

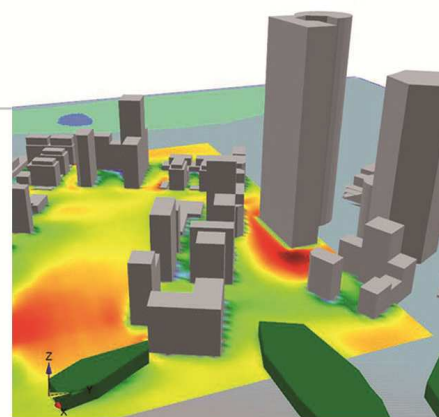
Choose the experts in  
urban climatology who bring  
high environmental quality to your projects

# Urban Development Consulting Services

## ► Meteodyn, your partner in climatology

Our experts in wind engineering and climatology offer their skills in wind modeling and statistical analysis including local climatology for your urban development projects. Meteodyn partners with architects, urban planners, engineering / design firms and city authorities to create the optimal structural plan.

*Create safe, energy efficient and comfortable outdoor spaces which comply with building standards and codes.*



## ► For bioclimatic and sustainable development

### Climatic comfort in outdoor spaces

Analysis of local aerodynamic effects

Wind mapping

Solar mapping

Diagnosis of unsatisfactory areas and cost-effective solutions (downing edge, shelter belt, vegetation...)



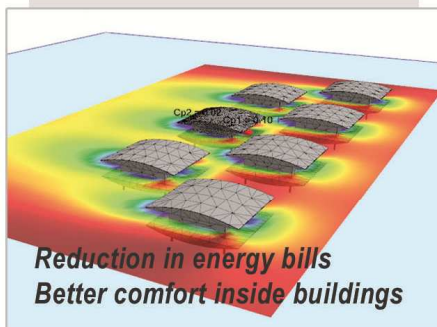
### Energy efficiency in buildings

Mixed or natural ventilation: wind potential, wind design, location of openings and extractions

Passive solar design: optimization of heating and cooling resulting from solar energy

Rain water measurement: effects on a structure

Decontamination of air flow: extraction of polluted air, recycling risks and advantages



### Solar and wind resource

Production assessment and mapping of potential resources

Calculation of wind impact on photovoltaic panels

Project feasibility studies

Design, dimension and equipment location



Choose our wind engineering experts  
to ensure your projects are safe

# Construction Consulting Services

## ► Meteodyn, your partner in wind safety

As an expert in numerical wind simulation, Meteodyn analyzes wind-induced risks and provides consulting services, supporting design and construction plans. Partnering with builders, audit offices, construction engineers, design consultants and projects owners, Meteodyn analyzes wind stress on structures and construction equipment.

***Validate your technical plans for construction safety and standards.***



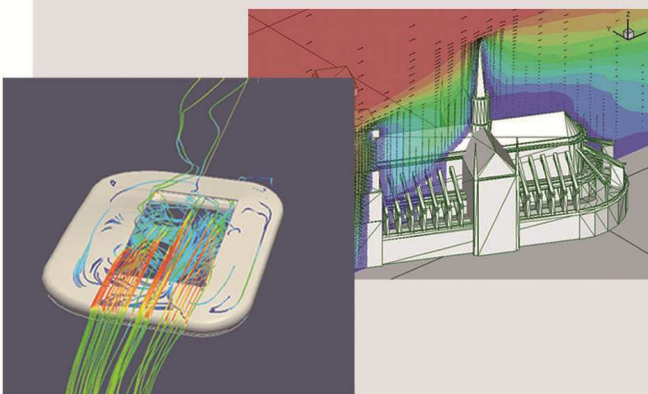
## ► For construction considering climatic danger

### Construction wind effects and design

Analysis of wind loads and stress on structures including extreme wind

Site study according to current design standards: assessment of roughness and orography coefficients

Calculation of mean and real-time local pressure fields in non-stationary flow



### Crane safety on construction site

Site study in compliance with safety standards

Analysis of auto-rotation and wind effects on out-of-service tower cranes

Development of wind alert system

