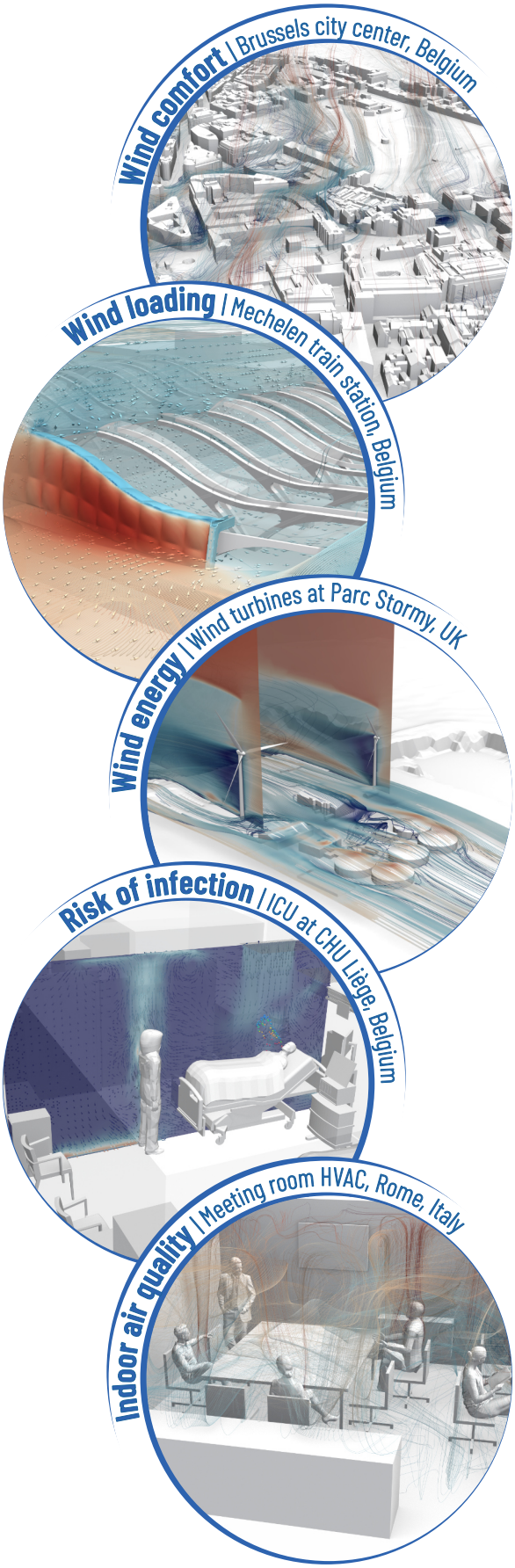
Wind Engineering for Buildings



BuildWind is a Belgian engineering company specialized in the numerical simulation of the built environment using Computational Fluid Dynamics.

Computer simulations are used by BuildWind engineers to accurately calculate the wind load on structures of any shape, study the dispersion of pollutants, improve the comfort and safety of indoor and outdoor environments.

We allow architects and engineers to assess and improve their design, providing them with more detailed information than wind tunnel testing does.

Computational Fluid Dynamics simulation can ensure compliance with regulations and criteria for wind comfort and safety in the built environment such as the **Dutch NEN 8100** standard, the **London** standard, the **Lawson** criteria or the **ASHRAE 55** and the **EN 15251** standards for indoor environmental quality.

Our reports can be produced in **Dutch**, **English** and **French**.

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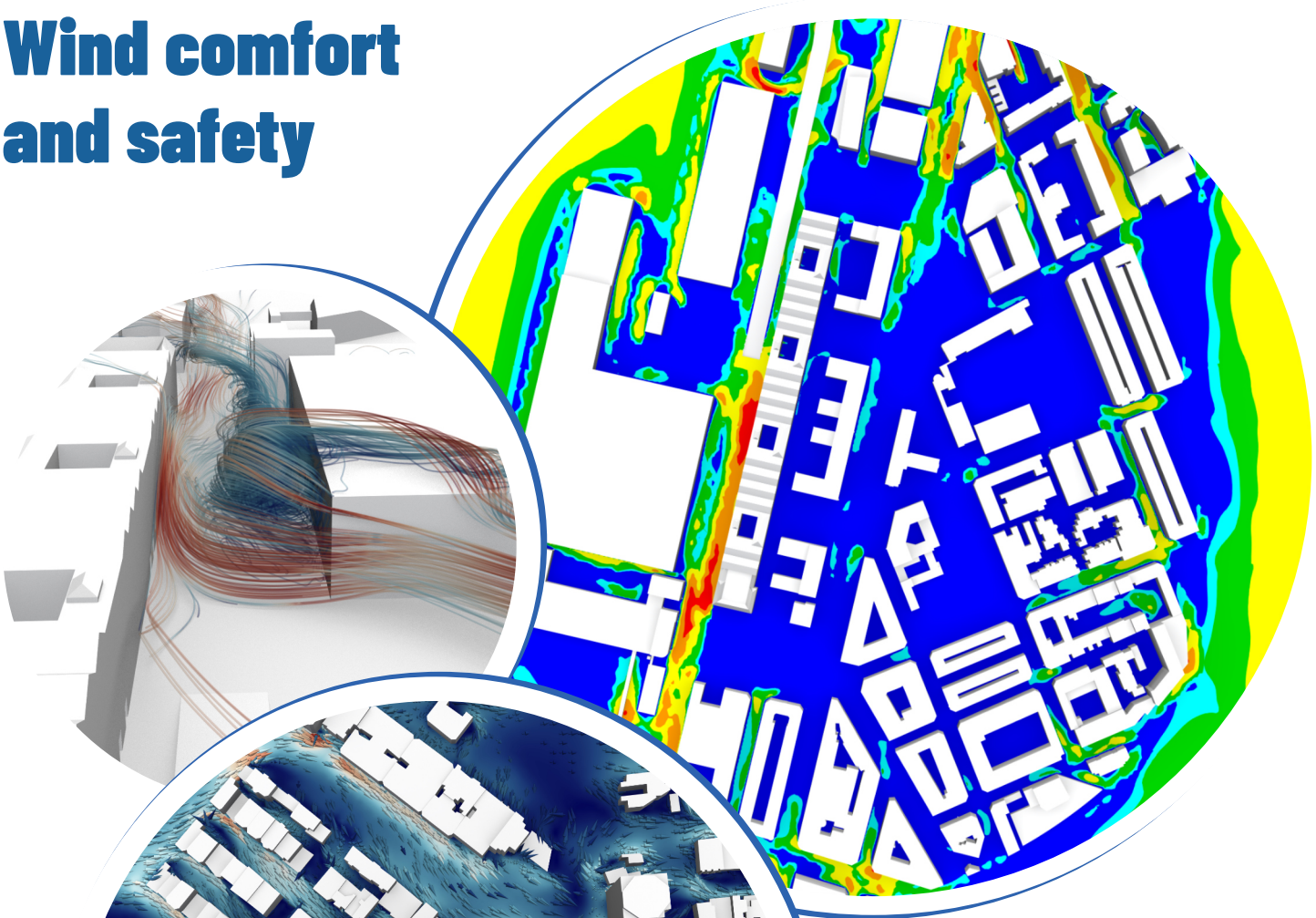
Wind comfort and safety



Wind comfort and safety are key aspects in urban planning and building design. Buildings taller than 15 m in particular are likely to give rise to **high wind velocities** at pedestrian level or on balconies and terraces, causing **discomfort** and sometimes **danger**. For this reason, city authorities often request the advice of a **wind expert** for new buildings and extension of existing ones.

	Activity		
Quality Class	Traversing	Strolling	Sitting
A	Good	Good	Good
B	Good	Good	Moderate
C	Good	Moderate	Poor
D	Moderate	Poor	Poor
E	Poor	Poor	Poor
Limited risk			
Dangerous			

NEN 8100 *Windhinder en windgevaar in de gebouwde omgeving*

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