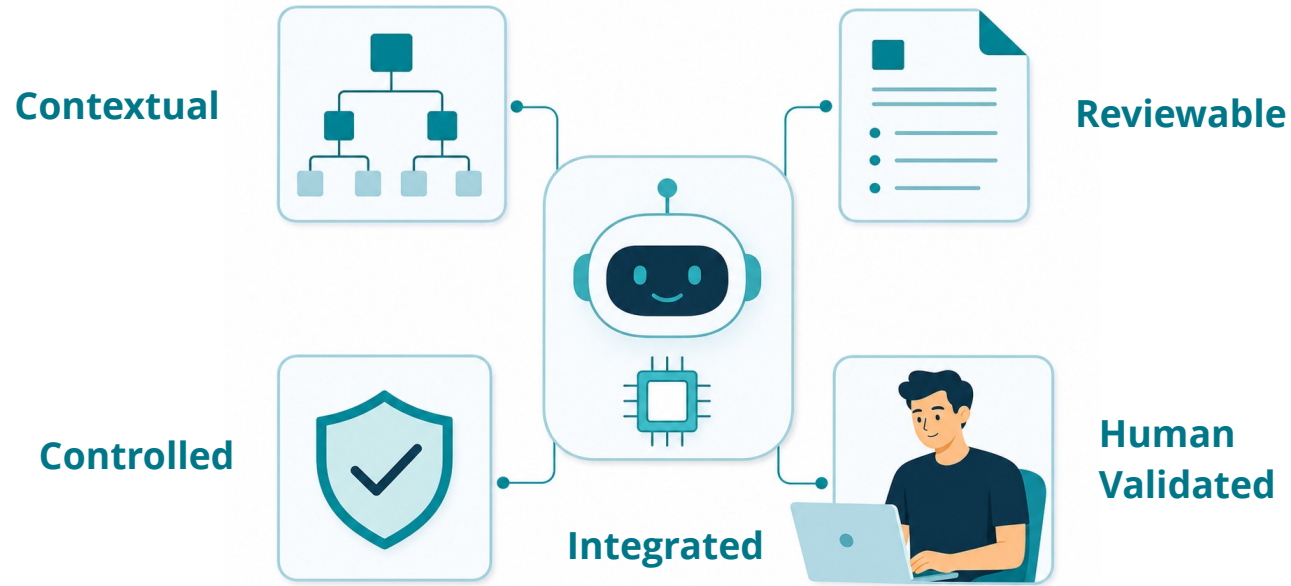
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We Don't Want to Build Another AI Assistant

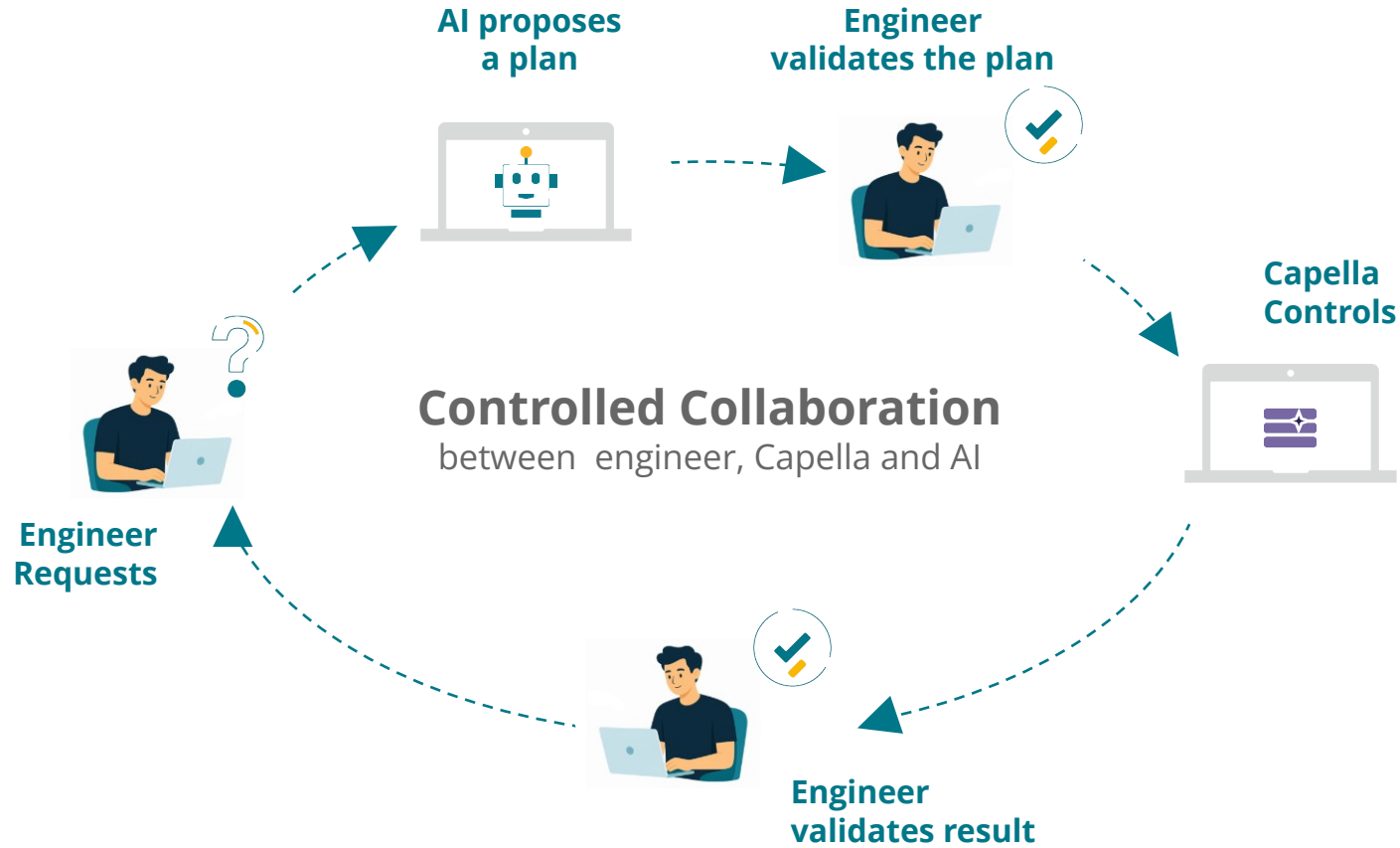


AI with rigor, traceability, and human responsibility



AI assists. Engineers decide.

AI for Capella | Engineer/AI workflow



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AI for Capella | What AI Agents Can Actually Do with Capella

Discover

Find Capella projects, models, and diagrams available to AI agents.

Understand

Explore architectures, model elements, interfaces, dependencies, and engineering context.

Analyze

Evaluate impacts, identify dependencies, and assess architecture changes before implementation.

Edit

Create and update model elements, relationships, and diagrams through controlled AI-assisted operations.

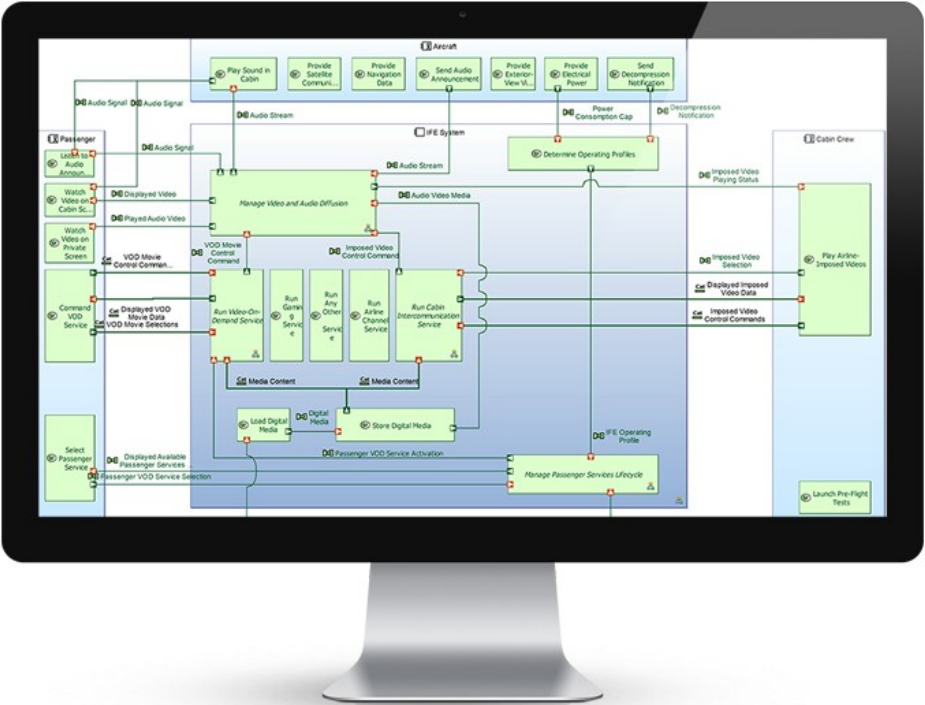
Document

Generate, enrich, and maintain model documentation while preserving traceability.

Review

Refresh, inspect, and export diagrams to support model review and validation.

AI for Capella | Demo

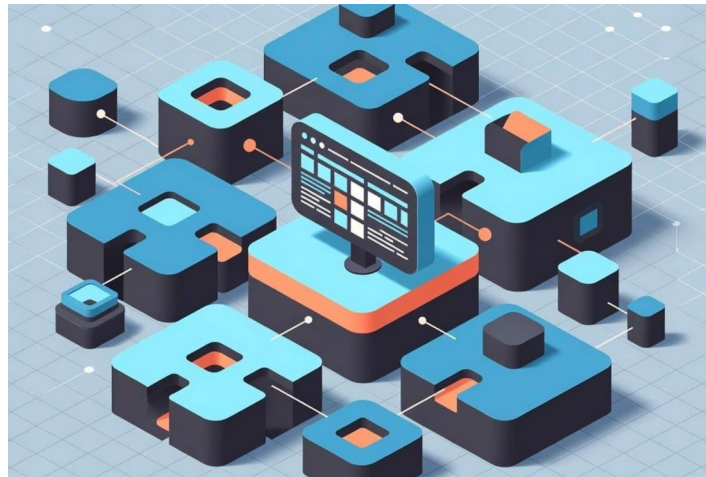


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AI for Capella | Installation and compatibility

- **CAPELLA**
 - 7.1 , 7.0.1, 6.1, SMW
- **CONNECT**
 - Stdio, HTTP, HTTPS
- **CONTROL**
 - Read-only, Edit
- **YOUR AI ENVIRONMENT**
 - MCP-compatible clients: Claude, ChatGPT, Codex, Gemini, Antigravity...
- **Simple packaged installation • Java 21**



AI for Capella | From Model Access to Engineering Workflows

V 0.7.0	V0.7.1	2026.7	2026.9
Explore · Create · Edit	Semantic model access	Batch operations	Transitions · Guidance · Exploration

Continuous release cadence: aligned with Obeo products

Regular releases · Incremental capabilities · Continuous improvements

AI for Capella | What's planned for the 2026.11 release?

- **Stabilize:** MCP compliance with the latest spec · Reliability
- **Simplify:** easier install for non-technical users, a fuller list of what works today (with example prompts), short config videos
- **Expand:** MCP tools for Python for Capella scripts, diagram layer toggling, and layout (ELK)
- **Keep up:** Capella 2026.11 · New AI environments (Tencent WorkBuddy, DeepSeek ...)
- **And one more thing... Publication for Capella 2026.11 will bring AI directly into the browser:** Natural-language model querying · Explore and extract information — no Capella installation required



AI for Capella | Try it on your own models

- **Trial version**
 - 1 named access, full features
 - On-premises deployment (non-production)
 - 1 month, access to Obeo's support team



AI for Capella | AI changes the interface to engineering knowledge



Integrated

Seamlessly installation
in Arcadia/Capella



Your LLM, your Choice

Connect **your** LLMs and AI agents
through Capella MCP



Auditable

Human/AI interactions
and decisions logs



Controlled

Keep engineers in control through secure,
explicit, and traceable AI interactions.



Enterprise-ready

Deploy a supported and ready to use
for industrial MBSE.

Stay Tuned!

Don't miss out the next events!



The Dutch Systems Engineering Days
Etienne Juliot and Olivier Touret (Obeo)

<https://incose.nl/en/the-dutch-systems-engineering-days-2026/>

Nov 12-13, 2026
Best, The Netherlands



TdSE
Olivier Touret and Martin Le Bougeois (Obeo)

<https://tdse.org/>

Nov 17-20, 2026
Dortmund, Germany



CSD&M
Etienne Juliot and Alexandre Lahaye (Obeo)

<https://cesam.community/csdm-2026/>

Nov 19-20, 2026
Paris, France



ASEC UK
Olivier Touret and Alex Fournié (Obeo)

<https://www.asec2026.org.uk/Pages/Standard/Home>

Nov 24-25, 2026
Telford, England

ARCADIA AND
CAPELLA TRAINING

Sept 28 - Oct 1 & 5-6, 2026
Nov 16-23, 2026
Dec 14-21, 2026

<https://www.obeosoft.com/en/services/training/capella-training>

| 2:00-5:30 PM, Paris time (UTC+2)
| 2:00-5:30 PM, Paris time (UTC+2)
| 2:00-5:30 PM, Paris time (UTC+2)





CapellaDays

ONLINE 2026

1-3

DECEMBER



ORGANIZED BY



OBEO

THALES



MOHAMMAD CHAMI
SYSDICE



DAVID PIETSCH
ROLLS-ROYCE
POWER SYSTEMS



RAMI WEHBE
SYSDICE

🕒 3:35 PM UTC+1

FROM LEARNING TO MODELING: THE HYBRID MINING TRUCK JOURNEY WITH ARCADIA AND CAPELLA



DAVID PLANCQ
NUWARD

🕒 4:15 PM UTC+1

MBSE TOOLCHAIN BASED ON CAPELLA TO MANAGE SYSTEM INTEGRATION DURING THE ENGINEERING PHASE



JOSHUA WEDGWOOD
ROLLS-ROYCE

🕒 4:55 PM UTC+1

NON-FUNCTIONAL REQUIREMENT CREATION & TRACEABILITY USING PROPERTY VALUES



APURVA PARDESHI
BLUEKEI SOLUTIONS



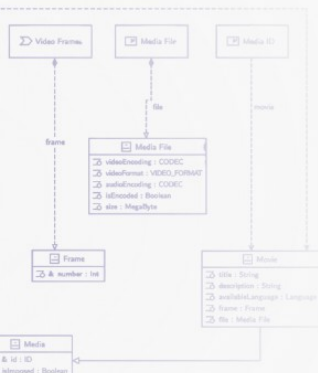
SHEFALI ARYA
TIMETOOTH
TECHNOLOGIES



RANDHIR SWARNKAR
TIMETOOTH
TECHNOLOGIES

🕒 9:05 PM UTC+1

FROM REQUIREMENTS TO ENGINEERING DECISIONS: BUILDING AN AIRCRAFT LANDING GEAR SYSTEM IN CAPELLA



GAUTHIER JOURDAIN
CESAMES

🕒 9:45 PM UTC+1

MODELING THE EUROPEAN RAILWAY SYSTEM WITH CAPELLA



SHANTANU PATIL
BLUEKEI
SOLUTIONS



GAUTAM SHET
BLUEKEI
SOLUTIONS

🕒 10:25 PM UTC+1

VALIDATING DYNAMIC BEHAVIOUR IN COMPLEX RAILWAY SYSTEMS USING ARCADIA AND POOSL



DARIO SCIMONE
INDRA SPACE

🕒 3:35 PM UTC+1

IMPLEMENTING ARCADIA AND MBSE TECHNIQUES FOR FUTURE EARTH OBSERVATION MISSIONS



**MICHAEL
HANDRISCHIK-BOWMAN**
FOX SOLUTION



**TOM
HANDRISCHIK**
FOX SOLUTION



DENIS PRELL
FOX SOLUTION

🕒 4:15 PM UTC+1

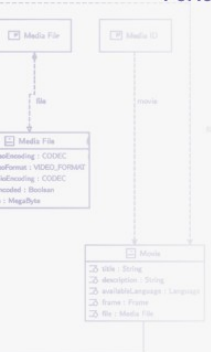
CLOSING THE DOWNSTREAM GAP: FROM ARCADIA FUNCTIONAL BREAKDOWN TO REQUIREMENTS AND FMEA



**ANTONIO CASSIANO
JULIO FILHO**
INPE

🕒 4:55 PM UTC+1

E-F4GSA: EXTENDED FRAMEWORK FOR GENERALIZED SPACE ARCHITECTURES: AN ARCADIA & CAPELLA PERSPECTIVE





ENRICO SOLDÀ
GRAN SASSO
SCIENCE INSTITUTE

🕒 3:35 PM UTC+1

AUTOMATION AND LLM USE IN CAPELLA MODELING



ENRICO DEL RE
NM ROBOTIC
EASYSAFE

🕒 4:25 PM UTC+1

CLOSING THE MBSE LOOP: FORMAL REQUIREMENTS, AI-GUIDED DESIGN AND CONTINUOUS VERIFICATION WITH CAPELLA



**MICHAEL
NADERHIRN**
NM ROBOTIC
EASYSAFE



KARL CLARK
BIG INTELLIGENCE

🕒 4:00 PM UTC+1

PROPOSE, GATE, COMMIT: KEEPING AN ARCADIA MODEL TRUSTWORTHY WHEN AN LLM HELPS BUILD IT



**ANBARASU
MULLAINATHAN**
DIGITALTHREAD.AI



ORLANDO TREJO
DIGITALTHREAD.AI

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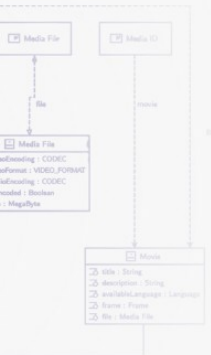
CAPELLA AGENT: CLOSING THE MBSE CONSUMPTION GAP WITH AN AI AGENT INSIDE CAPELLA



STÉPHANE LACRAMPE
OBEO

🕒 5:15 PM UTC+1

MAKING CAPELLA AN AGENT-READY PLATFORM



Stay Tuned!

mbse-capella.org/webinars.html



Capella

WORKBENCH • ARCADIA METHOD • ADOPTERS • COMMUNITY • SERVICES • CONTACT • DOWNLOAD

CAPELLA WEBINARS

Regular live insights about Capella technology and its ecosystem

UPCOMING WEBINARS

MBSE Approach to Creating and Exploiting Digital Systems for HORIZON Europe
May 15, 2025 | 5PM CET | EN | BUILDING | METHODOLOGY

Seamless Integration of Capella with Jira and Confluence
June 26, 2025 | 5PM CET | EN | COLLABORATION | CHANGE MANAGEMENT | DOCUMENTATION

PREVIOUS WEBINARS

Unifying Digital Threads: Capella and Interoperability to support a Synchronized Source of Truth
April 2025 | Jose Fuentes & Ilyes Youaf (The REUSE Company) | EN | COLLABORATION | SYSTEMS OF SYSTEMS | ADD-ON

System Modeling Workbench - Aligning Configurations, Enhancing Collaboration, and Improving User Experience
March 2025 | Albino Pereira (Siemens DIS) | EN | INTEGRATION | MULTI-DOMAIN

Introduction to MBSE with Arcadia & Capella: from Fundamentals to Benefits
Feb 2025 | Thibault France (Obeo) | KR/EN | INTRODUCTION

Drone-Based Solution for Efficient Search and Rescue Missions
Feb 2025 | Gerardo de Jesus Ramirez & Juan Felipe Rios (University of Antioquia) | EN | CASE-STUDY | UNMANNED AERIAL VEHICLES



Thanks for listening!

Do you have any questions?

*Let's keep on the discussion on the forum after the webinar:
<https://forum.mbse-capella.org/>*