

# POWERING THE DIGITAL TRANSFORMATION OF CUSTOMS CONTROL

Chairman & President of NUCTECH  
Prof. Zhiqiang CHEN      Nov. 2021





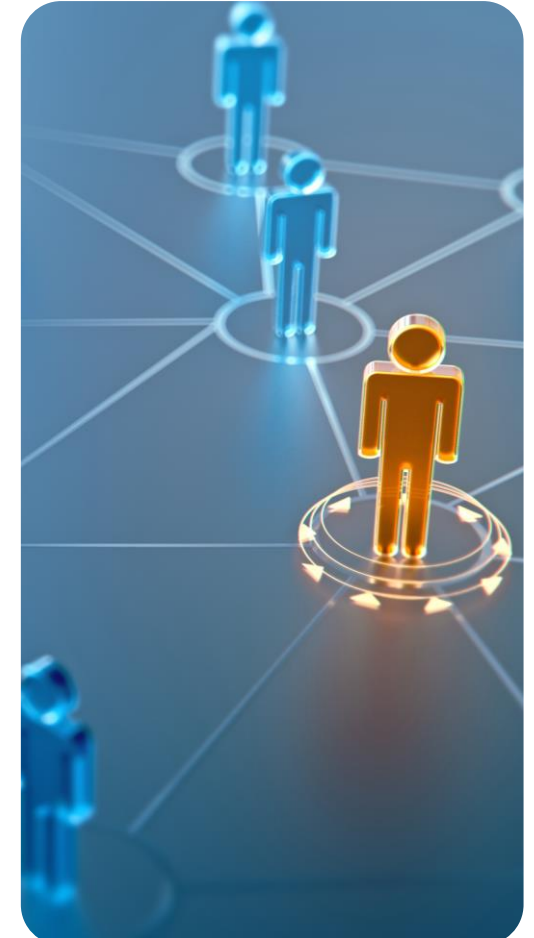
**Disrupted Supply Chain**

**Surging E-Commerce**



**Health-Related Concerns**

**Strained Human Resource**



# DIGITAL TRANSFORMATION

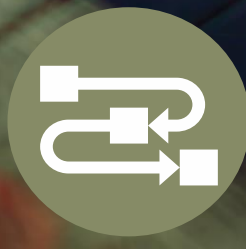
**Data** Gathering enabled by Next-Gen NII

**Data** Sharing facilitated by CIP and UFF

**Data** Intelligence empowered by AI



Security



Facilitation



Revenue



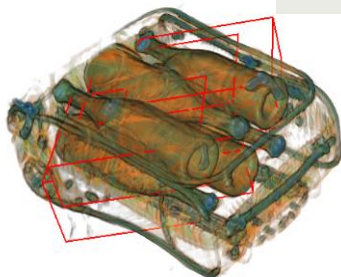
Health Safety



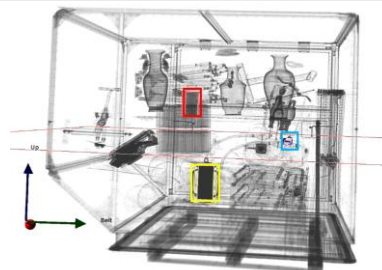
# NextGen NII

*The new era of 3D vision*

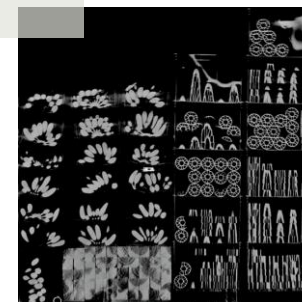
## Baggage and Parcels



## Consolidated Air Cargo (ULDs and Pallets)

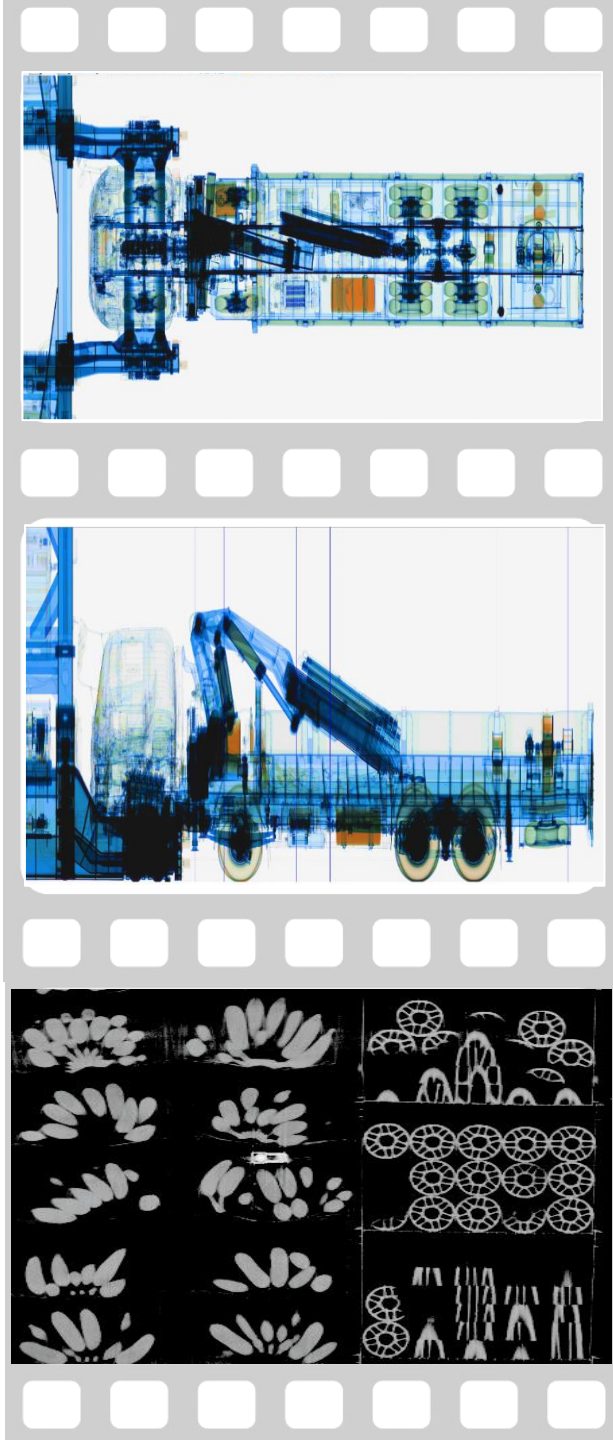
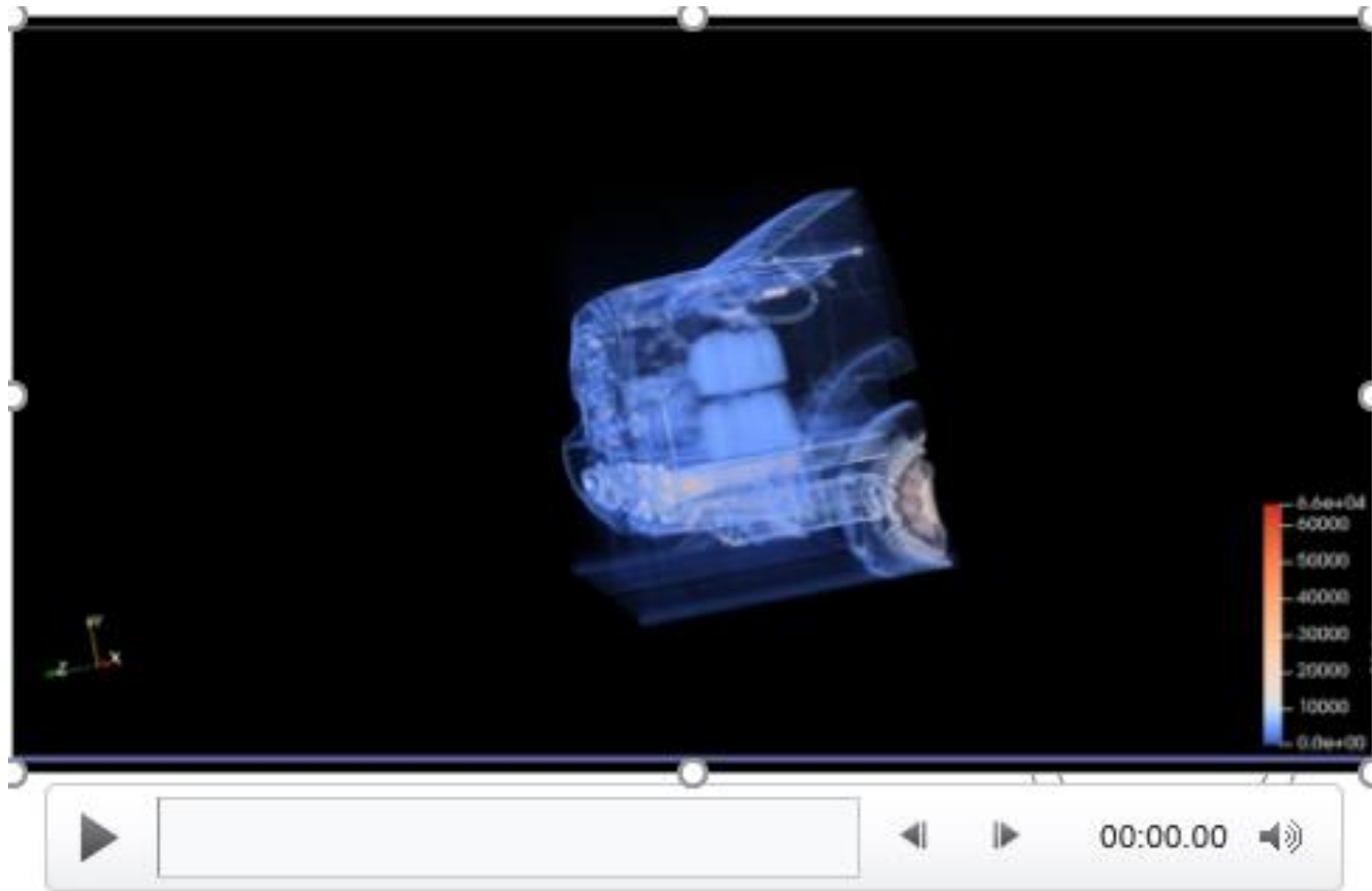


## Containers and Vehicles



**COMPUTED TOMOGRAPHY**

## ●●● FG9000DT Cargo / Vehicle CT Inspection System

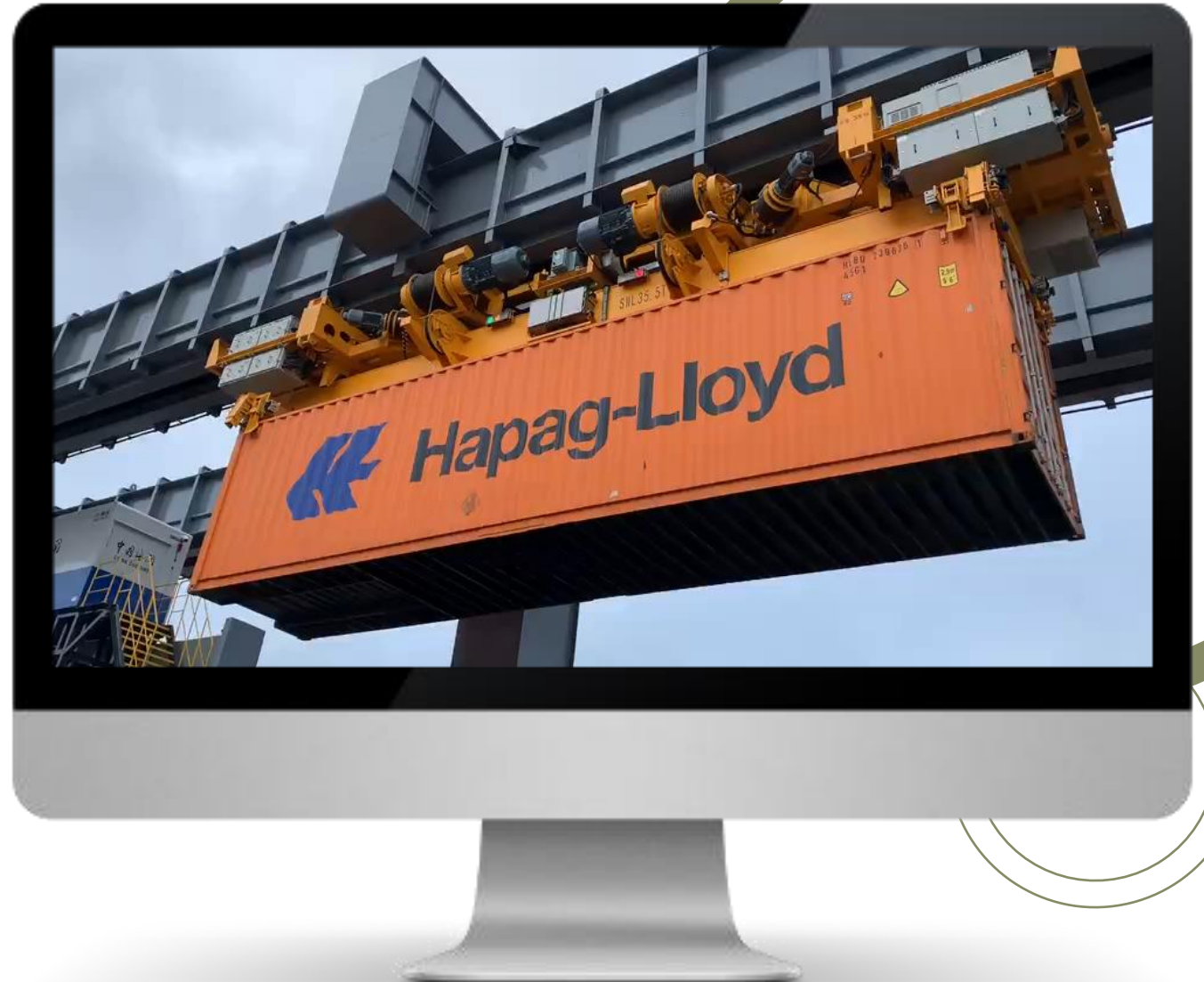


## ●●● Skyrail Inspection System

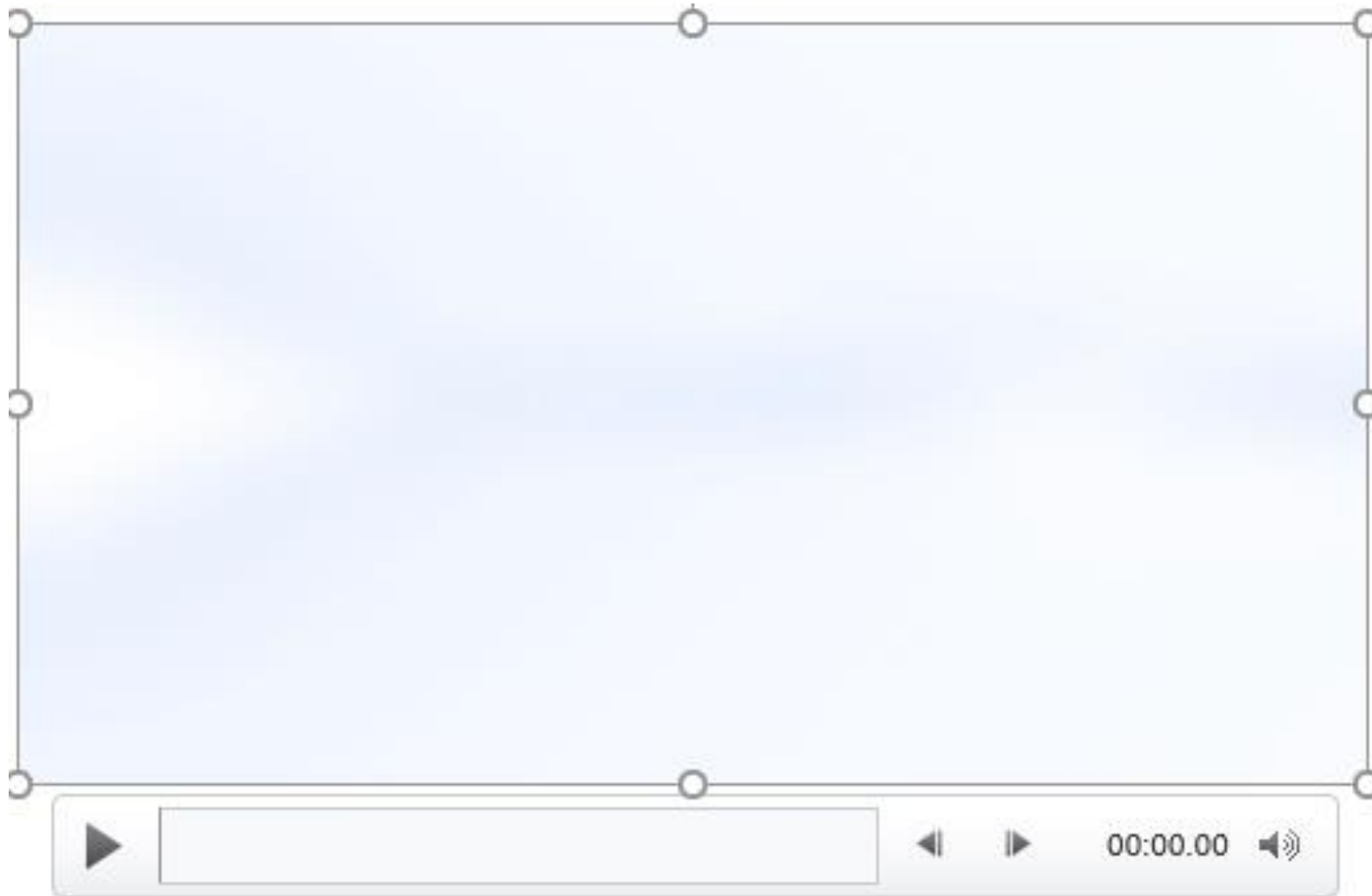
Data Gathering-  
Process Innovation



- ✓ Seamless integration with Skyrail conveying system
- ✓ Frictionless container transportation
- ✓ Inspection speed matched with conveying system
- ✓ 100% inspection

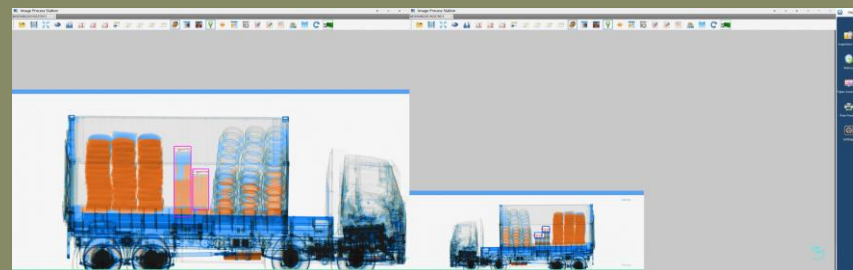
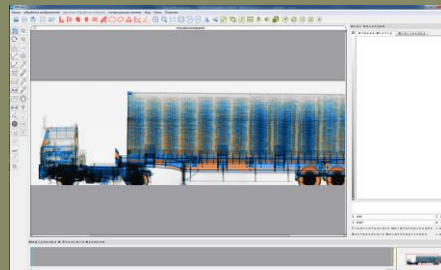
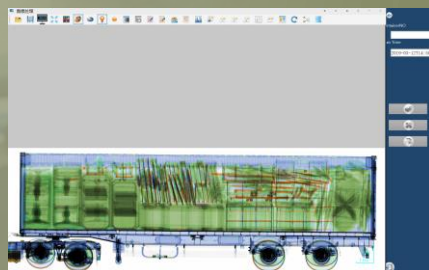
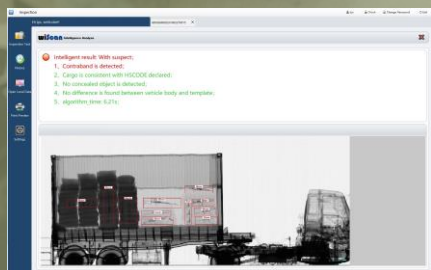
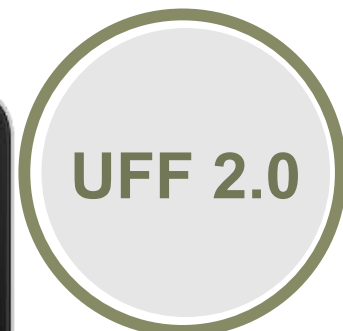
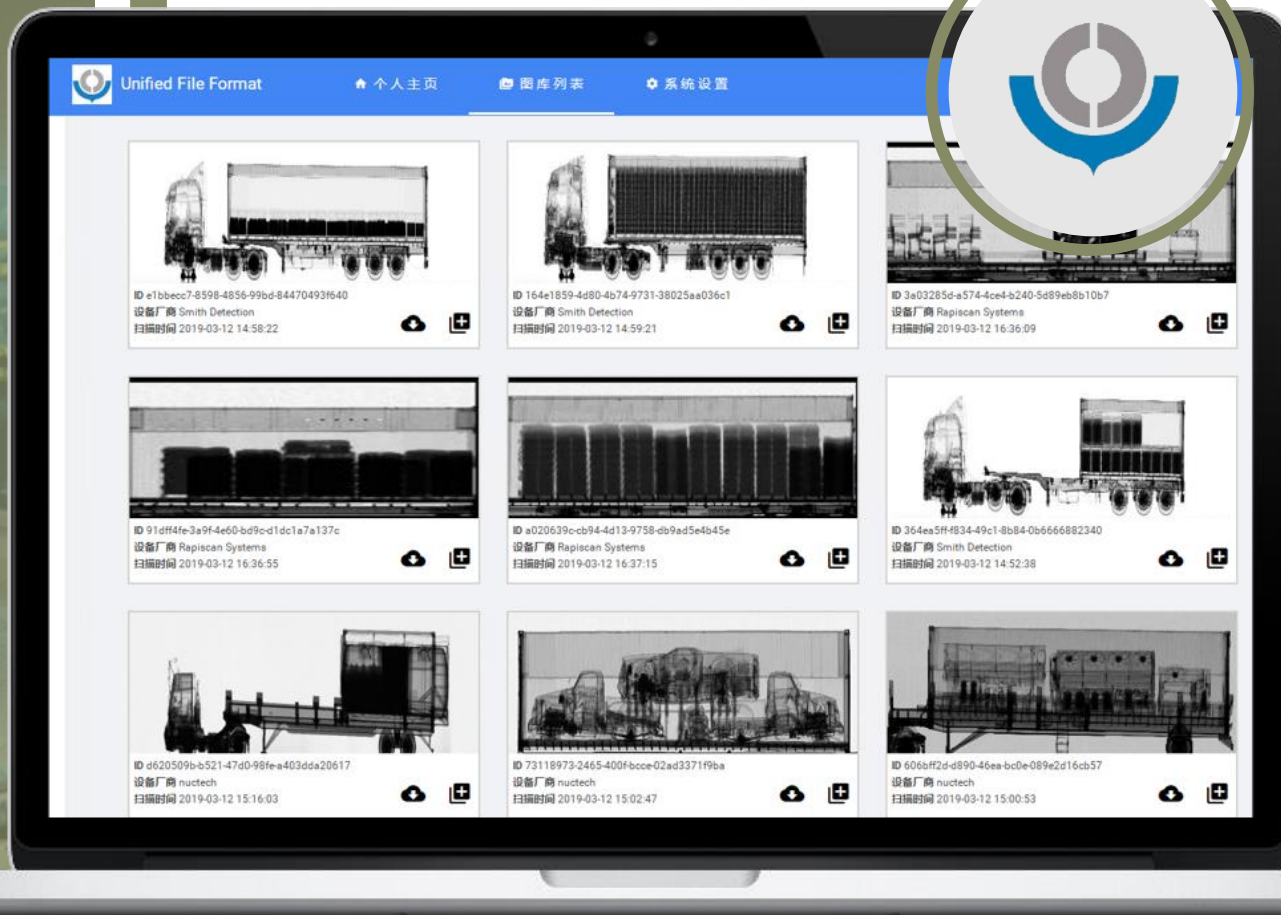


## ●●● MR6000DE Robotic Inspection System





# CIP + UFF





# ●●● ViCenter Customs Supervision and Command Center



Supervision Center



Data Center



Training Center

Customs Operation  
Supervision



Real- time Supervision  
and Dispatch

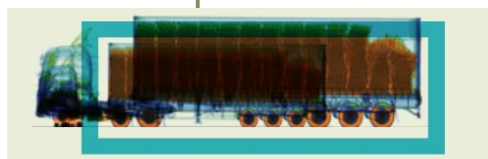


Data Monitoring  
and Display



UFF2.0

Scanned  
Images



Inspection  
Conclusion

Customs  
Intranet



UFF2.0

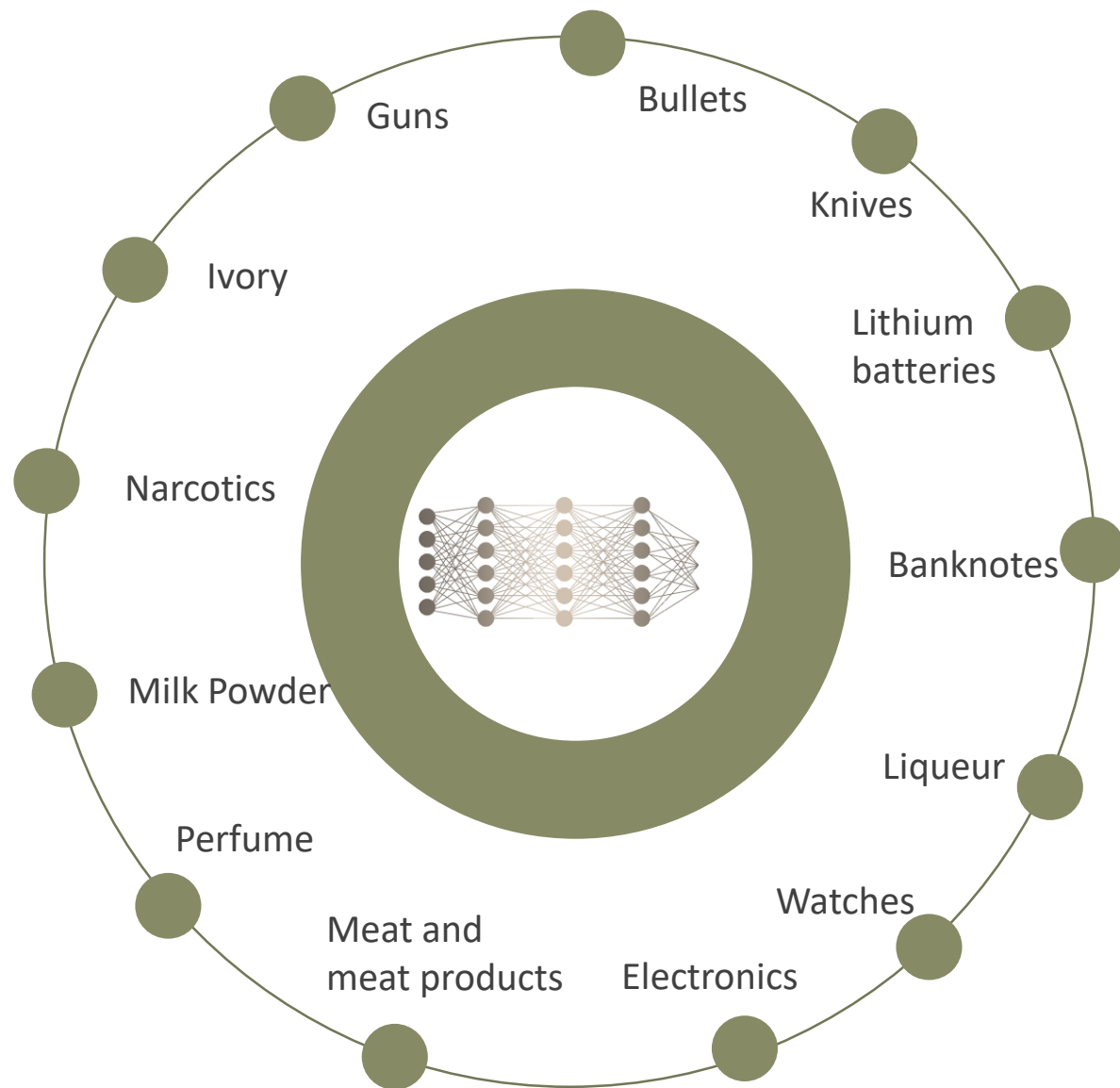
Customs  
Declarations  
Data



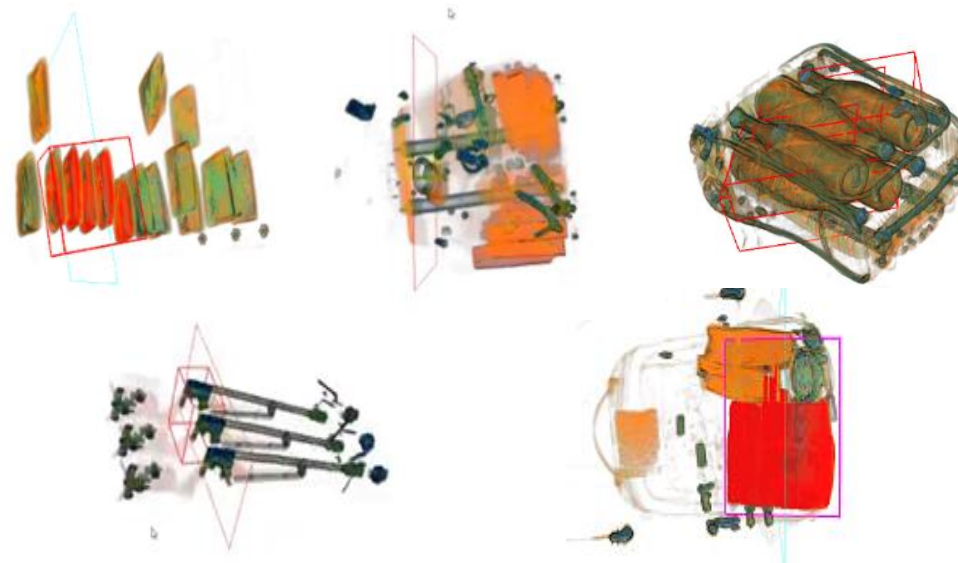





## ***Forward-Looking Application ...***





## ●●● Intelligence *Empowered by AI*



	Detection	False Alarm	Analysis Time
Junior team	86.74%	24.33%	
Senior team	97.16%	5.67%	
AI	94.51%	4.67%	

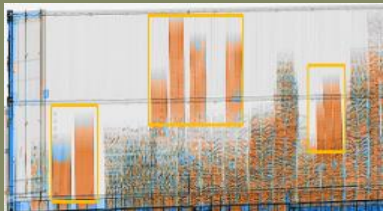




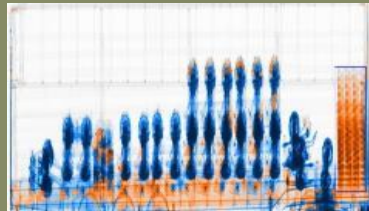
## Intelligence Empowered by AI



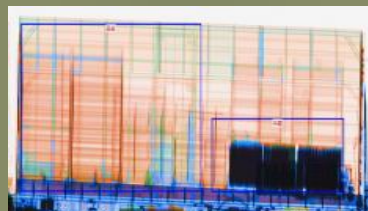
CIGARETTES



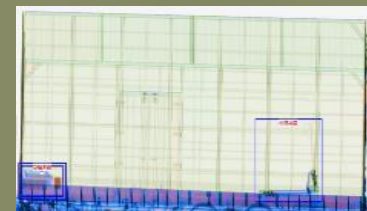
LIQUOR



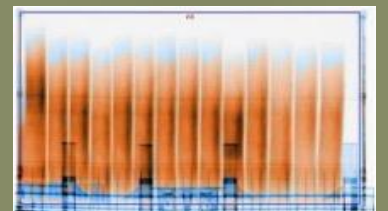
WASTES



EMPTY  
CONTAINER



HIDDEN ITEMS



# THANK YOU

Creating a Safer World