Thème 3
3.7 Round Table - Responsible Development

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EP – Estradas de Portugal, S.A.

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EP – Estradas de Portugal, S.A.

Mission: Concept, design, construction, financing, maintenance, operation, rehabilitation and widening of the national roads network, under the Concession Contract (2007, Portuguese State/EP, SA)

What are the company functions and its universe of activities in the current political, social, economic and institutional environment, that have an important role on the contribution on Responsible Development

- Development
- Sustainability
- Responsibility

The trilogy of development in the process of Value Creation of the Company
**Characterization of Road Network**

### Extended Network
- **Main Routes (IP)**: 2,535 km
- **Complementary Routes (IC)**: 3,360 km
- **National Roads (EN)**: 4,905 km
- **Regional Roads (ER)**: 4,400 km
- **Decommissioned Roads (ED)**: 3,400 km
- **Total**: 18,600 km
- **Municipal Roads**: 90,000 to 100,000 km (estimated)

### Geometry
(Without concessions from the State, 2007)
- **Transverse Profile Type**
  - One way, one lane: 84%
  - Two way, two lane: 16%
- **Average width of lane**: 6.6 m

### Traffic/Speed
- **TMDA 2007**: 8,000 vehicles/day
- **% Trucks**: 8.8%
- **Speed average 2007**: 70 km/h
The Trilogy....

Development:
• Planning
• Organize
• Grow

Sustainability:
• The Process Efficiency
• Renewal Resources
• The Sufficiency of the Means

Responsibility:
• Responding to Problems
• Take on the Challenges
• Fix the Bugs
FEATURES ON HIGHWAYS SECTOR

- Weak economic regulation / competition
- Strong public sector investment
- Regulating na important part of the network trough a concession (PPP)
- Reduced autonomy own resources
- Markets heterogeneous, poorly structured and heavily liberalized
- Poor separation between the systems of traffic management and traffic
- Culture of the road as weel in public domain
- Indirect regulation trough the exercise os the powers of the “owner of works”
- Reduced impact of technological progress
O Contexto da EP e os seus Stakeholders

Accountants/Controllers

Markets / Companies

Government

Users

Municipalities

Employees

Media

Citizens / Taxpayers
Institutions:

- **Respect the law and legal rules**: enforcing the law and the legal obligations are first and most important instrument of responsibility – ethics has its first limit in the law;

- **Social Responsibility**: doing more, and fulfill legal and contractual obligations;

- **Duties of operation**: who is in charge of the management and operation of na infrastructure for Public Service and Services of General Interest, must create the conditions for the most appropriate and beneficial enjoyment of the material;

- **Excellence in Service**: the Public Service should be approached to values of quality and excellence, regardless of how private or public who provides and / or operates;

- **Budgetary Convergence**: viability and sustainability of financing and /or funding investments;

- **Value to the community**: universal service and individual contribution (user (not) paying);

- **Value of Transparency**: disclosure and accountability.
MARKETS:

- **Requirement in contract management:** Parts less demanding creates ambiguity and complicity, keeping players less efficient on the markets;

- **Rigor in the definition of technical standards:** the position of part manifests itself in regulation for “technical closeness”;

- **Self-regulation by operators to limit the abuse:** who sets rules and clauses of contracts, is able to structure and organize who can enter or remain in the “market”;

- **Risk v.s. return:** to give accurate expression to all values.
Externalities and Corporate Behavior:

- **Values for safety:** Costs of individual and collective protection of physical and mental integrity of members of the Community;

- **Intangible Values:** I&D, *Know-How* and Intellectual Property (copyright, industrial property);

- **Environmental Values:** Eco-efficiency and environmental commitment, against the predatory relationship of man over nature;

- **Values for Health:** Costs of individual and collective effects on the welfare and quality of life;

- **Values for Human Capital:** Training and personal development, qualifying human resources, talent and create value innovation;

- **Justice and Equity:** Sharing and distribution of costs and benefits, the search for social equilibrium, regional, political and generational. Who pays? Who benefits?
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ENVIRONMENT AND ECO-EFFICIENCY: The Green Commitment

1. Several Stages in The Process Of Work

a) Planning

b) Design

EX.: Technical Guide for The Preparation of studies under the EIA of Road Infrastructure
EP was a pioneer in the integration in its terms of reference for studies and projects on technical specifications relating on environmental aspects.
c) Construction- The CRIL project
A solution to preserve part of the historical water network from Lisbon (Aqueduto das Águas Livres” e “Francesas”), with special structures under the tunnel of Benfica. Costs: 3,5M€
ENVIRONMENTAL COMMITMENT

2. Minimize the Impacts

a) Biodiversity: location and size of the area administered within protected areas, or adjacent to, and new areas of high biodiversity value outside protected areas;

b) Analysis of significant impacts on the biodiversity of activities, products and services in protected areas;

c) New habitats protected or restored;

d) New initiatives to mitigate the environmental impacts of products or services and the extend of impact mitigation;

<table>
<thead>
<tr>
<th>Description costs</th>
<th>(euros)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acoustic Barriers</td>
<td>2,432,541</td>
</tr>
<tr>
<td>Integration Landscape</td>
<td>3,368,096</td>
</tr>
<tr>
<td>Archaeological Monitoring of the Work</td>
<td>910,022</td>
</tr>
<tr>
<td>Environmental Monitoring of the Work</td>
<td>1,095,500</td>
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</table>

<table>
<thead>
<tr>
<th>Descrição</th>
<th>Investimentos (euros)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barreiras Acústicas</td>
<td>0</td>
</tr>
<tr>
<td>Integração Paisagística</td>
<td>239,675</td>
</tr>
<tr>
<td>Acompanhamento Arqueológico da Obra</td>
<td>292,441</td>
</tr>
<tr>
<td>Acompanhamento ambiental da obra</td>
<td>510,516</td>
</tr>
</tbody>
</table>

ENVIRONMENTAL COMMITMENT

3. Resource Consumption

a) New materials;

b) Increased use of recycled materials, like this:

<table>
<thead>
<tr>
<th>Description</th>
<th>Total (ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil excavation and blasting</td>
<td>7,479,335</td>
</tr>
<tr>
<td>Blocks and rocks</td>
<td>257,587</td>
</tr>
<tr>
<td>Tout-venant and Gravel</td>
<td>43,757</td>
</tr>
<tr>
<td>Betuminous milled</td>
<td>34,974</td>
</tr>
<tr>
<td>Concrete</td>
<td>5,114</td>
</tr>
<tr>
<td>Guards Metal</td>
<td>226</td>
</tr>
</tbody>
</table>

c) Direct reduction of energy consumption broken by source of primary energy decreased fuel consumption - at around 33%, between 2007 and 2009 - the result of streamlining the fleet.
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ENVIRONMENTAL COMMITMENT

4. Emissions / Wastes

a) Direct and indirect emissions of greenhouse gases
b) New initiatives to reduce emissions of greenhouse gas emissions and reductions achieved;
c) Emissions of substances that destroy the ozone layer;
d) NOx, Sox and other significant air emissions;

(Sustainability Annual Report- EP /2009)
**ENVIRONMENTAL COMMITMENT**

**e) Total weight of waste by type and destination**

<table>
<thead>
<tr>
<th>Material</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presses</td>
<td>1720</td>
<td>1290</td>
<td>5800</td>
<td></td>
</tr>
<tr>
<td>Waste from miscellaneous sources</td>
<td>4222</td>
<td>4823</td>
<td>2637</td>
<td>7582</td>
</tr>
<tr>
<td>Radio</td>
<td>16340</td>
<td>16340</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Materials</td>
<td>2400</td>
<td>2400</td>
<td>2400</td>
<td>7200</td>
</tr>
<tr>
<td>Residues Urban and Equipment</td>
<td>6705</td>
<td>6705</td>
<td></td>
<td>6705</td>
</tr>
<tr>
<td>Material in the form of</td>
<td>38000</td>
<td>21200</td>
<td>27100</td>
<td>86300</td>
</tr>
<tr>
<td>Filling</td>
<td>21940</td>
<td>38000</td>
<td>32100</td>
<td>82040</td>
</tr>
<tr>
<td>Ponto</td>
<td>2700</td>
<td></td>
<td>2700</td>
<td></td>
</tr>
<tr>
<td>Alumina</td>
<td>349</td>
<td>1803</td>
<td>574</td>
<td>2326</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>38200</td>
<td>53650</td>
<td>86300</td>
<td></td>
</tr>
</tbody>
</table>

**f) Number/ volume of significant spills**

<table>
<thead>
<tr>
<th>Area</th>
<th>HL km of drains</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>Não considerado</td>
</tr>
<tr>
<td>2008</td>
<td>9</td>
</tr>
<tr>
<td>2009</td>
<td>9</td>
</tr>
</tbody>
</table>

These spills resulted in about 822 kg of contaminated soil, and they were managed as hazardous waste exclusively by licensees.
Social Responsibility

Safety and Wellness

1. Accidents on the Road Network

a) Reduction of Fatalities and Serious Injuries

Between 2000 and 2009, there was a reduction in the number of fatalities (VM) in **66.8%**, **exceeding the target set in national Road Safety Plan (PNPR)** for 2010. This indicator registered in 2009 a decrease of 11% compared to 2008, surpassing the 33% target set for 2010.
B) Reducing The Severity Indicator
The Concession Contract sets out the objective of the EP for 2010 a reduction of not less than the 35% of the indicator of Gravity (IG)

c) Black Point Reduction
Another target is to reduce black spots, not less than 40% of the average reference years. Means that in 2010, the number of Black Points can not exceed 39.
2. Preventions Campaigns Security

EX.: Campaign “Torne-se Visível”/ Become Visible
EP conducts each year, awareness campaigns and safety with Become Visible, whose main recipients pilgrims moving to the religious ceremonies on Fátima, making their way on foot through the road network, sharing this space with motorists who passes on the highway.

EX.: Campaign “SECUR’ETE 2009”
EP supported the international road campaign called “SECUR’ETE 2009”, intended for travelers our emigrants, held by the NGO, CAP MAGELLAN (summer)
3. Coordination of Work Safe

Works in the 2009: 215. The Security Coordination aims to ensure continuous improvement of working conditions in the various activities under the responsibility of the EP- Estradas de Portugal, SA, ensuring compliance with the strict legislations.
4. Services to Users

a) Services Centres for Users (CAU)

Were created 17 CAU in the country, with the following features:
- Monitoring processes;
- Interaction closer to the Community;
- Personalized communication channel;
- Centralized management of processes.

b) Mobile Units of Inspection & Assistance (UMIA)

41 UMIA created and defined with special equipment, systems and vehicles and use established procedures to monitor and support, to control continuous and systematic road network, collecting information and the conditions on roads;

c) Brigades for Intervention.

35 Brigades prepared for emergency situations and support the traffic and road conditions, 24 hours a day. In this Brigades, we highlight the Center for Snow Clearing in Serra da Estrela.
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d) Traffic Control Center
- Management of variable message sign roads;
- Installation of traffic sensors on the roads in order to manage information in real time;
- Video surveillance 24 hours a day;
- Traffic images.

e) Portal Traffic, “Estradas.pt”:
www.estradas.pt

f) Traffic Information Service
EP has a blue line - 808 210 000, which provides traffic information and suggests alternative roads as well as receive complaints and suggestions from users;

g) Estrada Livre
The platform for Suggestions and Complaints has been constantly improved. This platform enable automatic processing and automated all complaints and suggestions received by the EP.
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h) Estate ans Museum Documentary
EP features museum exhibits and documentary of high cultural and scientific interest, unique in the country, consisting of models os works of art, cars used in the construction and upgrading of roads, laboratory equipment, tools, among others, from his activity since 1927.

i) Issues Bibliography
EP promotes and supports scientific and technical disclosure, with editing, support and dissemination of dozens of publications each year.
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j) SOCIAL - Support for workers and the local community

- “O Ninho”/ The Nest“ - Provision of nursery and kindergarten employees from headquarters.

- Activities of social nature:
  - Premium health insurance group (the EP a share of 50% of the insurance premium of employees);
  - General medical care, psychology and nutrition;
  - Subsidies of birth, kindergarten, nursery school, higher education and graduation bonuses;
  - Program of leisure activities, for children of employees during the summer vacation;
  - Available holiday camps at low cost;
  - Agreements with various companies that enable members to acquire goods and services at prices below market rates (fuel, telecommunications, pharmaceuticals, hospitality and travel);
  - Sports and Recreational Activities, such as Yoga, Pilates, Posture and Gymnastics, Water Aerobics, Swimming, Fishing, Tours cycle tours, hiking and river, and TT Motard rides, food, music, etc..
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- Shares of collecting blood - Giving Our Blood

EP promotes often campaigns for blood collection, which took place in all departments of the company. These campaigns have been a growing membership by employees, having been an annual increase of 15%.

- Anti-smoking campaign and a cardiovascular screening their employees

- Contingency plan and health (epidemic of Influenza A)

- "Gil Foundation“- EP collaborates with this institution that supports children in need, promoting the collection of ink and toner cartridges for recycling.

- Donations to Institutions- Provision of computer equipment and furniture used the institutions of a humanitarian nature.
Thank you for your attention

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