The role of eTIR in digital and green transition of transport

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## Saving CO₂ using TIR

**Results of an IRU study conducted at DB Schenker’s request:**

Made for a refrigerator truck and a regular truck

TIR saves between 143 Kg and 334 Kg of CO₂ per border crossing per truck, compared to regular transit

<table>
<thead>
<tr>
<th></th>
<th>Best case scenario</th>
<th>Worst case scenario</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Normal transit</td>
<td>TIR</td>
</tr>
<tr>
<td>Idling time (in hours)</td>
<td>18</td>
<td>4</td>
</tr>
<tr>
<td>CO₂ emissions at the highest estimate (kg/h)</td>
<td>23.8</td>
<td>23.8</td>
</tr>
<tr>
<td>Total CO₂ emissions at the highest estimate (kg)</td>
<td>428.4</td>
<td>95.2</td>
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<tr>
<td>CO₂ savings at the highest estimate (kg)</td>
<td>333.2</td>
<td></td>
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<tr>
<td>CO₂ emissions at the lowest estimate (kg/h)</td>
<td>10.2</td>
<td>10.2</td>
</tr>
<tr>
<td>Total CO₂ emissions at the lowest estimate (kg)</td>
<td>183.6</td>
<td>40.8</td>
</tr>
<tr>
<td>CO₂ savings at the lowest estimate (kg)</td>
<td>142.8</td>
<td></td>
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</tbody>
</table>

* studied at particular border crossing in MENA region
The IRU Green Compact is a large research project aiming at a pragmatic and realistic roadmap to decarbonise road freight and passenger industries by 2050.

To reach this objective, the Green Compact aims to:

• use a robust scientific approach

• track industry progress on its way to carbon reduction

• gather industry players to actively engage on carbon emissions reduction.
1. Multiple pathways to reach carbon neutrality
2. Pragmatic = mix of energy savings + mix of fuels

Working on energy savings
> 50% of carbon reduction potential

1st lever

Transition to cleaner fuels
Costs and available energy oriented

1. Business as usual
2. Efficiency wins
3. Green Compact plan

1st lever

2nd lever

- Biodiesel
- Electric
- Biogas
- Biogas
- H₂
- eFuel
What is the Green Compact methodology?
First lever: working on energy reduction

Efficient Vehicles
Efficient Logistics
Driver Training
Alternative Fuels

50% Energy reduction
Reduction of border-crossing time, thanks to optimised procedures

Further benefits from TIR digitalisation – eTIR

eTIR brings further the principle of facilitation
TIR DIGITALISATION

C2C via eTIR International system to make TIR digitalisation complete

Interconnection to eTIR international system
eTIR can be launch already today
eTIR brings further the principle of facilitation based on security, transparency and mutual recognition.

To achieve this vision, the participating countries along the Trans-Caspian transport corridor will accelerate existing efforts already made by them with support of UNECE development partners according to the following key milestones for:

- **2024**
  - Customs authorities, economic operators and national guarantee associations in all countries will start practical operation of the eTIR international system based on the TIR Convention,
For a world in motion