Energy Efficiency Programs
Transport EE Coordination
Composition of Road Transport in Argentina

- 15% of country GHG emissions. 29% of energy sector
- 95% of the transport sector emissions corresponds to road transport
- 95% of all goods and raw materials are transported by trucks
- 40% of the total cost of road transportation companies is due to fuel
Composition of Road Transport in Argentina

CO$_2$ emissions by type of vehicle

- LDV: 42%
- HDV: 38%
- Light Commercial Vehicles: 12%
- Motorcycle: 2%
- Passengers: 6%

Source: Own elaboration, based on National GHG Inventory 2012
Transport Coordination Programs

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Fuel Efficient Driving—Inclusion of content in norms

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Norms-Courses
Fuel Efficient Driving—Inclusion of content in norms

• Fuel Efficient Driving in all type of driving licenses

• Development of content for norms and for courses to obtaining or renewing the driving license.

• Work in cooperation with:
Transport Coordination Programs

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- Light Commercial Vehicles: 12%
Efficient Fleet Management - Capacity Building

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Efficient Fleet Management - Capacity Building

• Capacity building to sector’s decision makers

• Topics:

  ✓ Efficient Fleet Management
  ✓ Monitoring and follow up of fuel consumption
  ✓ Fuel Efficient Driving
  ✓ Fuel saving technologies applied to transportation
  ✓ Impact on costs
Efficient Fleet Management - Capacity Building

Introductory course on fuel savings in transportation

- 45 Presidents of sectorial and regional chambers in the Federal Council FADEEAC
- 320+ sector’s businessmen
Efficient Fleet Management- Workbook

• Generation of consultation material for the sector

• Thematic areas:

✓ Impacts of the transport on the environment

✓ Efficient Fleet Management

✓ Energy efficiency measures by type of transport, potential savings
• Transport Impacts on the environment
Efficient Fleet Management- Workbook

• Aspects of Efficient Fleet Management:
  ✓ Efficient Management Indicators
  ✓ Optimal purchase
  ✓ Maintenance
  ✓ Night distribution
  ✓ Energy efficiency technology
Efficient Fleet Management- Workbook

• Eco Driving
• Quantification of the potential impact of energy efficiency measures
Transport Coordination Programs

- Efficient Fleet Management
- Norms - Courses

- LDV 42%
  - Light Commercial Vehicles 12%
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Development of sectorial pilot programs
Fuel Efficient Driving Pilot Program in Minem Fleet

• 24 vehicles of the fleet
• Calculation of fuel consumption based on data of distance travelled and fuel charges
• Comparison between average fuel consumption and reference information
Fuel Efficient Driving Pilot Program in Minem Fleet

Conclusions:

• Fuel consumption highly depends on driver’s driving style

• Big percentage of vehicles with high fuel consumption

• Fuel efficient driving capacity building opportunities
Fuel Efficient Driving Pilot Program in Minem Fleet

Minimum and maximum fuel saving scenarios:

- Fuel efficient driving capacity building

Next steps:
- Optimization of monitoring and follow up
- Comparison of fuel consumption before and after fuel efficient driving capacity building
Energy Efficiency Labelling for LDV

Efficient Fleet Management

Courses

Sectorial Pilot Programs

0%

Content classed by vehicle type:

- Motorcycle: 2%
- HDV: 38%
- Light Commercial Vehicles: 12%
- LDV: 42%
- Passengers: 6%

Verificación tecnologías
Energy Efficiency Labelling for LDV

• Mandatory EE Labelling for LDV, categories N1 and M1 until of 3.500 kg.

• Comparative label for categories

• Tool to better position energy efficiency as a decision making when purchasing a car

• Establishment of minimum standards
Energy Efficiency Labelling for LDV

- **Norm IRAM/AITA 10274-1**  
  Measurement of CO\(_2\) and fuel economy  
  Published: August 10, 2017

- **Resolution 797-E/2017 MAyDS**  
  Declaration of CO\(_2\) emissions and fuel consumption  
  Published: November 14, 2017

- **Norm IRAM/AITA 10274-2**  
  Energy efficiency labelling  
  Published soon

- **Resolution**  
  Energy efficiency label implementation  
  Published soon
Transport Coordination Programs

- Efficient Fleet Management
- Sectorial Pilot Programs
- Courses
- EE Labelling for LDV

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Verificación tecnologías
Efficiency Technology Verification

- Light Commercial Vehicles (12%)
- HDV (38%)
- Motorcycle (2%)
- Passengers (6%)

Technology Verification

Efficient Fleet Management

Sectorial Pilot Programs

EE Labelling for LDV

Courses
Efficiency Technology Verification

• NORM IRAM/AITA 10.290
  Road Vehicles. Road Transport Efficient Technologies Verification.
  Under Development

• Development of an Argentinean Norm for validation of fuel saving technologies. Adapting SAE J1321 to local conditions.

Objectives:
• Giving reliable information to the transport sector
• Developing a market for efficient technologies
Efficiency Technology Verification

• Work in collaboration with:

Ministerio de Ambiente y Desarrollo Sustentable
Presidencia de la Nación

50 AÑOS
FADEEAC

ADEFÁ
ASOCIACION DE FÁBRICAS DE AUTOMÓVELES

DRIVEUP

ANDREANI

• Next steps:
Development of a technology verification scheme
Green Freight – Programa Transporte Inteligente

Creation of an efficient technology and best practices community.

- **Launch:** October 2\(^{nd}\)
- **Participant:** shippers, transport companies, EE tech & svc providers, sector chambers, universities and government
- **1 year cycle** to generate baseline, implement EE measures and report

**Pilot phase** with aprox. 50 trucks of first-movers companies

- Detect barriers, solutions and opportunities
- Generate success cases (scale up on subsector and program)
Coming soon…

**Fuel efficient driving guidelines for LDV**
- Published soon

**EU Cooperation: End-Use Energy Balance**
- Surveys and secondary data analysis

**Sectorial Pilot Programs**
- Work with sectors with great influence in transport
- Identification of specific problems and improvement opportunities
- Implementation of energy efficiency measures with high impact and scalability
- Gov fleet (EU), grain, port, urban distribution
Thank you

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