





02

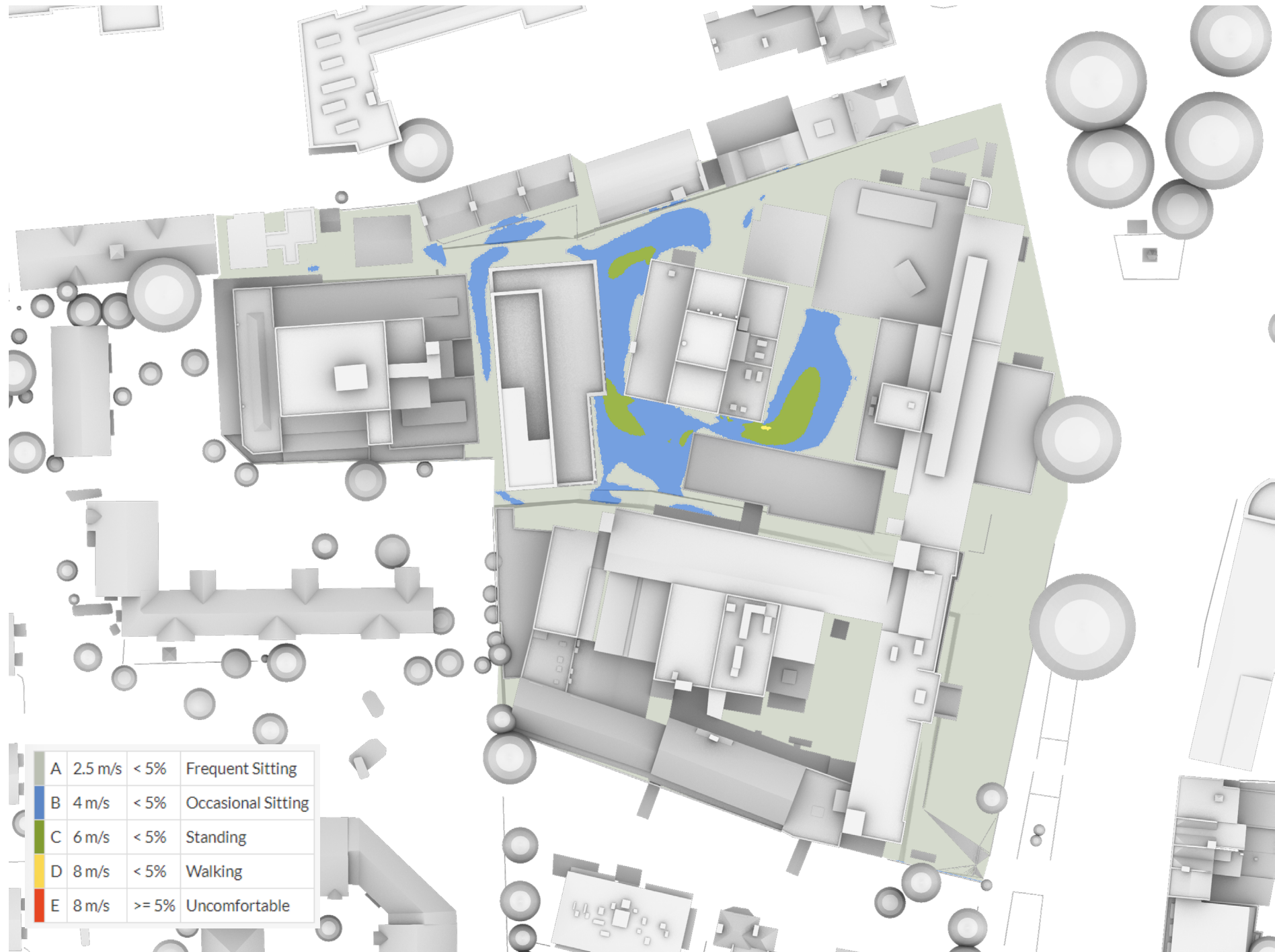
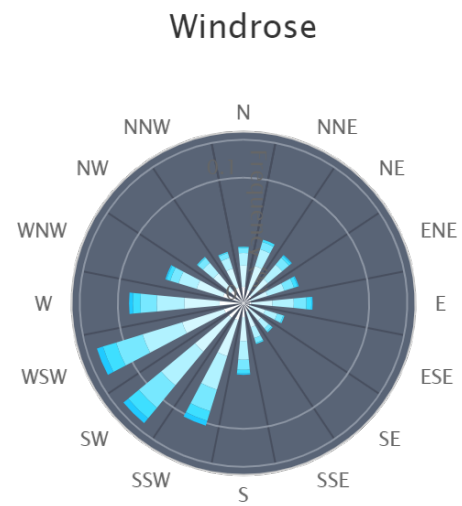
Analysis Results

02.01 Wind Comfort

This pedestrian comfort map indicates what kinds of activities can be carried out depending on the wind speeds. Most of the wide site is suitable for frequent sitting, as the wind doesn't pass 2.5 m/s.

However, surrounding the proposed building, a downwash and tunnelling effect are seen, and most of the area is suitable for occasional sitting. The north-east side of the building and the south-east side are only suitable for standing due to corner acceleration.

The maximum wind speeds are seen in the east courtyard, with wind reaching 8 m/s, making it suitable for walking.



A	2.5 m/s	< 5%	Frequent Sitting
B	4 m/s	< 5%	Occasional Sitting
C	6 m/s	< 5%	Standing
D	8 m/s	< 5%	Walking
E	8 m/s	>= 5%	Uncomfortable

Pedestrian comfort map categorisation

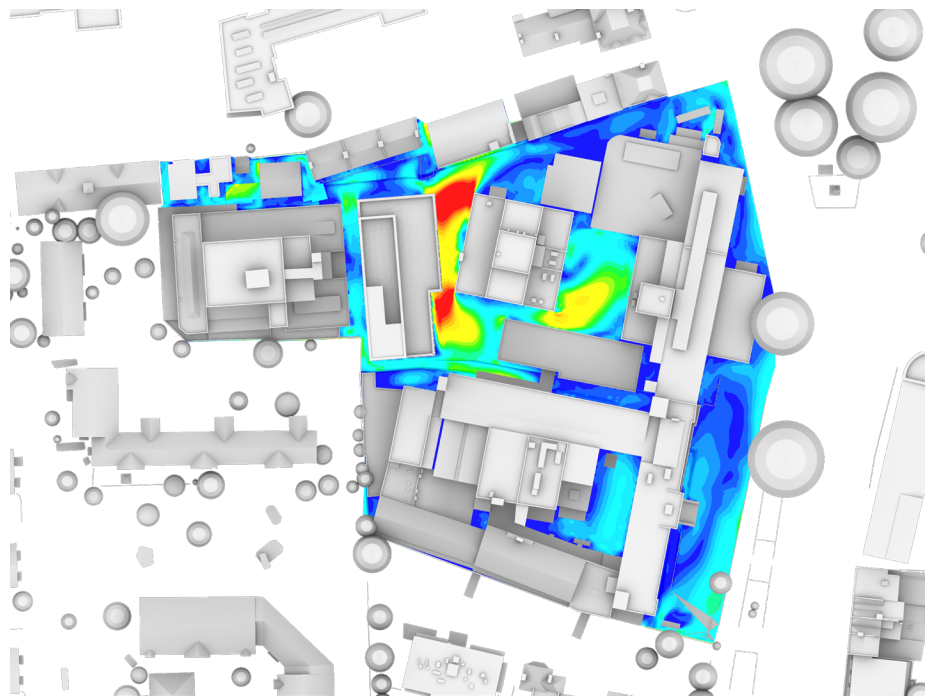
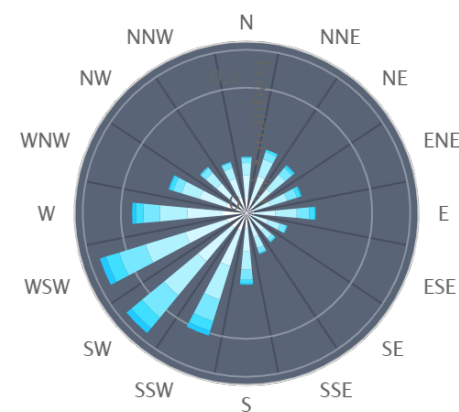
02.02 Wind Speeds

A selected number of prevailing wind directions are represented to show the wind pattern. The most prevalent wind directions are WSW and SW, which both show similar patterns of acceleration at the north-east side of the building (corner acceleration).

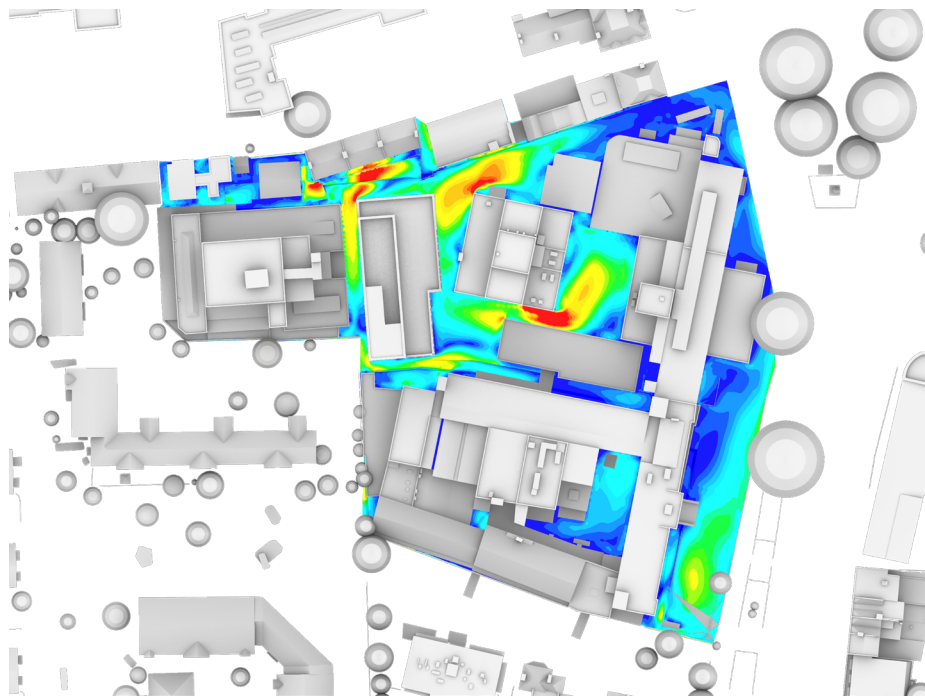
The highest wind speeds can be seen when the wind is coming from the SSW direction, with wind speeds reaching 8 m/s in the open areas and courtyards due to the downwashing caused by the existing tall building (compared to the surrounding area) on the west side of the proposed building.

As for the west direction, acceleration and tunnelling effects can be seen on the west side of the construction centre.

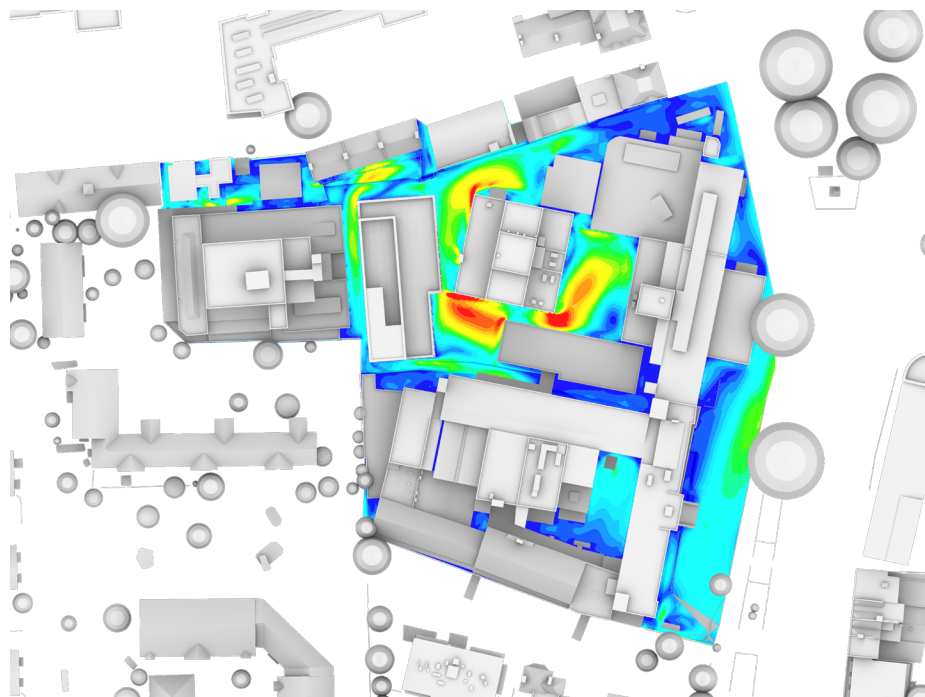
Windrose



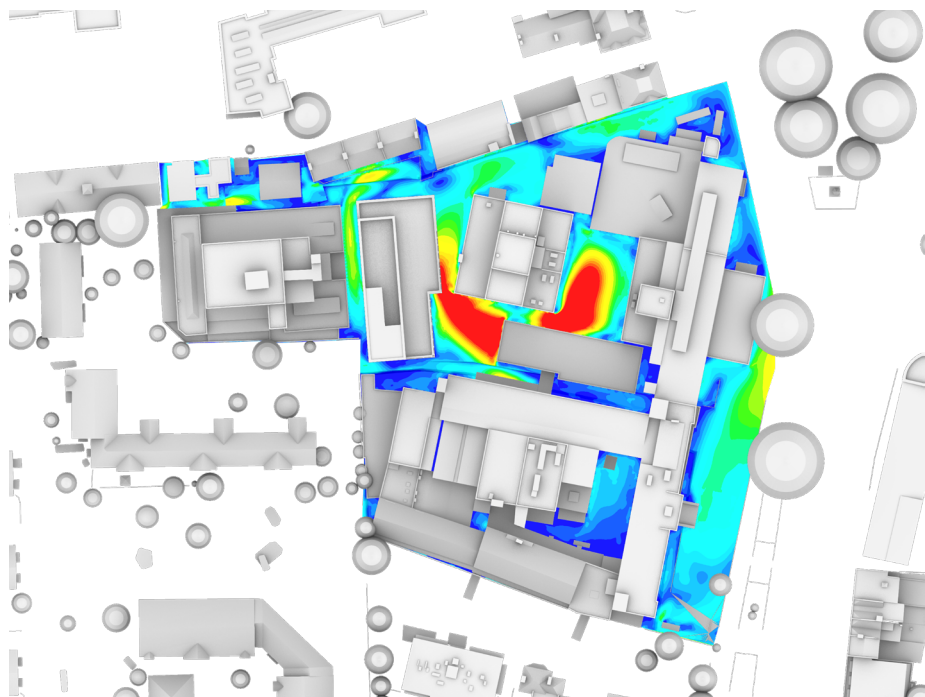
Wind Speed - 270 (W)



Wind Speed - 247.5 (WSW)



Wind Speed - 225 (SW)



Wind Speed - 202.5 (SSW)