FLUIDYN-PANWIND

Airflow and site influence

Wind flow in urban areas

User friendly integrated tool for consultancy firms and industries

- 3D modelling of wind flows and turbulence around buildings in a complex urban environment.
- Airflow in natural terrain including environment, cliffs, and lockers.
- Study of site influence in risk analysis studies of future crane projects and interventions under palisades and scaffolds.
- Wind energy potential studies in urban and industrial zones and optimization of a park.

3D simulations of atmospheric flows

FLUIDYN-**PANWIND** is a module of **FLUIDYN**-**PANACHE** software family and includes its main features, thus enabling the quick and accurate modelling of wind flow around buildings, or urban and industrial areas, by taking into account:

- All kinds of obstacles and architectures,
- The surrounding topography,
- the influence of terrain and vegetation,
- The local weather conditions.

FLUIDYN-**PANWIND** was one of the tools used during the establishment of the best *practices guide of* INERIS. The software has been validated by several specific cases: EMU project, AIJ …

The user may define the site interactively, by positioning the buildings and the processes, by describing the terrain nature, and by setting up the surrounding topography and the nets / palisades / scaffoldings if necessary.

The advanced post-processing tool available in the software enables the accurate 3D representation of velocity vectors, contours, and sections to study the influence of wind flow on the site / specific establishments.
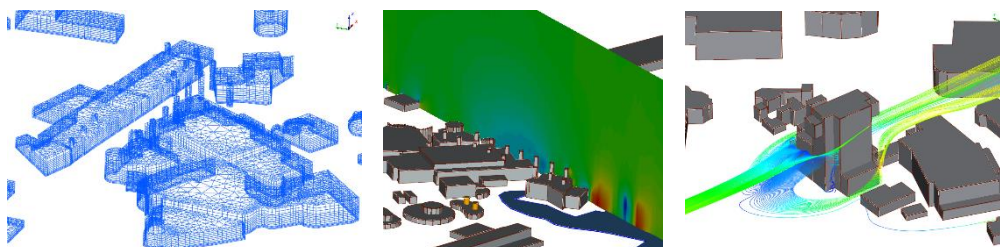
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