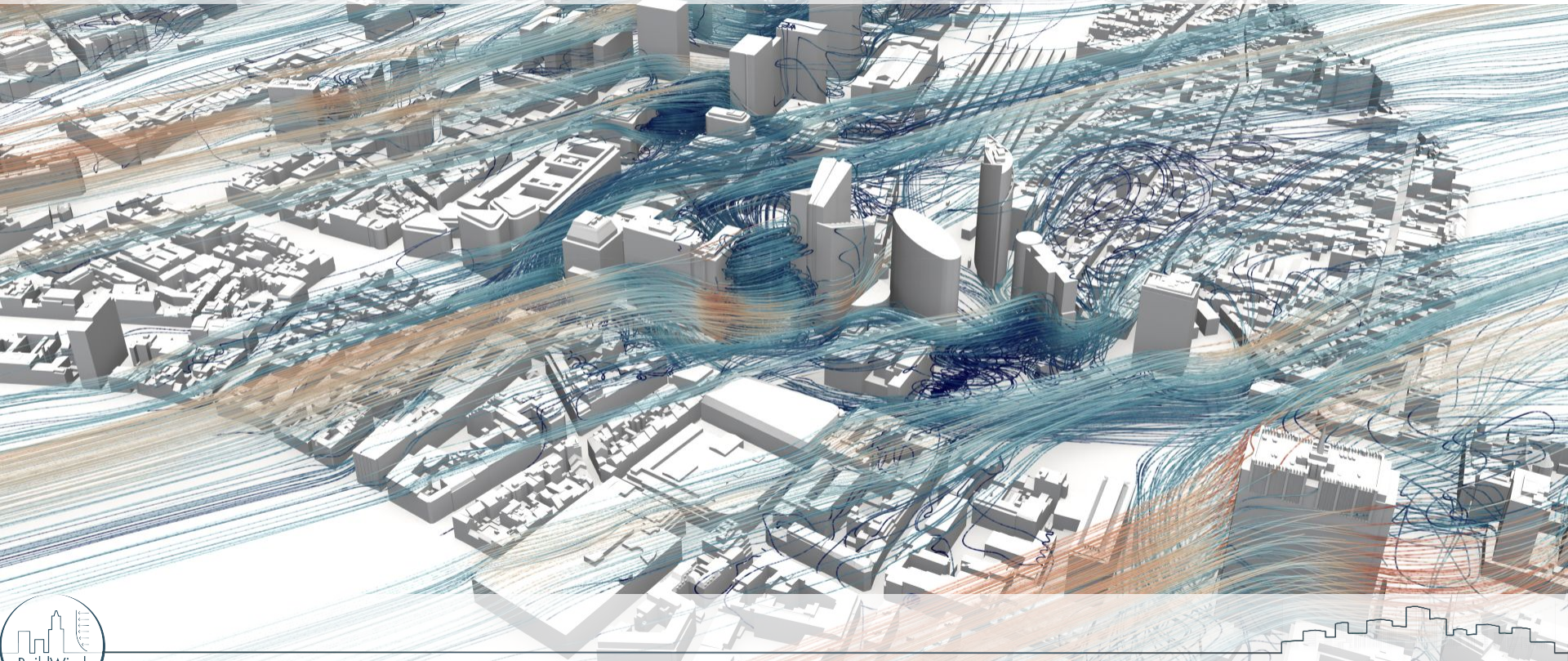
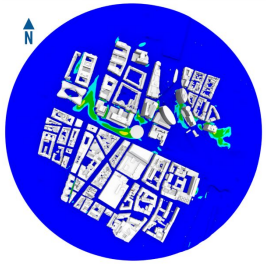
BuildWind

Create the cities of tomorrow, today

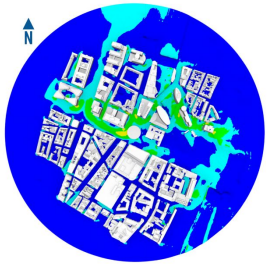


BuildWind

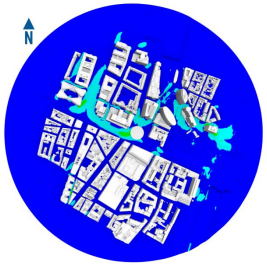
WIND COMFORT and SAFETY



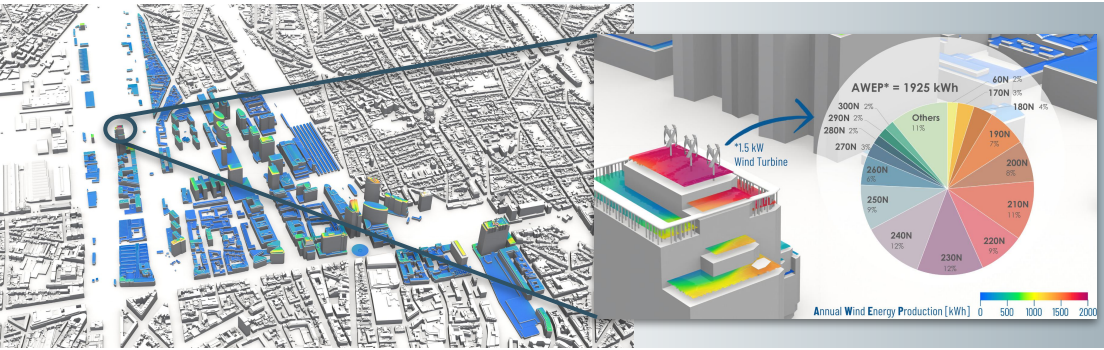
NEN8100 standard



London standard



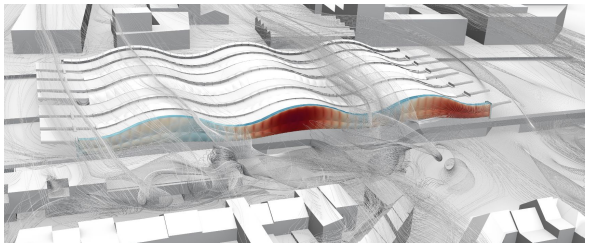
Lawson LDDC standard

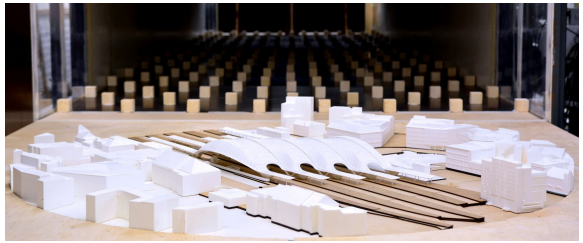


WIND ENERGY

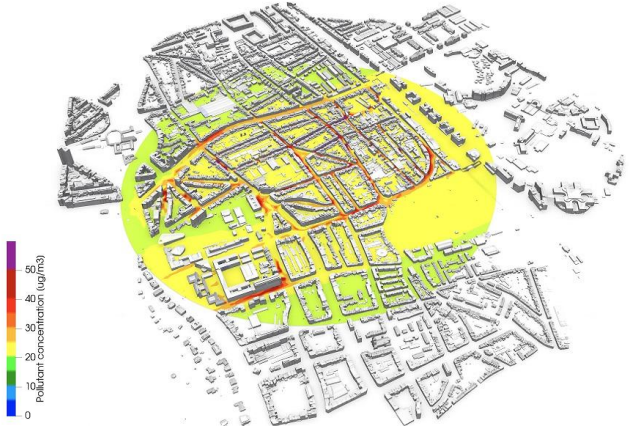
WIND LOADING

CFD and Wind Tunnel Analyses

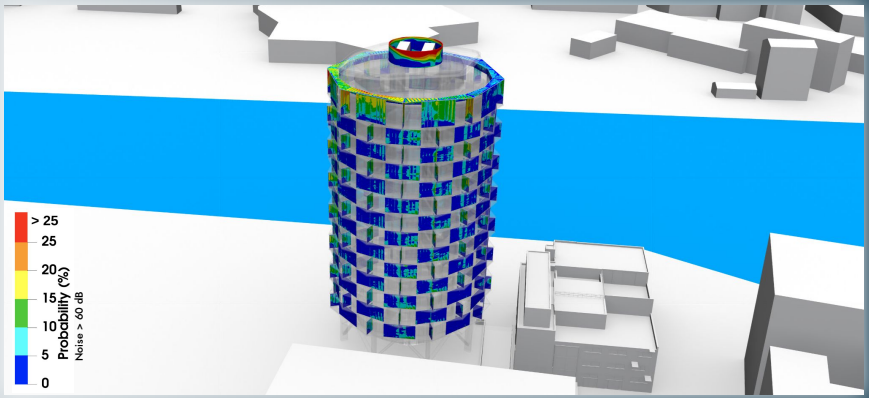




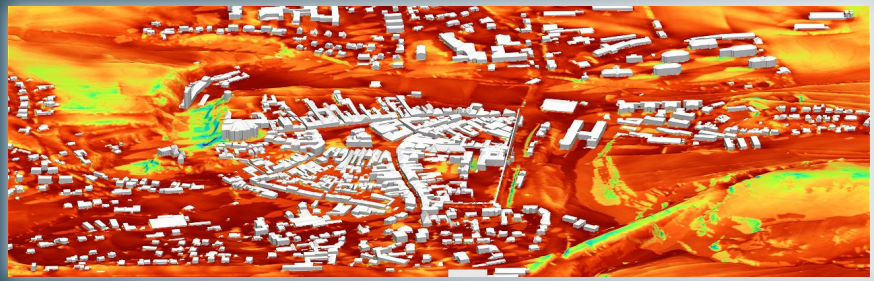
AIR QUALITY

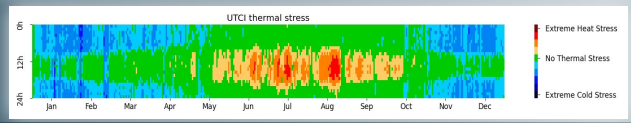


WIND-INDUCED NOISE

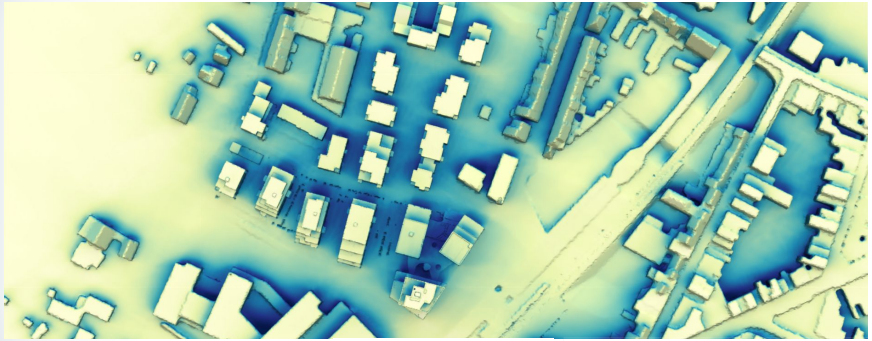


THERMAL COMFORT - Urban Heat Island



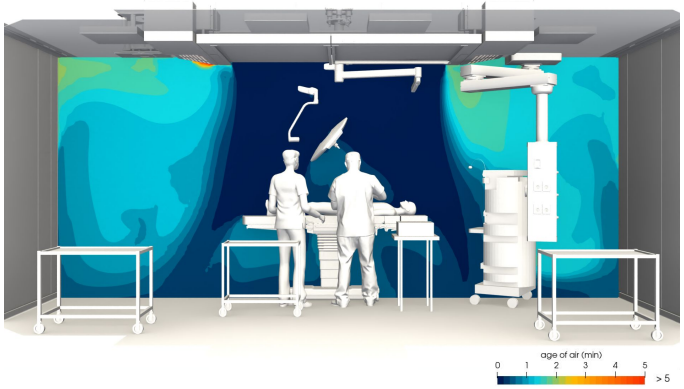


SUN SHADING

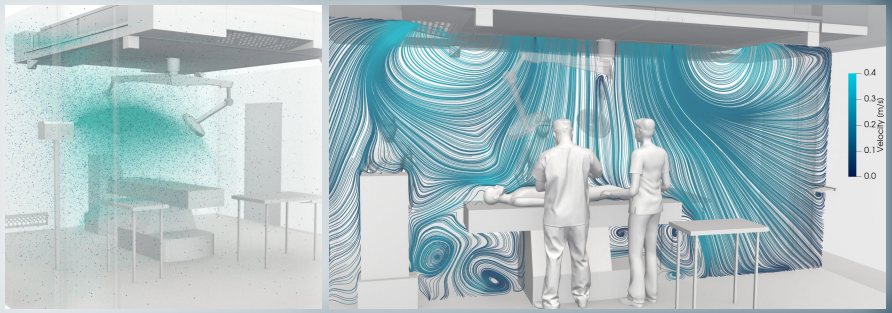


BuildWind

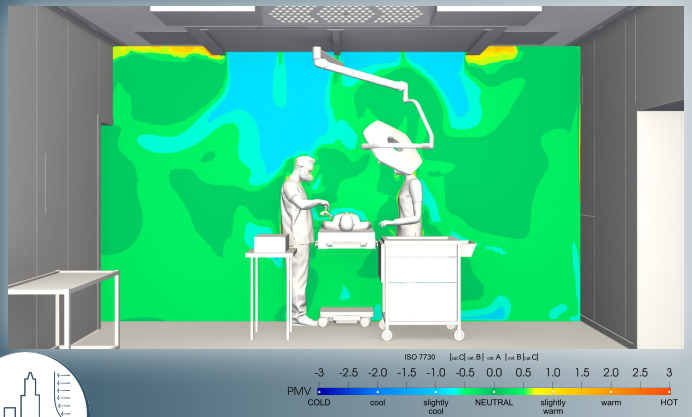
AIR QUALITY



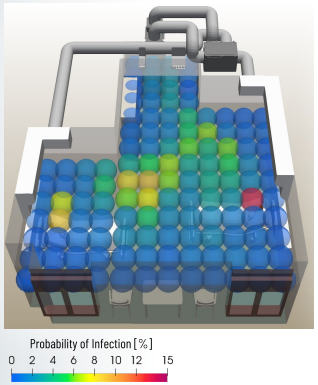
OPERATING THEATERS - ISO 14644

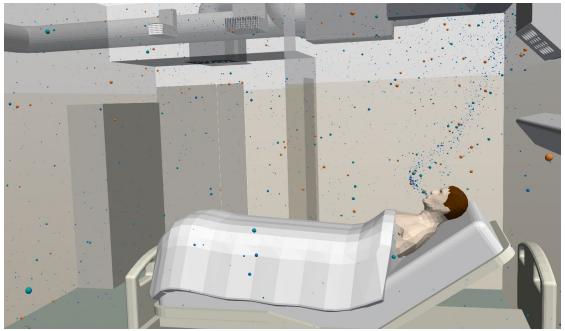


THERMAL COMFORT

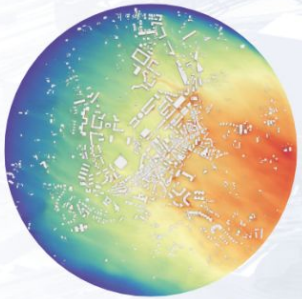


AIRBORNE INFECTION





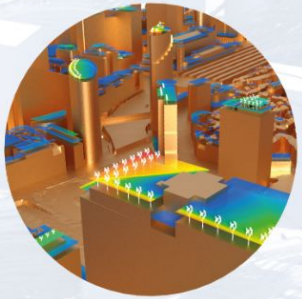
BUILDWIND RECENT COLLABORATIVE R&D PROJECTS



PLENTY-LIFE

Cross-sector PLanning and capacity building to ENable small and medium-sized municipalities to develop and monitor sustainable strategies for the Transition to clean energY.

LIFE Project Grants 101081061



WEB

Wind Energy Brussels. Combined wind simulation and lifecycle analysis for the development of highly efficient wind-driven renewable energy districts in the Brussels Capital Region.

Innoviris grant 2022-JRDIC-7a

SPICECO

Development and validation of an urban air quality predictive model based on Computational Fluid Dynamics simulation and machine learning.

CELTIC-NEXT Innoviris grant 2021-RDIR-17b

BuildWind

A trusted partner with consolidated experience in national and international collaborative projects.

www.buildwind.net
info@buildwind.net

RECENT SCIENTIFIC ARTICLES

- R. Srikumar, S. et al., **A combined CFD and ML based approach to perform a feasibility study of wind energy harvesting in the vicinity of the built environment using medium-sized wind turbines**. IN-VENTO 2024, 8-11 September 2024, Pisa, Italy.
- R. Srikumar, S. et al., **A CFD-based surrogate modeling approach for pedestrian wind comfort assessment**. ERCOFTAC – Machine Learning for Fluid Dynamics, 6-8 March 2024, Paris, France.
- R. Srikumar, S. et al., **Application of a comprehensive atmospheric boundary layer model to a realistic urban-scale wind simulation**. Building and Environment. February 2024: 111330.
- Gambale, A. et al., **A data-driven surrogate model framework based on CFD simulations to accelerate wind energy yield assessment**. ICWE 16, Florence, Italy. August 2023.
- R. Srikumar, S. et al., **CFD-based investigation of air quality in urban areas: A case study in Brussels, Belgium**. ICWE 16, Florence, Italy. August 2023.
- R. Srikumar, S. et al., **A Computational Fluid Dynamics based framework to assess the wind energy potential of an urban landscape: A case study in Brussels**. EGU23 Copernicus Meetings. April 2023.