



## TAKING AMBITIOUS CLIMATE ACTION

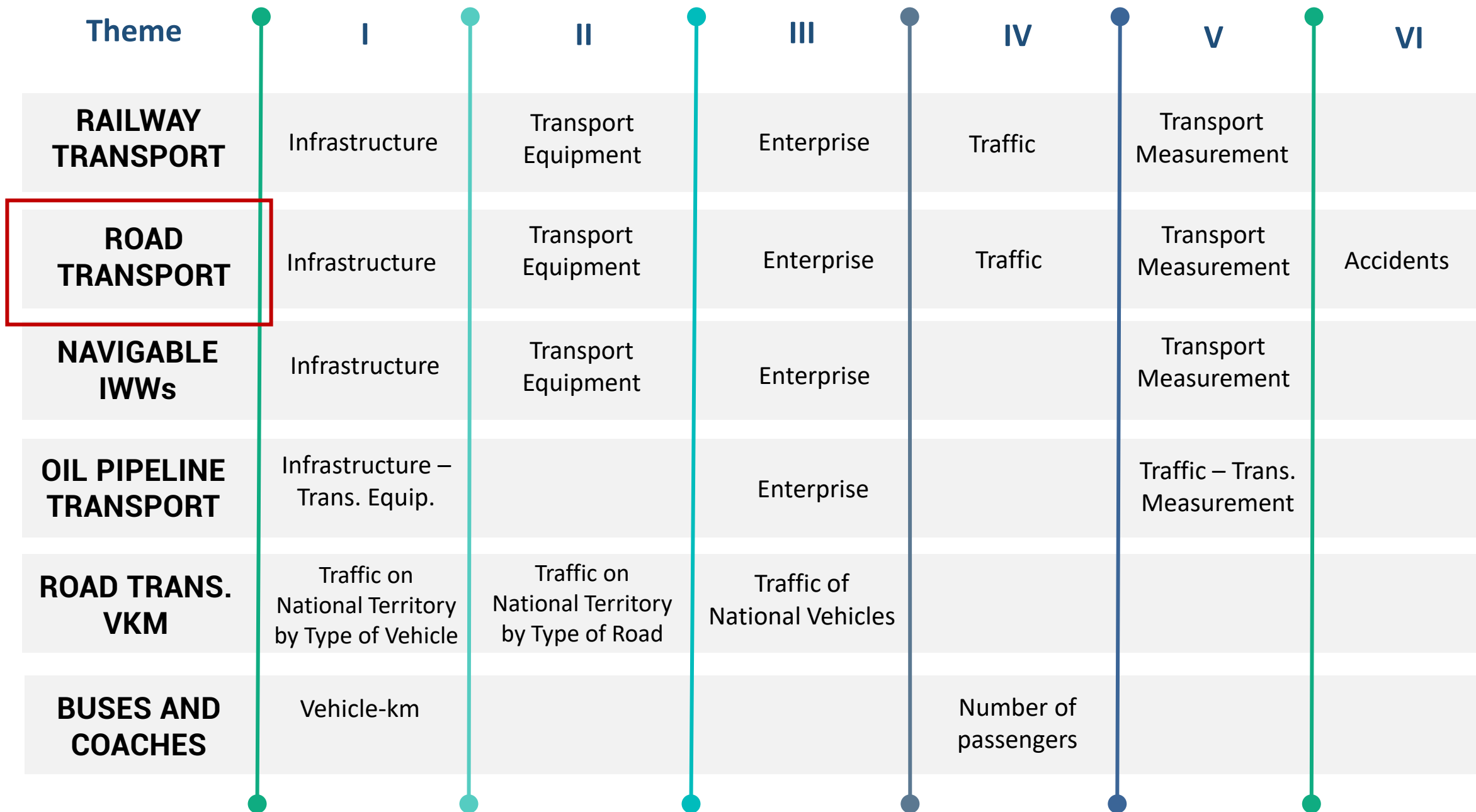
Decarbonising  
inland transport  
by 2050



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# Common Questionnaire – Streamlining Road Transport

Fadhah Achmadi, Secretary, WP.6



Theme	I	II	III	IV	V	VI
<b>RAILWAY TRANSPORT</b>	Infrastructure	Transport Equipment	Enterprise	Traffic	Transport Measurement	
<b>ROAD TRANSPORT</b>	Infrastructure	Transport Equipment	Enterprise	Traffic	Transport Measurement	Accidents
<b>NAVIGABLE IWWs</b>	Infrastructure	Transport Equipment	Enterprise		Transport Measurement	
<b>OIL PIPELINE TRANSPORT</b>	Infrastructure – Trans. Equip.		Enterprise		Traffic – Trans. Measurement	
<b>ROAD TRANS. VKM</b>	Traffic on National Territory by Type of Vehicle	Traffic on National Territory by Type of Road	Traffic of National Vehicles			
<b>BUSES AND COACHES</b>	Vehicle-km			Number of passengers		

# Road Transport Infrastructure

- 
- **16 new indicators on EV charging infrastructure**
  - **4 new indicators on cycling infrastructure**
    - National cycling infrastructure/Length at 31.12 (km)/Total
    - National cycling infrastructure/Length at 31.12 (km)/By category/Cycle lanes
    - National cycling infrastructure/Length at 31.12 (km)/By category/Cycle tracks, urban
    - National cycling infrastructure/Length at 31.12 (km)/By category/ Cycle tracks, peri-urban and not urban

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# Road Transport Equipment

## 12 additional indicators on special purpose vehicles

*in line with UN Consolidated Resolution on the construction of vehicles (R.E.3)*

**Number of Passenger cars and new (M1)/Number at 31.12 (Unit)/Total = 4**

Of which camper vans and motor homes at 31.12 (Unit)

Of which ambulances and other special purpose passenger cars at 31.12 (Unit)

**Number of Motor coaches, buses, trolley buses, mini buses and mini coaches and new (M2-M3)/Number at 31.12 (Unit)/Total = 2**

Of which special purpose vehicles (M2-M3) at 31.12 (Unit)

**Number of Light Utility Vehicles and new (N1)/Number at 31.12 (Unit)/Total = 2**

Of which light special purpose vehicles (N1) at 31.12 (Unit)

**Number of Lorries and new (excluding light utility vehicles - LUV)/Number at 31.12 (Unit)/Total = 2**

Of which special purpose vehicles (N2-N3) at 31.12 (Unit)

# Road Transport Equipment

**4 additional indicators on vehicles used by businesses, for hire or reward**

*Interest for ROADVKM and other studies*

**Passenger cars (M1)/Number at 31.12 (Unit)/Total**

Of which passenger cars (M1) used by businesses

**Light Utility Vehicles (N1)/Number at 31.12 (Unit)/Total**

Of which light utility vehicles (N1) used by businesses

**Lorries (excluding light utility vehicles - LUV)/Number at 31.12 (Unit)/Total**

Of which lorries (excluding light utility vehicles – LUV) for hire or reward

**Road tractors/Number at 31.12 (Unit)/Total**

Of which road tractors for hire or reward

# Road Transport Equipment

## Additional fuel types under mopeds and motorcycles

### WP.6 74<sup>th</sup> session

- Highlighted the need to reclassify road vehicle fleet by fuel type, emphasizing EVs
- The reclassification should include electric mopeds and other vehicle types

#### *Label*

#### **Mopeds (L1-L2)/Number at 31.12 (Unit)/Total**

Mopeds (L1-L2)/Number at 31.12 (Unit)/By vehicle technology/~~Petrol~~ Fossil Fuel

Mopeds (L1-L2)/Number at 31.12 (Unit)/By vehicle technology/~~Others~~ Zero emission

Mopeds (L1-L2)/Number at 31.12 (Unit)/By vehicle technology/ Other alternative fuels

#### **Motorcycles and similar (L3-L7)/Number at 31.12 (Unit)/Total**

Motorcycles and similar (L3-L7)/Number at 31.12 (Unit)/By size of engine/125 cc or less

Motorcycles and similar (L3-L7)/Number at 31.12 (Unit)/By size of engine/Exceeding 125 cc

Motorcycles and similar (L3-L7)/Number at 31.12 (Unit)/By vehicle technology/~~Petrol~~ Fossil Fuel

Motorcycles and similar (L3-L7)/Number at 31.12 (Unit)/By vehicle technology/~~Others~~ Zero emission

Motorcycles and similar (L3-L7)/Number at 31.12 (Unit)/By vehicle technology/ Other alternative fuels



# Road Transport Equipment

26 additional indicators on types of motor energy

	Passenger cars (M1)	Buses, motor coaches (M2 + M3)	Light utility vehicles (N1)	Lorries	Road tractors
Plug-in hybrid petrol-electric			<ul style="list-style-type: none"> <li>Total fleet</li> <li>new registration</li> </ul>	<ul style="list-style-type: none"> <li>Total fleet</li> <li>new registration</li> </ul>	
Plug-in hybrid diesel-electric			<ul style="list-style-type: none"> <li>Total fleet</li> <li>new registration</li> </ul>	<ul style="list-style-type: none"> <li>Total fleet</li> <li>new registration</li> </ul>	<ul style="list-style-type: none"> <li>Total fleet</li> <li>new registration</li> </ul>
Hydrogen and fuel cells			<ul style="list-style-type: none"> <li>Total fleet</li> <li>New registration</li> </ul>	<ul style="list-style-type: none"> <li>Total fleet</li> <li>New registration</li> </ul>	<ul style="list-style-type: none"> <li>Total fleet</li> <li>New registration</li> </ul>
Renewable fuels	<ul style="list-style-type: none"> <li>Total fleet</li> <li>New registration</li> </ul>	<ul style="list-style-type: none"> <li>Total fleet</li> <li>New registration</li> </ul>	<ul style="list-style-type: none"> <li>Total fleet</li> <li>New registration</li> </ul>	<ul style="list-style-type: none"> <li>Total fleet</li> <li>New registration</li> </ul>	<ul style="list-style-type: none"> <li>Total fleet</li> <li>New registration</li> </ul>

# Road Transport Equipment

## 56 discontinued indicators (poor response rates, streamlined)

- Breakdown of **motor coaches, buses, trolley buses, mini buses and mini coaches (M2-M3)** – total fleet + new = **8**
- **Special purpose vehicles** – total fleet + new = **2**
- **Bioethanol, biodiesel, and bi-fuel vehicles** – total fleet + new = **14**
- **Load capacity of lorries, semi trailers, and trailers** – total fleet + new = **32**

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# Enterprise Economic Performance and Employment

2 additional indicators, 3 discontinued indicators

Poor response rates

~~Investment and maintenance in road transport vehicles in goods road transport enterprises (GRTE)/Million national currency; current prices/Expenditures in road transport vehicles - Total~~

~~By expenditure type/Investment in road transport vehicles~~

~~By expenditure type/Investment in road transport vehicles~~

**Investment and maintenance in road infrastructure/Million national currency; current prices/Expenditure in road infrastructure - Total**

Investment and maintenance in road infrastructure/Million national currency; current prices/Expenditure in road infrastructure - Total/By expenditure type/Investment in road infrastructure (all sources of financing)

Of which investment in motorways (all sources of financing)

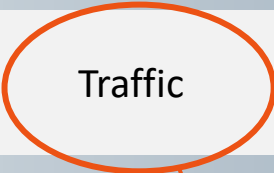
Investment and maintenance in road infrastructure/Million national currency; current prices/Expenditure in road infrastructure - Total/By expenditure type/Maintenance in road infrastructure financed by Public Administrations

Of which maintenance in motorways financed by Public Administrations

Alignment with ITF's infrastructure investment questionnaire

# Proposal to Delete Road Traffic Chapter

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# Road Transport Theme VS ROADVKM Theme



## 10 discontinued indicators

### Road Traffic Chapter

Motor vehicles movements on national territory – all vehicles – irrespective of country of registration **(Vehicle-km)**

Motor vehicles movements on national territory – vehicles registered in the reporting country **(Vehicle-km)**

VS

### ROADVKM Theme

National and foreign vehicles on national territory **(Vehicle-km)** by type of vehicle

National vehicles on national territory **(Vehicle-km)** by type of vehicle

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# Transport Measurement

## 8 discontinued indicators (poor response rates and lack of dissemination)

**Goods transport by vehicles registered in the reporting country/Tonnes carried (1000)/By maximum permissible weight (MPW category) of goods road motor vehicle/**

~~3501 kg – 7500 kg~~

~~7501 kg – 12000 kg~~

~~12001 kg – 40000 kg~~

~~Over 40000 kg~~

**Goods transport by vehicles registered in the reporting country/Tonnes-km (Mio)/By maximum permissible weight (MPW category) of goods road motor vehicle/**

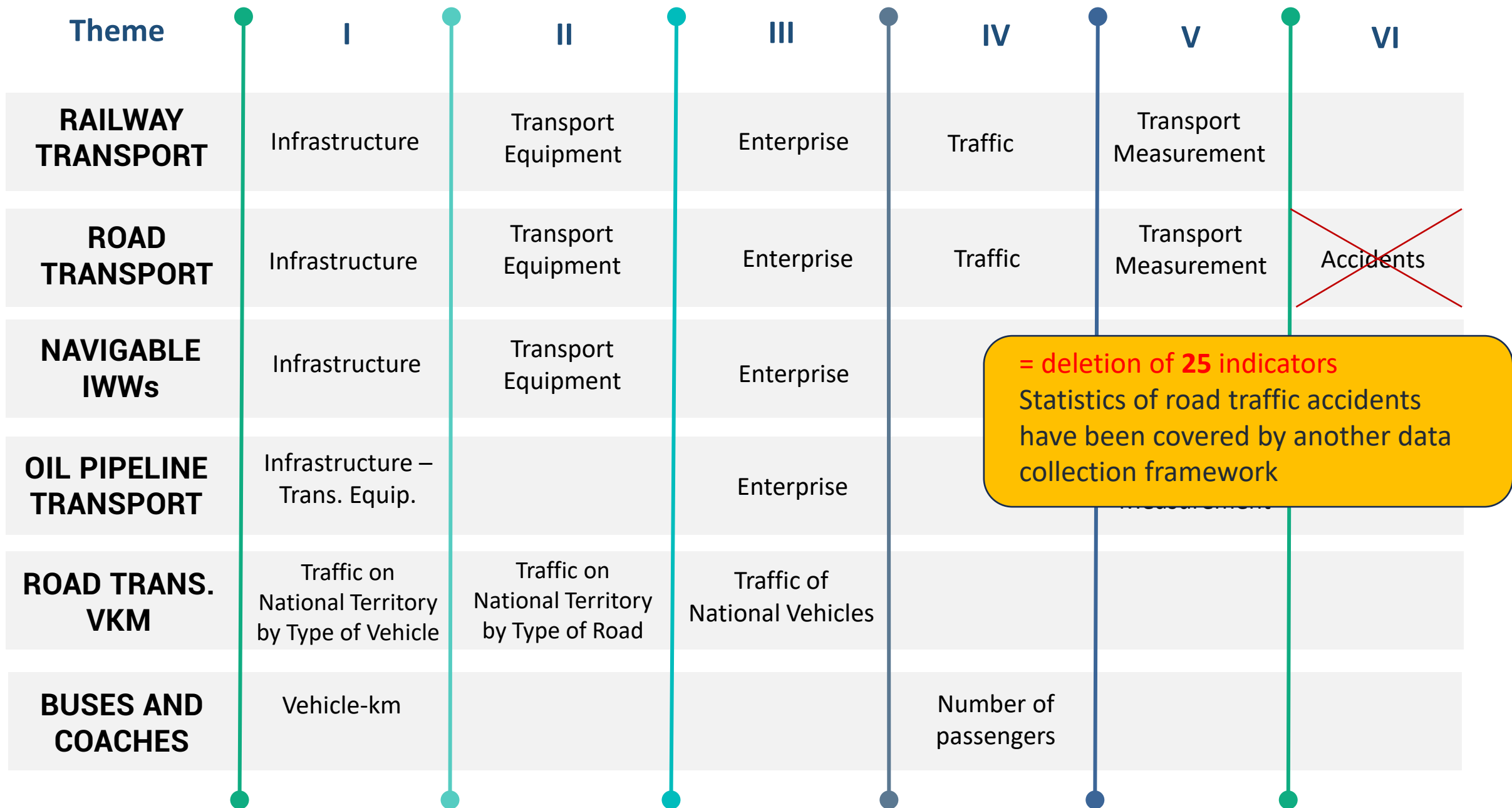
~~3501 kg – 7500 kg~~

~~7501 kg – 12000 kg~~

~~12001 kg – 40000 kg~~

~~Over 40000 kg~~





# Conclusion



- The current CQ collects 362 indicators in ROAD TRANSPORT theme
- 60 proposed new/additional indicators
- 75 discontinued indicators
- Reduction of 15 indicators in total → not many but more structured



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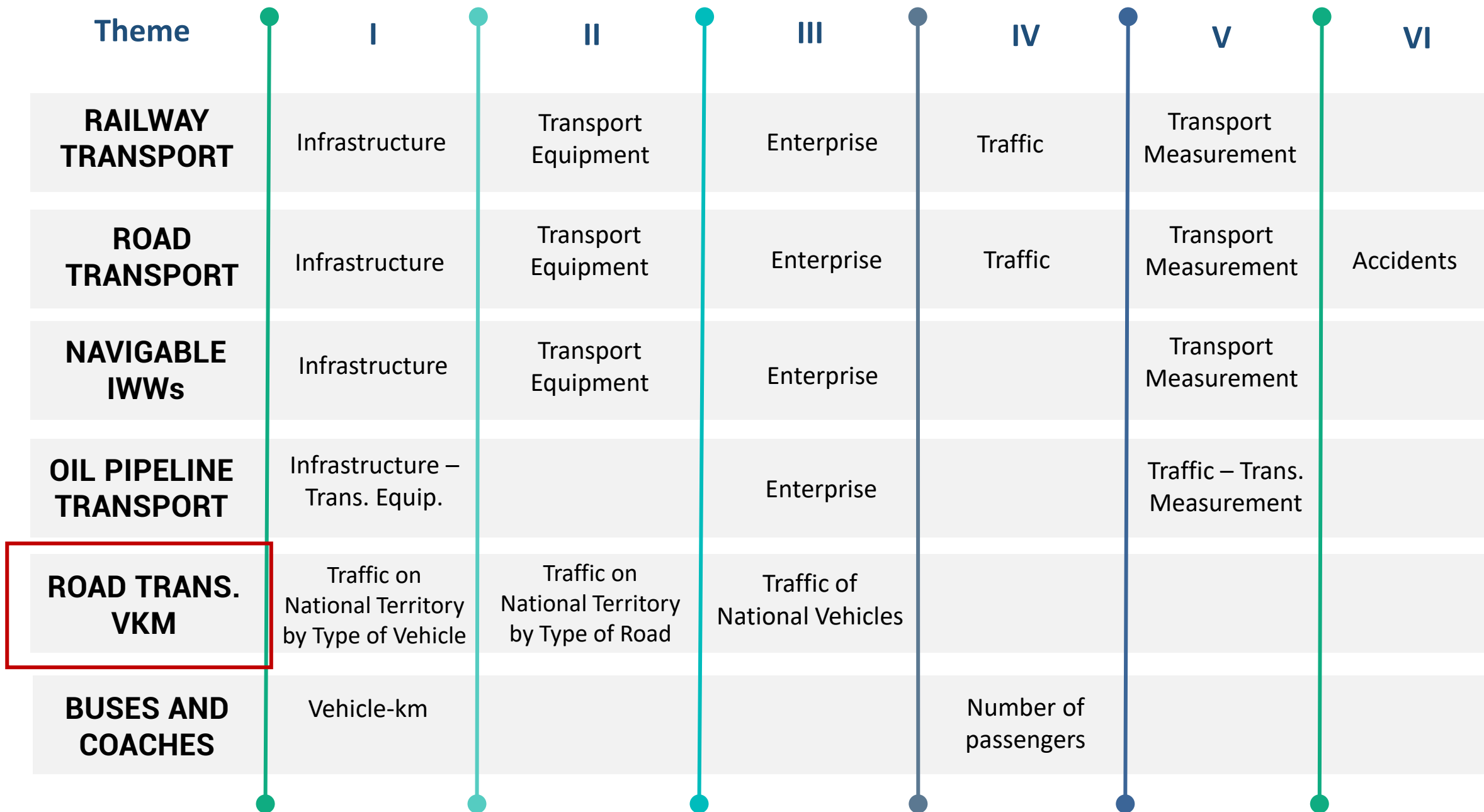
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## Common Questionnaire – Road Transport VKM

Fadhiah Achmadi, Secretary, WP.6





# Why Streamlining ROADVKM Theme (2)?

Consistency with the **type of vehicle** in the streamlined ROAD TRANSPORT theme

## Current Categorisation

- L1-L7: Motorcycles and mopeds
- M1: Passenger cars
- M2 + M3: Buses, motor coaches, etc
- N1: Goods vehicles up to 3.5 t MPW
- N2: Goods vehicles > 3.5 t – 6 t MPW
- N3: Goods vehicles > 6 t MPW
- T5: Road tractors

## Proposed Streamlining

- L2/L2/L6: Mopeds and light 3- and 4-wheelers
- L3/L4/L5/L7: Motorcycles, tri-cycles and quads
- M1: Passenger cars
- M2 + M3: Buses, motor coaches, etc
- N1: Goods vehicles up to 3.5 t MPW
- N2 + N3: Goods vehicles > 3.5 t MPW
- T5: Road tractors

# Why Streamlining ROADVKM Theme (3)?

Consistency with the **type of fuel** in the streamlined ROAD TRANSPORT theme

## Current Categorization

- Petrol
- Diesel
- LPG
- CNG
- Bi-Fuel Petrol-LPG
- Bi-Fuel Petrol-CNG
- Petrol-hybrid
- Diesel-hybrid
- Pure electric
- Flex-fuel
- Other fuel
- Unknown

## Proposed Streamlining

- Fossil fuel
  - Zero emission
  - Other alternative fuel
  - Petrol excl. hybrids
  - Petrol-hybrid
  - Plug-in Petrol-hybrid
  - Diesel excl. hybrids
  - Diesel-hybrid
  - Plug-in Diesel-hybrid
  - Battery-electric
  - Hydrogen and fuel cells
  - LPG incl. bi-fuel with LPG
  - Natural gas incl. bi-fuel with NG
  - Biofuels
  - Other fuels and unknown
- Mopeds, Light 3- & 4-W, Motorcycles, tri-cycles and quads
- Hybrid?
- Plug-in hybrid?
-

**National and foreign vehicles**

**Theme**

**ROAD TRANS.  
VKM**

**Traffic on National Territory  
by Type of Vehicle**

**Traffic on National Territory  
by Type of Road**

**Traffic of National Vehicles**

I

II

III

- Motorways
- Other roads
  - Roads inside built-up areas
  - Roads outside built-up areas



# Type of Vehicle x Type of Fuel x Age of Vehicles



Vehicle categories by fuel type	Age of vehicle (years)					Total
	< 2	2 < 5	5 < 10	10 < 20	> = 20	
<b>L1/L2/L3/L4/L5/L6/L7: Motorcycles and mopeds</b>						
<b>M1: Passenger cars</b>						
<ul style="list-style-type: none"> <li>• Petrol</li> <li>• Diesel</li> <li>• Bi-fuel Petrol-LPG</li> <li>• Bi-fuel Petrol-CNG</li> <li>• Petrol-hybrid</li> <li>• Diesel-hybrid</li> <li>• Pure electric</li> <li>• Flex-fuel</li> <li>• Unknown</li> </ul>						
<b>M2 + M3: Buses, motor coaches, trolleybuses, minibuses and mini coaches</b>						
<ul style="list-style-type: none"> <li>• Diesel</li> <li>• Diesel-hybrid</li> <li>• LPG</li> <li>• CNG</li> <li>• Pure electric</li> <li>• Other fuel</li> </ul>						

- Resulting in a high number of indicators, but are they useful for policy makers?
- Any inputs on how to streamline this theme?



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# Thank you!

**Fadhah Achmadi**  
Secretary, WP.6

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Date 25 | 04 | 2024, Geneva