



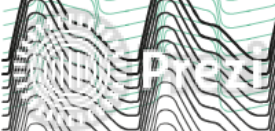
PLANNING TOOLS IN BRAZILIAN PETROLEUM EXPLORATION

*Francisco Fabbro Neto
Marcelo Pereira de Souza*



Conclusion

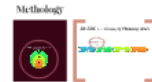
- 1. The planning tools implemented after the discovery of petroleum reserves have focused on the feasibility of petroleum exploration and they caused changes in the geological planning.
- 2. Mitigation measures are implemented on SEA but the lack of linkage between SEA and EIS delay them being implemented.





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Case

FIGURE 1 – Location of Caraguatatuba – SP
(Asmus et al., 2012)

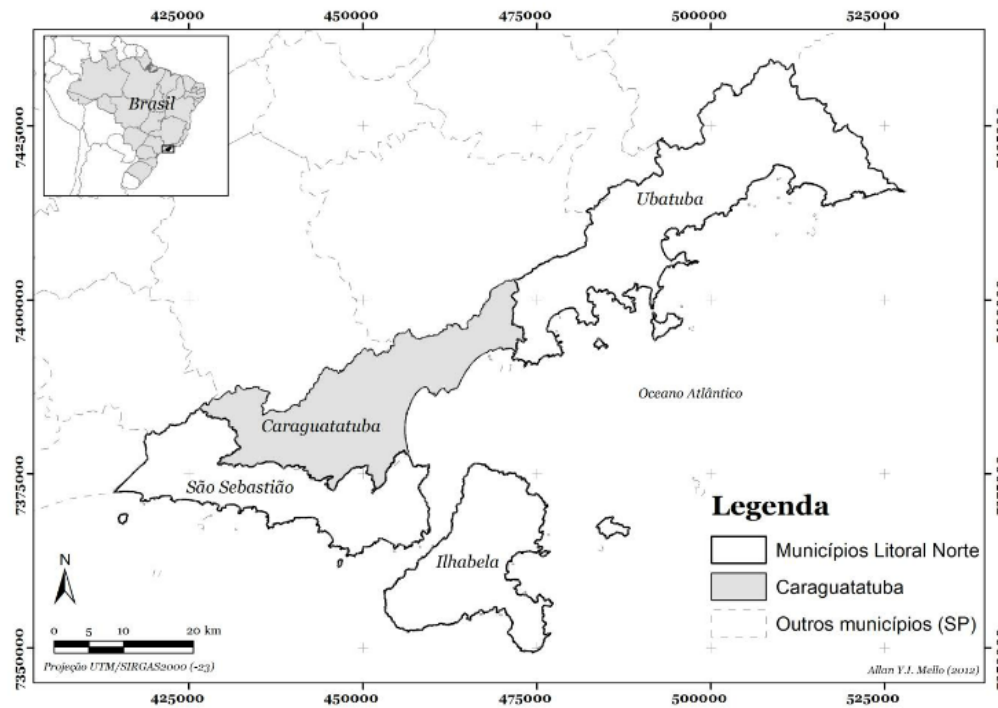


FIGURE 2 – Urban occupation between Natural Atlantic Ocean: 80% of total area were protected



FIGURE 3 – Vicinity coastal flood area with current rural activities besides Natural Park and urban occupation



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

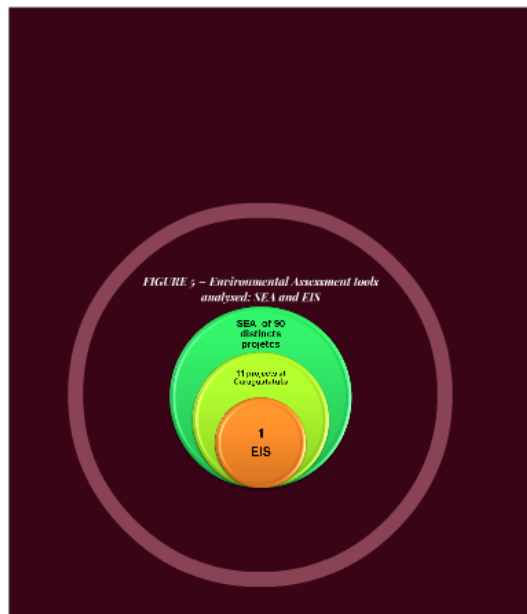


FIGURE 4 – Timing of Planning Tools



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***FIGURE 5 – Environmental Assessment tools
analysed: SEA and EIS***

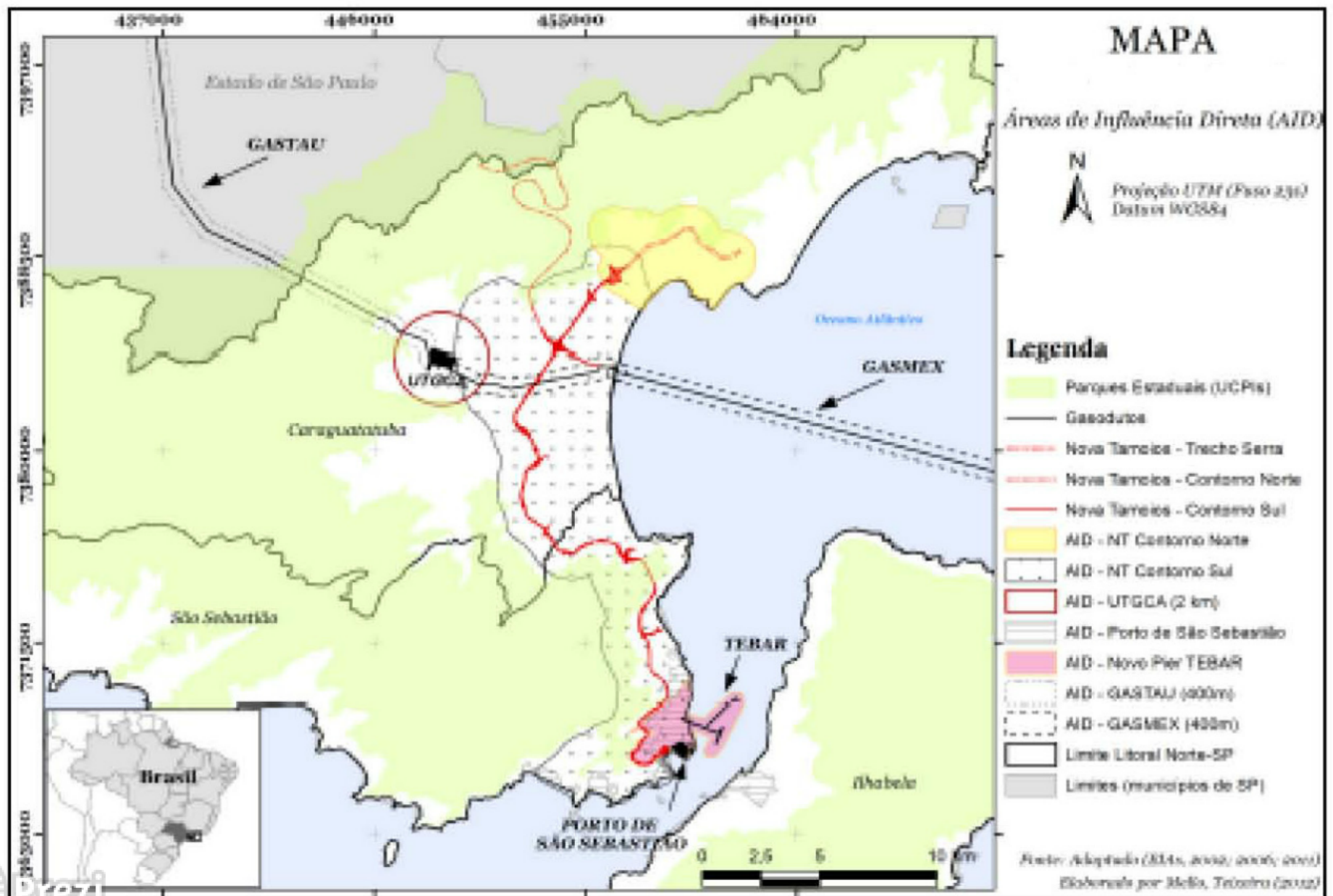


Result

FIGURE 6 – Target area of conflict of interest between the Ecologic-Economic Zoning and Local Development Plan (adaptated of Caraguatatuba, 2011)



FIGURE 7 – Projects in sazonal flood area



Discussion

TABLE 1: Lack of linkages among the planning tools

2004	EEZ	The area is protected by law as rural uses and is useful as buffer zone for the SPSM to avoid uncontrolled urban sprawl. Current trends of uncontrolled occupation are frequently surrounding the SPSM, with high density occurrence in Caraguatatuba.
2010	SEA	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.
2010	EIS	The petroleum exploration will be started but only positives socioeconomic impacts are identified. So, the EIS does not propose any mitigation measures regarding the land use issues identified by SEA.
2011	LDP	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.

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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