

**CODE 159****IMPROVING ENERGY EFFICIENCY IN PUBLIC BUILDINGS  
THROUGH SOCIAL INMOTICS**

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**ABSTRACT**

Energy efficiency is a complicated challenge in existing public buildings due to their internal complexity and age. Added difficulties come from the required user's disposition to collaborate and the intervention of public administrations. Real-time monitoring of ambient variables and energy consumption data through an open information system can facilitate the management of these problems and provide new sources of solutions. The SmartPoliTech project provides tested experiences and data in two complex centers belonging to the University of Extremadura and the Government of Extremadura. Some the benefits expected from the project are the decrease in heating energy consumption, reduction of clean water use and improved fresh air renewal decreasing CO<sub>2</sub> levels (Air Quality Indoor). The final success of the project is directly related to the involvement of final users by providing easy to use information and persuasive indications. Also, a crucial aspect will be to achieve a proactive response from the building's users so they become ready to detect problems and propose innovative solutions.