

smiths detection

Industry Driving Data for a Customs "Eco System" - Exploiting the potential of cutting-edge technologies to strengthen Border security and enhance Customs processes.

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Session 3 of the WCO Technology Conference & Exhibition – 18 October 2022

AGENDA

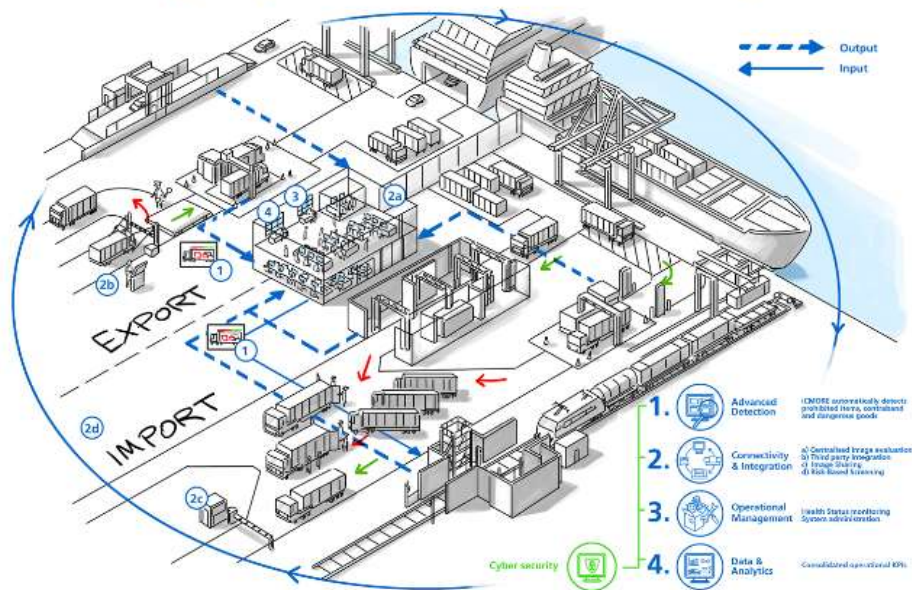
1. Introduction & an Open Architecture (OA) Approach
2. High Energy & Low Energy NII Systems – Performance enhancements
3. Image & Solution Performance Enhancements Facilitating Digital Transformation
4. Benefits of Centralised Screening and Stream Analytics Enabled
5. What we have learned – Voice of the Customer

Increased Traffic and Stream of Commerce



Demands on the Global Ports & Borders infrastructure and services, particularly that of Customs mean that Technology is increasingly being turned to in order to satisfy the needs of Customs Organizations as well as the customs facilitation process generally.

Digitally Enabled Port or Border Crossing



Digital technologies rightly so are looked at to facilitate the need for more efficient commerce.

An Open Architecture approach both
for Hardware and Software
concentrating on :

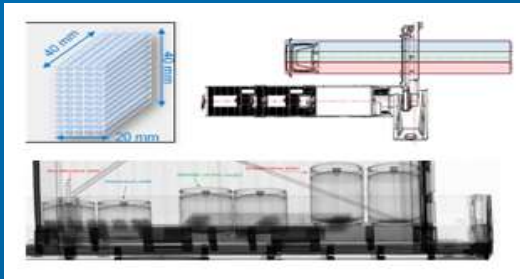
Performance
Operational Efficiencies
Interoperability
Connectivity
Cyber Security



Our NII Technology solutions are connecting and providing:

Performance - High Energy - **Augmented** Xray Technology

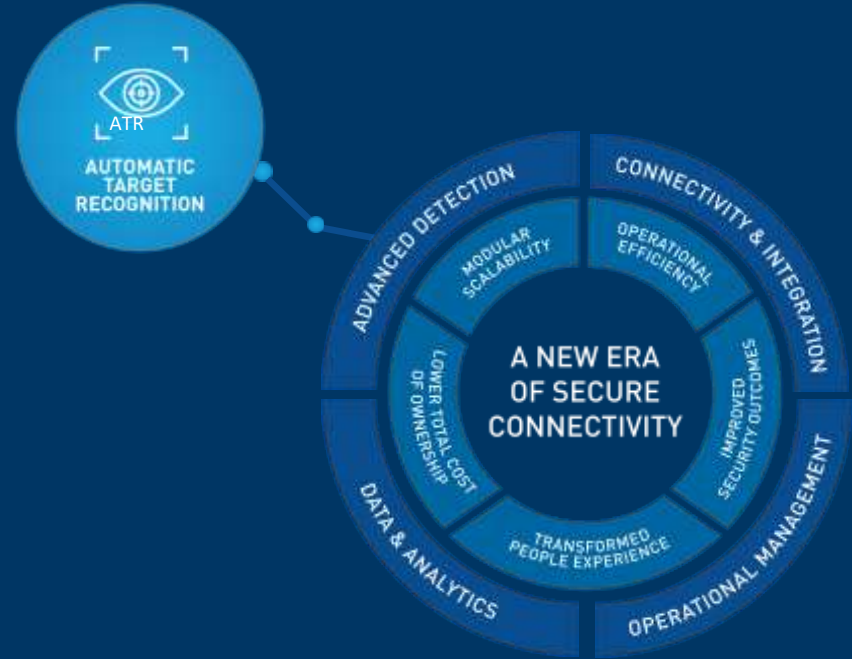
- New detection technology (detectors, electronics) – Multi array Providing Localization in Depth
- High performance LINAC (variable energy, frequency), enhanced stability) up to 1KHz



Advanced algorithms toolbox (iCMore)



Enabled and facilitated by greater data collection.- An extensive array of ATR (Automated Target Recognition / Detection) capabilities / tools to facilitate the Customs processes.



NII Technology solutions are connecting and providing:

Performance – Low Energy – **Diffraction** Xray Technology.

X-ray diffraction (XRD) is a well-established material science method to determine molecular structures.

X-ray diffraction utilizes interference of X-ray waves diffracted on crystal planes to determine distances of the atoms.

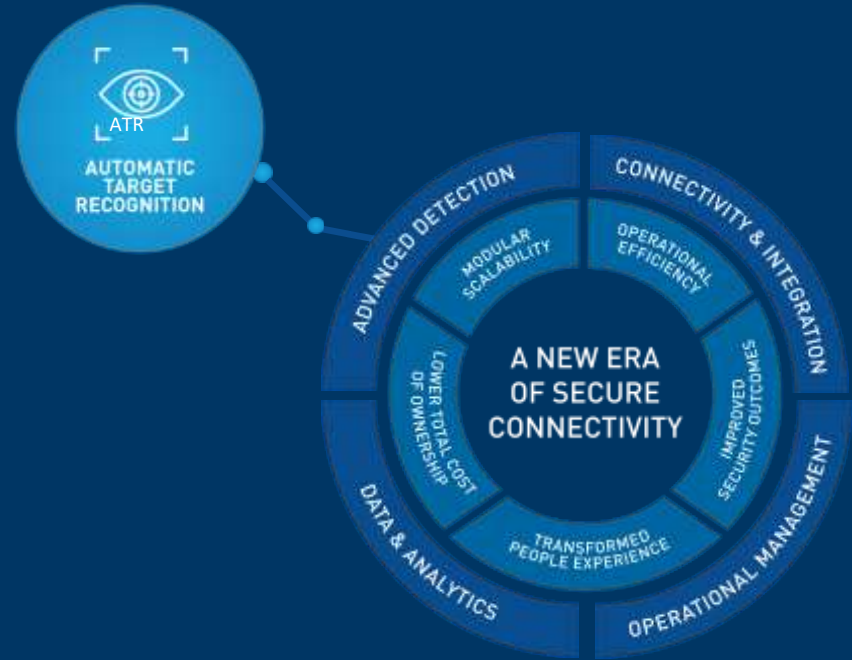
This leads to **material specificity**

CONOPS – Can be used with high speed CT systems and/or standalone – Cross border small parcel traffic is increasing exponentially and is arguably the supply chain of choice for distribution of narcotics!!

Advanced algorithms toolbox (iCMore)



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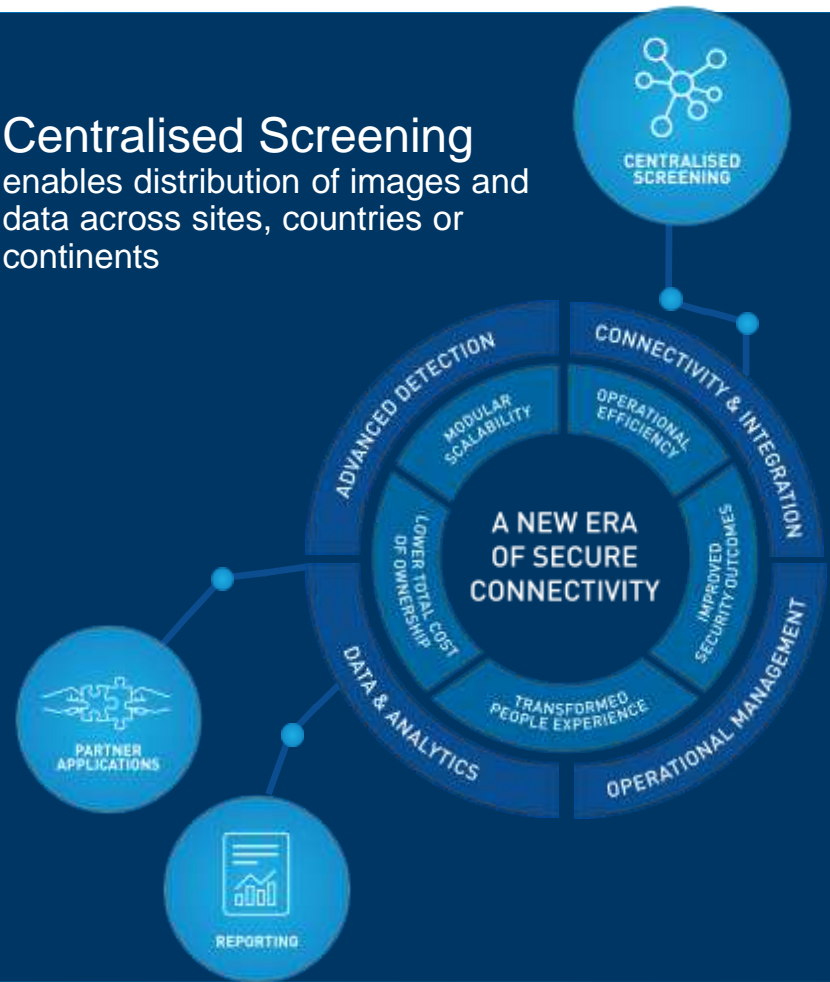


Our NII Technology Solutions Are connected :

- Operational Efficiencies – **Centralized** Capabilities delivering a scalable, integrated platform with a full application suite of tools and storage designed for your CONOPs.
- Connectivity – Management tools.- Stream Analytics
 - With Real-time **reporting** across your entire security operations, all from a single window. Presented on simple-to-understand dashboards, so you can track key performance indicators (KPIs) with ease.

Note: Full Stream Analytics/Dashboard Simulation on SD Stand.

Centralised Screening
enables distribution of images and data across sites, countries or continents



What we have learned from our market/customer engagements and more importantly, what we believe are still the (3) key imperatives for our customers today!

Speed and Efficiency of CONOPS

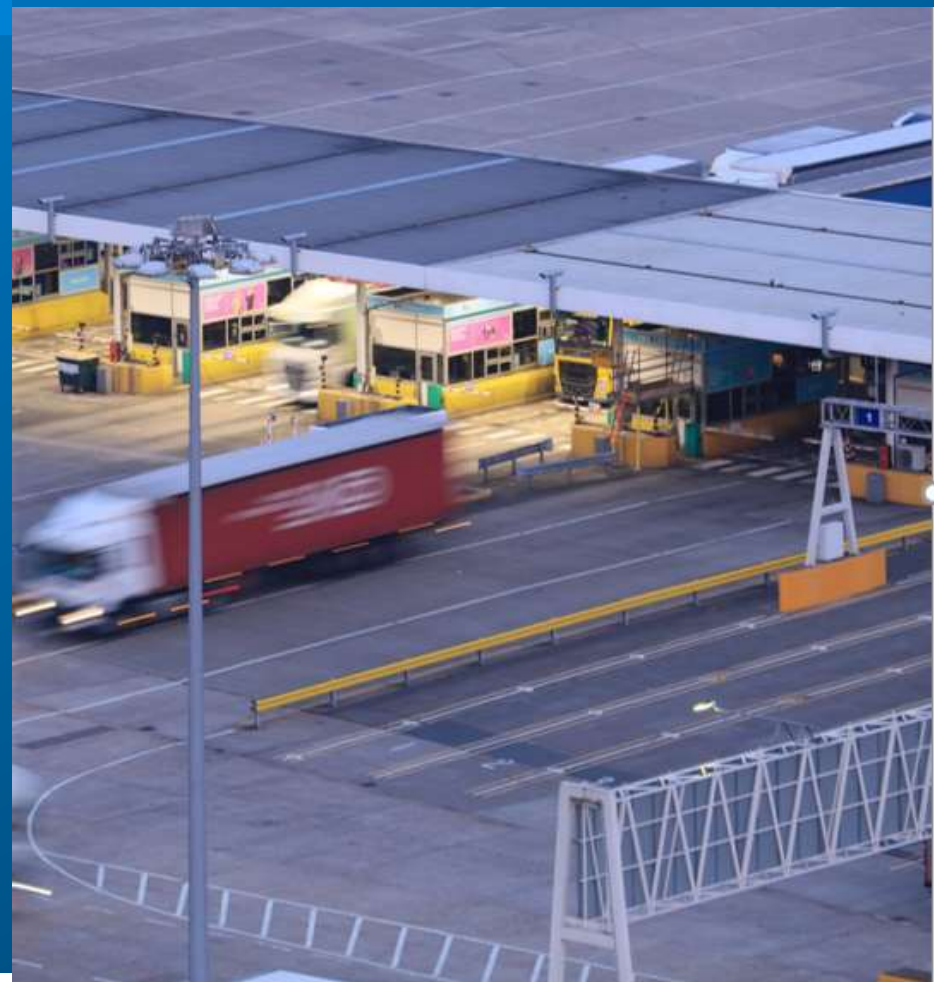
- Use of AI - Faster & Better decisions
- single source of truth for data with connectivity and interoperability

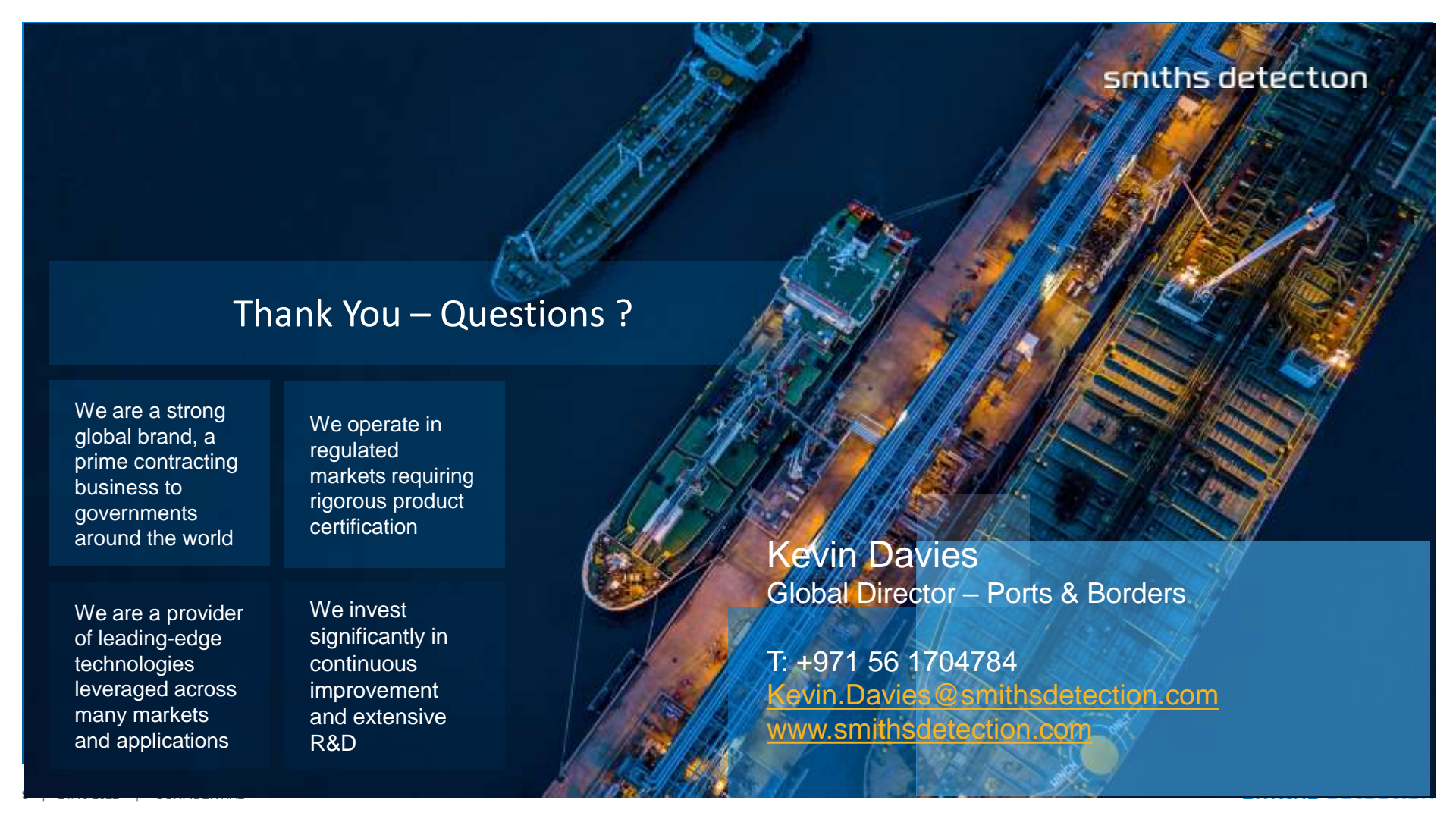
Effectiveness:

- Better targeted use of officers & other resources such as K9
- Better decisions and more accurate targeting

Collaboration:

- Better Local / global information sharing
- Better integration with your existing hardware and process





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Thank You – Questions ?

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