WCO GLOBAL AEO CONFERENCE SEAMLESS ELECTRONIC CARGO TRACKING SYSTEM (RECTS)

- THE OBJECTIVES
- THE CHALLENGES
- THE SEAMLESS ELECTRONIC CARGO TRACKING SYSTEM
- **HOW RECTS WORKS**
- THE BENEFITS

Our Slides Covered



Overview of ECTS Project

Regional Electronic Cargo Tracking System (RECTS)

Seamlessly monitoring of the movement of cargo using electronic means

Revenue Authorities (RA) Requirements

- To facilitate seamless flow of transit cargo in single view of cargo tracking along the gazetted route.
- To enable real time visibility
- To detect transit violation
- To integrated with customs systems and intelligent video analytical surveillance system

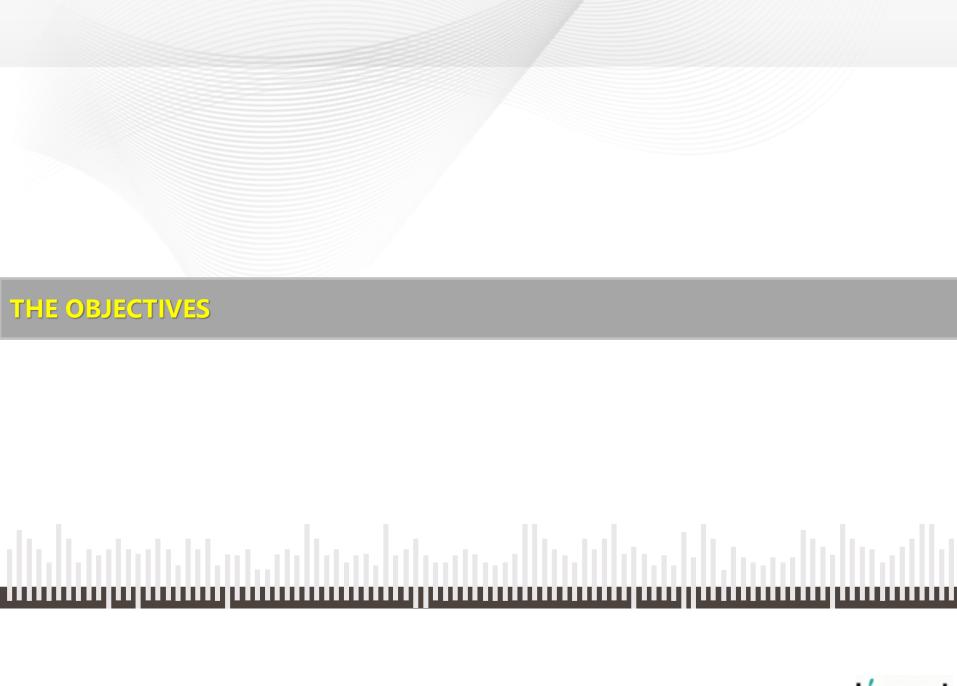
How RECTS will benefit RA

Short Term

- Increase Government Revenue
 - To curtail tax evasion, illegal dumping of goods
- Improved Transit Compliance
 - To monitor cargo and to provide cargo information on real and relevant time basis
 - To send real time alerts and the detail in the event of any breach of the system operations and components.
 - To prevent the loss of asset and human life due to incidents that often occur from the theft of goods/commodities.
- Reduce Transit Times
 - To prevent illegal stop
 - To prevent transit delay by driver
- Improved Transparency
 - To record events and playback of such event information for sharing with authorized stakeholders.
 - To provide reports/information on the status of trucks (tampered with or secure) on a real time basis.

Long Term

- Better Policies Formulation
- Improve Operation Efficiency & Productivity
- Enhanced Services Integrity
- Big Data Availability
- Enhanced inter-government coordination



Project Objectives



Improve Support Operation



Improve Carrier Operation

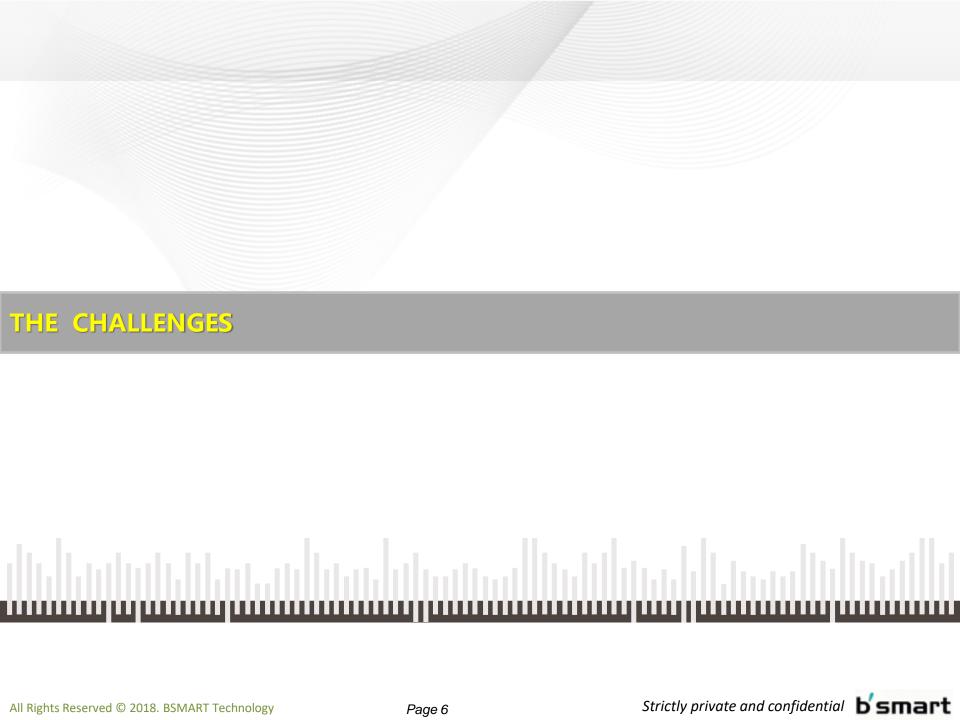


Improve Security Operation



Improve Cargo Operation





THE FACTS



Multiple Countries



Multiple Systems



Lack of Holistic Visibility



Barrier to Cross Border Trade

Inconsistent with the Regional Integration Agenda of trade facilitation and ease of doing business.

THE CHALLENGES













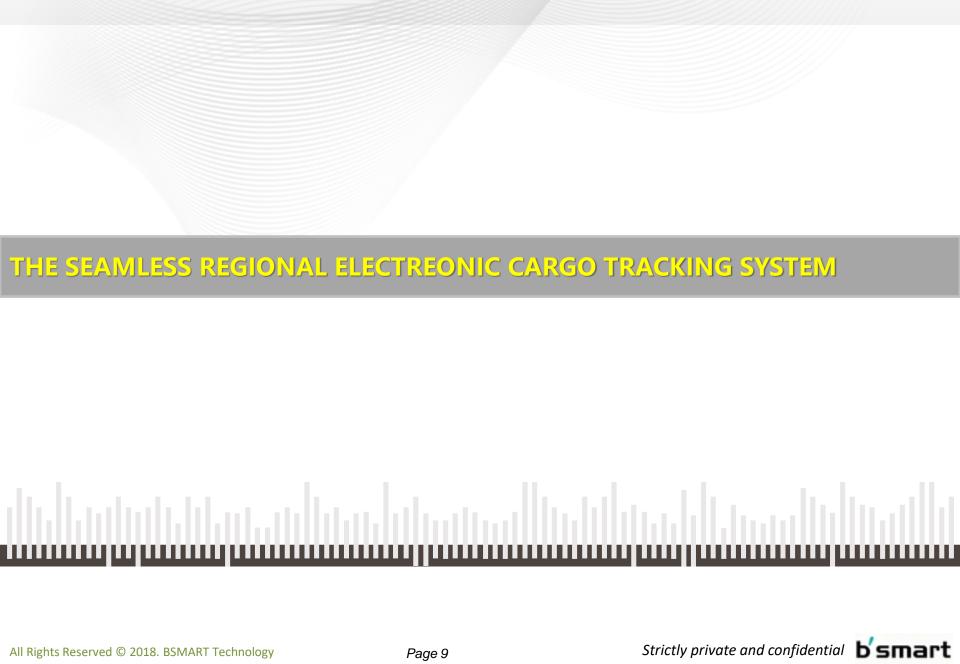




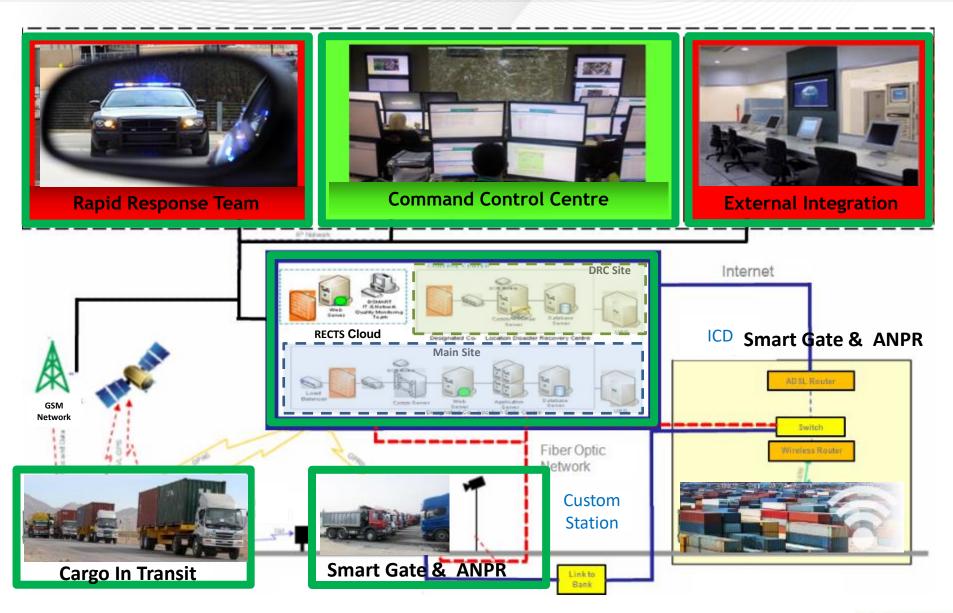








RECTS Overview



Cloud RECTS with Local Disaster Recovery





Operational RECTS Platform





Electronic Seal



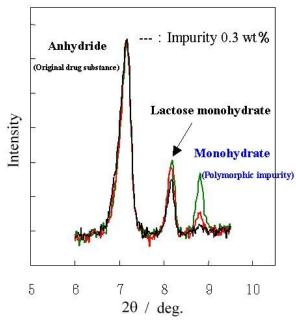
Electronic Fuel Sensor

b'smart









Page 14

Electronic LOCK

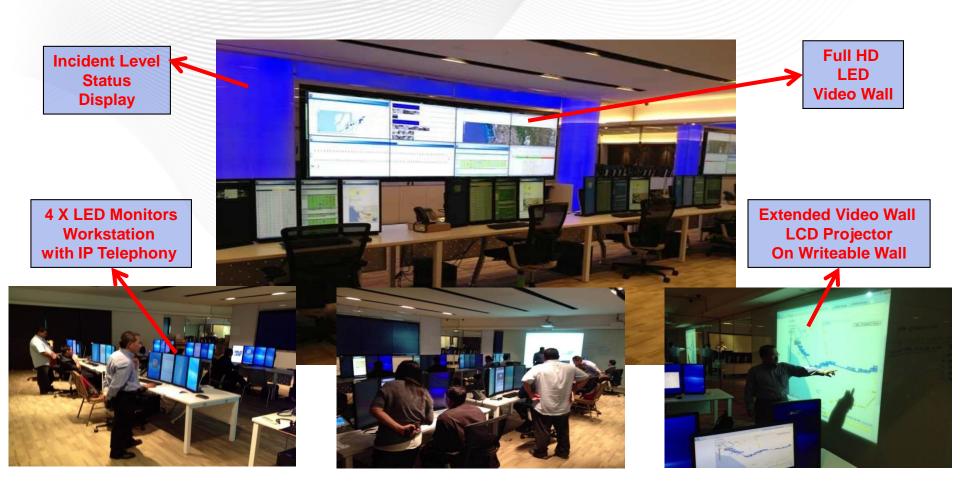




Intelligent Video Surveillance



Centralized Monitoring Centre



Maintenance Office



Rapid Response Team



Dedicate RECTS Stop Area





Dedicate RECTS Compliance Lane

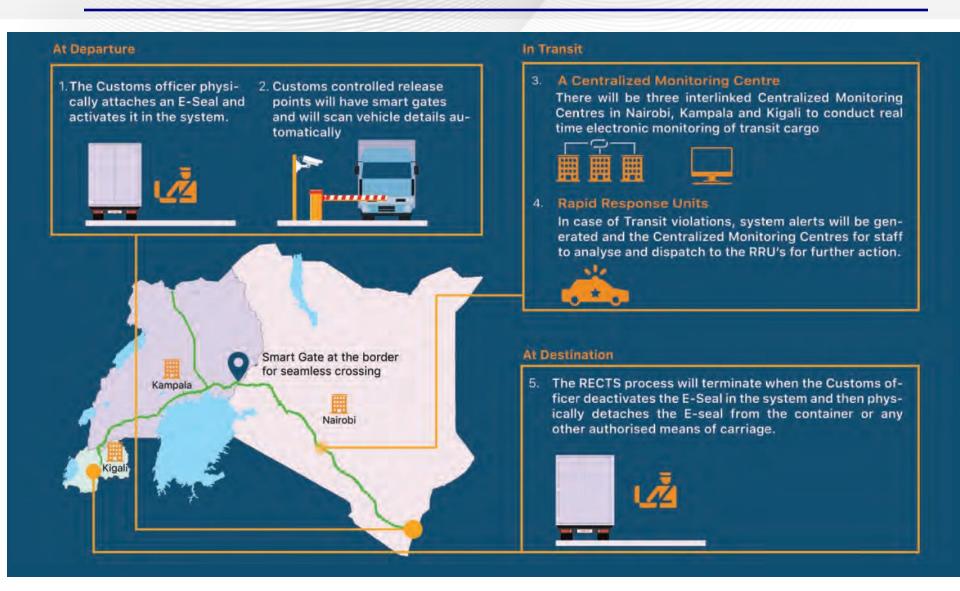




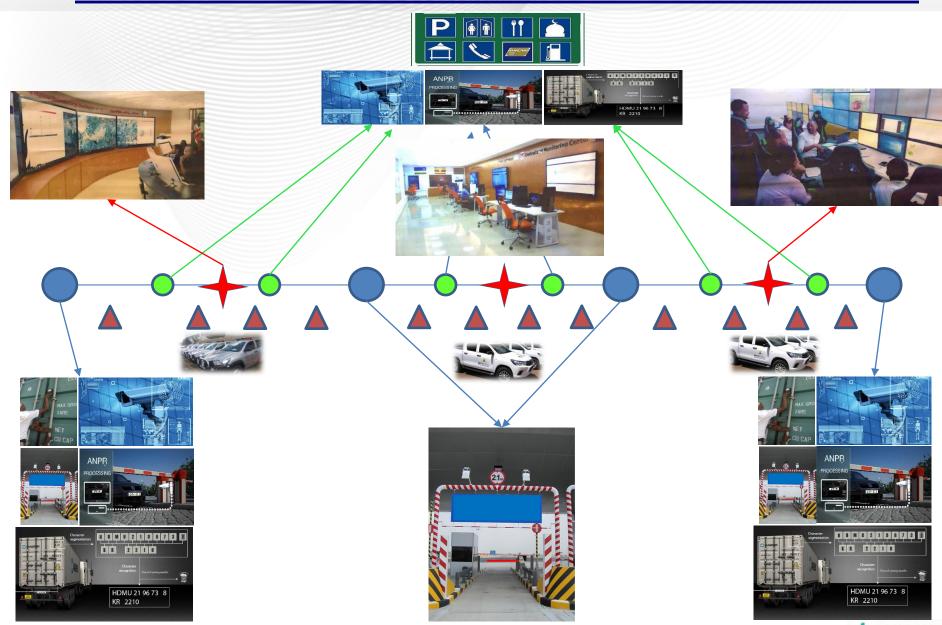


HOW RECTS WORKS

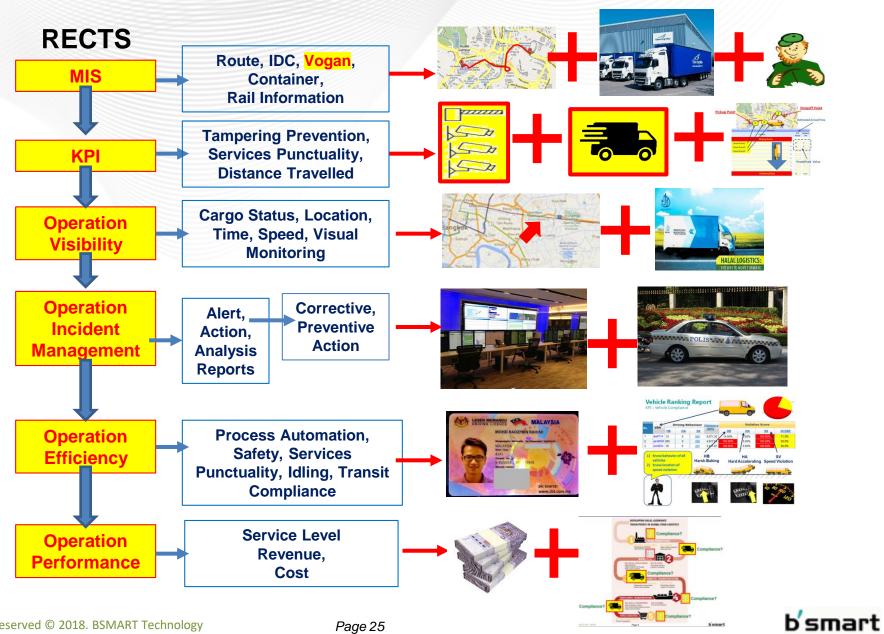
How EAC RECTS Work



Transit Overview



Closer Look into Operation



Lack of real time integrated monitoring & coordination results in longer downtime & lost of revenue due to theft. RECTS emphasize on these localized yet integrated 4 steps (continue improvement approach) the issue:





Monitoring

IT Infrastructure 24x7 Monitoring







Rapid Response Team

Response

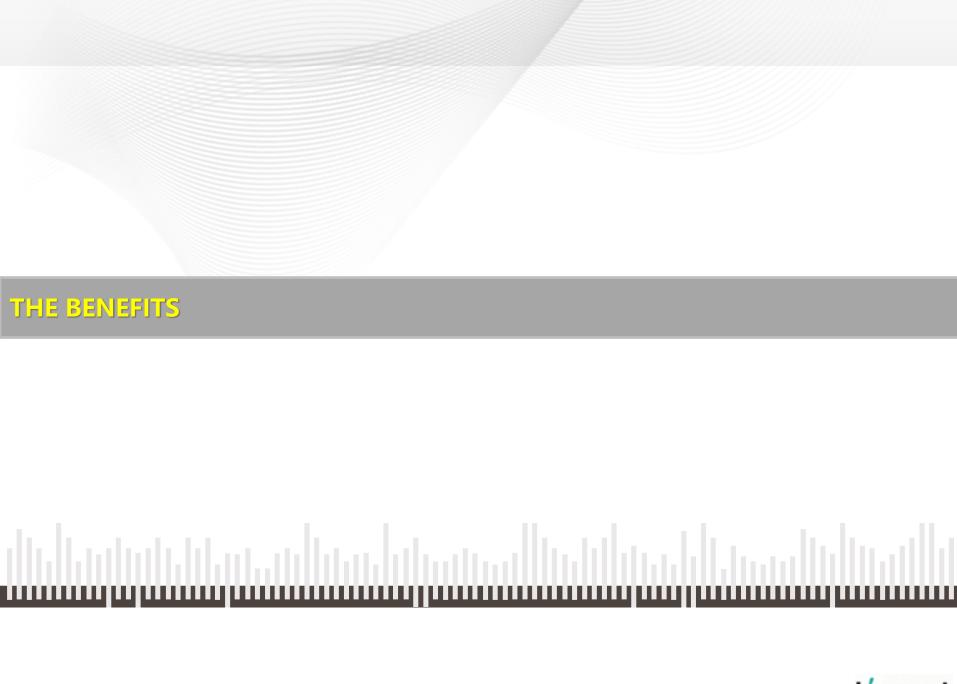


Early Intruder Detection via Video Surveillance: Rapid Response Team Notified: 5 mins Cable Vibration Detection due to Cable lifting: Rapid Response Team Standby: 15 mins

Power Disconnection due to Cable Cutting: Rapid Response Team Dispatched: 30 mins

Stolen Asset Tracking due to Geo-Fencing triggered: Rapid Response Team Tracking: 60mins





Trade Facilitation Benefits











RECTS case study: Enhanced Cargo Security





Incidents 2017	Uganda: Revenue protected	Kenya: Revenue Protected

TOTALS 153 USD 5,084,594 135 USD 2,036,808

RECTS case study: Transit Time reduced by >50%

	Average Transit time in days	
	Before	Now
Mombasa - Malaba border	6 days	2 days, 5 hrs
Mombasa – Busia border	6 days	2 days, 1 hrs
Mombasa - Kampala	14 days	3 days, 14 hrs
Mombasa - Elegu	17 days	3 days, 13 hrs
Mombasa – Kigali	21 days	6 days, 1hrs

RECTS Case study: Reduced Cost of doing Business

For every e-monitored consignment, waiting & escort costs are saved:

