

National Workshop on Secure Cross Border Transport Model

Electronic Tracking System/Benefits using electronic seal (eSeal) – Thailand Experience

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New Delhi India, 07 March 2014





WD Western Digital

Secure Free Zone Project

How did it all begin?

The uniqueness of Western Digital production environment sets the tone...

Multi-location manufacturing plants (5) and
Logistics center (1)

Approved Thai Customs Free Zone for all locations

Just in time raw material feed into production line

Non stop production 24 x 7

Average as many as 5,000 truck trips per month
carrying raw material and finished goods
between multiple locations

How did it all begin? (cont'd)

Being the Customs free zone resident, WD-TH is obligated to the following:

Filing (paper base) Customs declaration and performs Customs procedure on every shipment in/out of the free zones *<hence, cost associated>*

Nearly all shipments must go through randomize Customs inspection *<hence, time associated>*

Every 6 months, WD must file stock report on every shipment for all of their free zone locations *<hence, cost/time/accuracy associated>*

So, we're left with a challenge of ...

How did it all begin? (cont'd)

The following “how to...” “

Transform paper base Customs Declaration into electronic version and submit to Thai Customs?

Reduce (or minimize) the randomized inspection by Thai Customs?

All that and “Save Cost”!\$!\$!\$

Because Thai Customs doesn't want to invest in providing eSeal/infrastructure...only interested in DATA!

Plants in Bang Pa-In Industrial Estate



Virtual border manufacturing facility expansion!



Plants in Navanakorn Industrial Estate

Logistics Center in Bang Pa-In Industrial Estate

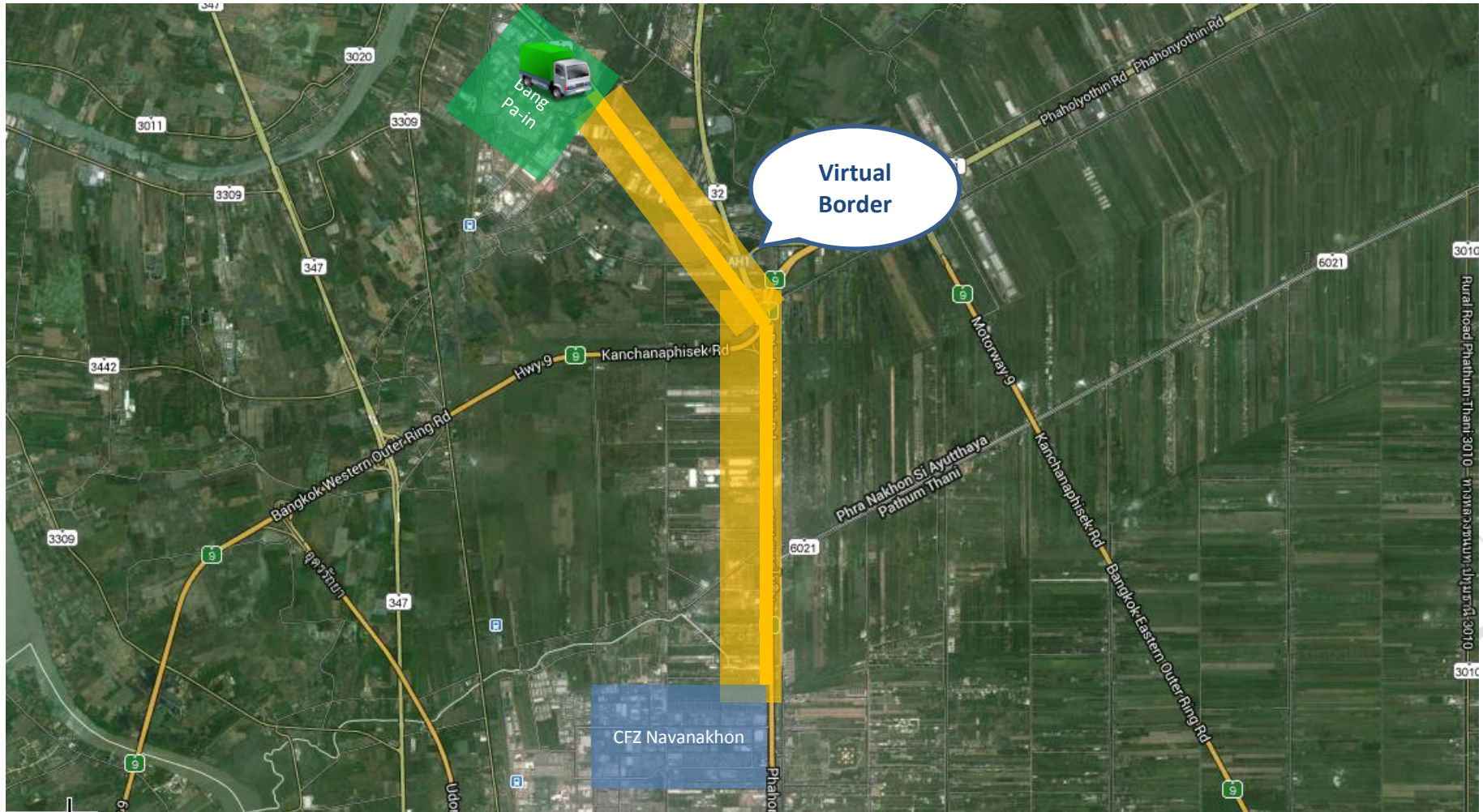
Transfer within or between Customs Free Zones

GeoZone



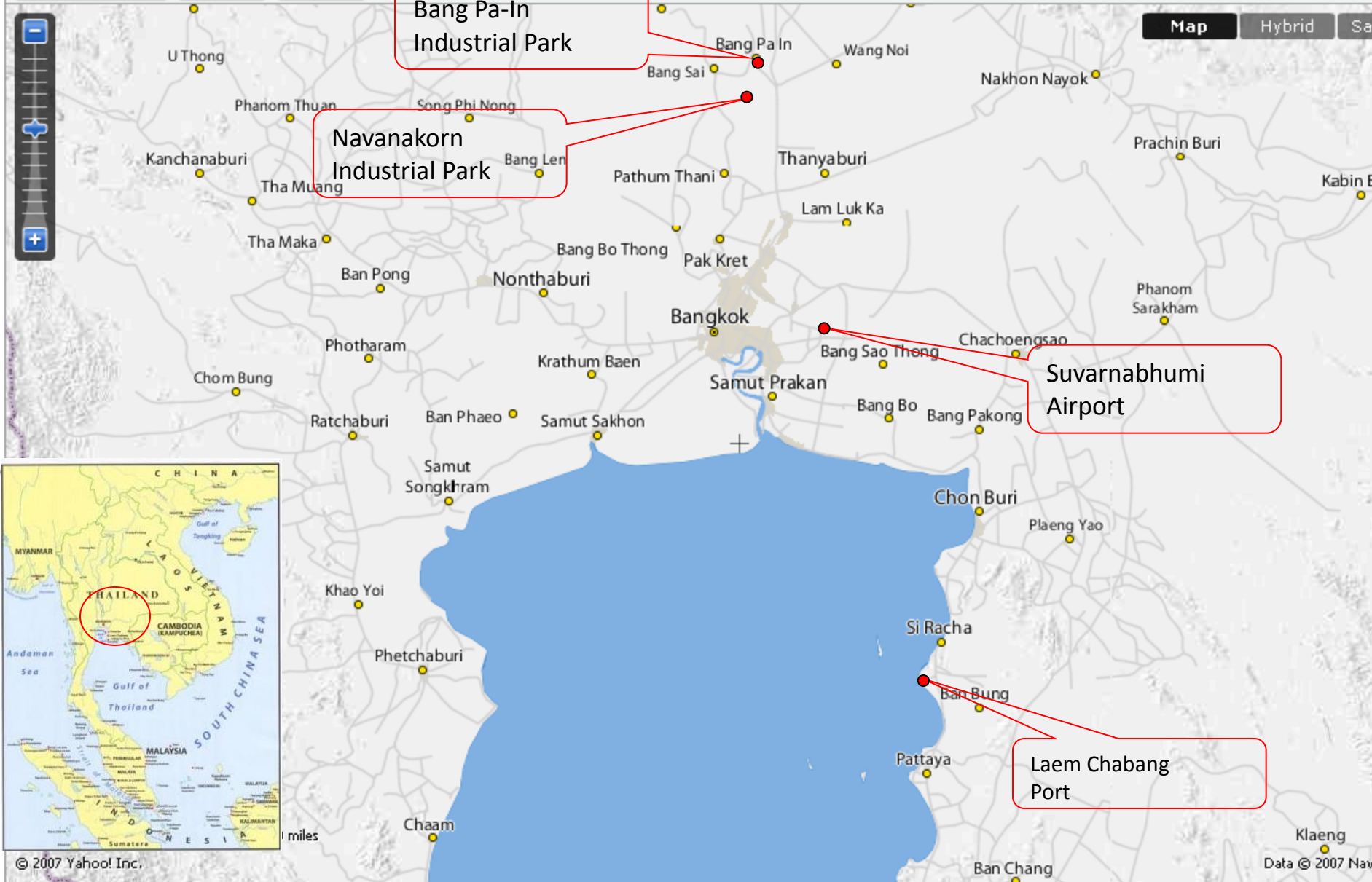
Transfer between Customs Free Zones

GeoCorridor



[Printable Version](#) [Send](#) [Save](#) Live Traffic

Map Hybrid Sat





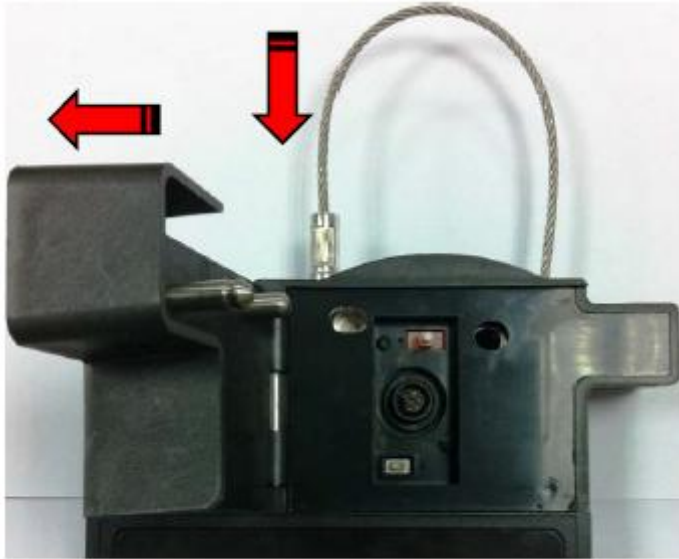
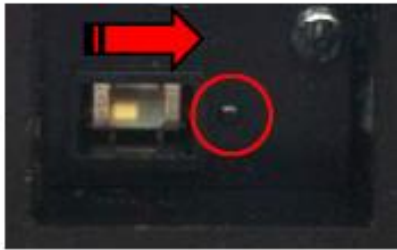
The eSeal

eLock device installation on various form factor

eLock Device (GPS/GPRS/RFID)



iScout IS-800 Device Installation in 3 simple steps



Trip Generation

Declaration Items	Generate Trip Query	Control Trip	Master	Inspection	Inspection2	Trip Monitoring	Report	Petition
Chang Password	Log out							

Control Trip

Trip ID	WD20130906-112334 ▼	Trip Date	06/09/2013	Status	Opened
From	WDTH5	To	WDTH	Est. Time	0 Minute(s)
Truck License No	78-2333 ▼	Tag No		Driver	AKAWIT ▼
Corridor Code	WDTH-WDB ▼				
					<input type="button" value="Confirm/Start Trip"/> <input type="button" value="Cancel"/>

Item No.	Invoice No.	Item Description (EN)	Unit	Qty	Value (Baht)	Last User	Update DateTime
1	0003	LENS COMP,WINKER R.RR	UN	5	169.41	Akawit Warintra	06/09/2013 11:24:05
2	0003	SW SET,START HOUSING COMP,STAR/NH167MU SW.UNIT,HORN	UN	16	2062.37	Akawit Warintra	06/09/2013 11:24:05

Trip Monitoring



10/04/2013 12:28:31

R20060928

- Declaration Items
- Generate Trip Query
- Control Trip
- Master
- Inspection
- Inspection2
- Trip Monitoring
- Report
- Petition

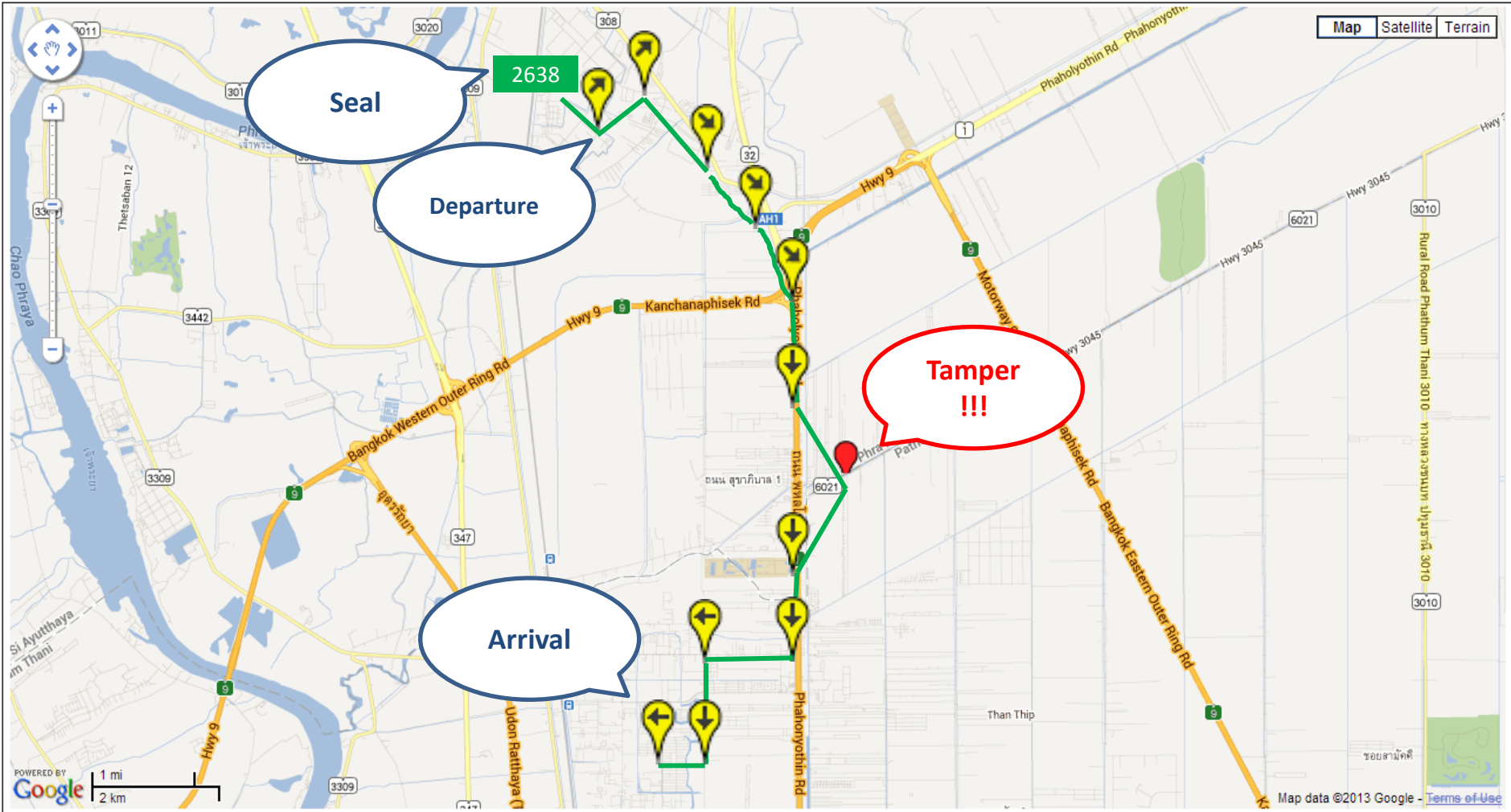
Chang Password Log out

Date	<input type="text" value="03/10/2013"/>	<input type="text" value="03/10/2013"/>	
Org.	<input type="text" value="All"/>	Dst.	<input type="text" value="All"/> Name Akawit Warintra
Status	<input type="text" value="All"/>	Document Type	<input type="text" value="All"/>
Trip ID	<input type="text"/>	Trip Status	<input type="text" value="All"/>
Tag	<input type="text"/>	Driver	<input type="text"/>
Truck	<input type="text"/>	<input type="button" value="Search"/>	

Display Records

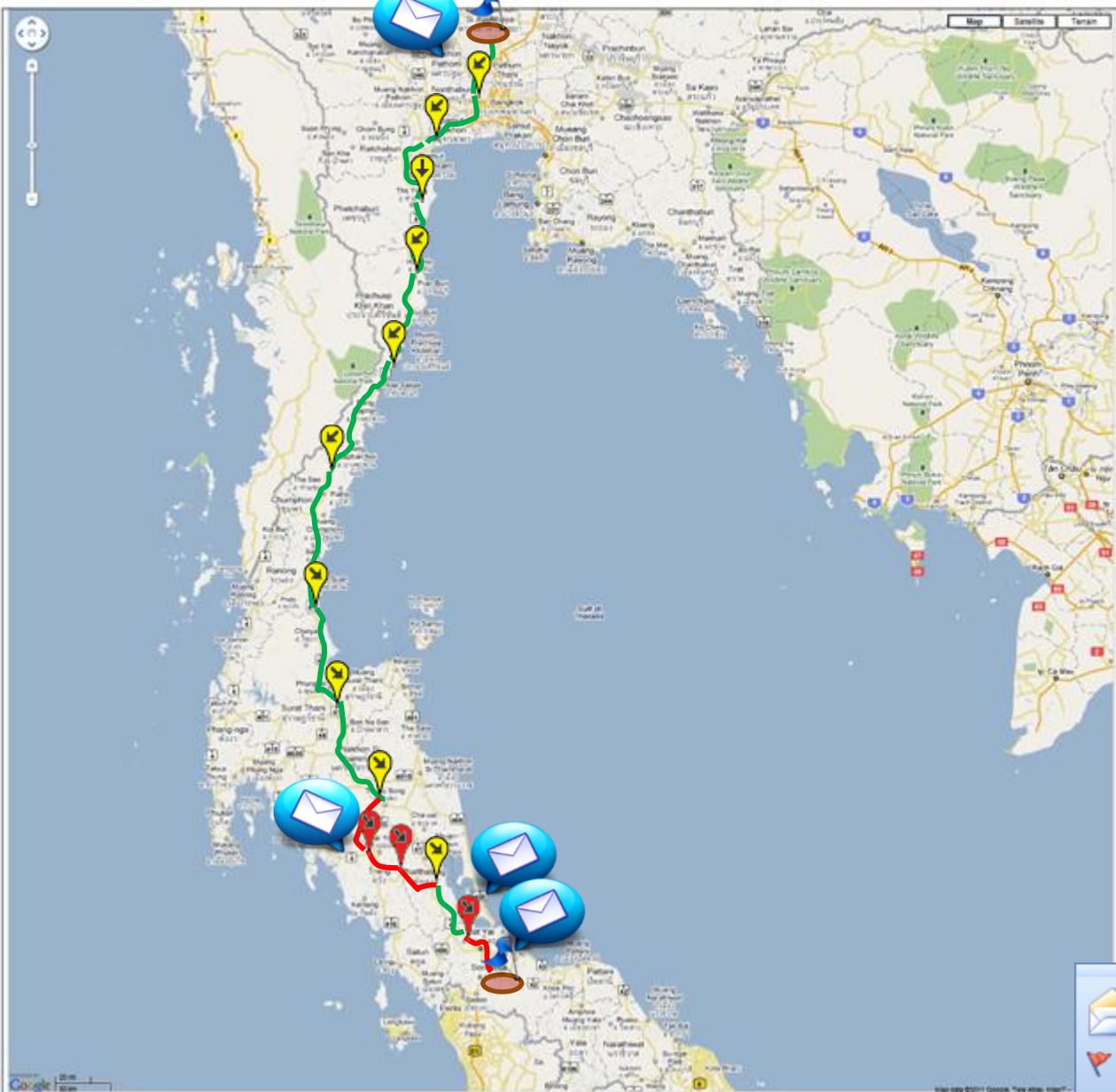
Trip ID	Org.	Dst.	Detail	Trip Status	Tag	Truck	Submit Time	Seal Time	Departure Time	Arrival Time	Tamper
WD20131003-094948				Tamper	2638	78-2333	03/10/2013 09:54:10	03/10/2013 09:56:43	03/10/2013 10:01:56	03/10/2013 10:38:35	03/10/2013 10:36:03
WD20131003-115103					2638	78-2333	03/10/2013 11:52:44	03/10/2013 11:54:20	03/10/2013 12:04:56	03/10/2013 12:27:56	
WD20131003-132815				Tamper	2638	78-2333	03/10/2013 13:38:28	03/10/2013 14:08:15	03/10/2013 14:18:19	03/10/2013 14:54:10	03/10/2013 14:52:42
WD20131003-145621					2638	78-2333	03/10/2013 15:02:00	03/10/2013 15:45:19	03/10/2013 15:55:04	03/10/2013 16:19:05	

Trip Monitoring (Real-time)



Display Records

Trip ID	Org.	Dst.	Detail	Trip Status	Tag	Truck	Submit Time	Seal Time	Departure Time	Arrival Time	Tamper
WD20131003-145621					2638	78-2333	03/10/2013 15:02:00	03/10/2013 15:08:20	03/10/2013 15:10:20	03/10/2013 15:20:20	03/10/2013 15:15:20



TimeZone:

Africa/Nairobi


Replay

InfoBox

Device:

Normal Alert




iSpot Administrator
Security Alert Notification !!!
 Device ID: 2230 Truck ID: 82-8290

Date 03/10/2013

Org. All

Status All

Trip ID

Tag

Truck

Display

Trip ID

WD20

WD20

WD20

WD20

Reduce Customs inspection from 45 mins to 15 mins ... improve raw material feed into production line...

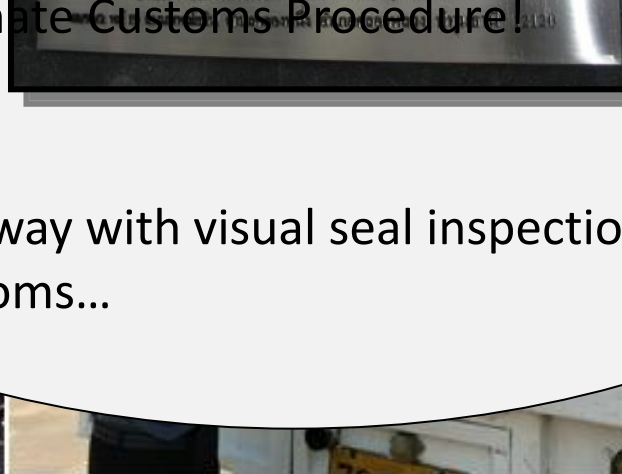
Visibility of WD's outsourced transport Operators performance...

And more...



Eliminate Customs Procedure!

Do away with visual seal inspection by the Customs...





**ADB – UNESCAP
Secure and Efficient
Cross Border Transport**



QUESTIONS & ANSWERS





Thank you

Thai International Freight forwarders Association (TIFFA)

