

The CFD software for wind simulation
in built environment

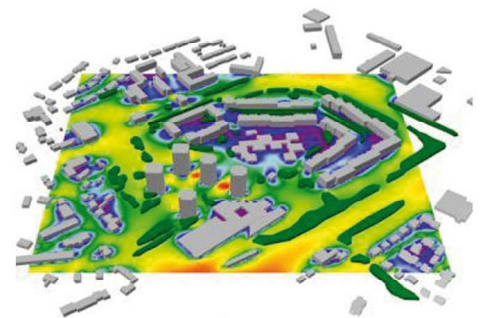
UrbaWind Software

► CFD efficiency available to everyone

CFD computation is based on the resolution of the 3D RANS equations of fluid mechanics. Thanks to this technology, we've developed a high-performance wind modeling tool.

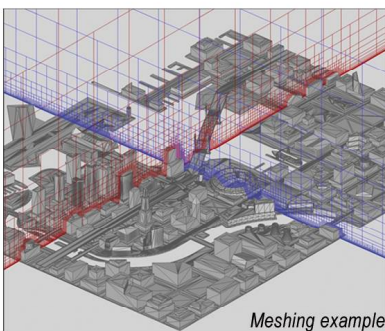
UrbaWind is a user-friendly and automatic software. It gives access to a digital technology until now restricted to modeling experts for an accurate and quick assessment of all wind characteristics in urban and built environments.

Wind maps and/or results can be directly and easily used in end-user reports.

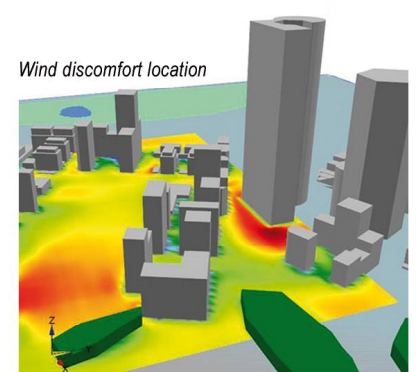
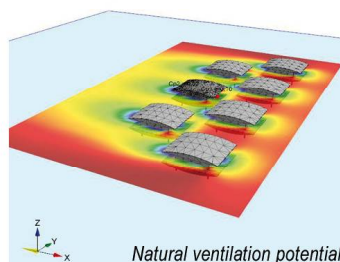
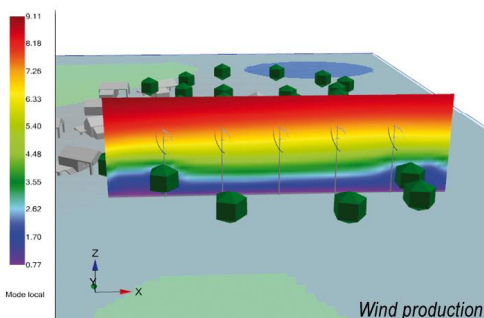


Visualize wind effects to give added-value to your projects.

► A tailor-made tool for urban environment



- Consideration of buildings and their environmental effects (topography, vegetation) on wind flow
- Computation for all types of architectures, with automatic meshing
- Regional wind statistics included
- Computation scale and accuracy in accordance with the project



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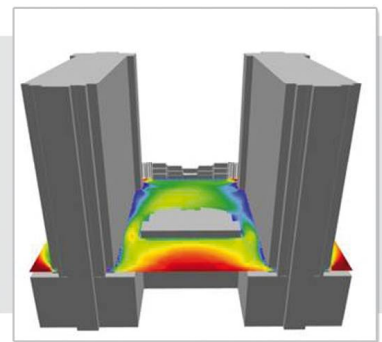
UrbaWind
Software

Choose a high-performance tool for your bioclimatic and environmental projects.

▶ Outdoor comfort

Assessment of air flow comfort in outdoor spaces: wind mapping, computation of frequency of wind speed exceeding the threshold.
Validate your development choices and wind safety solutions.

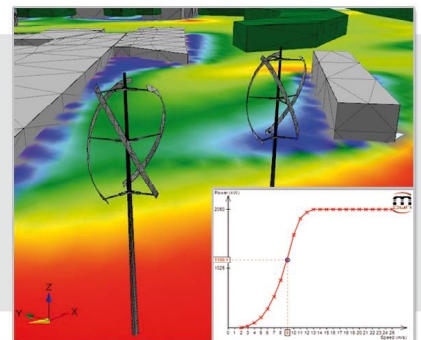
Well-being and users safety
Public spaces pleasant and attractive to live in



▶ Wind resource

Potential wind resource visualization, turbines location optimization and yearly energy production computation.
Ensure the profitability of your projects.

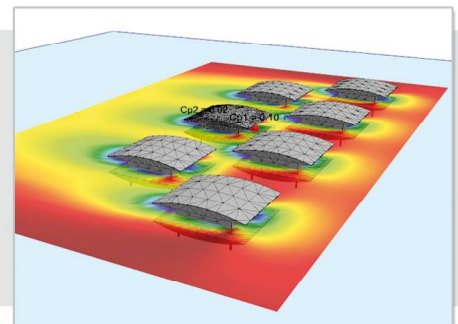
Use of a clean and renewable energy
Environmental friendliness



▶ Natural ventilation

Computation of inflows and outflows in buildings, speed of flow and air change rates to improve comfort and air quality safety.
Optimize buildings openings. Make your thermal balance studies reliable.

Reduction of energy costs
Air quality in buildings



Compatible with widely-used CAD software.
Standard outputs formats : Excel files, 3D mappings