



INTERNATIONAL ROAD FEDERATION  
FEDERATION ROUTIERE INTERNATIONALE

Better roads, better world.

# Global Transport Intelligence (GTI) Initiative

2 May 2011  
Paris

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Director General





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## **IRF's flagship product: World Road Statistics**

Edited yearly since 1964.

Most recent edition WRS 2010 covering 2003-2008.

Paper edition, electronic edition.

Data compendium 1963-2008, raw data, no analysis.

Financed by member contributions and data sales.

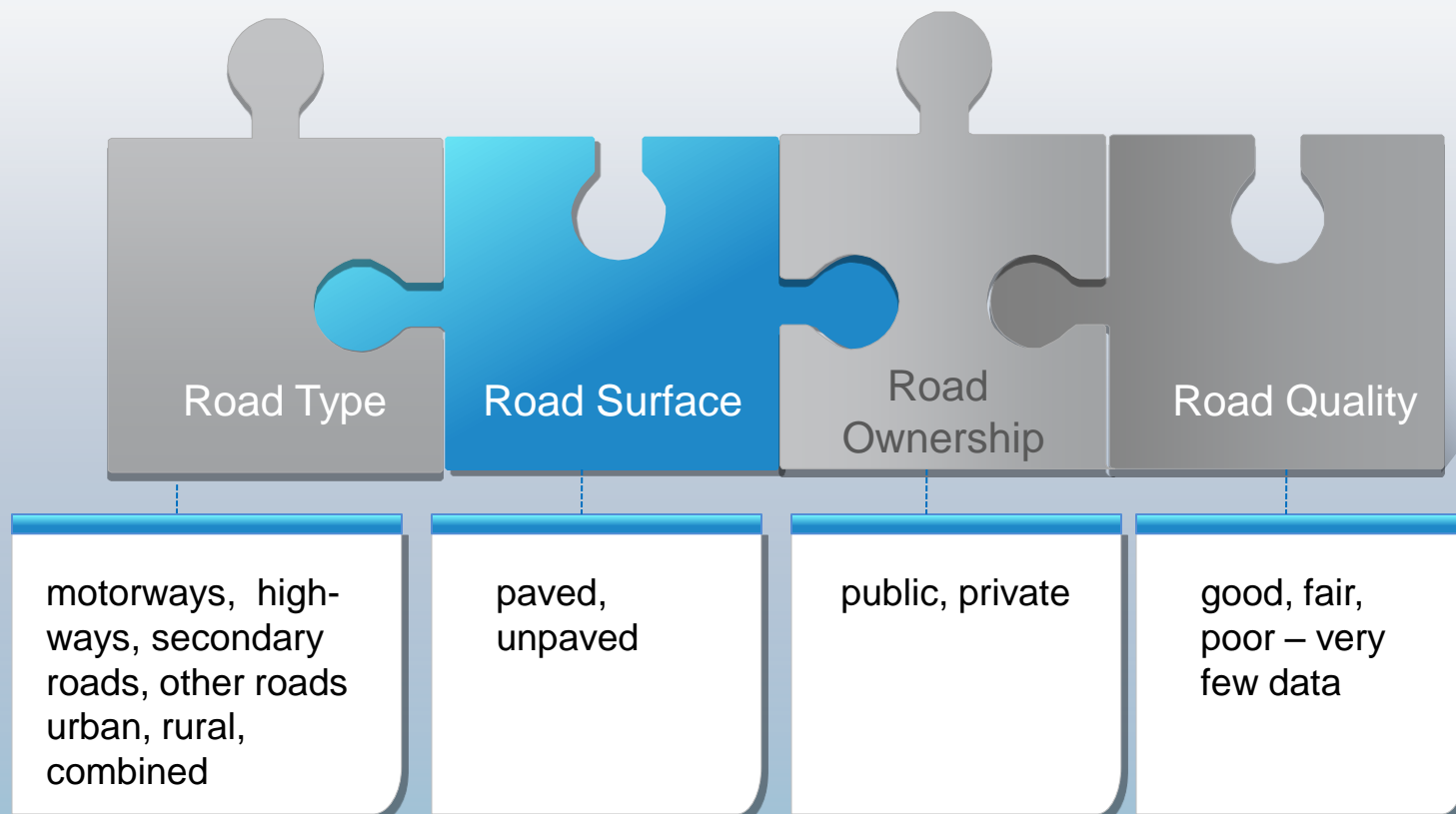


# INTERNATIONAL ROAD FEDERATION

## FEDERATION ROUTIERE INTERNATIONALE

Data collected

### Road network

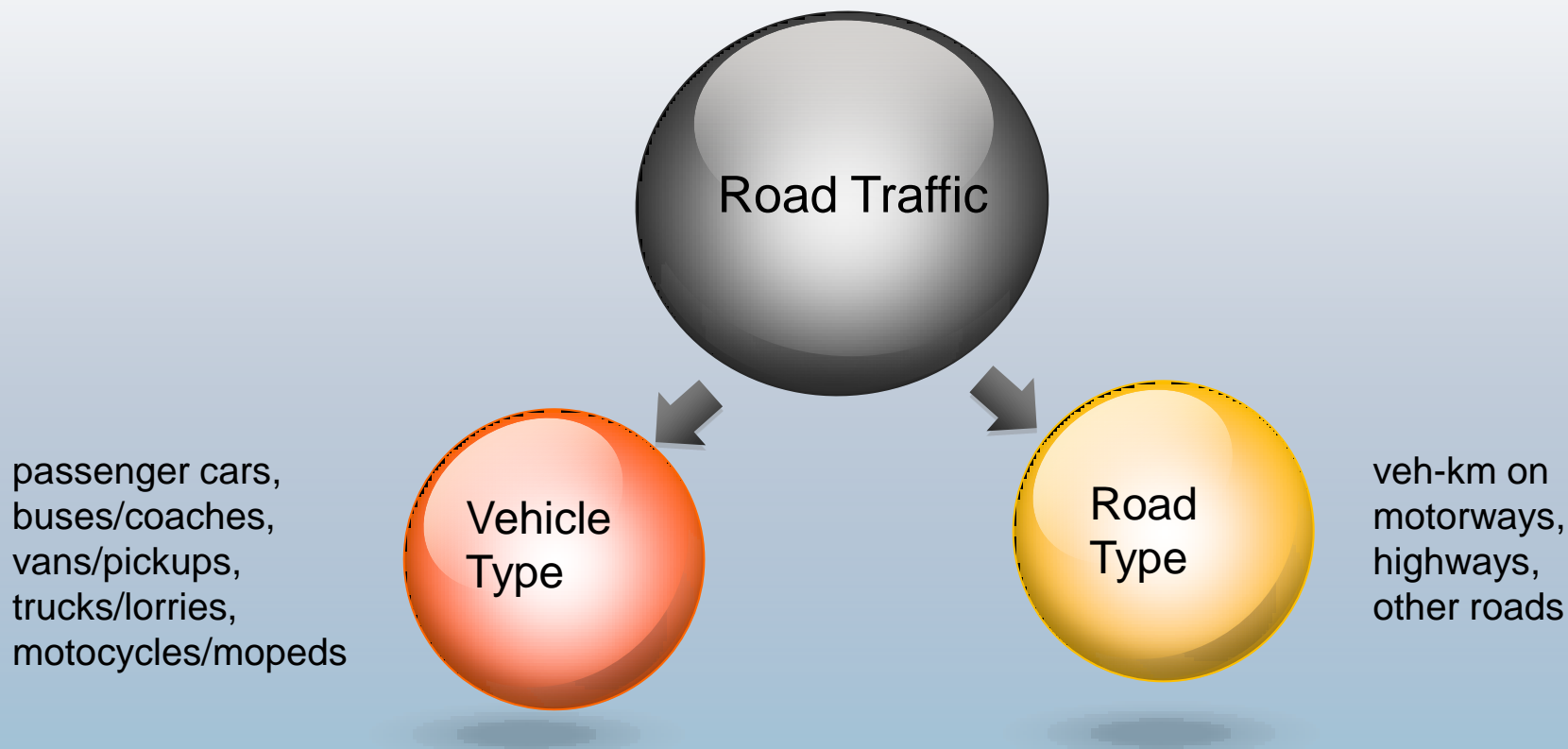


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Data collected

## vehicle-km, split by:





Data collected

## Multimodal surface inland traffic

➡ freight tons-km, split by:

Transport mode (road, rail, water)

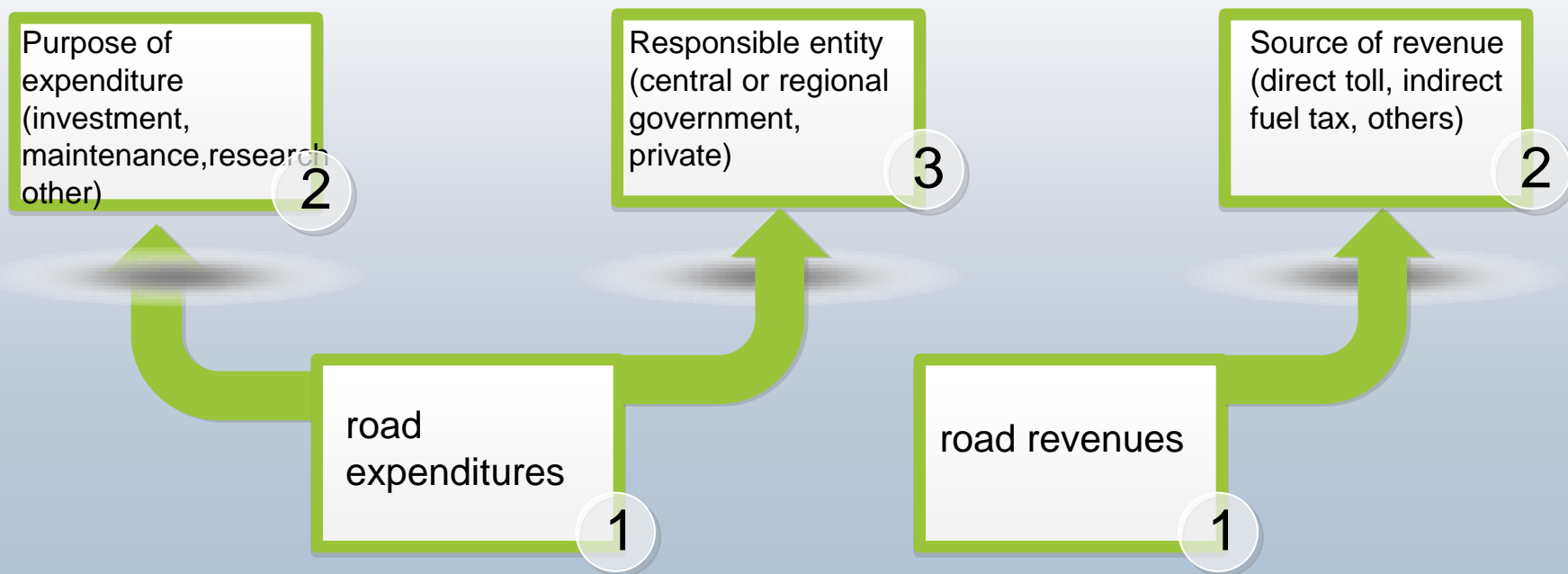
➡ persons-km, split by:

Transport mode (road private, road public, rail)



Data collected

## Road expenditures and revenues










Data collected

# Vehicle production, import, export, first registration

## Vehicle type






-  passenger cars,
-  buses/coaches,
-  vans/pickups,
-  trucks/lorries,
-  motorcycles/mopeds)



Data collected

## Existing vehicle fleet

### Vehicle type

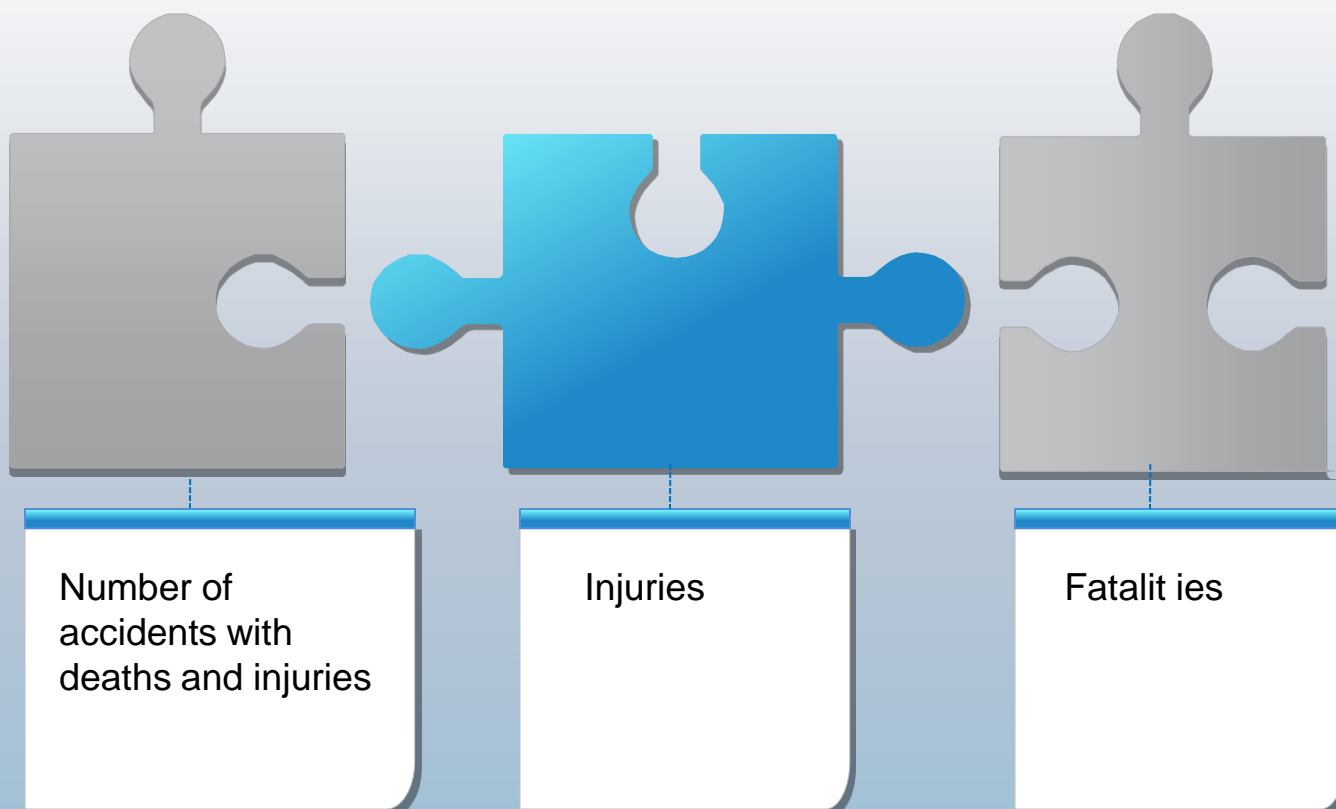
-  passenger cars,
-  buses/coaches,
-  vans/pickups,
-  trucks/lorries,
-  motorcycles/mopeds)





Data collected

## Road accidents

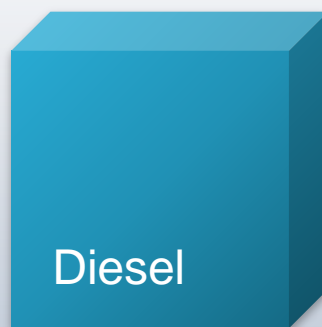
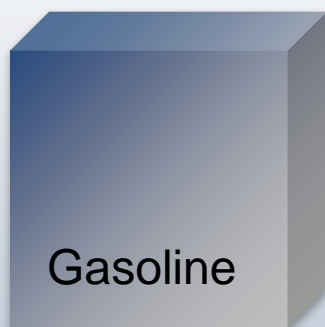




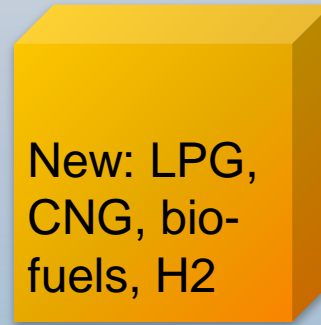
Data collected

## Fuel consumption

Fuel Type



Taxation %





Data collected

## Derived data

for example, computed from

Road density (km/km<sup>2</sup> of land area, km/population)

Motorisation rate (per 1000 population, per km road)

Accidents frequency (per 100'000 population, per vehicle-km)



## Data sources

**Questionnaires to**  
Road  
Administrations,  
National statistics  
offices, Vehicle  
Registration offices

**Third sources**  
Collaboration –  
Organisations  
Websites

**URGENT!**  
To provide  
to IRF



## Issues and challenges

- World scope, heterogenous environment
- Data partners identification, contacts network
- Heterogenous definitions  
(time, units, currencies, data aggregation, methodologies)
- Heterogenous quality standards  
(reliability from precise counting to rough estimates, different standards of quality assurance)



## Future Plans

- data completeness
- data quality
- easier management

Increase number of regions  
from 187 to 249 following ISO  
3166 definitions

Collect  
additional  
parameters

Data management  
and analysis  
improvement



## Observations

### **Challenge: Unify the countries' data structure**

Provide countries with guidelines and know-how to help them organise their statistics in an uniform way.

Improve the information flow between data collectors and data providers, if possible also including the sub-providers in the process (regional government, various ministries with a country) – feedback improves the quality control



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# 2011 IRF World Road Statistics

9

Publication

1

2

3

4

5

6

7

8

9

10

Send  
questionnaires

Collection

Compilation

Control

Prepare publication

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**IRF** WORLD  
ROAD  
STATISTICS

**Thank you.**

**Sibylle Rupprecht  
Director General  
International Road Federation  
(IRF)**

