

# Hitachi Scales Analytical Capabilities with Smiths Detection



smiths detection

Smiths Detection's advanced threat analysis solutions use X-ray inspection systems and sensors to help detect security threats for customers in the company's three security operations markets—Ports & Borders; Aviation; and Urban Security. Smiths faced the challenge of low-cost competitors moving into their global markets at a much lower price point. As the dominant player in threat detection, Smiths was concerned about this increased competitive intensity within their core markets. However, the company's long heritage in the global security operations industry put them in a position where they could continue to drive innovative change into that market.

Smiths established a digital ecosystem of themselves, Hitachi and Microsoft. Together, based on the company's vision, the companies built a digital security operations platform with a heavy play of cognitive, artificial-intelligence-based technology. The platform provided the capabilities to design a market-leading digital solution, called "CORSYS," which combines aspects of both the physical and digital worlds.

CORSYS supports security operations authorities who target containers, parcels, passengers or post/mail to prioritize threats so

they can focus their valuable resources in the right places—on targets that are more likely to be harboring anomalies of interest. Smiths can take aggregated data from a variety of sources, fuse it using advanced algorithmic processing, and predict which targets to inspect.

When the AI capability is applied to a given target, the result is an anonymized risk assessment score that defines the next actions for each target inspected based on a variety of algorithms. As a result, inspection resources and assets are better utilized, and unnecessary inspections are less frequent.

The question for Smiths then became, "How can we scale and blend those analytic capabilities into the digital core of our organization, rather than treating it like building a separate train on a different track?" Smiths Detection and Hitachi, along with Microsoft, have worked together to deliver this solution as a cloud platform, working with a variety of different stakeholders as well as security operations authorities and industry bodies—in the latter case, helping to pioneer new, open industry standards.

## About Hitachi Consulting

Hitachi Consulting is the digital solutions and professional services organization within Hitachi Ltd., a global technology and social innovation leader. Hitachi Consulting is a catalyst for positive business change, collaborating with clients to create solutions that help them innovate faster, maximize operational efficiency and deliver measurable, sustainable business results.

