Experience with Electronic Cargo **Tracking System in Pakistan**

Pakistan Customs 2019



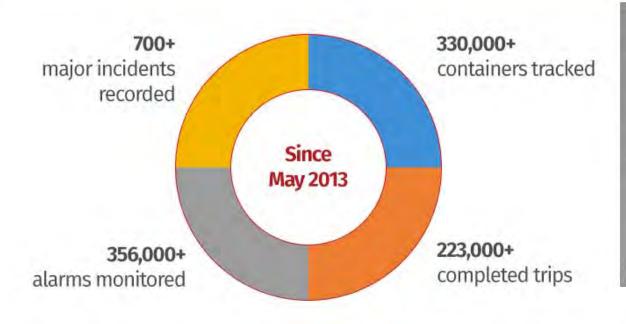
Safe Transport Environment Project – Performance Overview

Project Overview

Project initiated to manage risk of cargo pilferage in Customs transit and transshipment movements

Project was initiated on 7th May, 2013 after award of license to TPL Trakker Ltd following due process

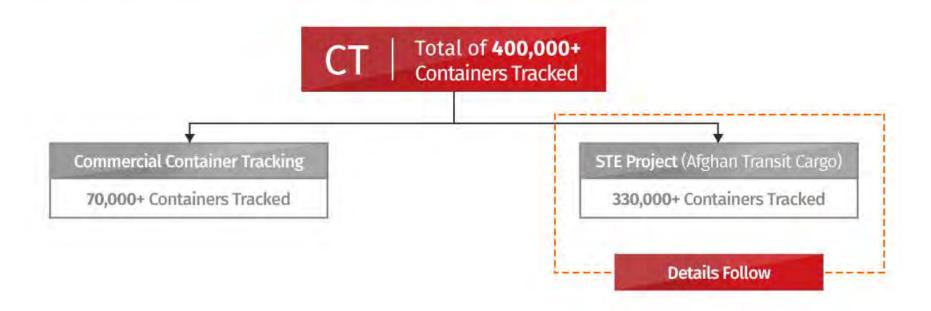
Successful implementation of tracking technology has resulted in disappearance of smuggling in Afghan Transit



- TPL Trakker has successfully renewed its license with the FBR for a further two years effective January 2019
- The license renewal is valid for all cargo types including transshipments and the upcoming CPEC business



Container Tracking Business Overview



Services Offered				
	Route Deviation		Out of Sync	
٠	Unusual Stoppage		Speed Alert	
	Door Intrusion Alert		Onsite Installation & Removal	



Operational Infrastructure

Central Control Room at Karachi



Over 125 personnel deployed across Pakistan

75 technicians

40+ control room agents

Central Control Room at Custom House Karachi

Regional Control Rooms at all Dry Ports

Quetta, Hyderabad, Multan, Faisalabad, Sialkot, Peshawar, Lahore, Islamabad, Torkham, Chaman

Nationwide Recovery Teams for liaison with Customs MEUs

Actual Installed Container Security Device



Tracking Device - GT Hybrid

- Thin, Low-Profile Enclosure
- Security Cable Option for container locking bars or latch
- Flexible Dual Mode Cellular and Globalstar Satellite Communications
- Quick & Simple Installation
- Interfaces to other ERP, TMS, WMS, and MIS systems
- Rechargeable through same connectors.
- Battery life: 30 days at 30-minutes report interval
- Internal Motion Sensor.
- Route deviation.
- 24/7 active monitoring.
- Daily MIS reports/Trip Summaries.
- Unusual Stoppages.
- Environmentally Hardened
- Quick & Simple Installation.
- Flexible Mounting System.
- Software: Locally hosted web based software available on intranet OR internet



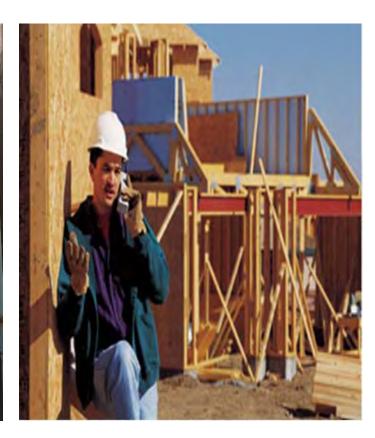
Trip Start Activities (Installations and Integration)

INSTALLATION

SMS INFO









End to End Process XML Information Automated XML Messages 1. Bonded carrier name between PRAL / Customs IT Customs / Port name **Systems (One Custom / Weboc)** Destination **WEBOC** Container # and Tracking System Database Vehicle registration # (jointly tested by IT Teams) Reconciliation XML to TPL Technician sends CSD & with PRAL data for **Database Server** CCR information to SMS to TPL Short Container Vehicle #. hosted in CCR technician (vehicle code (Vehicle #, pairing Container #, Port (Customs Control # and container #) Container#, Unit #, process 5 Name and Room) SIM# Destination Unit shipment **Trip Monitoring** Device de-Trip End Report back to TPL (Alerts: Route installation (Vehicle #, deviation, unusual Diagnostic center Trip Start (Toorkham / Container #, via TCS (KHI / stoppage, breach, Report Chamman) Destination) 10 door alerts etc) LHR) **Unit Examination** Diagnostic Device charging for (Hardware and End certification for the Software, battery the re-use device re-use examination) ₁₁ 12 13

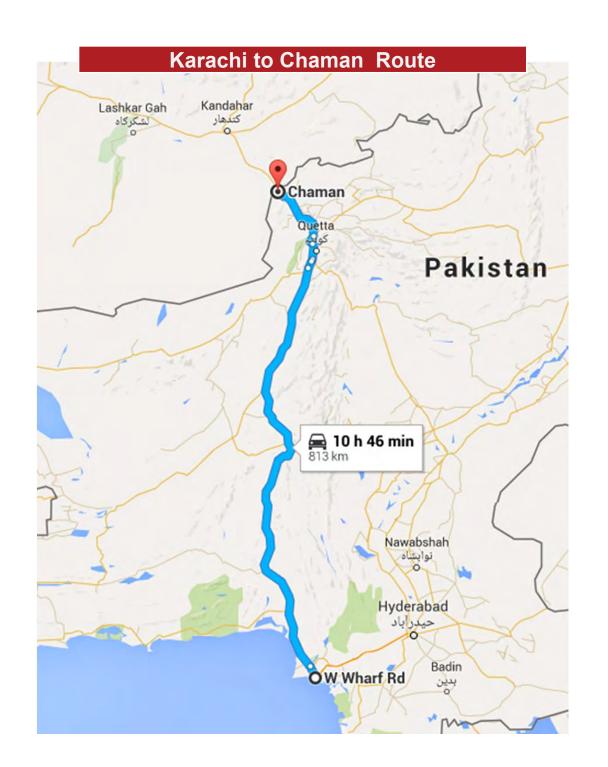
Types of Alerts from Tracking Company

S #	TYPE OF ALERTS	ACTION THEREON
1	Door Alert	100 % examination of consignment
2	Route Deviation	Physical verification of seals and examination of cargo, if required Notice to Bonded Carrier for persistent route deviations
3	Unusual Stoppage	Physical verification of seals and examination of cargo, if required Notice to Bonded Carrier for persistent route deviations
4	Out Of Sync	100 % examination of consignment
5	Accident / Toppling of Container	100 % examination of consignment

Nationwide deployment of Mobile Enforcement Units







TPL Trakker has saved more than Rs. 37 billion in tax revenue loss for FBR due to implementation of real-time tracking technology

Afghan Transit Trade Cargo Only

Prior to Initiation of Tracking

- 15,314 pilfered containers on the basis on 10-day trip time
- Loss in tax revenue estimated at Rs. 37 billion in 2011
- Numerous mega scams occurred due to lack of real-time tracking
 - . The Louis Berger Scam
 - Manifest Container Scam
 - ISAF Container Scam (Lunar Container Scam)

Post Initiation of Tracking

- Smuggling on Afghan Transit Trade has all but disappeared
- Cargo is being tracked in real-time with respect to:
 - Route being taken
 - Door/intrusion monitoring to avoid stuffing/de-stuffing of cargo
 - Unusual Stoppage of container en-route to avoid pilferage
 - Out of Sync

Source: FTO Report; Interim Report on Afghan Transit Trade in Suo Moto Case No.16 of 2010 of Honorable Supreme Court of Pakistan Regarding 'ISAF Container Scam'





Thank You

Q & A

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