

# CESAM Systems Architecture Framework



The CESAM framework is a **clear and structured architectural approach** to mastering complex systems across industries.

More than a framework, CESAM is a **practical methodology** that empowers architects to build **consistent, scalable and high-value system architectures** throughout the entire project lifecycle.

Designed for both simplicity and adaptability and implemented through **a limited set of coherent and unambiguous views**, the CESAM framework helps architects and engineering teams:

- Structure and align system representations
- Improve collaboration and decision-making
- Reduce complexity and modeling redundancy
- Anticipate and mitigate risks early
- Adapt efficiently to different sectors and engineering contexts

Designed as a collaborative and scalable tool, the CESAM framework supports projects **from early definition phases to verification and validation activities**.

## Why

Operational vision

Outside

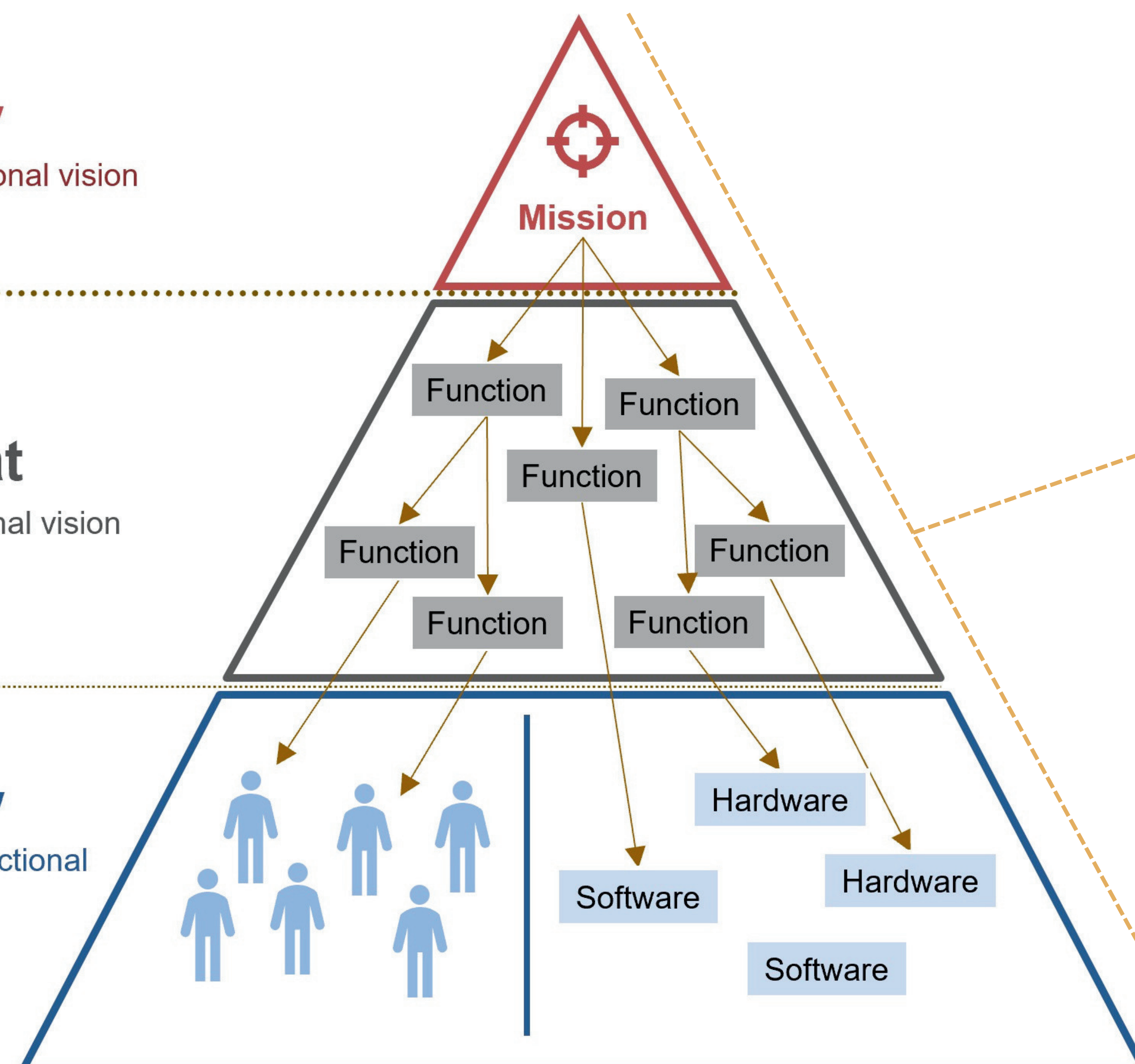
Inside

## What

Functional vision

## How

Constructional vision



The CESAM framework consists of three simple and fundamental visions to describe any system.

At the core of the CESAM framework are three complementary architectural visions:

- **Operational vision**, which describes the system from the perspective of its environment, stakeholders, missions, external constraints and expected services.
- **Functional vision**, which focuses on system behavior, functions, requirements and interactions.
- **Constructional vision**, which represents the physical or logical components implementing the functions and satisfying operational constraints.

Each vision is divided into 5 aspects, detailed on the following page.

This framework is **recursive, adaptable** and **can be modeled with any MBSE tool and modeling language**.

