mendix × GENERAL ATOMICS

General Atomics is an American defense and energy corporation that specializes in nuclear physics, unmanned aircraft, and advanced technology.

To modernize application development and prepare for the next generation of AI-enabled operations, General Atomics leveraged Mendix to replace legacy systems, establish a standardized development platform, and create a governed foundation for intelligent, agentic workflows.

THE CHALLENGE

Modernizing a fragmented landscape

Prior to adopting Mendix, General Atomics **relied on a mix of enterprise platform**s, including ServiceNow, SAP, and internally developed applications. While these systems supported critical business processes, they operated independently, creating **fragmentation across development, governance, and operational workflows.**

The organization needed a more cohesive approach that could modernize legacy applications, **accelerate software delivery, maintain clean core enterprise systems, and support stringent security** and compliance requirements across enterprise and GovCloud environments.

At the same time, General Atomics wanted to create a **scalable architecture capable of supporting future AI initiatives** without sacrificing governance, traceability, or control.

"Mendix consistently ranked at the top across key categories, standing out for its strong alignment with enterprise and industrial requirements."

Peter Mendez
Mendix Solutions Architect

THE SOLUTION

Creating a governed app platform

General Atomics selected Mendix as a strategic low-code platform due to its SAP integration capabilities, cloud flexibility, built-in CI/CD automation, and **alignment with industrial and manufacturing environments.**

Using Mendix, the organization modernized and replatformed core applications including the **Field Support Request Application (FSRA), ITS Purchase Request (ITS PR), and Surplus Inventory Marketplace (SIM),** creating standardized workflows and improving operational visibility across teams.

Rather than treating AI as a standalone capability, General Atomics established a **modular architecture where Mendix orchestrates workflows, business context, and system interactions,** providing the foundation for future agentic systems that can operate within clearly defined governance and decision frameworks.

"Mendix builds all of our applications. It understands the workflow, the state, and the context around what's happening."

Peter Mendez
Mendix Solutions Architect

THE RESULTS

Scaling modernization enterprise-wide

General Atomics has delivered **more than 55 Mendix applications while successfully replatforming over 45 legacy systems**, helping standardize development and reduce reliance on fragmented application landscapes.

The organization has also established a growing low-code community with **more than 75 RAD-certified developers**, creating internal expertise capable of supporting future digital transformation initiatives at scale.

Beyond application modernization, General Atomics has created the architectural, governance, and operational foundation needed to evolve from reactive workflows toward proactive and eventually agentic systems, **positioning the organization to safely embed AI into enterprise operations as capabilities mature.**

"You need to start to progress from reactive to proactive, and then to agentic. Just make sure that you're governing it from the get-go and let Mendix do the rest."

Peter Mendez
Mendix Solutions Architect