# ENERGY EFFICIENCY IN TRANSPORT

**G20 Transport Task Group** 28-31 October 2019, Tokyo, Japan

Subsecretaría de Energías Renovables y Eficiencia Energética

Secretaría de Energía

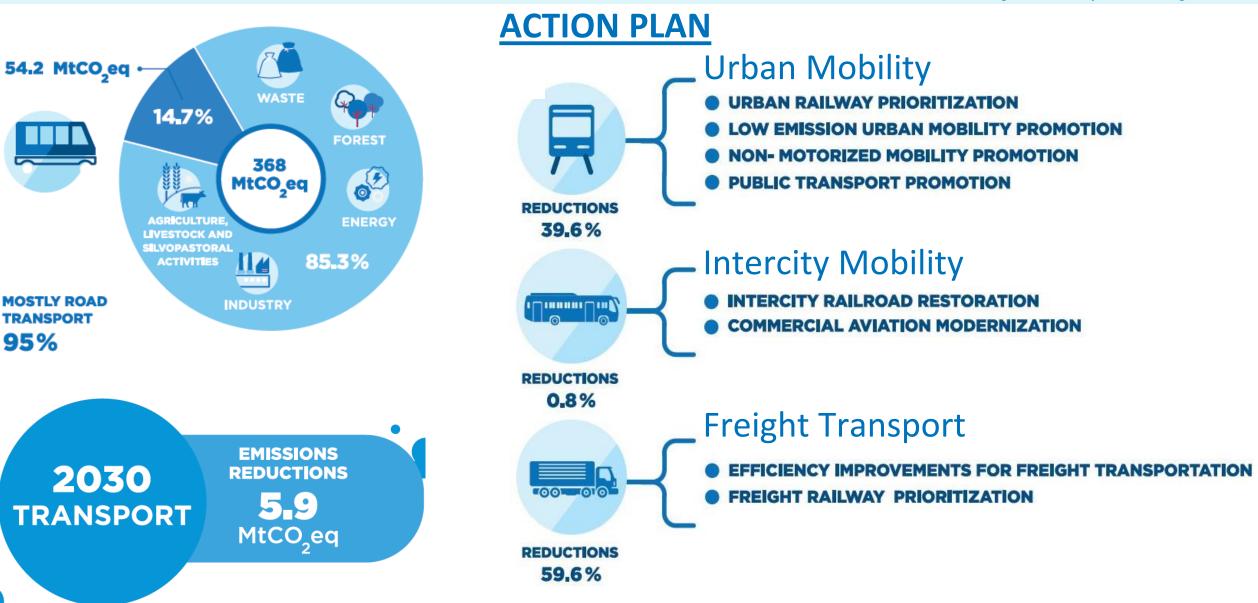


Ministerio de Hacienda **Presidencia de la Nación** 

Secretaría de Energía

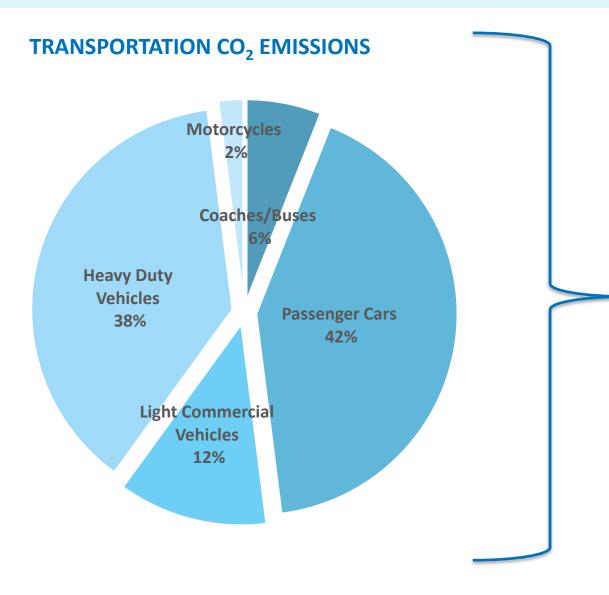
Ministerio de Hacienda **Presidencia de la Nación** 

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#### **ENERGY EFFICIENCY IN TRANSPORT**





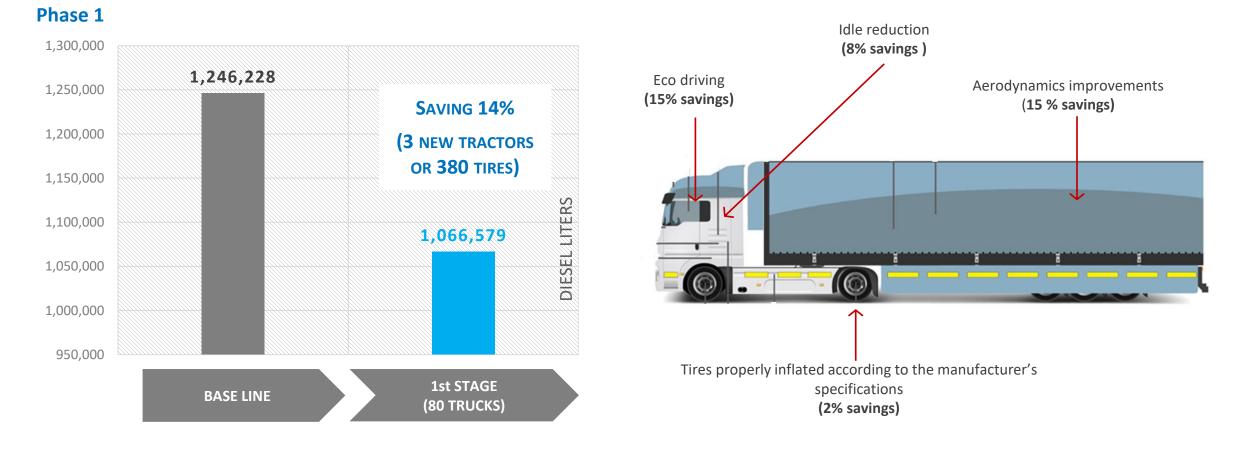
- Energy Efficiency Labels
- Intelligent Transport Program
- Efficient Fleet Management Training
- Eco-Driving
- Technologies Verification

Secretaría de Energía Ministerio de Hacienda Presidencia de la Nación

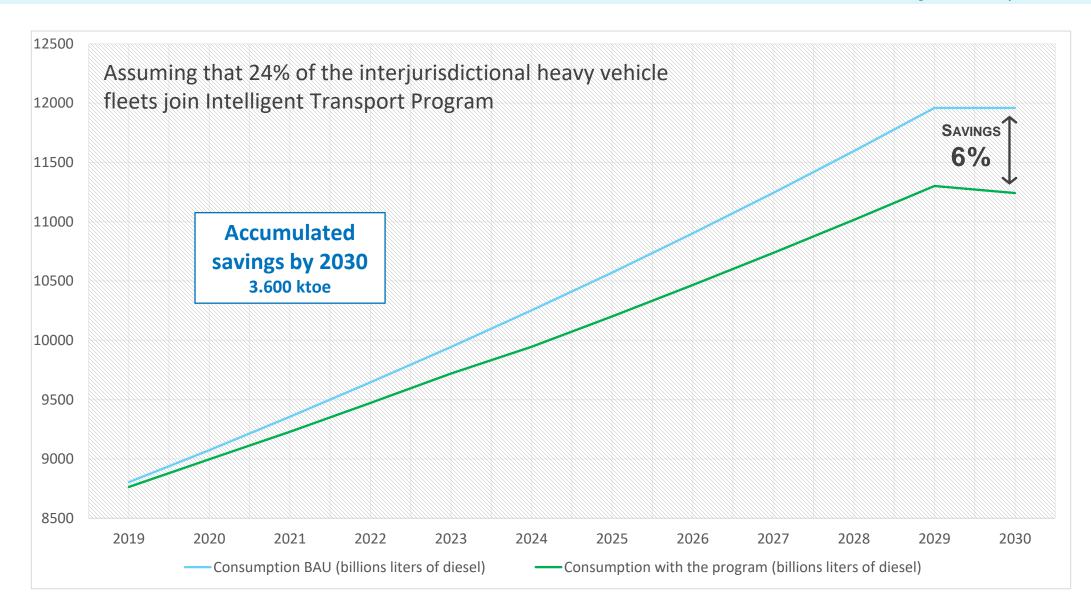
Subsecretaría de Energías Renovables y Eficiencia Energética

#### **OBJECTIVES**

- Create a community of best practices and technologies in transport energy efficiency in order to decrease fuel consumption and improve competiveness
- Involves freight carriers, logistics companies, technology companies, passenger carriers, shippers, academia and the public sector.









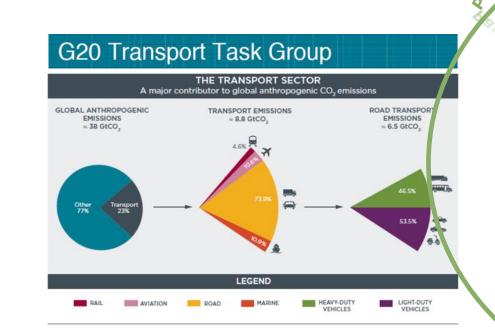
# Thank you!

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## Argentina

ENERGY EFFICIENCY AND CO2 EMISSIONS FROM HEAVY AUTOMOTIVE TRANSPORT



Meeting of the G20 Transport Task Group 28-31 October 2019, Tokyo, Japan



Paris Agreement on Global Climate Change Por Emission Reduction and Efficiency Improvement In Heavy Vehicles:

Freight Transport



Passengers Transport



3. GHG MITIGATION (CLIMATE CHANGE)

### 2. FUEL SAVINGS (ENERGY EFFICIENCY)

### 1. AIR QUALITY (HEALTH IMPACT)

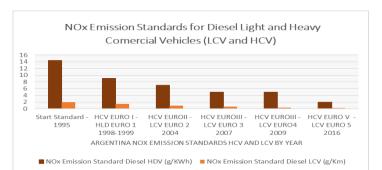
#### **Argentina:** Advances in Regulatory/Policy Framework for HDVs Standards for HDV pollutant emissions

- In 2018, the EURO V standard is required in Argentina for all new HDVs (Resol. SAyDS 1464/2014) with low sulfur (S <10 ppm) diesel fuel.</li>
- Currently (2019) 30% of the volume of diesel fuel sold in Argentina is type low sulfur diesel (S <10 ppm) (Ministry of Energy, Resol. SRH 5/2016).
- In **Brazil**, the entry of **Euro VI (NBR P8)** standards for HDV is planned for **2023**, what allows its incorporation to Argentina in a context of normative harmonization in the region.
- Programs of alternative fuels for HDV in developing : B100 (Dec. SSTyTRA GCABA 156/2018) and LNG (Resol. ENERGAS 42/2019) and new technologies in BRT passenger transport (Electric Buses, Dec. 51/2018).
- For the first time in Argentina, air quality standards for PM2.5 were incorporated in 2018 to the Buenos Aires Province (Dec. PBA 1078/2018)



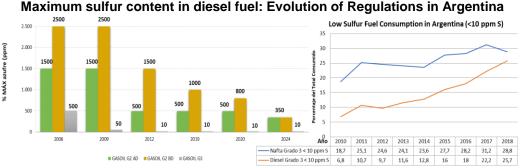
#### **B100 BUSES PROGRAM**





EURO V HDV in ARGENTINA 2016 (Resol. 1464/2014)

| Category of               | Date of entry into  | Date of entry into force | Expire Date of         |
|---------------------------|---------------------|--------------------------|------------------------|
| Vehicles according        | force of EURO V for | of EURO V for All los    | EURO IV Certification  |
| to European Dir.          | "New Models"        | New Vehicles (0 Km)      |                        |
| Heavy Duty<br>M2,M3,N2,N3 | 1-January 2016      | 1-January 2018           | EURO III: 31-Dec. 2015 |
|                           |                     |                          | EURO IV: 31-Dec. 2017  |



LNG TRUCKS PROGRAM



**ELECTRIC BUSES PROGRAM** 



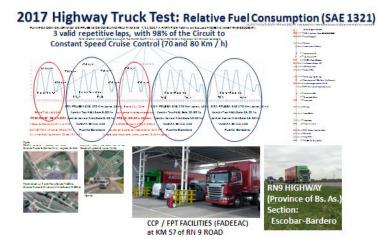
## Argentina: Advances in Regulatory/Policy Framework for HDVs

Measures on energy efficiency and greenhouse gas emissions of the HDV fleet

- In 2016 the Ministry of Transportation incorporates the Smart Transport Regulation (Voluntary program for HDV in use, Resol. CNRT 1075/2016), implemented from 2018 between the Argentina Government (Transport, Energy and Environment) and interested transport companies.
- In 2016, the on road vehicle efficiency group (VE Arg. group) was formed in the ISO Argentina chapter (IRAM) between Government Ministries (Energy, Environment, Transport and Industry) and the private sector (companies and associations of automotive and services of transport) to development of technical standards.
- In 2017, HDV-E Arg. is organized from the previous group, incorporating freight truck test on the highway to support the implementation of the Argentina Smart Transport Program (1<sup>st</sup> Step): Relative Consumption Tests according to SAE 1321 were carried out to evaluate improvement of HDV energy efficiency.
- In 2019, HDV-E Arg. group carried out two highway truck test campaigns planned together with ICCT and US EPA (2<sup>nd</sup> Step) to support the future implementation of a VECTO-type certification and monitoring program:

   Coast down tests of trucks on the highway for measurement of aerodynamic drag coefficient (SAE 2263)
   Determination of fuel consumption fuel by VECTO with verification by measurement with telemetry and flowmeter.





**2nd STEP (2019):** Measurement Campaign Planning with **icct** Clean Transportation and US EPA (a) for the development of a Technical Standards Framework of VECTO Certification in Argentina



## Work objectives of Technical Group HDV-E Arg.

- The development of the Argentine regulatory framework on energy efficiency of heavy freight transport on road vehicles.
- Understand through the tests developed, the international standards of application, finding mechanisms for local implementation.
- Agree on the technical standards to be applied and communicate them to the sectors involved in their implementation, as well as disseminate them to other related actors and society in general.
- Promote the fulfillment of national goals for fuel savings and mitigation of CO2 emissions.
- Promote regional regulatory harmonization through the Pan American Technical Standards Commission (COPANT) that integrates all the ISO chapters of América.
- Enable the incorporation and exchange of knowledge with TTG G20, and developing of alternatives to the international cooperation



Program proposed for the development of the Regulatory Framework of HDVs Efficiency in Argentina (HDV-E Arg.) ✓1<sup>st</sup> STEP (Started in 2016): Development of standards to support the implementation of Smart Transportation Program.

✓ 2<sup>nd</sup> STEP (Started in 2019): Development of Technical Regulatory Framework (truck coast down, tire rolling resistance etc.) and definition of the component testing (representative driving cycles and trucks categories) and vehicle simulation methodology to support the implementation of the certification and monitoring program.



✓ 3<sup>rd</sup> STEP (to be defined): Promote the development of CO2 emission and fuel consumption standards according to CO2eq mitigation and fuel savings goals of the National Transport and Climate Change Action Plan.

# Thank you!

