



Market: Defense

Customer: US Army

Problem: The United States Army has undertaken a “modernization program consisting of a family of manned and unmanned systems, connected by a common network that enables the modular force providing our Soldiers and leaders with leading-edge technologies and capabilities allowing them to dominate in complex environments.” The integration of these systems into a cohesive capability required that subject matter experts possess deep and sophisticated knowledge of thousands of components, scores of systems, and the ability to translate accurately and effectively between Army doctrine, abstract functional requirements, and detailed systems engineering. A severe lack of visibility into and traceability through this complex landscape challenged the Army’s ability to understand the process and verify results.

Solution: Bridgeborn provided the LSI with agile tools that gave system integrators and other subject matter experts the ability to tag and associate information relevant to milestone integration events with high fidelity 3D environments depicting integrated operation uses cases (IOUCs) for FCS platforms and systems. Information linked to these environments included assessment objectives, design documents, requirements data, and the outputs of OneSAF Testbed (OTB) simulations. The solution provided a common metaphor through which experts from different domains (soldiers, engineers, managers) could communicate without losing sight of relevant detail from their respective domains. The entire solution was lightweight and delivered over the web to standard personal computers, making it easily accessible.

Value to Client: Bridgeborn’s support of FCS provided the US ARMY and LSI with a clearer understanding of their Integrated Operational Use Cases (IOUCs) by dramatically increasing traceability and visibility into and across disparate data sets. Our intuitive, 3D environments reduced time to decision by delivering “at a glance” views of complex information and resulted in higher confidence in their decisions. Additionally, this solution greatly improved enterprise-wide communication across the program’s diverse stakeholders.

Services Provided	
✓	Analysis
✓	SDE&I
✓	Data Visualization
✓	Support Services
✓	Training and Education
	Research and Development

