


SILENS noise level estimation software

Aim 6: Ensure that our businesses respect the environment

> Action 6.8: Implement an action plan to minimize the disturbance for local residents

 **Entity:** Bouygues Bâtiment Île-de-France

 **Operational Units:** All

Overview of the initiative

> **Objective:** To prevent and reduce noise pollution.

> **Description:**

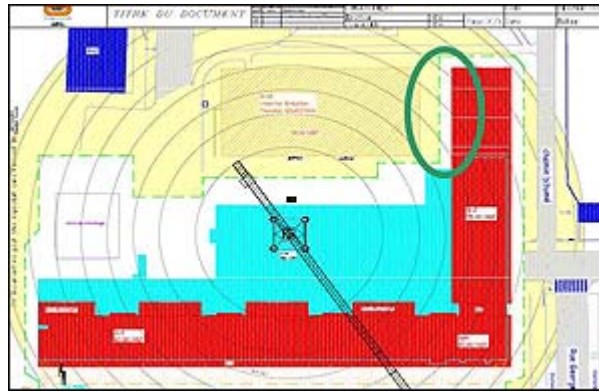


Silens, a tool that enables the noise level generated by a construction site to be estimated during the commercial phase, is the fruit of work carried out in co-operation with the Public Housing, Private Renovation, Residential Housing and Private Construction teams within Bouygues Bâtiment Ile-de-France. It enables the noise level generated by the site to be estimated during the commercial phase, in four stages:

- Characterisation of noise sources.
- Calculation of the noise level inside buildings from the source concerned and inclusion of the structure in the terms of calculation.
- Calculation of equivalent sources on the outside.
- Effect of these equivalent sources on the immediate neighbourhood of the site in terms of locations, links with BYOASIS being possible for external propagation.

The results obtained for each noise source modelled are collected in a table. The hours of use for each of these sources can then be varied to obtain a chart of the anticipated daily exposure.

Silens was designed as a quick and easy-to-use tool (between 15 and 30 minutes depending on case knowledge).



🍋 **Potential partner(s):** Not given

🍋 **Launch date:** Not given

🍋 **Cost of the initiative:** Not given

🍋 **Indicator(s):** Not given
