PLANNING TOOLS IN BRAZILIAN PETROLEUM EXPLORATION

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FIGURE 1 – Location of Caraguatatuba – SP
(Asmus et al., 2012)
FIGURE 2 – Urban occupation between Natural Park and Atlantic Ocean: 80% of total area were protected by law.
FIGURE 3 – Vacant sazonal flood area with current rural activities besides Natural Park and urban occupation
Methology

FIGURE 4 – Timing of Planning Tools

Petroleum
EEZ 2004
SEA 2010
EIS 2010
LDP 2011
FIGURE 4 – Timing of Planning Tools

Petroleum 2006

EEZ 2004

SEA 2010

EIS 2010

LDP 2011
FIGURE 5 – Environmental Assessment tools analysed: SEA and EIS

- SEA of 90 distinct projects
- 11 projects at Caraguatatuba
- 1 EIS
Result

FIGURE 6 – Target area of conflict of interest between the Ecologic-Economic Zoning and Local Development Plan (adapted from Caraguatatuba, 2011)
FIGURE 7 – Projects in sazonal flood area
**Discussion**

**TABLE 1: Lack of linkages among the planning tools**

<table>
<thead>
<tr>
<th>Year</th>
<th>Tool</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>EEZ</td>
<td>The area is protected by law as rural use and is useful as buffer zone for the SPiSM to avoid uncontrolled urban sprawl. Current trends of uncontrolled occupation are frequently surrounding the SPiSM with high density occurrence in Campuran.</td>
</tr>
<tr>
<td>2010</td>
<td>SEA</td>
<td>Changes in the law regarding the land use of the area are proposed by SEA with mitigation measures to avoid the uncontrolled urban sprawl. The responsibility of mitigation measures should be shared among the owners of 90 distinct projects and the public government as well.</td>
</tr>
<tr>
<td>2010</td>
<td>EIS</td>
<td>The petroleum exploration will be started but only positive socioeconomic impacts are identified. So, the EIS does not propose any mitigation measures regarding the land use issues identified by SEA.</td>
</tr>
<tr>
<td>2011</td>
<td>LDP</td>
<td>The environmental issues presented in EEZ for the area are not supported in LDP. Indeed, the petroleum sector interests are considering during the LDP elaboration focusing on the industries and freight services in the current rural zones near to the petroleum port.</td>
</tr>
</tbody>
</table>
Conclusion

1. The planning tools implemented after the discovery of petroleum reserves have focused on the feasibility of petroleum exploration and they suggest changes in the Ecological Zonning.

2. Mitigation measures are indentified on SEA but the lack of linkages between SEA and EIS delay them being implemented.
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Thank you!

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