

Title:

VISUAL IMPACT ANALYSIS OF LINEAL STRUCTURES. APPLICATION TO HIGH VELOCITY RAILWAY, NATIONAL ROAD AND HIGH TENSION LINE. (L'ARBOÇ – TARRAGONA).

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Abstract:

The aim of this document is to analyze the visual impact of several linear infrastructures as a high velocity railway, road and a electrical line.

This work has been developed in L'Arboç, Tarragona, which has the typical characteristics of a grape-producing country. This site has experimented in a short period of time a very important damage owing to the dynamics induced by the vicinity of Barcelona and to its location in an area with important arterial roads.

To arrange the objectives of the work is necessary to define the landscape, that is to specify those features that make of this site a different place, analyzing the scenic variables as geology, tectonics, relief, climate, hydrogeology and vegetation. Moreover, the delimitation of the landscapes that present a special interest allows defining the landscape units of the site and those values of landscape quality to determine the interactions between landscape and infrastructures.

To quantify the visual impact VIMPACT program has been used. This program works with several variables as the visual basin, global visibility, vulnerability, chromatic contrast and visual fragility. The methodology of the program provides a quantitative assessment of the impact for each point designated previously (X, Y, Z). The analysis of the visual impact has been realized considering a multiobject structures model.