

AI as the Connector in Safety Systems

How MIT's Seashell platform redefines data integration for public safety

Swipe for insights →

738

Classified Growing Areas

Massachusetts shellfisheries are managed across 738 classified growing areas with overlapping jurisdictions.

This complex web of overlapping state and municipal oversight mirrors the layered regulatory and operational frameworks in nuclear energy. Just as shellfish safety depends on real-time, cross-jurisdictional data sharing, reactor safety requires seamless integration of monitoring data across multiple control systems and regulatory tiers.



01

Data Integration > Data Collection

The Seashell platform's core innovation isn't gathering more data—it's connecting existing data sources through APIs without requiring system replacement. This approach directly applies to nuclear operations, where digital twins and predictive maintenance systems must integrate data from legacy instrumentation, environmental sensors, and safety logs without overhauling entire control infrastructures. The real breakthrough is interoperability, not volume.



02

Human-Centered Design in Safety Tech

MIT researchers discovered that users didn't want dashboards —they wanted instant, location-based answers: 'Is it open?' 'Is it safe?' This insight underscores a critical need in nuclear safety: AI systems must deliver actionable intelligence in minimal steps. For licensing and operator training, this means AI interfaces must prioritize clarity and speed over complexity, reducing cognitive load during high-stakes decisions.

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