



ABDERRAHMANE HAMMAR

Founder - HAMMAI® / Monde Augmenté®

Agentic AI Engineering | Critical Systems | Augmented

Decision Workflows

Motivation

Engineering and AI project leader with more than 25 years of experience in electrification, hybrid and electric

Subject: Collaboration Proposal — Developing Agentic AI Solutions with Augmented V-Cycle®

Dear Sir or Madam,

Artificial intelligence is entering a new phase: the age of **AI agents capable of augmenting complex business processes**, producing structured deliverables, detecting gaps, simulating scenarios, and keeping humans at the center of decision-making.

However, in critical, industrial, regulated, or highly documented domains, building a simple conversational agent is not enough. What is needed is a rigorous, traceable, verifiable development method compatible with validation requirements.

This is precisely the purpose of **HAMMAI® and its Augmented V-Cycle® methodology**.

HAMMAI® is based on an agentic adaptation of the V-cycle, a method historically used in complex and critical systems engineering. This approach transforms an idea, a customer need, or a system concept into specifications, requirements, architecture, specialized AI agents, validation strategy, documentation, and audit-ready deliverables.

While many AI solutions simply generate answers, HAMMAI® structures the development of AI agents as a true engineering process. Each agent is defined by its role, inputs, outputs, boundaries, validation criteria, interactions with other agents, deliverables, and human validation gates.

This differentiation is essential for critical systems and regulated environments. A chatbot answer. A generic agent performs a task. **HAMMAI® builds a living business case**, including requirements, evidence, decisions, versions, risks, gaps, traceability, and final deliverables.

The core logic is simple:

AI proposes.

Human validates.

The system traces.

The case matures.



This approach is deployed through several vertical agentic platforms:

Cyber.HAMMAI® — an AI-augmented automotive cybersecurity engineering platform, aligned with ISO/SAE 21434 and UNECE R155, enabling the generation of a cybersecurity case from item definition, TARA, cybersecurity concept, technical requirements, verification, and the final cybersecurity case, with human validation at every gate.

Safety.HAMMAI® — an AI-augmented automotive safety engineering platform supporting ISO 26262 and SOTIF-oriented workflows, including Item Definition, HARA, Safety Goals, FSR, TSR, architecture, FMEA, FTA, DFA, FMEDA, fault injection planning, KPI measurement, traceability, and safety-case argumentation.

HAMMAI® / Augmented V-Cycle® — a generic agentic engineering framework that converts an idea, customer need, or system concept into specifications, requirements, architecture, component definitions, validation strategy, documentation, audit-ready work products, and specialized AI agents.

HomeBuy.HAMMAI® — a Property Decision Case concept for buyers, sellers, and real-estate professionals, integrating market data, documents, risks, missing evidence, negotiation scenarios, dossier maturity, and decision verdict.

Tender.HAMMAI® — an Augmented Tendering Intelligence platform that extracts requirements from a tender dossier, checks eligibility, builds the compliance matrix, detects gaps and risks, compares response scenarios, produces a Go / No-Go verdict, and prepares a submission-ready Bid Decision Case.

Compliance.HAMMAI® — an Augmented Compliance Intelligence platform that generates applicable obligations, compliance matrices, evidence and gap registers, remediation plans, and traceable readiness dossiers for AI Act, GDPR, ISO 27001, SOC 2, NIST, and DORA.

Author.HAMMAI® — an Augmented Writing Studio that transforms an idea, notes, or a draft into a structured, coherent, and publishable work or document: novels, essays, theses, technical documents, and enterprise documentation. The AI proposes; the author decides.

Through HAMMAI®, I propose to support organizations that want to develop their own business AI agents, industrialize AI workflows, generate audit-ready deliverables, augment their teams without replacing human expertise, or create their own vertical agentic SaaS platforms.

I would be pleased to discuss how your organization's processes could be transformed into validated, traceable, and human-controlled agentic workflows.

Click on **"I discover"** to see concrete examples. In the links of URL

If you want to use these solutions, invest in the HAMMAI® vision, or develop your own AI agent with the **Augmented V-Cycle®** methodology, I would be glad to discuss it with you.

Vertical Agentic Applications Created / Structured

The following applications illustrate the practical deployment of the HAMMAI® orchestration framework across safety-critical engineering and high-stakes decision domains.

<u>URL</u>	<u>Agentic Description (Beta version)</u>
https://hammai.net	Augmented V-Cycle® : Generic agentic engineering framework converting an idea, customer need or system concept into specifications, requirements, architecture, component definitions, validation strategy, documentation and audit-ready work product. It allows to generate AI agent thanks to augmented V cycle
https://cyber.hammai.net	Cyber.HAMMAI® : AI-augmented automotive cybersecurity engineering platform Generate cybersecurity case with Augmented Automotive Cybersecurity, ISO/SAE 21434 & UNECE R155, automated end to end: From the item definition, generate TARA, cybersecurity concept, technical requirements, verification and the cybersecurity case — with human validation at every gate
https://safety.hammai.net	Safety.HAMMAI® : AI-augmented automotive safety engineering platform supporting ISO 26262 and SOTIF-oriented workflows : Item Definition, HARA, Safety Goals, FSR, TSR, architecture, FMEA, FTA, DFA, FMEDA, fault injection planning, KPI measurement, traceability and safety-case argumentation.
https://home.hammai.net	HomeBuy.HAMMAI® : Property decision case concept for buyers, sellers and real-estate professionals : market data, documents, risks, missing evidence, negotiation scenarios, dossier maturity and decision verdict.
https://tender.hammai.net	Tender.HAMMAI® : Augmented Tendering Intelligence, Decide before you bid, then win. From the tender dossier, extract requirements, check eligibility, build the compliance matrix, detect gaps and risks, compare response scenarios, then a Go / No-Go verdict and a submission-ready Bid Decision Case — with human validation at every step.
https://compliance.hammai.net	Compliance.HAMMAI® : Augmented Compliance Intelligence, Pass your clients' security, privacy & AI reviews faster. From a system, a questionnaire and your internal evidence, generate the applicable obligations, a compliance matrix, evidence and gap registers, a remediation plan and a traceable readiness dossier — AI Act, GDPR, ISO 27001, SOC 2, NIST, DORA... with human validation at every step.
https://author.hammai.net	Author.HAMMAI® : Augmented Writing Studio, From idea to publishable work, with the author in control. From an idea, notes or a draft, build the brief, structure, characters or arguments, chapters, drafts and rewrites, continuity and integrity checks, reader simulations and a publishing / defense / delivery pack — novels, essays, theses, technical & enterprise docs. The AI proposes, the author decides.

Operating Principle

HAMMAI® applications are designed around a controlled decision loop: definition, evidence collection, risk analysis, gap detection, simulation, human validation, action closure and final recommendation. The AI does not replace experts; it structures, proposes, detects gaps and supports reviewable decisions.