



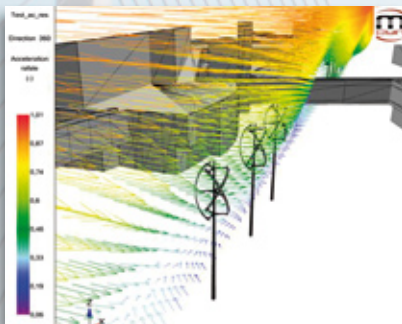
meteodyn
meteorology & dynamics

BECAUSE WIND MATTERS

METEODYN,
a custom-crafted offer

EXPERTISE, CONSULTING & SOFTWARE

METEODYN's multidisciplinary team of experts in building climatology has customized solutions for all your construction and city planning projects



**A pioneering
software suite**



**Studies and expert
analysis on specific
projects**



**Individual or team
training sessions**



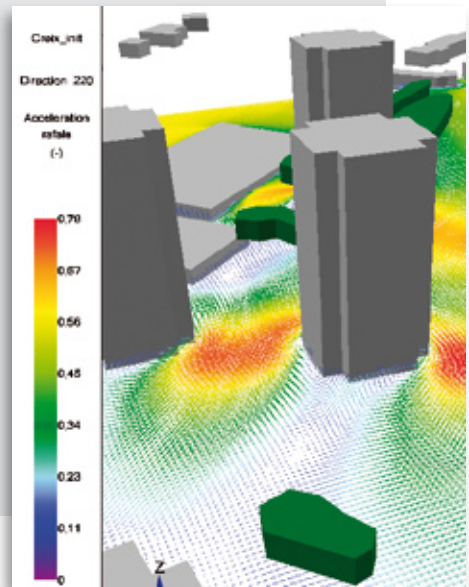
Wind flow simulation

An extra asset for your construction or city planning project

Why should you integrate wind effects ?

Predicting the very complicated ways a project will disrupt the local climate is essential to study the structural resistance of constructions, to enforce environmental regulations and for city planning.

Numerical wind simulations reveal these disruptions and their related risks. There are many benefits to this approach : create more welcoming surroundings, design durable and energy efficient buildings and increase security during construction.



How to take advantage of numerical technology ?

As international experts and N°1 company in France dedicated to numerical simulations of wind, METEODYN offers a remarkably efficient and complete set of software and services for the construction industry: architects, city planners, builders, engineering and design institutes, local authorities and equipment manufacturers...

The software suite dedicated to urban planning and construction – UrbaWind, TopoWind and TransAT – makes CFD numerical simulations accessible to all and not just to expert modelers and national projects. Available under yearly or perpetual licenses, thanks to their user-friendly interfaces, UrbaWind and TopoWind automatically produce reliable results based on your 3D models.



SECURITY AND STRUCTURAL DESIGN OF CONSTRUCTIONS

■ Objectives :

- Guarantee the safety of construction sites (*passers-by, workers and cranes*).
- Determine the dimensions of a structure and confirm architectural and technical choices (shape, size and material).
- Optimize urban transport route definitions.

■ How we do it :

- We estimate on-site extreme winds (*50 years wind*).
- We calculate the effects of wind and peak dynamic pressures.
- We integrate the effects of surrounding buildings, topography and roughness.
- We evaluate site effects on cranes.



CLIMATIC COMFORT

■ Objectives :

- Contribute to creating welcoming living areas.
- Highlight architectural projects (*design and communication*).
- Review and confirm city planning decisions.

■ How we do it :

- We use your standards of discomfort frequencies.
- We integrate local climatic conditions.
- We provide automatic 3D viewing.
- We propose protection strategies.





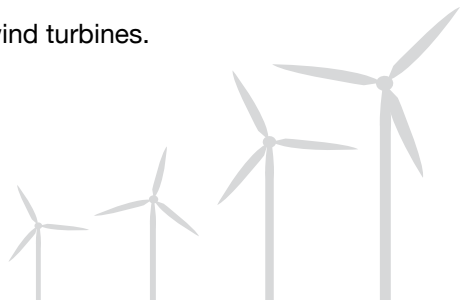
WIND POWER

■ Objectives :

- Encourage renewable energy.
- Participate in positive energy buildings.

■ How we do it :

- We calculate wind power resources.
- We optimize the positioning of urban wind turbines.
- We predict annual production.



NATURAL VENTILATION

■ Objectives :

- Encourage energy saving by reducing HVAC consumptions.
- Insure thermal comfort for all occupants.
- Analyze air quality and conform to new renewal standards.

■ How we do it :

- We calculate flows and renewal rates.
- We model all types of air vents (*section, load factor...*).
- We run our analysis for different timeframes (*years, seasons, time of day...*).
- We simulate air flows inside buildings.



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