



Tool for urban planning

First simulation tool for the energetical optimization of an urban project

SaneCity is the result of a collaborative project : SERVEAU labelled by the ADVANCITY competitiveness cluster. It was partly funded under FUI (the Unified Inter-ministry Fund)

A new CAD software for a better consideration of energetical aspects in urban planning

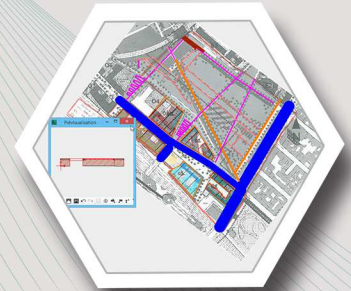
Sustainability adapted to construction and urbanism

> A design tool adapted to the early stages of an urban project

Estimation of energy needs at mass plan, based on the uses of the buildings, their target energy performances and the location of the project

> Get an idea of the project energy consumption

Estimation of energy needs for heating, cooling, hot water production, ventilation and lighting of the buildings and public spaces
Estimation of the energy source impact on the energy consumptions



> A special attention on the embodied energy of the whole project

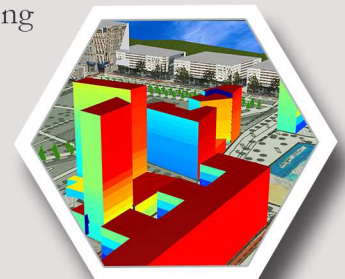
Take advantage of a database conceived thanks to the experience of specialised urban planners. You can access it, modify it and... in the future, it will be updated according to the evolution of labels and rules.

> On our way to a bioclimatic urban planning

Modelling of the buildings' thermal behavior
Estimation of solar and energy supplies
Estimation of the daylight autonomy inside the buildings

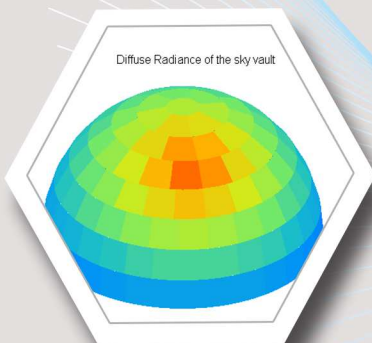
> A 3D visualization of the project

Digital terrain model's integration
Simulation of irradiances on building envelope and public spaces
3D building modelling



> The energy efficiency optimisation

Compare urban development scenarios with visual files: radiance maps and graphs
An easy access to conception variables :
- type of materials and energy source
- heigh and function of the premises
- glazing ditribution



> Models issued from current research

Optimised partition of the sky vault
Meteorological datas treatment
Simulaton of the building thermal behavior according to its wall composition: conductivity, density...

> Enjoy a friendly CAD tool

Inspired by the biggest companies providing CAD , Import/ Export DWG/DXF
3D visualisation module, Referencement and management for every picture's format