CELTIC-NEXT Proposers Brokerage Day

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Pitch of the Project Proposal

Federated AI Agent–Driven Hazard Management Platform for Resilient Supply Chains (SafeChain)

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Teaser

What is the main benefit of the idea/proposal?

***SafeChain** delivers a privacy-preserving, AI agent–driven hazard management platform that helps pharmaceutical, agricultural, and marine product supply chains detect, predict, and mitigate hazards (e.g., contamination, spoilage, fraud, logistics risks) in real time.*

It reduces economic losses by preventing supply chain disruptions and protects public health and safety by ensuring higher-quality, safer products reach consumers.

Teaser

Why should I participate in the project?

Direct Business Impact:

- *Pharma firms can ensure cold-chain integrity and regulatory compliance.*
- *Agriculture companies can reduce waste and detect disease/pesticide hazards earlier.*
- *Marine/seafood companies can prove freshness and fight fraud.*
- *Companies benefit from AI model improvements via **federated learning** without ever sharing their raw, sensitive data.*
- *Strategic partnerships across industries and geographies.*

Organisation Profile

INOSENS is an R&D Performing SME delivers robust AI-driven solutions that address complex challenges across multiple verticals.

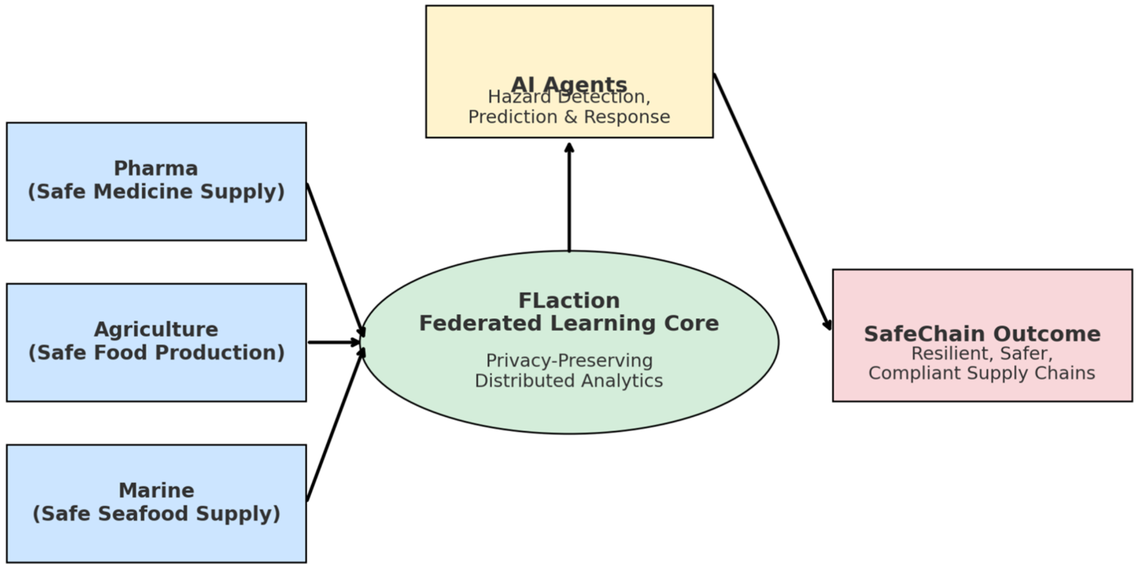
INOSENS has a proven track record in leading and contributing to international R&D projects, particularly within the CELTIC-NEXT program.

Proposal Introduction (1)

*The joint project would develop an **end-to-end hazard management platform** that leverages **AI agents** for hazard detection, risk assessment, and decision support, while ensuring data privacy and independence through LLM supported **federated learning**.*

***Main Benefit**: Safer, more resilient, compliant supply chains.*

***Added Value**: Privacy-preserving federated AI agents across sensitive industries.*



Proposal Introduction (2)

Expected Outcomes

- *Development of a federated AI agent–driven hazard management platform (SafeChain) that integrates hazard detection, prediction, and response across pharma, agri, and marine supply chains.*

- *Demonstration of three sector-specific pilots (pharmaceutical cold chain, agricultural contamination/disease detection, marine freshness and fraud prevention).*

Proposal Introduction (3)

Expected Impacts

- *Industrial Impact: Reduced supply chain losses due to early hazard detection. Enhanced transparency and trust between supply chain stakeholders. Improved competitiveness of participating companies with AI-enabled resilience.*

- *Societal Impact: Safer medicines, food, and marine products reaching consumers. Reduced waste and environmental footprint in agriculture and fisheries. Increased consumer trust through traceability and authenticity verification.*

Partners

Existing consortium, involved countries.

INOSENS, ELTAGRON (TR)

NETVISION (KR)

Expertise, profiles and types of partners you are looking for.

End Users in Pharma, Agri and Marine Products

IoT Sensor Developers

Contact Info

For more information and for interest to participate please contact:

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Presentation is available via: