



# Projects for sustainable and energy efficient transport in the Western Balkans

THE DANUBE REGION TRANSPORT DAYS 2022:  
“Towards energy efficient, sustainable transport”

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# TCT Overview and Main Objectives



## 01

The Transport Community Permanent Secretariat is an international organisation in the field of mobility and transport with 33 members participants.

## 02

Aim: Integration of transport markets of the six Western Balkan regional partners into the EU.

## 03

This is achieved through implementation of the EU Transport Acquis and connectivity projects that will improve the connections among all regional partners and with the EU.

- Climate Change and transport
- Energy & Transport – 2/3 Greenhouse Gas Emissions
- Transport Sector
  - 12% Share Of These Emissions In 1990
  - 16% Share Of These Emissions In 2018

Source: JRC, "Status of air pollutants and greenhouse gases in the Western Balkans", 2020

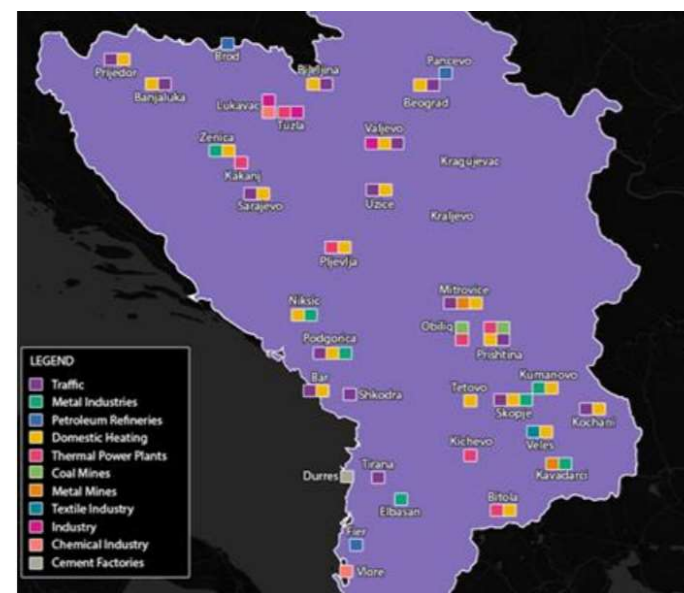


# Climate change and transport



## On air quality

- Particulate matter (PM10 and PM2.5), SO2, O3 and NO2 concentrations are often above the yearly average, daily maximum and hourly maximum limits
- **Air pollution** contributes
  - between 4 per cent and 19 per cent of total premature mortality
  - reduces life expectancy by between 0.4 and 1.3 years



Emission sources in the Western Balkans

Source: UN environment, "Air Pollution and Human Health: The Case of the Western Balkans", 2019

# Climate change and transport sector



- **Most of vehicles in the Western Balkans have an average age of above 10 years** and the share of new vehicles is particularly low.
- **The uptake of electrical and hybrid road vehicles in the Western Balkans is low, counting less than 1 per cent**, compared to the EU share of electrical vehicles registered until 2019 (2.88 per cent).
- **None of the Regional Parties (RP) has adopted Alternative Fuel Infrastructure Directive**, which provides basis for alternative fuel infrastructure deployment and specifies minimum requirements for building up this infrastructure.
- **Incentives (tax exemption, subsidies) for electric/hybrid vehicles have been introduced** in Albania, Bosnia and Herzegovina, Kosovo, Montenegro and Serbia.

# Climate change and transport sector



- **Rail**

- 2,000 km Core Network railways - design speed of 100 km/h, only 336 km allows such speed
- App. 74% of the TEN-T Core and 56% of the TEN-T Comprehensive railways are electrified.
- First ERTMS - equipped railway section in the region (Belgrade-Novı Sad 78km)

- **Ports and airports**

- Core Inland Waterway Ports – not compliant the alternative fuel availability criterion
- Core Seaports – not compliant for clean fuels availability and VTMS availability
- Airports- no railway connections yet

- **IWW**

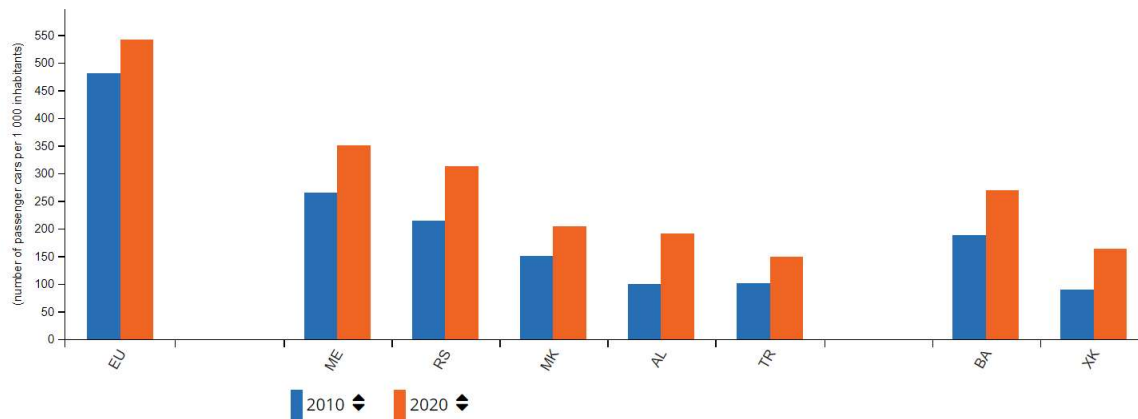
- not used, susceptible to weather condition, bottlenecks

# Climate change and transport sector



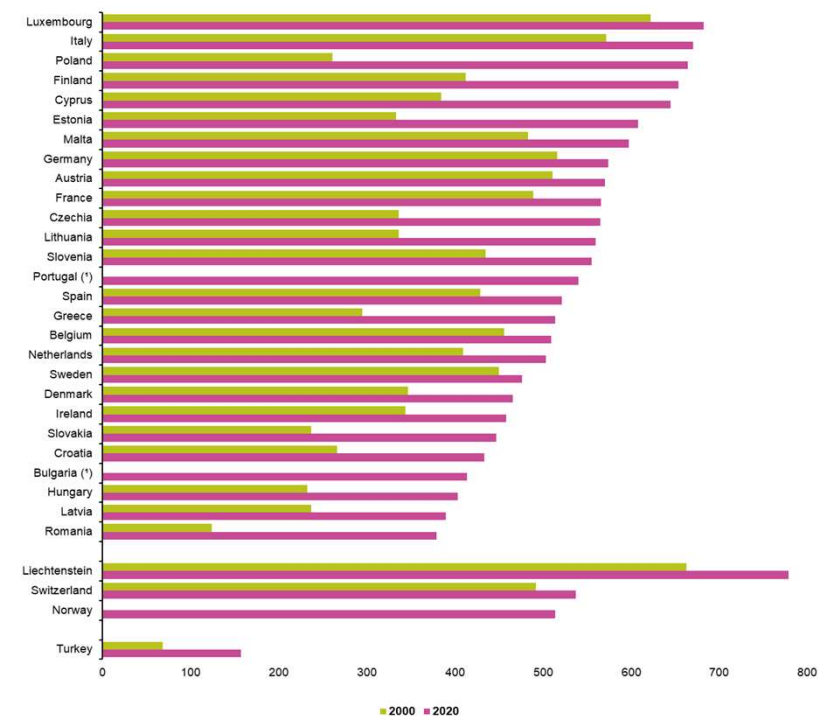
App. 90% of GHG and pollution related to road transport

Motorisation rate, 2010 and 2020



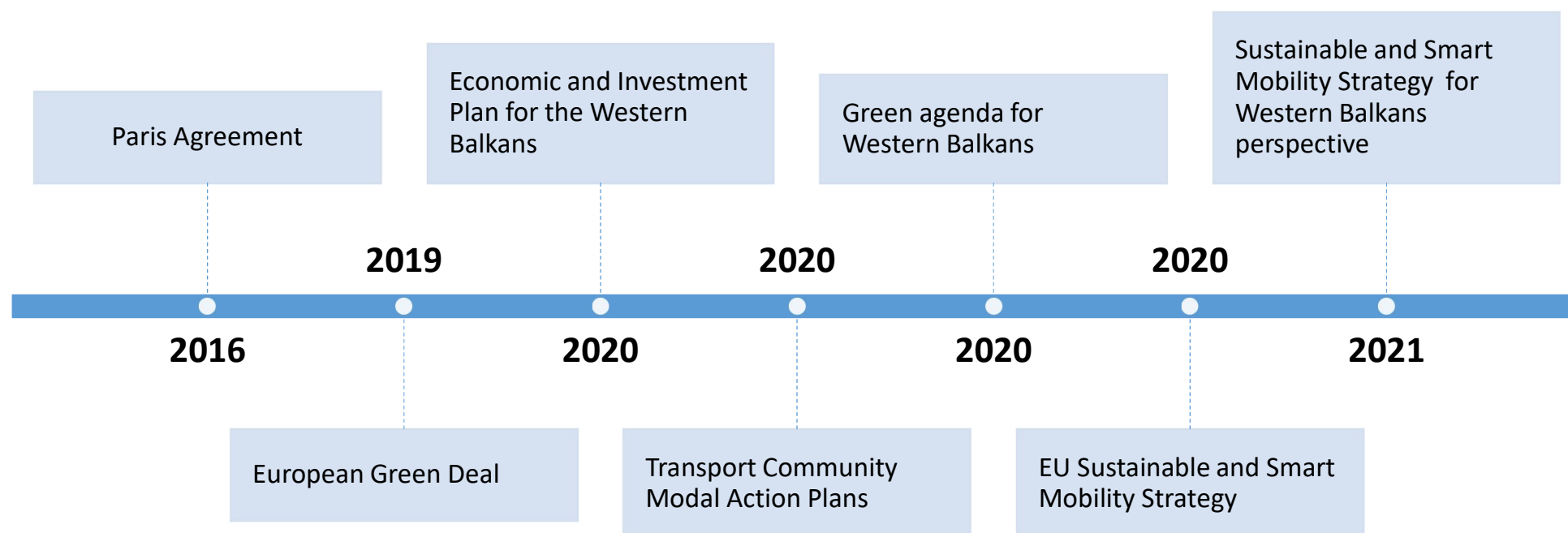
Source: Eurostat

Motorisation rate, 2000 and 2020  
(passenger cars per 1000 inhabitants)



(\*) Portugal and Bulgaria: no data available for 2000.  
Source: Eurostat (online data code: tran\_f\_vehst)

# Policy framework



# Green & digital transformation



**EU Economic and Investment plan for the Western Balkans to boost the economic development and recovery of the region.**

- EU plans to mobilise up to €9 billion of funding for investment flagships in the areas of transport, energy, green and digital transition, to create sustainable growth and jobs.
- Out of 10 flagships identified in the EIP are **3 transport flagships**
- ***IV. Investing in sustainable transport is one of key priorities***

# Green & digital transformation



## Guidelines for the Implementation of the Green Agenda for the Western Balkans- Smart and Sustainable Mobility

- The Green Agenda will be an opportunity to **revisit the overall transport strategies and to promote a greener and more sustainable transport network.**
- The top priority in this respect remains the **revitalisation of the rail network.**
- There should be a focus on the deployment of **Intelligent Transport System** solutions (ITS)
- The promotion of **multimodal transport solutions and modal shift,**
- The region suffers greatly from outdated and underdeveloped **transport logistics.**
- **Cleaner fuels and higher fuel efficiency** could also help reduce the environmental and health impacts of transport in the Western Balkans.
- **Charging for infrastructure** use, e.g. through vignettes or electronic tolls
- **Innovative solutions** -Smart mobility can combine different transport modes and options (public transport, car-sharing, car rental services, taxis and public bike-sharing/urban mobility schemes) to cater for mobility needs by using IT.

# SSMS WB Objectives & Roadmap



- Flagship 1 - boosting uptake of zero-emission vehicles, renewable & low-carbon fuels and related infrastructure
- Flagship 2 - creating zero-emission airports and ports
- Flagship 3 - making interurban and urban mobility more sustainable and healthy
- Flagship 4 - greening freight transport
- Flagship 5 - pricing carbon and providing better incentives for users



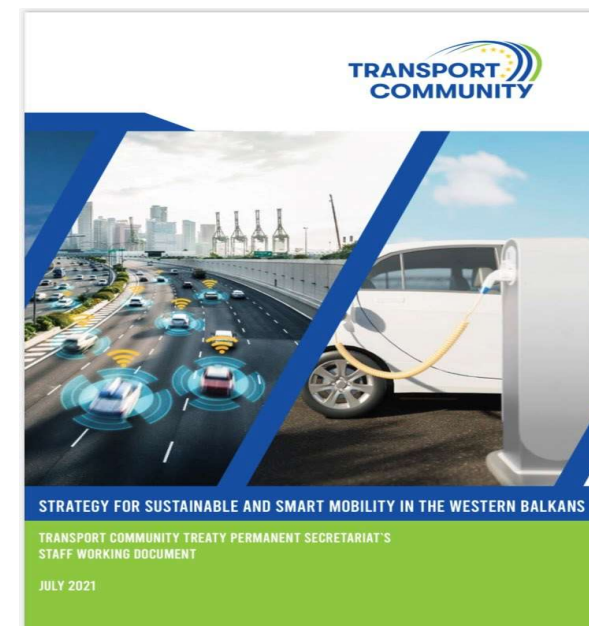
- Flagship 6 - making connected and automated multimodal mobility a reality
- Flagship 7 - innovation, data and AI for smart mobility



- Flagship 8 – working towards the single market
- Flagship 9 - making mobility fair and just for all
- Flagship 10 - enhancing transport safety and security

## OBJECTIVES:

- BASED ON 10 EU FLAGSHIPS AND 3 OBJECTIVES
- GAP ANALYSIS OF CURRENT SITUATION
- VS



# TCT activities to enable green and digital transition in transport



- **Working with our Regional Partners** to update their Transport Strategies to include sustainable and smart elements, since this is precondition for financing.
- **Raising awareness and increasing human capacity** to deal with green and digital transformation, capacity buildings/seminars/workshops have been organised. To name a few:
  - **The Road Summit.**
  - **Summer school**
  - **Workshop on greening the ports**

# TCT activities to enable green and digital transition in transport



Technical assistance on how to make transport greener, climate friendly and digital:

- Technical Assistance for the **Deployment of smart and sustainable mobility** in the Western Balkans with two components started in March:
  - Component 1 – **impact assessment and cost effectiveness analysis of the Sustainable and Smart Mobility Strategy for the Western Balkans;**
  - Component 2 - **Strategic framework for the deployment of e-charging stations** in the Western Balkans;
- **Improving climate resilience of TEN-T road and rail networks** in WB will encompass:
  - Task 1: Undertake vulnerability analysis of TEN –T
  - Task 2: Carry out a criticality assessment of TEN – T
  - Task 3: Identification and prioritisation of adaptation measures
  - Task 4: Institutional support

# TCT activities to enable green and digital transition in transport



- **Electronic freight transport information exchange** and implementation of the Regulation (EU) 2020/1056.
  - Main objective is setting the basis in achieving an interoperable electronic freight information exchange system and enabling wider use of digital technologies for fulfilling regulatory information requirements.
  - Reducing administrative burden for logistics operators, making transport paperless, and multimodal transport facilitated.
- Technical assistance for **e-tolling interoperability** across the Western Balkans
  - The specific objective of this assignment is to enable E-toll interoperability in the region.
  - In practical terms this means that a road user can travel without stopping and with single electronic toll device in the whole region.
- Preparation of **Strategy/Policy documents concerning ITS** for all transport modes in Bosnia and Herzegovina, Kosovo\* and for rail and maritime in Albania
  - The TA is aiming to prepare the strategy and the action plan for deployment of ITS in three RPs of the Western Balkans.
  - This will place higher political focus on ITS deployment and streamline National Investments. It will also serve as basis for applying to EU funding.

# Green & digital transformation



## WBIF sustainable transport – blending investment priorities

Goal: Speed up the completion of the indicative extension of the TEN-T to the Western Balkans and accelerate full alignment with the EU acquis, namely digital and clean energy technologies

- Key areas of intervention:
  - Rehabilitation and construction of new resilient and smart transport infrastructure, especially rail;
  - Deployment of digital transport technologies, such as intelligent transportation systems (ITS) or electronic queuing management systems (eQMS);
  - Implementation of sustainable urban mobility, green multimodal transport solutions and investments intended to facilitate cross-border mobility.
- Investments should be future-proof and sustainable (through climate-proofing and mainstreaming) in line with the Guidelines for the Implementation of the Green Agenda for the Western Balkans embedded in the EIP.

# Green & digital transformation



## Safe and Sustainable Transport Programme



**“Buying more for less”** – quick wins:

- Smaller-scale well-targeted interventions could achieve significant **economic and social benefits** at a **fraction of the cost** of large projects
- **Enhance** and **multiply** the **effects** of infrastructure investments

**Need to** focus attention on:

- Implementing priority actions under the **Sustainable and Smart Mobility Strategy in Western Balkans**
- **Removing non-physical barriers** to transport and trade
- Addressing TEN-T Network critical **safety** issues

# TEN-T Development Spending



- Connectivity Agenda - EU support for TEN-T projects since 2015
- EU grants of € 1 billion leveraged additional investment of € 3.7 billion under WBIF
- RPs mobilised additional loans from 3<sup>rd</sup> parties or own-budget spending - € 4.6 billion for on-going TEN-T projects



Thank you for your attention

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