R&D in AVSEC Industry

Rapiscan Systems - A global leader in security screening products & solutions focused on maximizing threat detection & operational success.
Headquartered in Hawthorne, CA
NASDAQ-listed “OSIS”
Over 3500 employees

Non-intrusive Inspection Products and Technology
Medical Monitoring and Anesthesia Systems
Optoelectronics Design and Contract Manufacturing
Full products range
R&D and Security
R&D in an industrial group

- OSI systems is an industrial group with different branches focusing on providing top of the range products for their customers. About 500 engineers dedicated to R&D for both new products and enhancement of existing ones. OSI systems and Rapiscan systems invest over 5% of our total net revenue in R&D.

- Differents technologies to look after different threats: transmission and backscatter X-Ray, 3D and Computed tomography, nuclear radiation detection, metal detection, radar and trace detection....

- Different initiatives to detect more threats: Customs-Trade partnership Against Terrorism; TSA Air Cargo Screening mandate; US Customs and Borders Protection Container Security Initiative
Founded Programs

• U.S. DHS, TSA and DNDO have supported the development of new security inspection technologies and products, where Rapiscan Systems is an industrial partner from DHS Center of Excellence ALERT (Awareness and Localization of Explosives-Related Threats) not only for AVSEC but for other means of transport like Railways, Highways and Waterways.

• US DoD founding program for active shooters detection

• US DoE support the Nuclear Smuggling and Detection Deterrence (NSDD) Program and Megaports programs
Cyber Compliance

Working with authorities to provide cyber compliant solutions
EDS Standard 3 Network and cyber compliance
Simulation Tools for new equipments implementation

Using experience from trials to build a simulation tool for other airports
CT Cabin and checkpoint simulation tools

- advanced simulation tool for checkpoints which includes body scanning, walk through metal detectors
- Help the airport or authority to model their airport checkpoints, with key data points
- Verified +/- 5% accuracy compared to real system data
Big Data management to improve operations

Using and managing datas provided by EDS
Gain insights to optimise operational performance
Airport Business Intelligence

- Example of sub-optimal staffing of operation. Data extract: from an airport
- Action - further investigation required for start and end of day operation. High timeout rate with reasonable staffing levels.
Thank You

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