

## International Response to Security

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## Economic Drivers for IT and Security Challenges to Meet

- Fast growth of SME business.
- Explosion of transaction numbers because of international internet trade.
- Globalisation of thinking.
- More people having no understanding of customs and customs expectations.
- Growing middle class in developing countries.

# Challenges of Security Caused by Threats

- Terrorism and extremism.
- Development of trade blocs.
- Industrial espionage.
- Intellectual Property Rights.
- Pandemics.
- Climate change.
- Migration movements.



Cost increase.

## IT Challenges to Meet by Customs - The Political Aspect

- One IT customs system or a number of integrated systems, e.g. in the EU
- One interface of cross-border authorities to the customer.
- More direct interfaces between customs and trade.
- Strengthen the role and responsibility of the World Customs Organisation.
- Minimize national IT competencies.
- Introduce IT capacity building initiatives.

## IT Challenges to Meet by Customs - The Procedural Aspect

- Ensure fast clearance – need for speed.
- More simplified IT procedures
- One IT interface only: for export and import at the same time.
- International harmonised data to be used for customs clearance.
- Transparent cost-based thresholds before starting any IT activities.
- Simplification of preferential and non-preferential rules.
- React quicker to economic and business IT changes.
- Reduce complexity and cost of IT customs clearance.
- Customs declaration and clearance at the time of ordering.

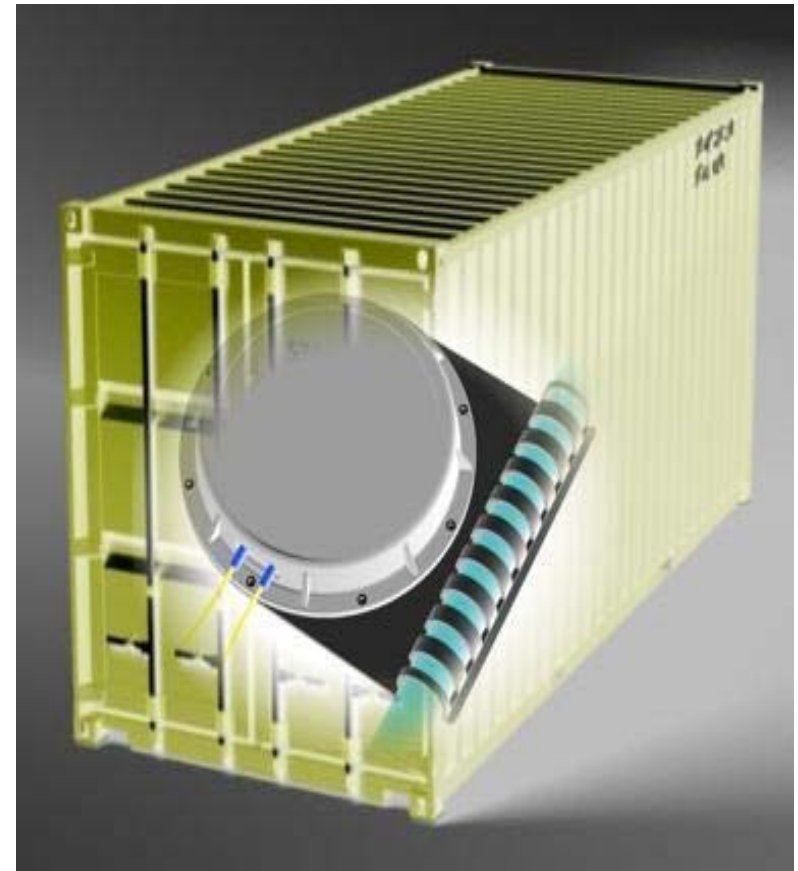
## IT Challenges on Security to Meet by Trade

- Ensure standardised procedures – who is doing what!?
- Develop strategy and speak with one voice.
- Support capacity building for new technologies in developing countries.
- Internal training.
- High standards on corporate security.
- Requirements of Code of Conduct.
- Needs of Data Privacy.
- Authenticity of information.

# Transparent Supply Chain in Real Time – Deutsche Post DHL

## Real-time tracking of swap bodies

- **Location:** Information about the current location of an object
- **Condition:** Information about the current condition of a consignment
- **Access:** Information about all the people who have had access to the object



# Keeping Track via GPS – DHL Freight



# How to Control Trucks - Deutsche Post DHL

## Technology components of SmartTruck

**Tour planning system** – dynamic planning of pick-up & delivery routes

**Infrastructure Depot** – registration of outgoing shipments via RFID

**Infrastructure Vehicle** – RFID controls the loading condition

**On-board unit** – automatic navigation and sequencing stop list

**Current traffic data** – respond to traffic blocks

**Notification** – give customer a notice of pick-up via SMS



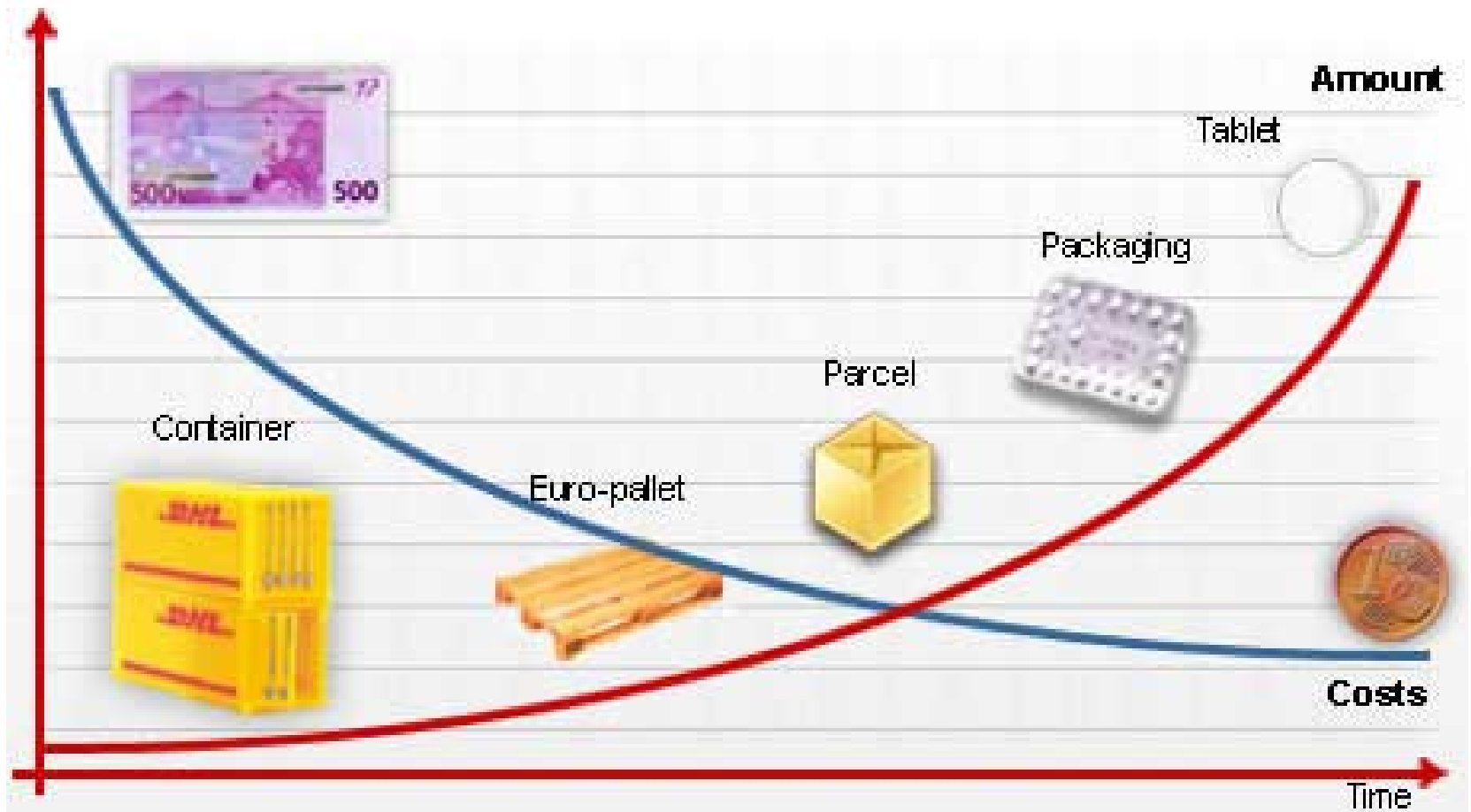
# How to Control Small Shipments – Deutsche Post DHL

## The Smartbox



- Intelligent box fully equipped with antennas which have been worked into the plastic of the box.
- Accommodate up to 400 kilograms of freight.
- Items provided with an RFID tag are immediately recorded by a integrated computer and can be transmitted via mobile communications.
- Contents of the Smartbox can be checked for completeness at any time and in addition GPS can be used to locate the box.
- Alarm signal if opened by force or by an unauthorized person.
- Initial test has already been performed successfully (1,000 kilometers from Amsterdam to Vienna).

# Cost Benefit Analysis about Security on Shipments



## More Information about Deutsche Post DHL Innovations



DHL Innovation Center

Technology & Innovation Management  
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## There is No Easy Way – Postal Challenges on Security

- How to train customers?
- How to train postal staff?
- How to develop common systems?
- How to implement intrusive/non-intrusive technologies?
- How to meet legal requirements?
- How to cover costs for security requirements?

# How to Move, Preserve and Extend....

Do not talk – do.

Thank you for your attention.