

TIR B2C/B2B Computerization Status and Cost Considerations

Geneva, March 9-10th 2011





Agenda

- Computerization of TIR B2C/B2B
 - Overview & recent progress
 - TIR-Electronic Pre-Declaration (TIR-EPD)
 - Real-Time SafeTIR (RTS)
- Cost considerations
 - Categories and approach
 - Investment & operational costs
 - Recommendations



Computerisation of TIR Background

A true public – private partnership since 60 years:

The IRU has been successfully working with Contracting Parties within the WP-30 and at national level as well as with IRU Associations to reinforce the security of the TIR System

The IRU started computerizing the TIR system 35 years ago:

- By computerising the exchange of TIR carnets termination data and invalid carnets data amongst Customs, Associations and IRU
- By making available for Customs, online and free of charge, the statuses of all TIR carnets (CUTE-Wise)
- By computerising the management of TIR carnets at the levels of the Associations and the IRU



Computerisation of TIR IRU Current Focus

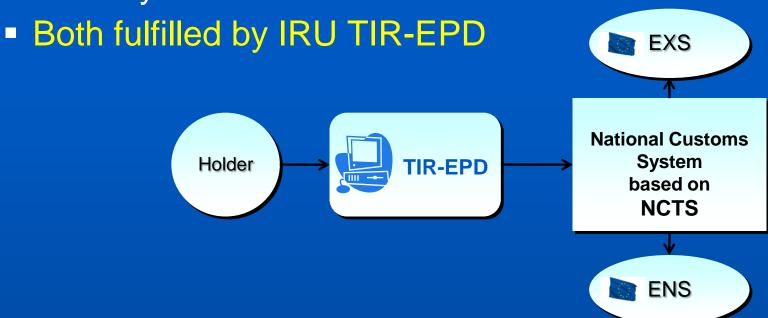
To accelerate the computerization of:

- Electronic Pre-declarations of TIR data for all Customs through TIR-EPD
- Online exchange of data between IRU and Customs on TIR carnets status through Real-Time SafeTIR (RTS)



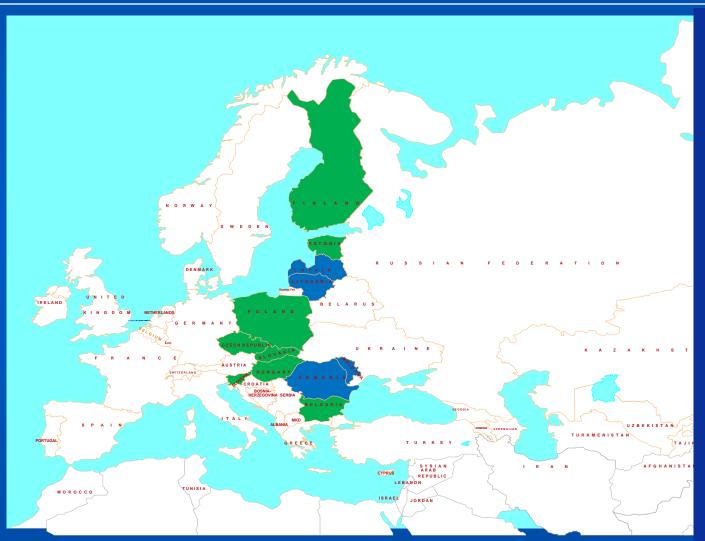
TIR-EPD Introduction

- Advance cargo information submission mandatory in the EU since January 2009
- New EU Safety and Security requirements since January 2011





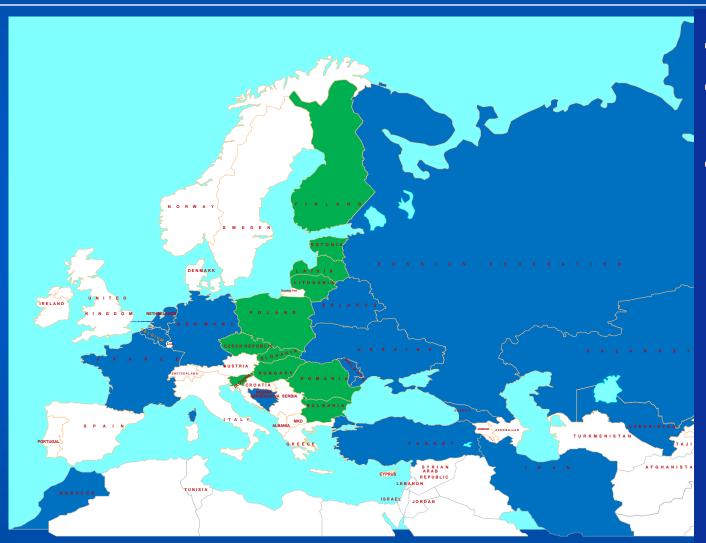
2010 Achievements TIR-EPD



- TIR-EPD: 3 new countries:
 - Lithuania
 - Latvia
 - Romania
 - + Moldova (2011)
- Now: 12 countries in operation
- New Safety and Security requirements



2011 Objectives TIR-EPD



- Many new countries to come
- Total operational countries planned to double to more than 20 by end of 2011
- Countries currently in process:
 - Albania
 - Belarus
 - Belgium
 - Bosnia and Herzegovina
 - France
 - Georgia
 - Germany
 - Iran
 - Kazakhstan
 - Moldova (in production)
 - Morocco
 - Netherland
 - Russia
 - Turkey
 - Ukraine
 - Uzbekistan



RTS Implemented in Partnership with National Authorities

- Allows real-time transmission of data and immediate detection of irregularities
- Allows real-time check of the validity of the TIR Carnet at any Customs point through Customs query mechanism
- ➤ First implemented in pioneer country Russian Federation in 2006: Allowed decrease of irregularities from 1'600 per year down to 10!
- ➤ 7 countries operational today: implemented in Kazakhstan, Ukraine, Bulgaria, France and Bosnia Herzegovina in 2010, and Moldova in 2011
- Great interest to implement RTS expressed by many additional countries!



2010 Achievements Real-Time SafeTIR



- Real-Time
 SafeTIR: 5
 new countries
 - Bosnia-Herzegovina
 - Bulgaria
 - France
 - Kazakhstan
 - Ukraine
 - + Moldova (2011)
- Now: 7 countries in operation



2011 Objectives Real-Time SafeTIR



- Many new countries to come
- Total operational countries planned to double to more than 12 by end of 2011
- Countries currently in process:
 - Albania
 - Azerbaijan
 - Belarus
 - Finland
 - Georgia
 - Latvia
 - Lithuania
 - Morocco
 - Turkey
 - Uzbekistan



Benefits of approach

- Sovereignty of national Customs Authorities
 - fully preserved and guaranteed
- Pragmatic and easy to implement
 - Both TIR-EPD and RTS can be implemented in outstanding countries, where requested, in a short timeframe of between 1 to 3 months
- Flexibility
 - Until harmonisation is achieved, each countries' IT security and technologies, data elements required, communication methods and protocols, message formats and structure can be accommodated through the existing public – private partnership



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Cost Elements Main Categories and Approach

Investment Costs

International System Contracting Parties Garantee Chain



International System Contracting Parties Garantee Chain

How To:

- Ballpark
- Budget / Top down
- Definitive Estimate / Bottom Up (WBS based)

Operational Costs (running / recurrent)

Amortization



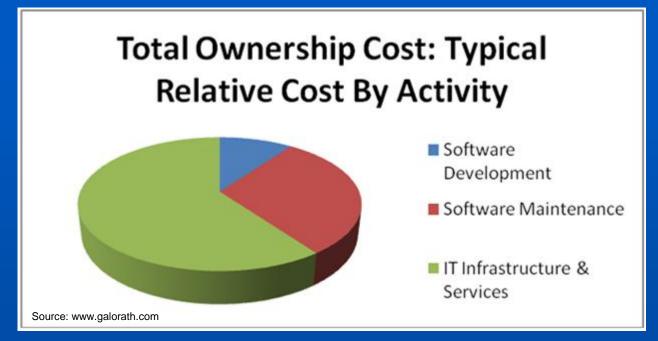
Cost Elements Thoughts 1/2

- The IRU is focussing on B2C and B2B aspects
- Cost are spread within the IRU and National Associations
- IT application software development and infrastructure are important aspects but to also consider are:
 - Set up the organisation
 - Manage non-harmonized data elements, communication methods and protocols, message formats and structure, technologies and security aspects
 - Integrate each Contracting Party
 - Manage data synchronisation issues
 - Operate and support (incl. help desk)



Cost Elements Thoughts 2/2

- Costs budgeting must be extensive
 - Studies have shown that IT services outside the software development and maintenance can account for over 60% of the total ownership costs





Cost Elements Investment (CAPEX) WBS

- Typical investment costs elements (high level work break down structure):
 - Application Software Development
 - analysis, design, development, test, rollout, project management
 - Infrastructure
 - hardware, software, network
 - Telecommunication / Internet access
 - Facilities
 - buildings, desks, air conditioning, anti-fire, etc
 - Staff
 - hiring, team setup, training
 - Management, functional experts, technical specialists, helpdesk staff
 - Documentation
 - technical documentation, user guides, deployment guides, training guides
 - Organisation (governance) and legal (liability, contractual aspects)
 - Coordination with Contracting Parties & Training



Cost Elements Operational (OPEX) WBS

- Typical recurrent costs elements (high level work break down structure):
 - Application software
 - Maintenance and support
 - Rollout of new versions
 - Infrastructure
 - Operations (hardware, software, network)
 - Maintenance and support (hardware, software, network)
 - Telecommunication / Internet connectivity
 - Facilities running costs
 - rent, electricity, heating, insurance, security,...
 - Staff (salaries, social)
 - Management, IT staff, business experts and support, call centre & helpdesk staff (heavy if 24/7 SLA and multilingual support)
 - Documentation
 - Keeping all documentation up to date
 - Governance and legal fees
 - Coordination with Contracting Parties & Training
 - Not to forget: assets amortisation (ongoing financing of infrastructure renewal)



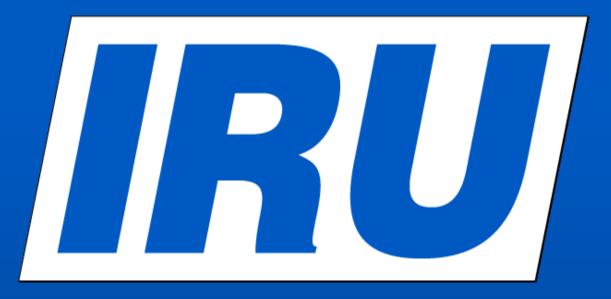
Cost Elements Recommendations « checklist »

- Harmonize data elements required, communication methods and protocols, message formats and structure
- Clarify governance, organisation, responsibilities & legal aspects
- Identify dependencies and assumptions
- Evaluate risks and establish mitigation strategies
- Plan for contigencies
- Take complex deployment into consideration
- Take operations (incl. Helpdesk) into consideration
- Further evaluate costs:
 - Continue evaluate similar C2C comprehensive initiatives: e.g. NCTS, WCO GNC)
 - · Establish comprehensive work breakdown structure
 - Consider investment and operational costs
 - Consider international system and contracting party costs
 - Evaluate financing aspects and amortisation principles



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