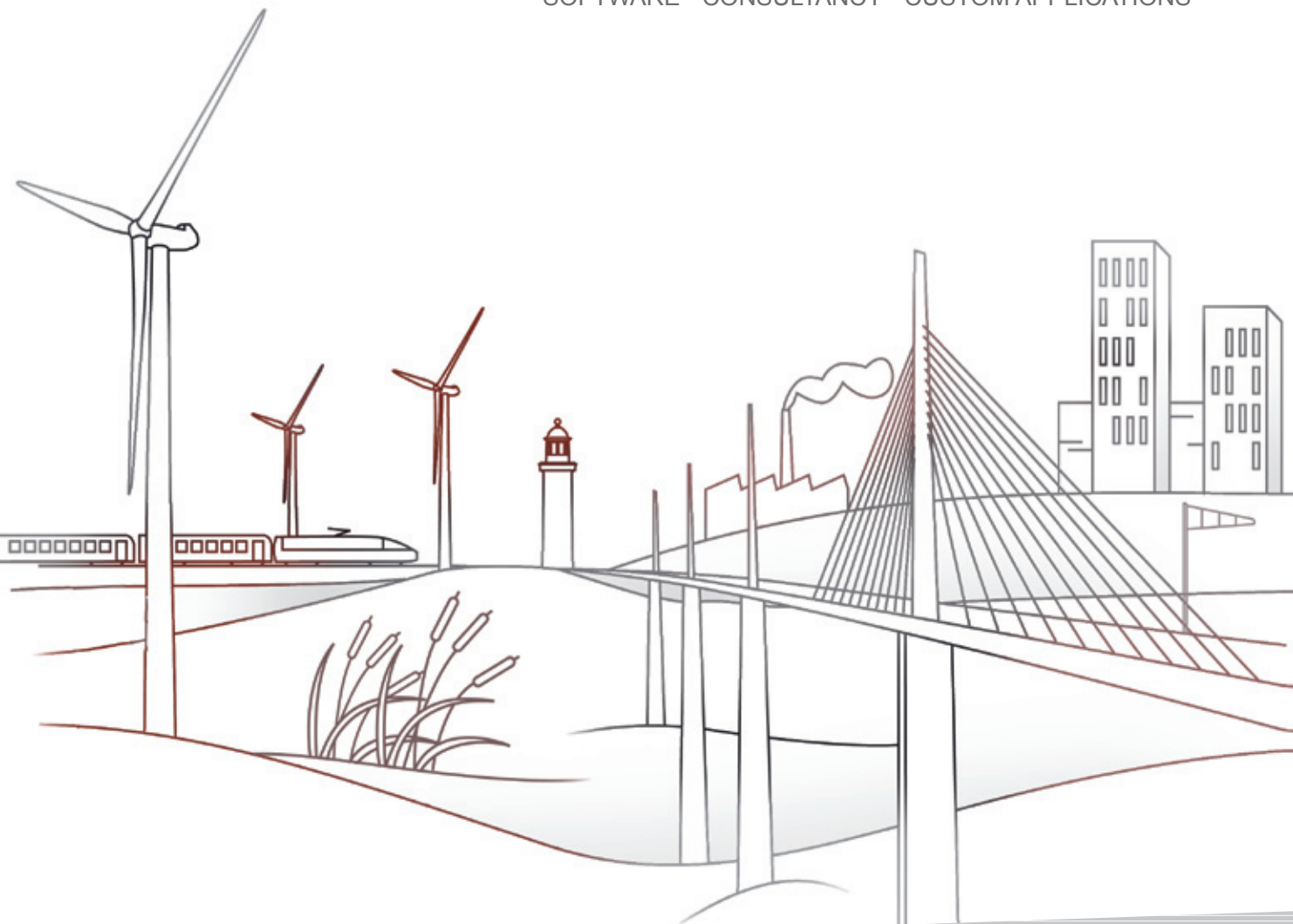


WIND ENGINEERING CLIMATOLOGY



SOFTWARE - CONSULTANCY - CUSTOM APPLICATIONS



OUR KNOW-HOW

Meteodyn brings together a team of **international experts** in engineering and climatology with **engineers specialized** in Fluid Mechanics, Information Technology, Meteorology and Statistics. Our 3D simulations take into account effects of all kinds of environment on the wind at every time and spatial scale.

Software

- Fully automatic 3D wind modelling (CFD method)
- Wind computations in the most complex environments (forested areas, mountains, cities)
- Work-oriented, user-friendly professional tools
- Results validated by numerous papers and presentations
- International technical support and continuous updates
- Dedicated or group training sessions

Consultancy

- Standard or tailor-made studies for all kinds of sites (real time, statistics, extreme values, forecasting)
- Wind safety and design for transports, facilities and constructions
- Energy production assessment for wind farms and urban wind turbines
- Aeraulic simulation studies dedicated to urban planning
- Climatology studies (temperature, hygrometry, wind, sunshine)

Research and custom IT applications

- Supervisor of French and European R&D programs
- Software applications on request (Wind alert system in ports, production forecasting...)

Some references

WIND ENERGY

AWS Truewind
Acciona Energia
Beijing Guodian Design Institute
EDF EN
Enercon
Enel Green Power
Gamesa
Garrad Hassan
Goldwind Corporation
Iberdrola
Sgurr Energy
Suez Srena

CONSTRUCTION AND URBAN PLANNING

ADEME
CSTB
DEKRA
JMI Egis
Massachusetts Institute
of Technology
RTE
SDEI Ouest
Sogea
Université Libre de Bruxelles
Ville de Saint Brieuc

TRANSPORTATION SAFETY

ALSTOM Transport
INDRA
INEXIA
Jia Xun
Port de Nantes – Saint Nazaire
RFF
Schneider Electric
SENER
SNCF
Vinci Construction
Zhong Tie

OUR ACTIVITY DOMAINS



Wind energy

Wind resource assessment, micrositing projects, production forecasting systems. Optimize your return on investment.

Software:

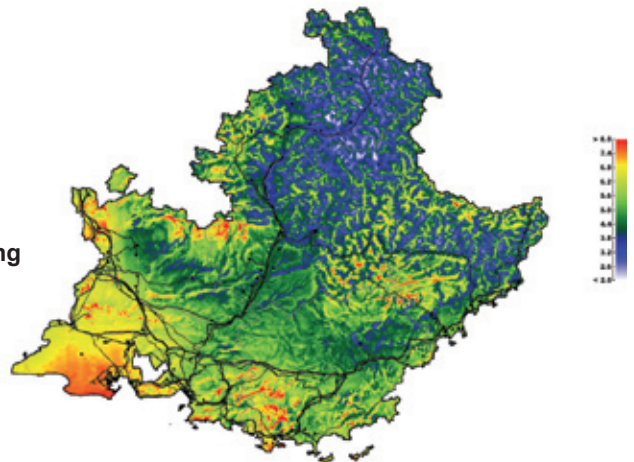
- ▶ **Meteodyn WT**: wind farm annual estimated production
- ▶ **Meteodyn Forecast**: production forecasting (0 h to 72 h)
- ▶ **UrbaWind**: small wind power production assessment



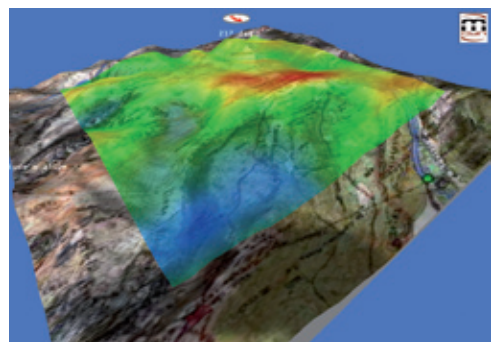
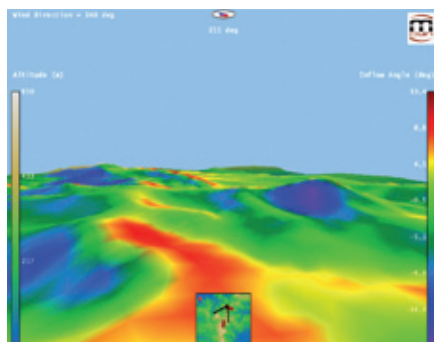
Meteodyn WT interface.

Consultancy:

- Wind resource assessment in the most complex terrains
- Wind power production forecasting
- National or regional high resolution wind atlas
- MCP based data analysis
- On shore and offshore site assessment
- Mesoscale coupling
- Community wind farm projects



Wind Atlas (PACA Region) – Wind mean speed.

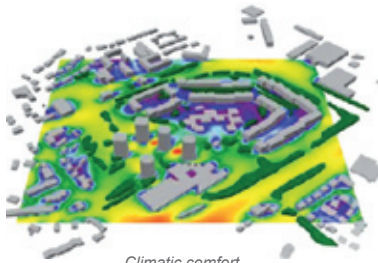


Wind visualization in complex terrain.



Construction and urban planning

Wind safety analysis, building design for wind. Climatic design for high performance buildings and comfortable outdoor spaces.



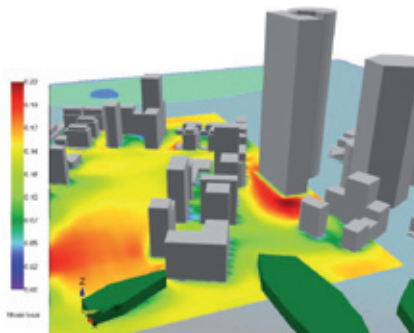
Climatic comfort.

Software:

- ▶ **UrbaWind**: wind simulation in the built environment
- ▶ **TopoWind**: transfer of meteorological data

Consultancy:

- Outdoor climatic comfort
- Natural ventilation
- Wind and solar energy resource assessment
- Extreme wind analysis
- Wind pressure coefficients on structures
- Eurocode computations
- Wind safety assessment of cranes on construction site



Wind flow around buildings.

Transportation safety

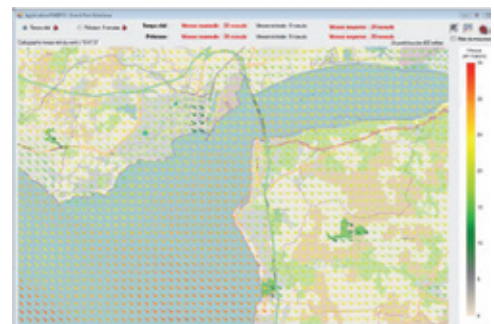
Safety system design on railway lines, roads, bridges, ports and coastal areas.

Software:

- ▶ **TopoWind**: wind simulation in complex terrain
- ▶ **RT Windmap**: real time wind map monitoring

Consultancy:

- Wind alert systems (real-time and forecast)
- Cross-wind risk analysis
- Siting of meteorological measurements stations
- Strategies and safety equipments
- Wind mapping



Real time wind mapping.

OUR OFFICES AND COMMERCIAL AGENTS

OFFICES

USA - SUBSIDIARY

Meteodyn America

123 South Broad Street – Suite 1200
PA 19109 - Philadelphia
Ph: +1 267 475 4278
guillaume.dupont@meteodyn.com

FRANCE - HEADQUARTERS

Meteodyn

14, bd Winston Churchill
44100 Nantes
Ph: +33 (0) 240 71 05 05
info@meteodyn.com

CHINA - SUBSIDIARY

Meteodyn China

Dong Zhi Men Wai Da Jie n° D-28E
100027 Beijing
Ph: +86 (10) 64 15 57 28
fu.bin@meteodyn.com

OCEANIA - OFFICE

Noumea
Ph: +687 76 07 52
stephane.sanquer@meteodyn.com

COMMERCIAL AGENTS

SPAIN / PORTUGAL

Geonica

Ph: +34 (0) 91 450 51 18
jesuslopez@geonica.com

Barlovento Renovables

Ph: +34 941 287 347
brm@barlovento-recursos.com

GERMANY / SWITZERLAND

Ascomp

Ph: +41 (0) 446 327 073
lakehal@ascomp.ch

LATIN AMERICA

Barlovento Renovables

Ph: +51 1 4470166
brl@barlovento-recursos.com

EAPC (Argentina-Uruguay)

Ph: +54 11 4772 0163
m.thamhain@eapcwindenergy.com

NORTH AMERICA

EAPC Wind Energy

Ph: +1 701 775 3000
JHaley@eapc.net

SOUTH KOREA

Taesung ANST Inc

Ph: +82 2 2028 0304
whkim@anst.co.kr

