

Roundtable

“Road safety at a crossroads at the dawn of the new Decade of Action”
Inland Transport Committee (ITC), 26 February 2021

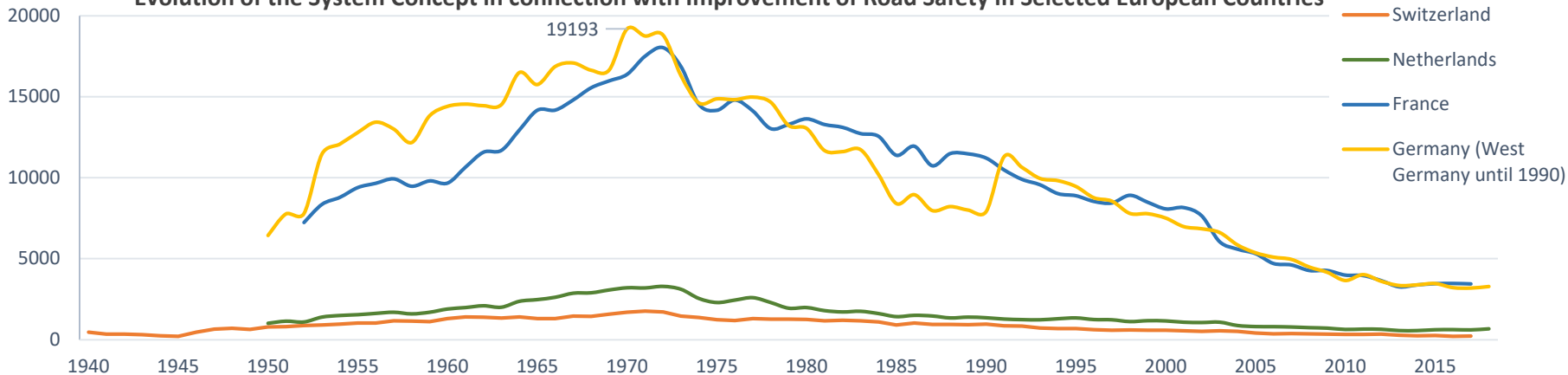
ITC Recommendations for Enhancing National Road Safety Systems

Yuwei Li

Director

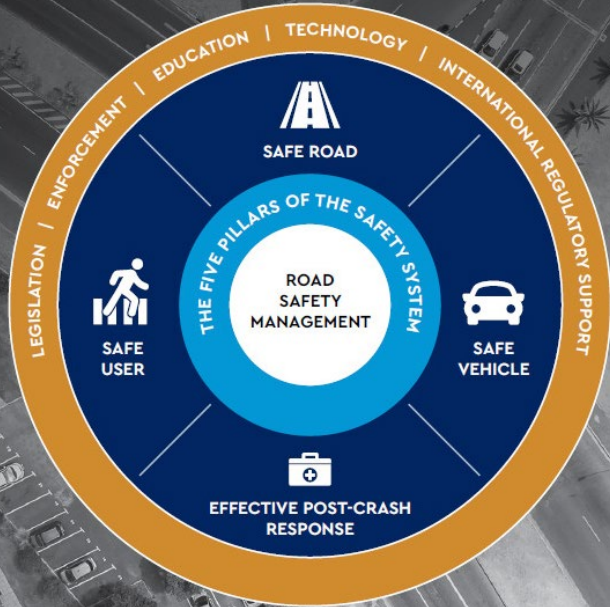
Sustainable Transport Division, UNECE

Evolution of the System Concept in connection with Improvement of Road Safety in Selected European Countries



| Timeline | 1900 – 1940s | 1950s – 1960s | 1970s – 1980s | 1980s – 1990s | from 2000 to present |
|----------------------------------|--|---|---|--|--|
| Description | Control of motorized carriage | Mastering traffic situations | Managing traffic safety system | Managing transport safety system | Safe System Approach |
| Main disciplines involved | Repair and maintenance of vehicles | Car and road engineering, three E's solution, law enforcement | Traffic engineering, traffic system solutions | Advanced technology, system analysis, sociology, communications, multi-disciplinary research | Integrated system to reduce risk of road user's mistake |
| Effects | Gradual increase in traffic fatalities | Rapid increase of traffic fatalities with moderate increase of relative road safety indicators | Successive cycles of decrease of traffic fatalities and decrease of relative road safety indicators | Significant reduction of traffic fatalities and relative road safety indicators in most developed countries | Continuous reduction of stress, road accidents, suffering and socio-economic costs |
| UN Conventions | | Road Traffic 1949, Protocol Road Signs/ Signals 1949, Traffic Arteries 1950, Weight and Dimensions 1950, ADR 1957, Road Markings 1957, Vehicle Regulations 1958 | Road Traffic 1968, Road Signs/ Signals 1968, Work of Road Crews 1970, Suppl. Road Traffic 1971, Suppl. Road Signs/ Signals 1971, Road Markings 1973, E-Road 1975, Driving Permits 1975 in addition to the Conventions adopted earlier | Protocol ADR 1993, Technical Inspections Vehicles 1997, Global Vehicle Regulations 1998, amendments to the Conventions adopted earlier | Amendments to the Conventions, accession and implementation of the conventions by and transfer of knowledge and good practices to developing countries |

THE GLOBAL FRAMEWORK PLAN OF ACTION FOR ROAD SAFETY



UN Road Safety Fund



UNECE

A Foundational Safety System concept to make roads safer in the Decade 2021-2030



UNITED NATIONS

UNECE ITC Recommendations for Enhancing National Road Safety Systems

Adopted on 1 April 2020

| Pillar \ Area | Legislation | Enforcement | Education | Technology | International Regulatory Support |
|--|---|---|--|---|---|
| Road safety management – vertical and horizontal coordination | | | | | |
| Safe user | Traffic rules drivers cyclists pedestrians | Lawful behavior ensured by police and inspectors | Awareness raising, training and examination | Supportive technology and equipment, rules reminders | UN RS legal instruments and resolu- tions, WP.1, SC.1, WP.15 |
| Safe vehicle | Rules and standards for admission of vehicles to traffic | Certification and inspections by qualified inspectors | Awareness raising for users, training for inspectors | Supportive technology and equipment, compliance reminders | UN RS legal instruments and resolu- tions, WP.1, WP.15, WP.29 |
| Safe road | Standards for design, construction, maintenance and signage | Audit, assessment and inspection by qualified teams | Awareness raising for road managers, users, and for inspectors | Forgiving and self-explaining road design, intelligent road systems | UN RS legal in- struments and resolutions, int. standards WP.1, WP.15, SC.1 |
| Effective post-crash response | Standards for data collection post-crash response and investigation | Oversight of rescue services, investigators investigating crashes | First aid and rescue service training, investigators training | Supportive technology and equipment | Consolidated resolution, int. standards, WP.1, WP.15, SC.1 |

ITC Recommendations for Enhancing National Road Safety Systems

Key safety system principles

- Integrated approach – elements of a system
- Long-term sustainable solutions – institutionalize, regularize, self-work
- Systematically prioritized step by step approach
- Cooperation and partnership

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Thank you