Comparison viewer. 46,000 in Mexico

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Road - Accidents Numbers in Mexico (2012) Overview

Population +/- 121 millions
Road Network 377,659 km
Vehicle fleet +/- 35 millions

At the Analyzed Road Network at 2012

Accidents: 24,216 /year

Deaths 4,548
Injuries 24,736
Death rate 3.76 /100,000 inhabitants
Cost 1.7% of GDP

## Star Rating in 45,789 km

### 2012 Results

<table>
<thead>
<tr>
<th>Studied Network</th>
<th>Length (km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toll</td>
<td>14,780.52</td>
</tr>
<tr>
<td>Non-toll</td>
<td>31,008.98</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>45,789.50</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Length (km)</th>
<th>%</th>
<th>Star rate (Automóviles)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,220.30</td>
<td>3</td>
<td>5 Stars</td>
</tr>
<tr>
<td>3,832.00</td>
<td>9</td>
<td>4 Stars</td>
</tr>
<tr>
<td>15,797.90</td>
<td>35</td>
<td>3 Stars</td>
</tr>
<tr>
<td>13,919.50</td>
<td>30</td>
<td>2 Stars</td>
</tr>
<tr>
<td>10,448.70</td>
<td>23</td>
<td>1 Star</td>
</tr>
<tr>
<td>571.10</td>
<td>1</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>45,789.50</strong></td>
<td><strong>100</strong></td>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

**Estimated Investment to implement measures: USD $ 4,165 millions**
Challenge 1: Budget Problem

Estimated investment for measures: US $4,165 millions (Time frame 2013-2032)

VS

The 2014 SCT budget for road building and maintenance was $3,892 million USD

The 2015 SCT budget for road building and maintenance is $5,390 million USD

=> Measures Feasibility & $ Optimization

2013 exchange rate: $1 USD = $13 MX
Grouping Measures: to Facilitate Implementation

A. Actions identified during IRAP evaluation that SCT usually undertakes within its maintenance programme.

B. Actions identified during iRAP evaluation and not included within the SCT’s maintenance programmes.

C. Specific actions, feasible, require the development of projects.

D. Most complex actions that require the elaboration of special projects, available land, and consensus of affected stakeholders.
Examples

A  B  C  D

Improve delineation  Roadside barriers (passenger side)  Signalise intersection (3-leg)  Sideslope improvement
Challenge 2: So many actors

Planning Process Complexity

1. 32 States and 2,456 municipalities
2. Several Stake Holders within the influence area for a specific road
3. Fast Response / Reaction to accidents due social pressure
4. Several actors building basic countermeasures (sometimes without proper Federal guidance and/or control)
5. Distortion in the Planning Process
Supporting Tool

**Needs**
- Update the Star Rating
- Identify the variations from 2012-2015
- Implement a tool which, in a simple way, identifies Star Rating variations
- Avoid / bypass bureaucratic process

=> Comparison Viewer

**Specs**
- Feded by the current Data Acquisition Works
- Produced besides the ordinary coding process
- Point out specific issues not registered in usual records
## Comparison Viewer. List of Roads

### Historical Irap Mexico 2012 vs 2015

<table>
<thead>
<tr>
<th>Carretera</th>
<th>Section</th>
<th>2012</th>
<th>2015</th>
<th>Detalles</th>
<th>Eliminar</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEX-095D Mexico - Cuernavaca</td>
<td>Mexico - Cuernavaca</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Mostrando registros del 1 al 1 de un total de 1 registros
Comparison Viewer. All Elements

MEX-095D Mexico - Cuernavaca

**Rating del año 2012**
- Car star rating: 3.53484
- Car star rating smoothed: 5.922507
- Car star rating star: ★★★

**Rating del año 2015**
- Car star rating: 17.297388
- Car star rating smoothed: 10.523866
- Car star rating star: ★★★

**Valores de Codificacion 2012**
- Numero de foto: 0000000001_S_jpeg
- Referencia hito: 
- Calzada: Calzada A de una calzada dividida
- Flujo de motocicletas: Ninguna
- Actividad peatonal cruzando la vía: Ninguna
- Actividad peatonal paralela a la vía derecha: 

**Valores de Codificacion 2015**
- Numero de foto: 0000000001_S_jpeg
- Referencia hito: km 19
- Calzada: Calzada A de una calzada dividida
- Flujo de bicicletas: Ninguna
- Actividad peatonal cruzando la vía: Ninguna
- Actividad peatonal paralela a la vía derecha: 

[Image of the webpage interface with detailed data and elements related to road safety assessment.]
Comparison Viewer. List of Elements to Compare
Comparison Viewer. Photos
Comparison Viewer. Maps
Comparison Viewer. Chart
Continue the research and development of planning tools that enhance the opportunities to implement measures in restricted budget scenarios.