



EUROWATCH

**“Transport Security and Theft Prevention:
New Loss Reduction Models using
Telematics Technology”**

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Contents



- Freight crime – an introduction
- Telematics for freight security
 - Tractor-based systems
 - Trailer-based systems
 - Covert/Embedded systems
- TAPA EMEA
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European freight crime intelligence NEA European Parliament Study July 2007*

- €8.2 billion lost per year (5% not declared)
- €6.72 loss per trip
- 60% theft during stops
- 15% hijacking/armed robbery



* “Organised theft of commercial vehicles and their loads in the European Union, July 2007

Product stolen

1. Non electronic consumer goods – 19%
2. Consumer Electronic – 16%
3. Laptops & PDAs – 15%
4. Other IT - 31%



Source: NEA

Freight crimes reported during last 12 months

M6/Merseyside
Thefts from vehs

London/M25
"Round-the-Corner-Game"

Malmö/Gothenburg
Hijack/robbery

Frankfurt: Fake
police, hijacking

Heathrow: Hijackings,
Deception, Collisions,
Fake accidents

Czech/Polish border,
theft from vehicles

Essex/Dartford
Fake police

Austria: ware-
house attacks

Rotterdam/Schipol
Hijackings, Fake
police/Customs

North Italy:
trailer thefts

Luxembourg/Belgium
Theft from trailers

Italian rail
tobacco thefts

North of Madrid
Trailer thefts

Paris, warehouse attacks.
Fake police, CDG hijacks

Marseilles: theft
from vehicles

Genoa Container Port
Forged documents

South of Italy
Hijack

Greece: Illegal
Immigrants.



Country classifications

	Low Risk	Medium Risk	High Risk
High contra-theft	Estonia Finland	Austria, Denmark, Portugal	Belgium
Medium contra theft	Czech R Lithuania	Italy, Poland, Slovakia, Sweden, UK	Netherlands
Low contra theft	Latvia	Spain Luxembourg	France Germany
Unknown	Cyprus, Greece, Eire, Malta, Slovenia	Bulgaria Hungary Romania	

59% of loss



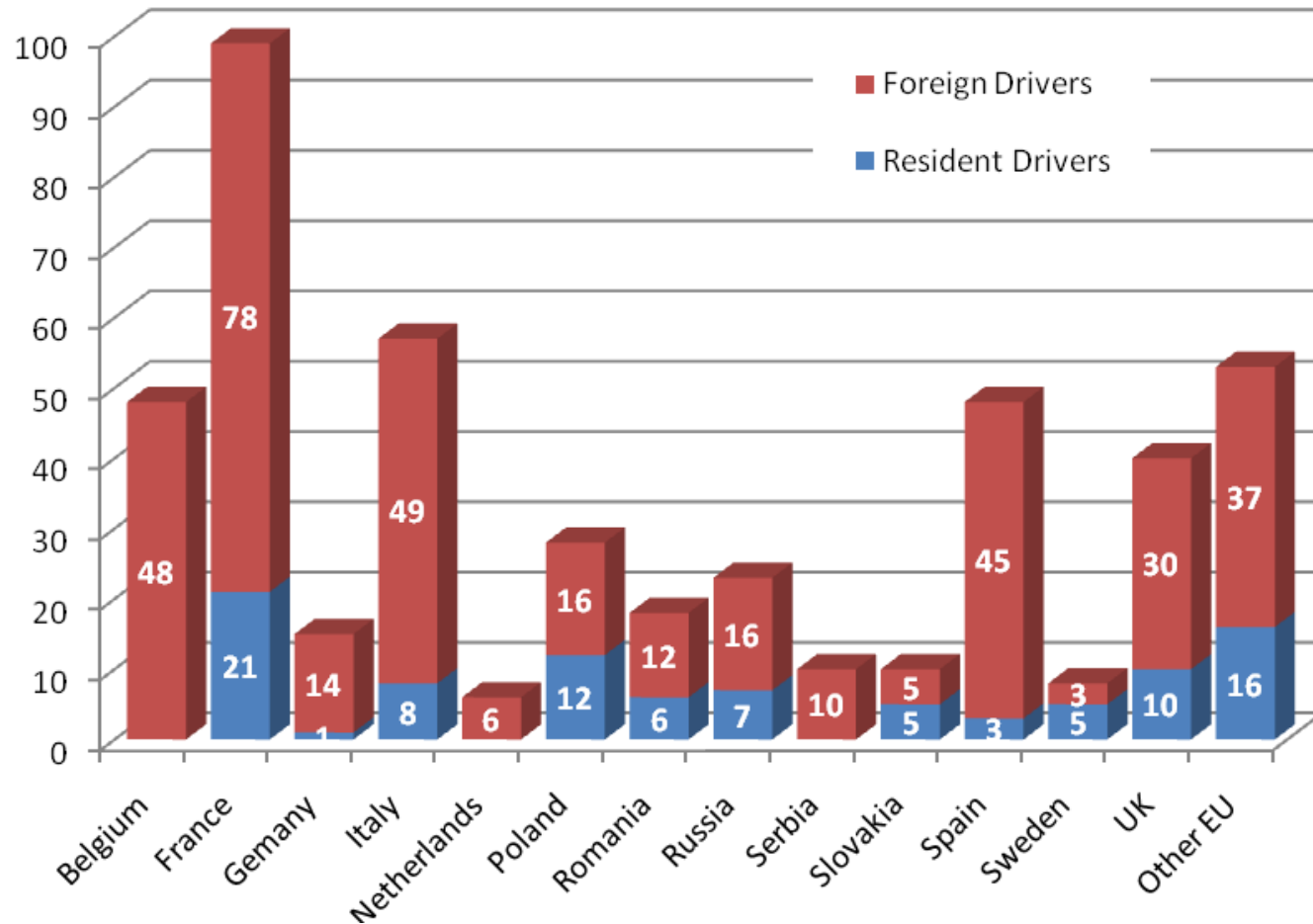
Source: NEA

Another snapshot...

- 1% of all commercial vehicles are victims of crime each year
- 17% of drivers attacked at least once in past 5 years, 30% more than once, 21% were physically assaulted
- 32% of drivers attacked claimed victim of use of gas
- 8% of attacks involved use of firearms
- 10% of all freight crimes involve hijacking
- 65% of “Whole Load Losses” stolen using inside information
- 30% of drivers attacked did not report attack to police

- 2% of freight crimes resulted in arrests by police
- Only 6 EU countries have dedicated Freight Crime Units

Attacks on foreign drivers versus resident



Source: IRU "Attacks on Drivers" Survey 2008

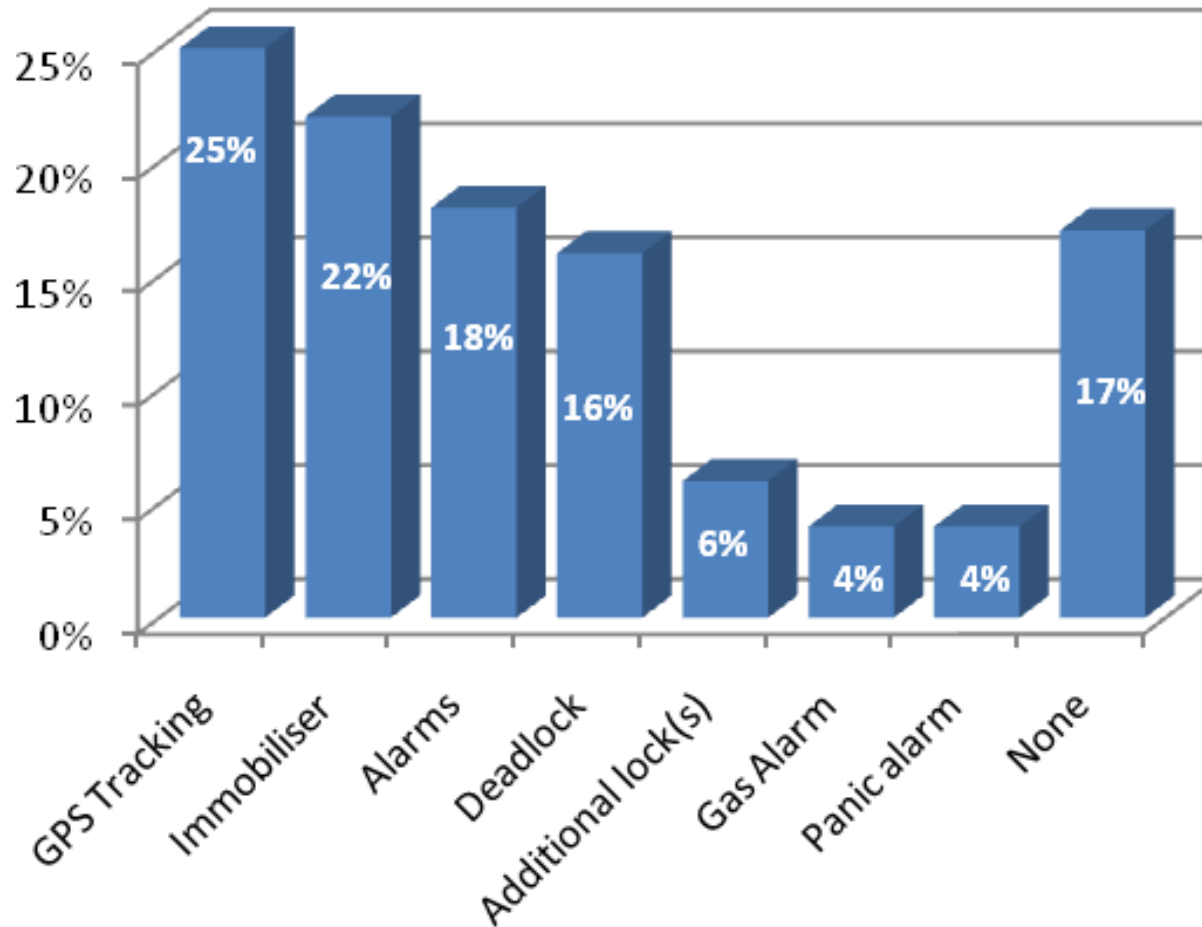
Threat/risk matrix: threat potential (1 to 4)

←————— *Method(s) of Attack* —————→

	Hijack	Robbery	Theft from vehicle	Theft of vehicle	Fake Police	Fake accident	Deception
Load Point	2	3	2	3	1	1	4
Driving	4	1	1	1	4	4	2
Insecure Parking	2	4	4	4	3	1	2
Secure Parking	2	2	3	3	1	1	2
Near End Location	4	3	3	4	3	1	3
Unload Point	2	3	2	3	1	1	4

Location of Attack

Analysis of Security devices deployed in vehicles



Components required for a Telematics enhanced security solution

- **Telematics**
- Communications
- Monitoring
- Access to police



(.....combined with good security procedures and training)

Telematics Security features – what is available?

- Where is it???
- Panic alarms
- Sensor-based surveillance (e.g. doors)
- Location/route adherence
- Stop/halt alarms
- Curtain slash alarms
- Tamper alarms
- Remote door lock/unlock/
- Immobilisers





TRACTOR BASED SYSTEMS

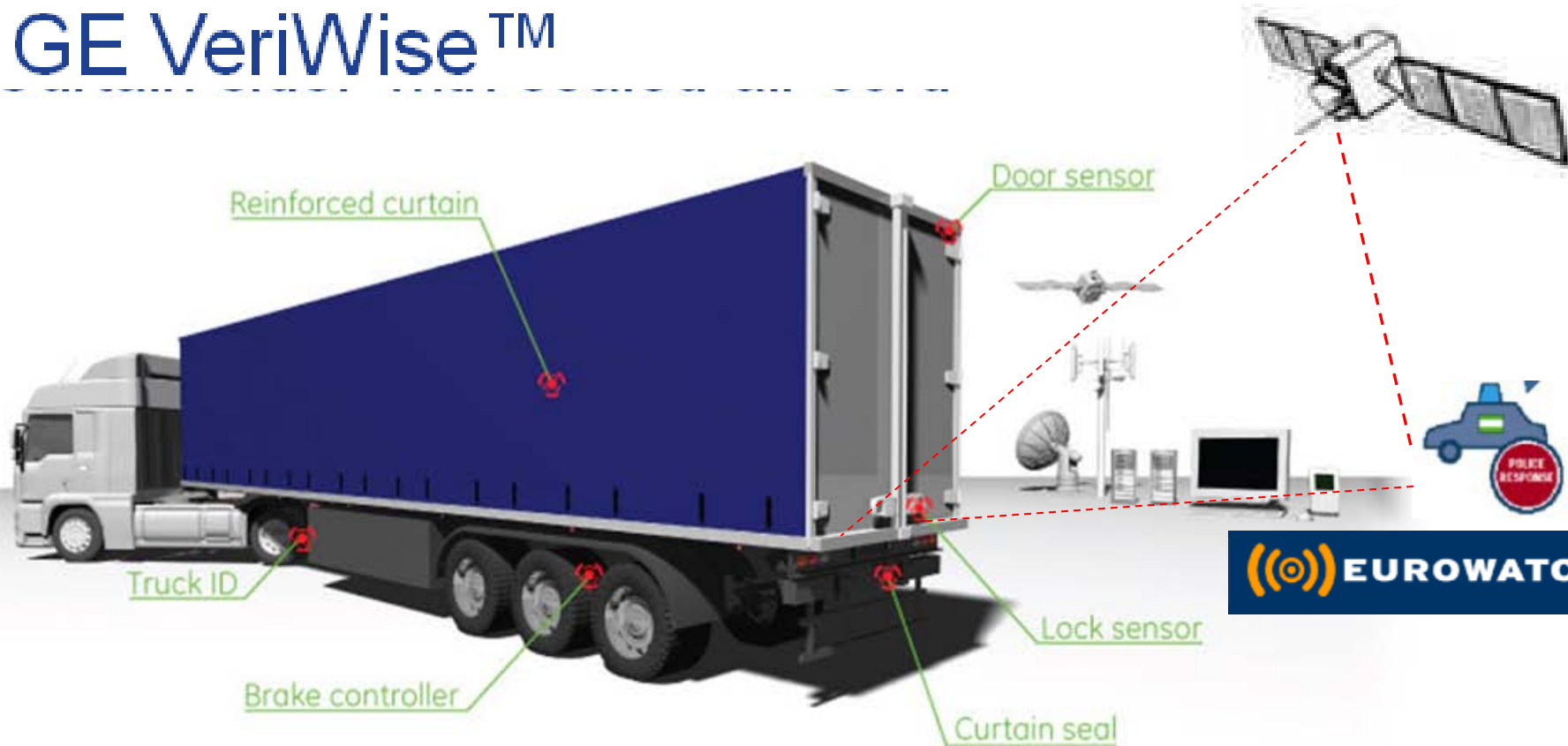
Thousands of systems available. Examples...





TRAILER-BASED SYSTEMS

GE VeriWise™



for Roller Shutter



for Barn Door



for Curtain-sider



GE imagination at work

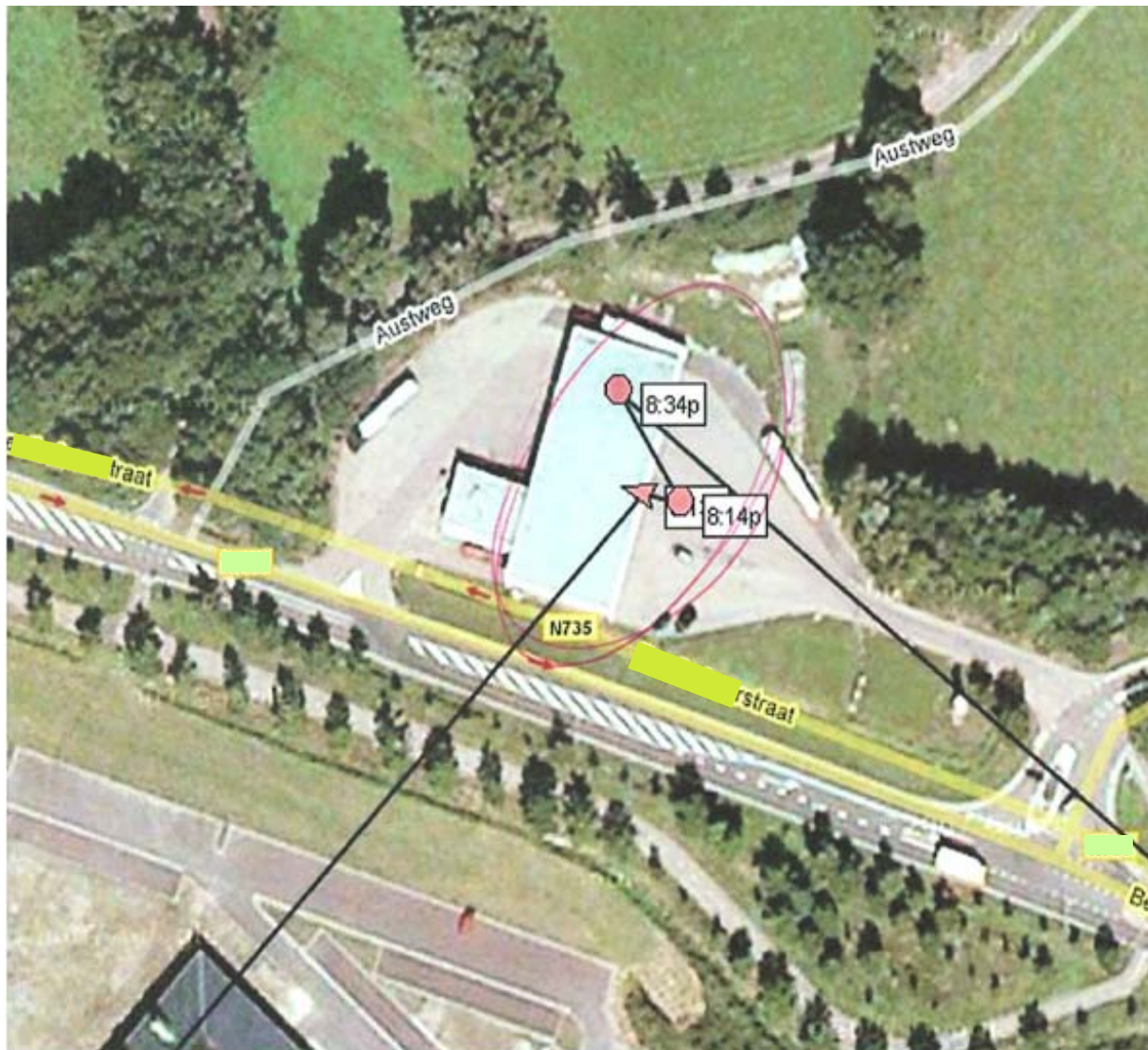
COVERT & EMBEDDED SYSTEMS



- QinetiQ Ocellus
 - Being evaluated for embedded GPRS deployment



Trial of Covert GPS device



Monitoring and Response are critical - an Incident Example

- **Transport Operator:** UK
- **Vehicles:** Mercedes Sprinter
- **Customers:** Mobile phone resellers
- **GPS:** **THALES** with panic button & sensors
- **Other security measures:** Driver phone in, 24x7 alarm monitoring, panic button, EUROWATCH
- **Insurers:** UK

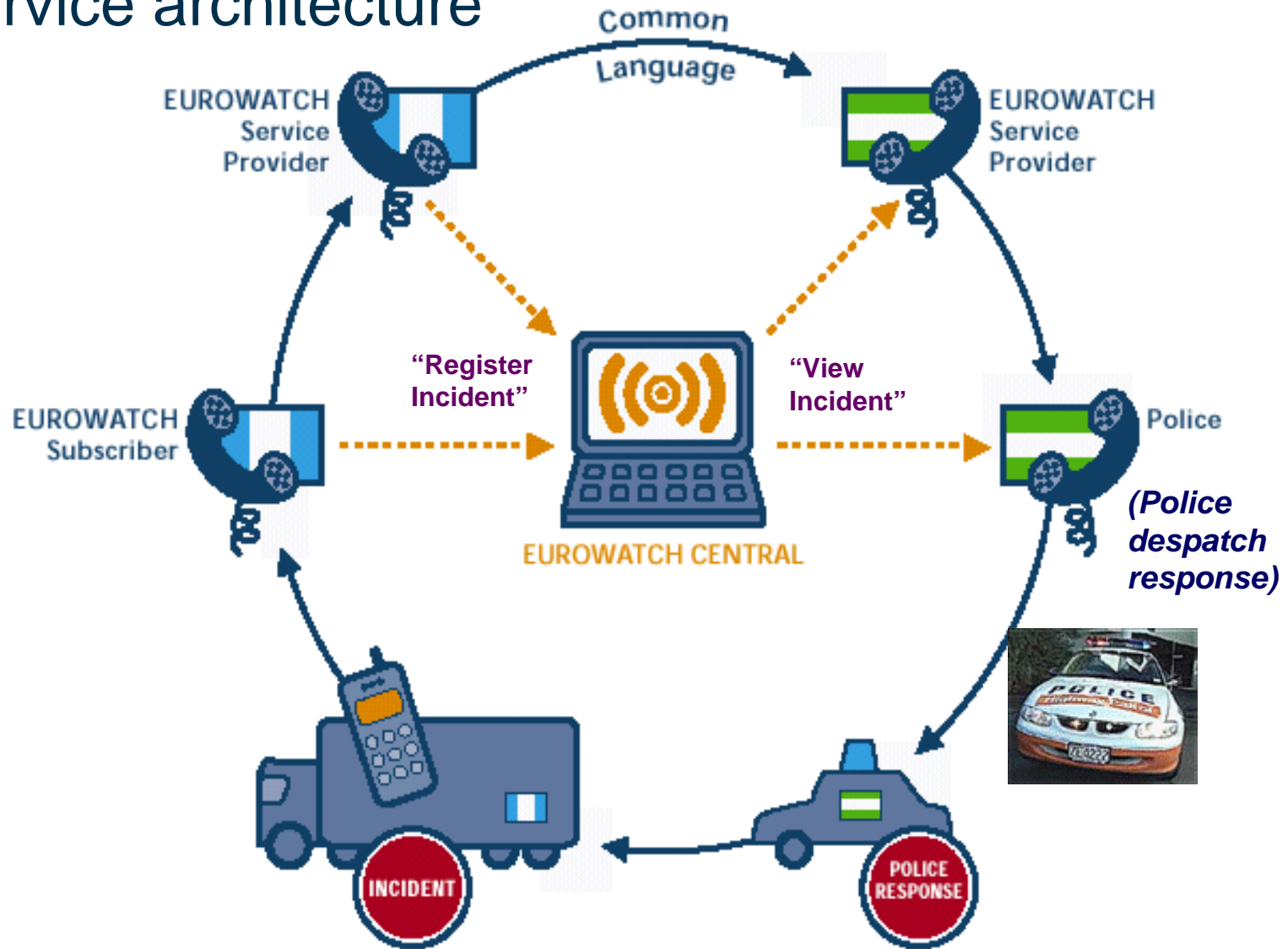


Incident Example

- **Country of incident:** France
- **Vehicles:** 2 x Mercedes Sprinters
- **Goods:** €1 Million worth of mobile phones
- **Incident:** 2 vehicles were parked overnight. Drivers were woken up by men claiming to be police but who produced guns when challenged. Both drivers were locked in the rear of one of the vehicles after its load was put in the other. Panic button activated & phone.
- **Response:** French police launched an operation to intercept the loaded van. They arrived shortly before 3 cars turned up to unload the vehicle. They drove away at high speeds and managed to elude the police response.
- **Outcome:** Drivers, vehicles and phones recovered intact
- **Lesson:** With GPS tracking, monitoring, panic alarms, driver call ins, international police access you have a chance of recovery



Service architecture



 **Incident Status**[Expand/Collapse](#) [Complete further details...](#) **Vehicle**[Expand/Collapse](#)

Registration number	4567GR75
Vehicle type	Goods vehicle - Articulated
Make	Renault
Model	Magnum
Year	2003
Colour	Yellow cab
Description	White Trailer
Registration country	France
Coverage status	Approved

 **Subscriber**[Expand/Collapse](#)

Organisation name	Paris National Des Transports
City	Paris
Country	France
Telephone	+33 15567623
Position Reporting Format	Decimal Degrees (DDD.dddd)

 **National Service Provider for Subscriber**

National Service Provider	EUROWATCH France
Telephone	+33 1309 12331

 **Subscriber Control Room**[Expand/Collapse](#) **Incident details**

What occurred?	The vehicle was forced to stop by 2 Mercedes Sprinter vans. 8 Armed men forced the driver from the vehicle and drove off with it.
Where occurred?	Near to Junction 100 on the A1 west of Vienna.
Country of Incident	Austria
Date & Time occurred	2003-10-03 12:00:00 (YYYY-MM-DD hh:mm:ss)
Anyone injured?	No
Where is driver(s) now?	At the Agip Service Station near to Junct. 100
Any firearms involved?	Pistols and Shotguns

 **EUROWATCH Contact Data**

Incident Password	ZDOX7B
NSP in Country of Incident	EUROWATCH Osterreich
Telephone	+43 6628 151 811

[Alternative contact methods >>](#)



View Incident Log

2003-10-03 14:36:30 UTC

[NSP Home](#) [Logout](#)

Logged in

View Summary

View Log

View Map

Register Report

Register Position

Admin

View Log

Status: Open

Legend

- Incident Update
- Position Update
- NSP CoI Set
- Incident Status Set

Position Update UTC

Heading North away from the A1

Speed: 80 kph Direction: 0°

Latitude: 48,15835 Longitude: 15,1067 Position Created: 2003-03-10 12:28:00

Reported by: EUROWATCH France Timestamp: 2003-10-03 14:32:45

Incident Update 14:29 UTC

NSP Austria has been informed. They will contact the Austrian Police and request assistance

Reported by: EUROWATCH France Timestamp: 2003-10-03 14:29:56

Position Update 14:29 UTC

Heading West on A1, west of Junction 100

Speed: 75 kph Direction: 270°

Latitude: 48,15895 Longitude: 15,11143 Position Created: 2003-10-03 12:18:00

Reported by: EUROWATCH France Timestamp: 2003-10-03 14:29:12

Position Update 14:28 UTC

Location of Hijack

Speed: 0 kph Direction: 270°

Latitude: 48,15835 Longitude: 15,11782 Position Created: 2003-10-03 12:02:00

Reported by: EUROWATCH France Timestamp: 2003-10-03 14:28:04

Incident Status Set 14:20 UTC

Status set to: Open

Reported by: EUROWATCH France Timestamp: 2003-10-03 14:20:03

Information	Log	Map	Position	Report	Admin
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View Map



Status: Closed

Last Event log entry
2005-03-21 06:03:20 UTC

Last position received
2005-03-21 02:29:49

Latitude: +48.9128
Longitude: +2.5344
Speed: 0
Direction: (0°)

- Register Position Help
- Printer Friendly Incident Report
- Administrator Home

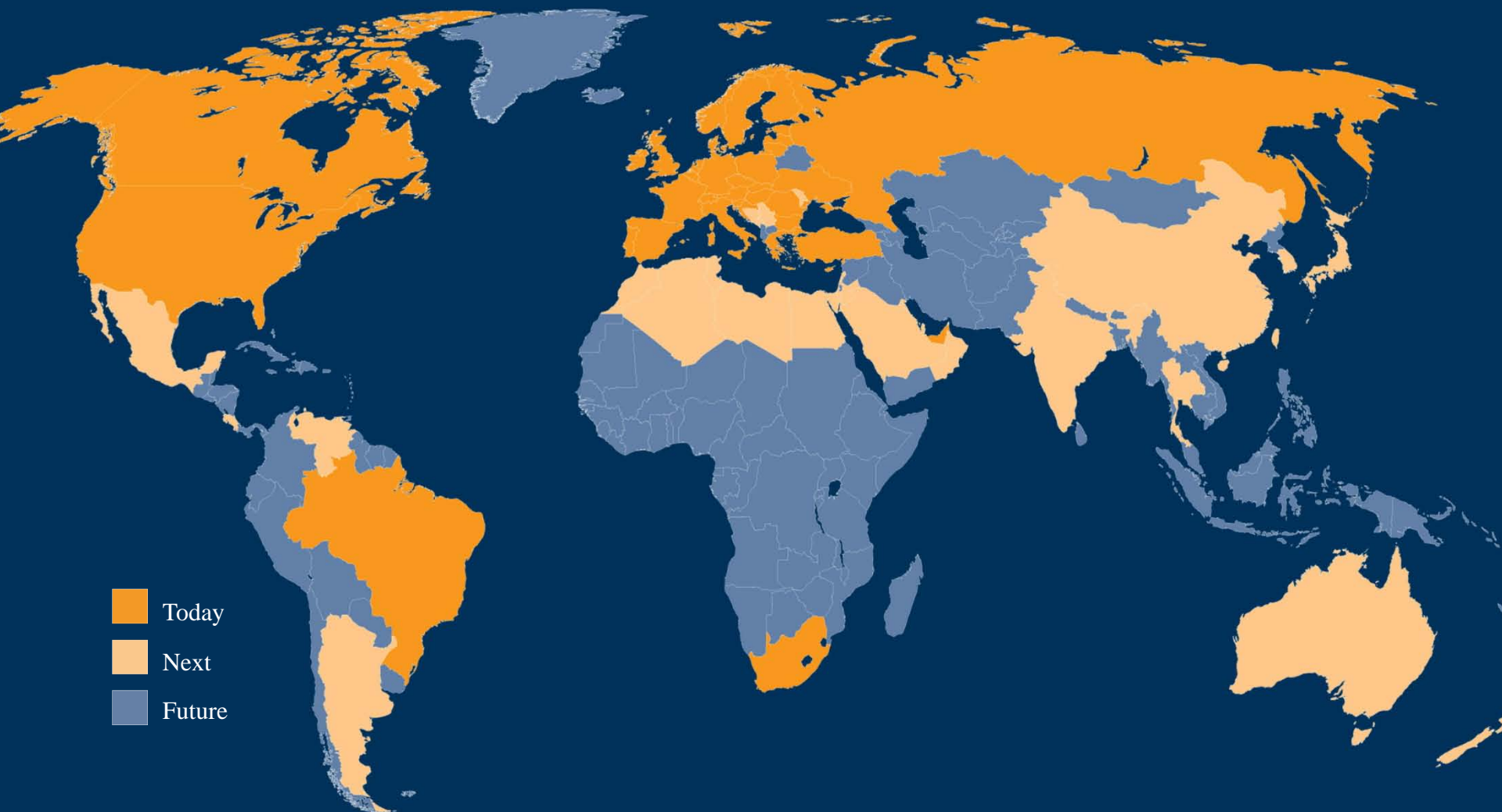
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List inactive

Legend



EUROWATCH Coverage 2009





- Today
- Next
- Future

EUROWATCH results so far (since June 02)...

- **> 50,000** +vehicles covered
- Incidents now managed in **16** countries
- **100%** attended by police
- **0** drivers/employees or police injured
- **+€16m** of stolen freight & vehicles protected/recovered
- **95%** of stolen vehicles recovered and **94%** of cargo
- **75+** persons arrested in **8** countries



How insurers use Telematics & EUROWATCH?

Usually as part of an overall risk management plan ...

- Recommended to relevant clients
- Condition in policy
- Intelligence source
- Sometimes as a consultant





Video



What the future holds....



1. Increasing use of standards
2. High value/vulnerable freight movement becomes more specialised
3. Telematics will come standard with security functions
4. The technology means faster, real time alerts
5. Cat and mouse between criminals and industry



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Freight Crime Bulletin

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