FILLING THE GAPS IN INTELLIGENT TRANSPORT SYSTEMS (ITS)

Eva Molnar

THE FULLY NETWORKED CAR

2 March 2011

Why, what, how UNECE can do for ITS?

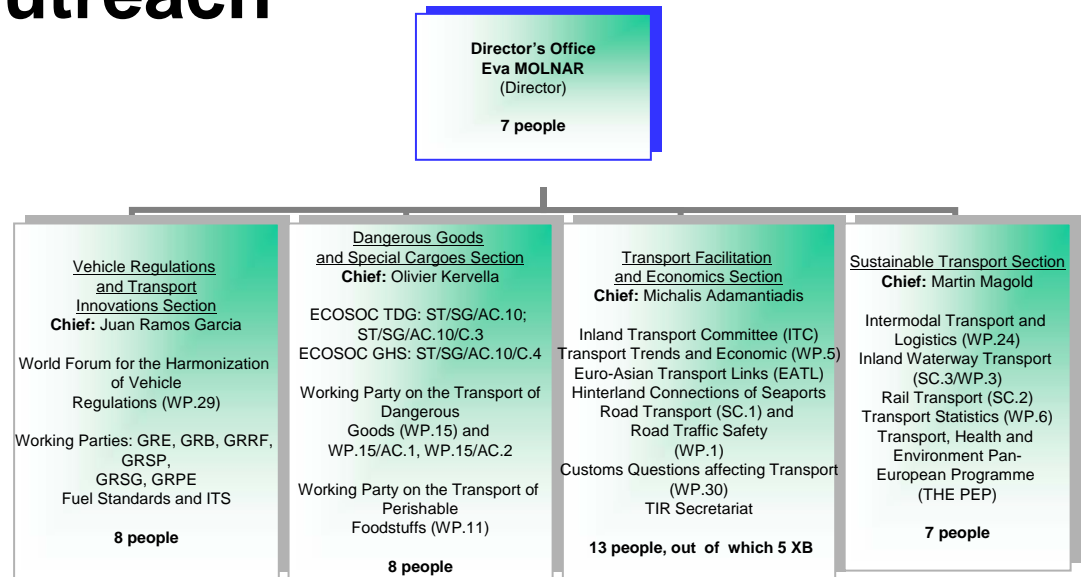- What is UNECE

- So far achievements in ITS

- The way forward

Eva Molnar

- **UN Regional Commission**
- **57 countries**
- **Inland Transport Committee**
  - **- with Working Parties**
  - **- with global outreach**

Centre of International Transport Agreements

Director's Office
Eva MOLNAR
(Director)

7 people

Vehicle Regulations and Transport Innovations Section
Chief: Juan Ramos Garcia

World Forum for the Harmonization of Vehicle Regulations (WP.29)

Working Parties: GRE, GRB, GRRF, GRSP, GRSG, GRPE
Fuel Standards and ITS

8 people

Dangerous Goods and Special Cargoes Section
Chief: Olivier Kervella

ECOSOC TDG: ST/SG/AC.10; ST/SG/AC.10/C.3
ECOSOC GHS: ST/SG/AC.10/C.4

Working Party on the Transport of Dangerous Goods (WP.15) and WP.15/AC.1, WP.15/AC.2

Working Party on the Transport of Perishable Foodstuffs (WP.11)

8 people

Transport Facilitation and Economics Section
Chief: Michalis Adamantiadis

Inland Transport Committee (ITC)
Transport Trends and Economic (WP.5)
Euro-Asian Transport Links (EATL)
Hinterland Connections of Seaports
Road Transport (SC.1) and
Road Traffic Safety
(WP.1)
Customs Questions affecting Transport (WP.30)
TIR Secretariat

13 people, out of which 5 XB

Sustainable Transport Section
Chief: Martin Magold

Intermodal Transport and Logistics (WP.24)
Inland Waterway Transport (SC.3/WP.3)
Rail Transport (SC.2)
Transport Statistics (WP.6)
Transport, Health and Environment Pan-European Programme (THE PEP)

7 people

Future

Eva Molnar

Road Signs and Signals, 1949   **Road Signs and Signals, 1968**
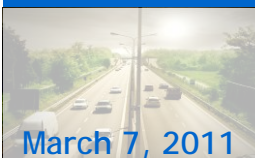
Why UNECE can address ITS?

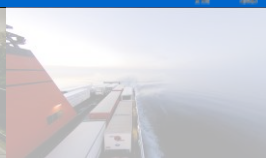- **Infrastructure agr't's, planning**

- **Traffic rules**

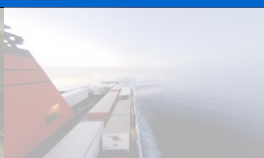- **Vehicle regulations**

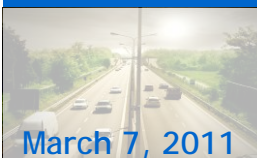**Road Traffic, 1949**   **Road Traffic, 1968**

Eva Molnar

UNECE WPs where governments make decisions

| SC.1 Working Party (Sub-Committee) on Road Transport | WP.1 Working Party on Road Traffic Safety (68 Vienna Conv.) | WP.29 Global Forum for Harmonization of Vehicle Regulations | SC.2 Working Party (Sub-Committee) on Rail Transport | SC.3 WP.5 6 11 15 24 30 |

AC.2
WP.29
Advisory function
Coordinates work of WP.29

| AC.1 1958 Agreement 40 members and 126+2 Regulations affecting 46 countries | AC.3 1998 Agreement 31 members affecting presently 42 countries | AC.4 1997 Agreement 6 members affecting Europe only | Other ITC assignments: ITS Task Force - Japan / UK - |

| GRE Lighting and light signalling - Canada - | GRRF Tires, brakes and running gear - United Kingdom - | GRSP Passive safety - USA - | GRSG General safety - Italy - | GRPE Polution & energy - France - | GRB Noise - Germany - |

• global outreach

• type approval of parts (present), of vehicles (future)

Contracting parties to the 1958 and/or the 1998 « Vehicle » Agreements

1958 Agreement   1998 Agreement   Both Agreements
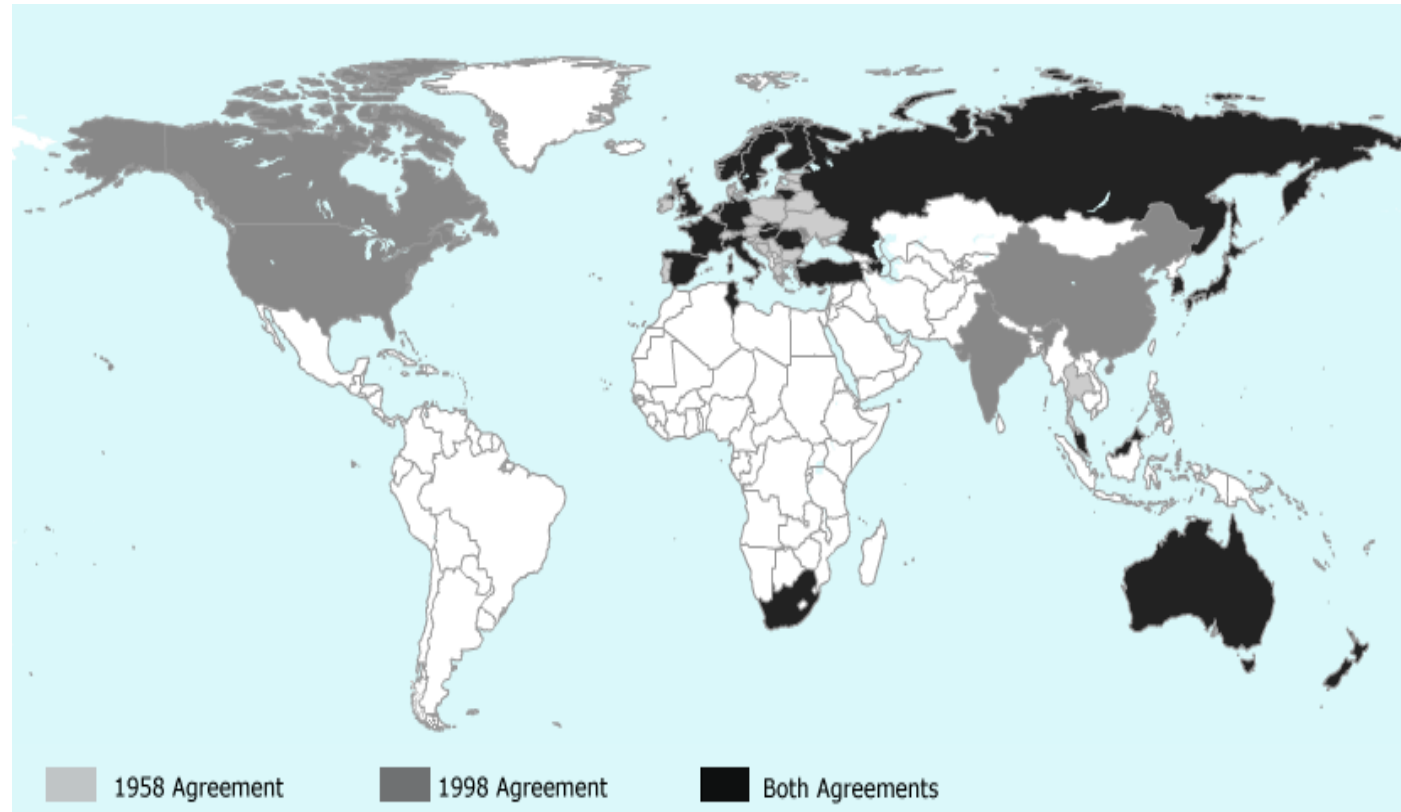
Revolutionary innovations supported by UNECE WP.29 regulations

- Electronic Stability Control Systems
- ABS
- Cruise Control
- On Board Diagnostic
- Adaptive Front-Lighting Systems
- Airbags
- Automatically commanded braking
- Cornering lamps
- Brake assist systems (BAS)
- Lane Departure Warning system (LDW) - controversial

WP work and consultations started on ITS

- Variable message signs
- Who is in control of the vehicle
  - Round table during ITF 2010
  - Liability remains a concern

Eva Molnar

UNECE Research and Strategy

Research findings

- ITS is under-utilized
- Resistance to societal changes
- Lack of common definition
- Major initiatives against the tide
- Lack of enabling framework

The way forward - UNECE Package for ITS
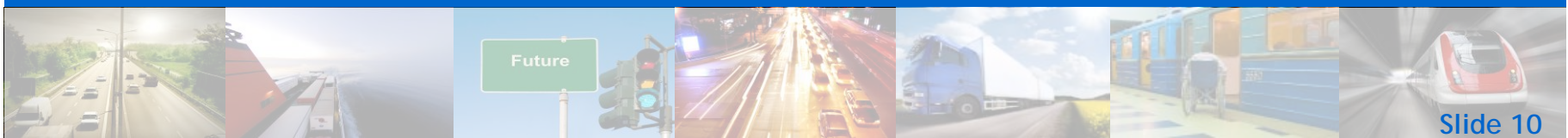
✓Background paper
✓Strategic note
✓Road Map

Strategic note – public consultations

- Draft for consultation

  - Inland Transport Committee

  - Key stakeholders

  - Web-based

    http://www.unece.org/trans/events/2011/ITS_Public_Consultation.html

- To underpin the UNECE Road Map on ITS

The Road Map (draft)

- Annual UNECE Roundtable on main ITS issues
- Capacity building workshops
- Working Party related tasks
  - Vehicle to infrastructure communication
  - Vehicle to vehicle communication
  - Liability concerns (1968 Vienna Convention)
  - Variable Message Signs
  - International ITS architecture
- Overcome lack of harmonized policies
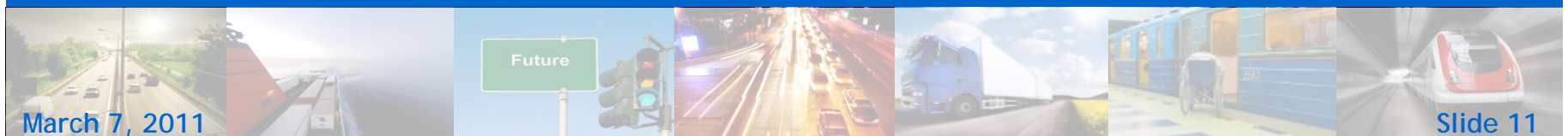
Thank you for your attention

UNECE
Transport Division

www.unece.org/trans