

Transport Emissions in the Arab region

Elements of the final product

Data Collection Method

- **Tool:** An electronic survey was designed be shared with the Focal points of 4 ministries (transport, planning, environment, and energy) through UN-ESCWA.
- **Coverage:** 18 Arab countries members of UN ESCWA.
- **The questionnaire axes:**
 - Country data (population, GDP, vehicles, roads...etc.)
 - Emissions by sector (Heat and electricity, industrial production, transport)
 - Transport emissions (Roads, Rails, Aviation, Maritime)
- **Actual Status:** The Survey was delivered to ESCWA, but no results resaved.
- **Full survey (Annex 1) and available via the link** <https://ee.kobotoolbox.org/x/#yxpehFaL>

Kobo Toolbox Choisissez votre langue: English

Survey on transport emissions in the Arab region 2019 (En/Ar)

▼ **1. General information**

COUNTRY NAME:	-
MINISTRY:	-

▼ **2. Information about the person filling in the questionnaire**

FULL NAME
ORGANIZATION/ SECTION/ DIVISION
POSITION
EMAIL ADDRESS:
PHONE NUMBER:

▼ **3. Total of population resident in the country (if available to your ministry)**

2014
2015
2016
2017
2018

▼ **4. GDP in US\$ (if available to your ministry):**

	NOMINAL GDP	REEL GDP
2014		
2015		
2016		
2017		
2018		

Preliminary Data base (Annex 2)

Data was collected manually (for 2003-2016) using some PDF statistical annual reports and web-databases (when available) of each country.

Collected Attributes:

❖ Country

❖ Year

❖ GDP

❖ Population



❖ Passenger-Cars

❖ Busses

❖ Goods-Vehicles

❖ Motorcycles

❖ Other-Vehicles

❖ Total-Vehicles



❖ Roads length

❖ Rail-Number-Pass

❖ Rail-Passenger-KM

❖ Rail-Average-Distance-Travelled-By-Passenger



❖ Aviation-Landing

❖ Aviation-Departing

❖ Aviation-Total Movement



❖ Transport-emission-CO2

❖ Transport-emission-N₂O

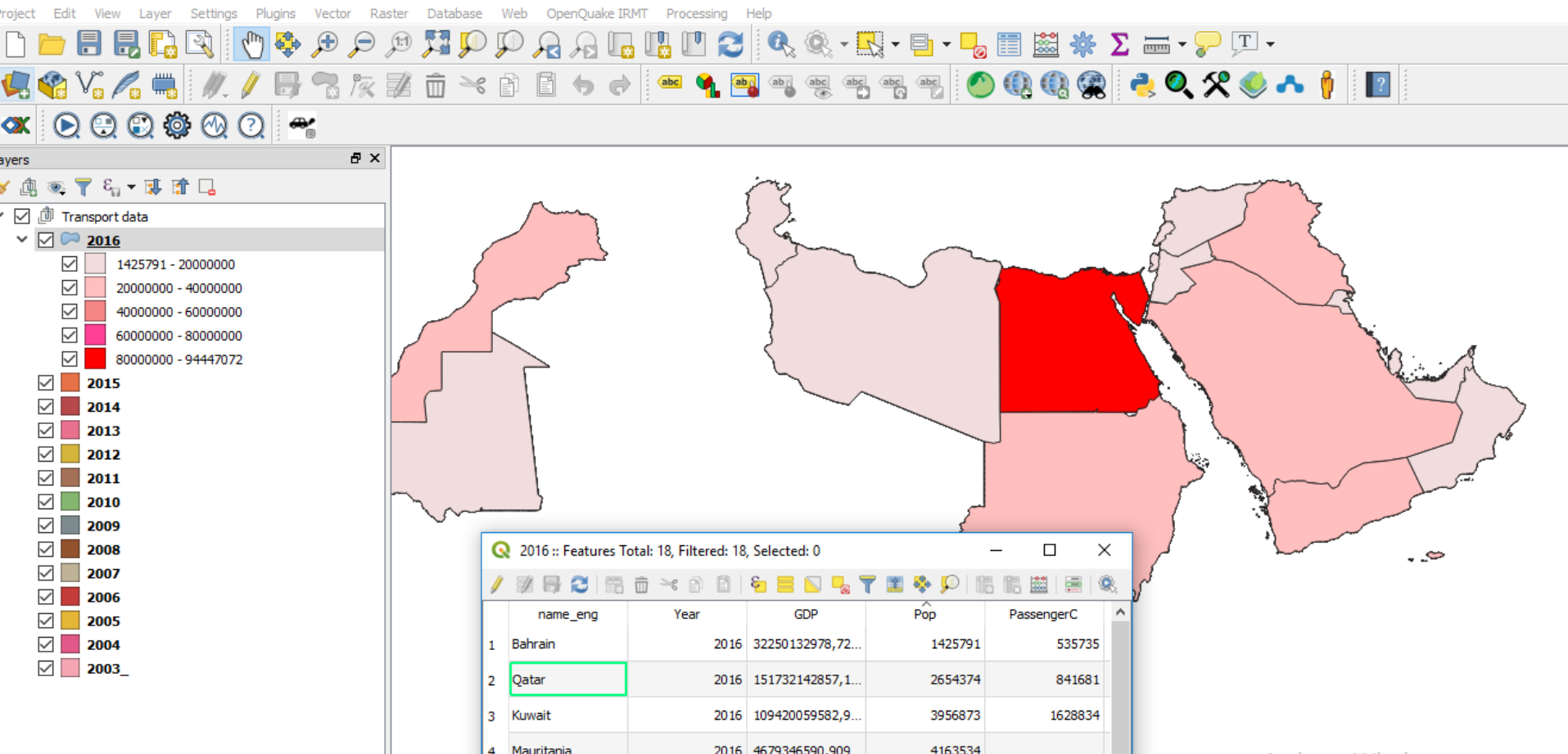
❖ Transport-emission-CH₄

❖ Transport- emission-GHG_s

❖ Energy-emission-GHG_s

The collected data is incomplete, specially data emissions because the **inventories** periodicity is not annual + war situation.

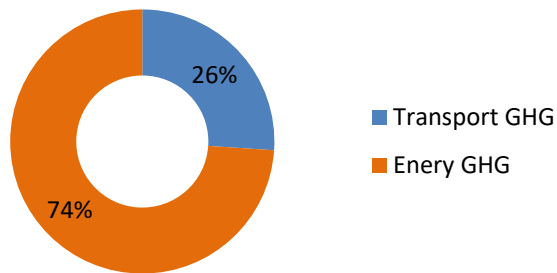
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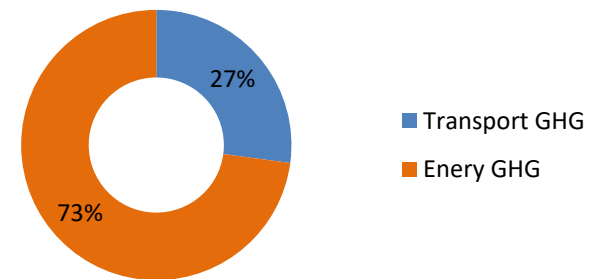
Actual possible analysis

- Example **Morocco**: comparison between 2010-2012

Morocco emissions 2012



Morocco emissions 2010



	Motorization rates (Vehicles/1000 persons)	Transport GHG emissions per capita (tones per capita)	Transport co2 emissions per capita (tones per capita)	GHG/ Km of roads
2100	85,32349532	0,428449227	0,426455001	1,257304
2012	92,90266759	0,445647839	0,445647839	1,383239

Future possible analysis

Two types of analysis are possible (Once the data base is completed in the future using the survey) :

- Comparison between countries during a fixed period
- Performance of a country in time

General characteristics of Transport

- Motorization rates
- Road vehicle-kilometres per capita (2013)
- Total passenger-kilometres by transport mode (rails,
- Total tonne-kilometres by transport mode
- Passenger-kilometres per GDP by transport mode
- Tonne-kilometres per GDP by transport mode
- Average occupancies of road passenger vehicles
- Average loads of road freight vehicles

Land transport emissions:

- Transport GHG emissions per capita
- Transport CO₂ emissions per capita
- Transport NO_x emissions per capita

- Passenger transport GHG per PKM
- Passenger transport CO₂ per PKM
- Passenger transport NO_x per PKM

- Freight transport GHG per TKM
- Freight transport CO₂ per TKM
- Freight transport NO_x per TKM

advanced analysis

Patterns
Correlations
Previsions
Modeling