

SUPPLEMENTARY INFORMATION

Estimating the effect of human occupancy and activity on indoor air pollution

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Table S1: Indoor to Outdoor (I/O) ratio of PM_1 , $PM_{2.5}$, and PM_{10} in each room, subset by present (occupied) and absent (non-occupied) periods.

Pollutant	Subset	Open-office/ Outside	Meeting room/ Outside
PM_1 ($\mu\text{g}/\text{m}^3$)	ALL	0.67	0.50
$PM_{2.5}$ ($\mu\text{g}/\text{m}^3$)	ALL	0.45	0.36
PM_{10} ($\mu\text{g}/\text{m}^3$)	ALL	0.45	0.24
PM_1 ($\mu\text{g}/\text{m}^3$)	Present	0.60	0.51
$PM_{2.5}$ ($\mu\text{g}/\text{m}^3$)	Present	0.47	0.44
PM_{10} ($\mu\text{g}/\text{m}^3$)	Present	0.68	0.41
PM_1 ($\mu\text{g}/\text{m}^3$)	Absent	0.74	0.50
$PM_{2.5}$ ($\mu\text{g}/\text{m}^3$)	Absent	0.44	0.33
PM_{10} ($\mu\text{g}/\text{m}^3$)	Absent	0.18	0.16

Table S2: Pearson correlations between indoor and outdoor PM_1 , $PM_{2.5}$, and PM_{10} .

Pollutant	Open-office/ Outside	Meeting room/ Outside
PM_1 ($\mu\text{g}/\text{m}^3$)	0.90	0.91
$PM_{2.5}$ ($\mu\text{g}/\text{m}^3$)	0.73	0.65
PM_{10} ($\mu\text{g}/\text{m}^3$)	0.05	0.00

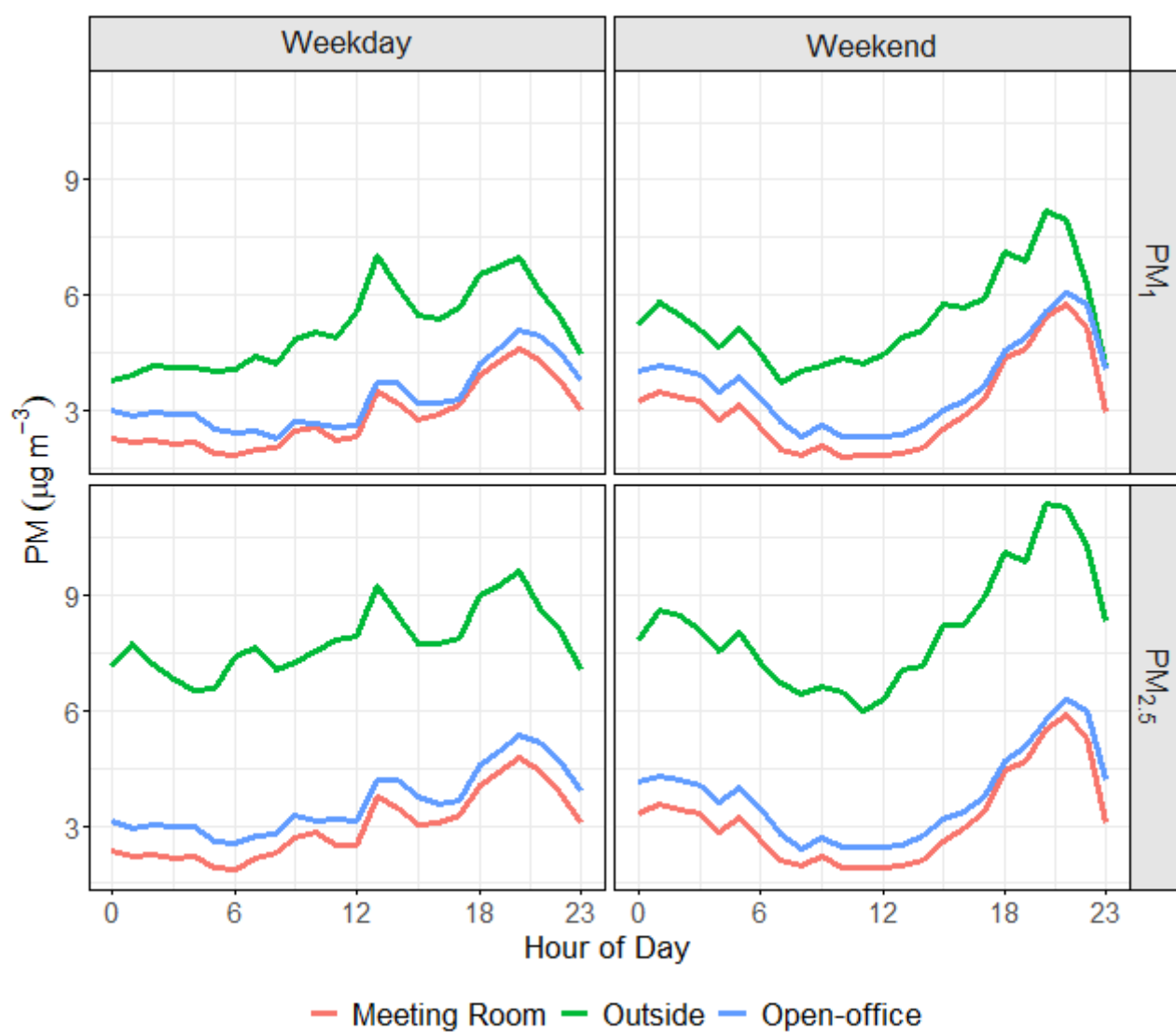


Figure S1: Hourly averaged diurnal variation of weekday and weekend PM_1 and $PM_{2.5}$ in the meeting room, open-office, and outside.

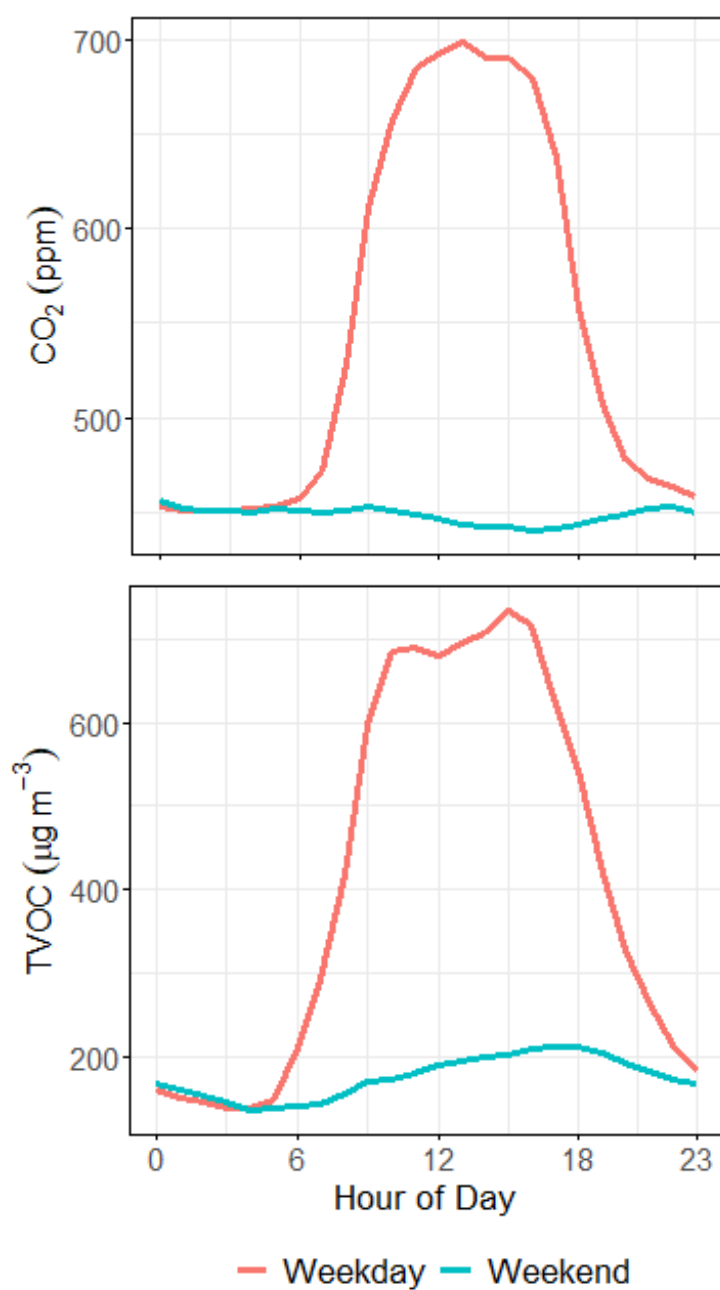


Figure S2: Hourly averaged diurnal variation of CO_2 (top) and TVOCs (bottom) in the open-office for the weekday and weekend.

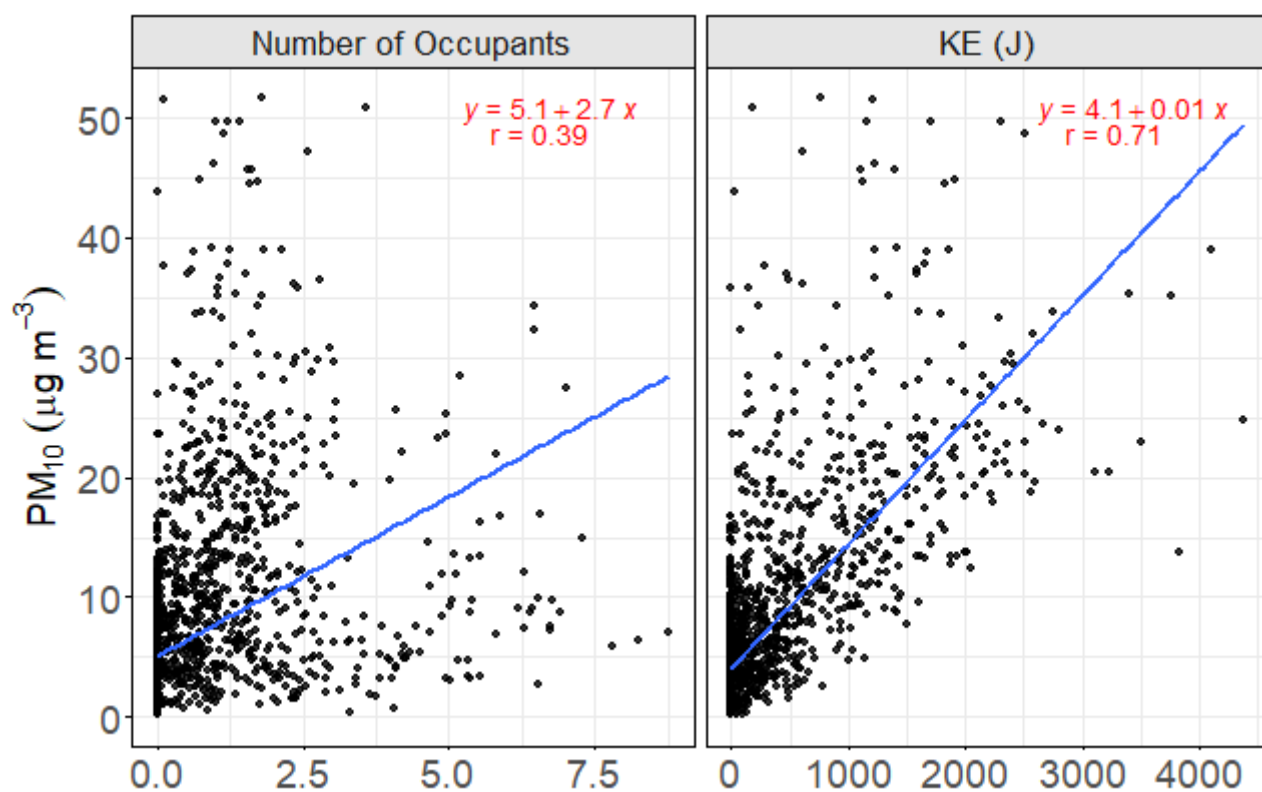


Figure S3: Relationship of occupancy and KE with PM_{10} on the combined hourly averaged dataset, for both rooms.



(a)



(b)



(c)

Figure S4: Sensor placement in the (a) office, (b) meeting room and (c) outdoor.

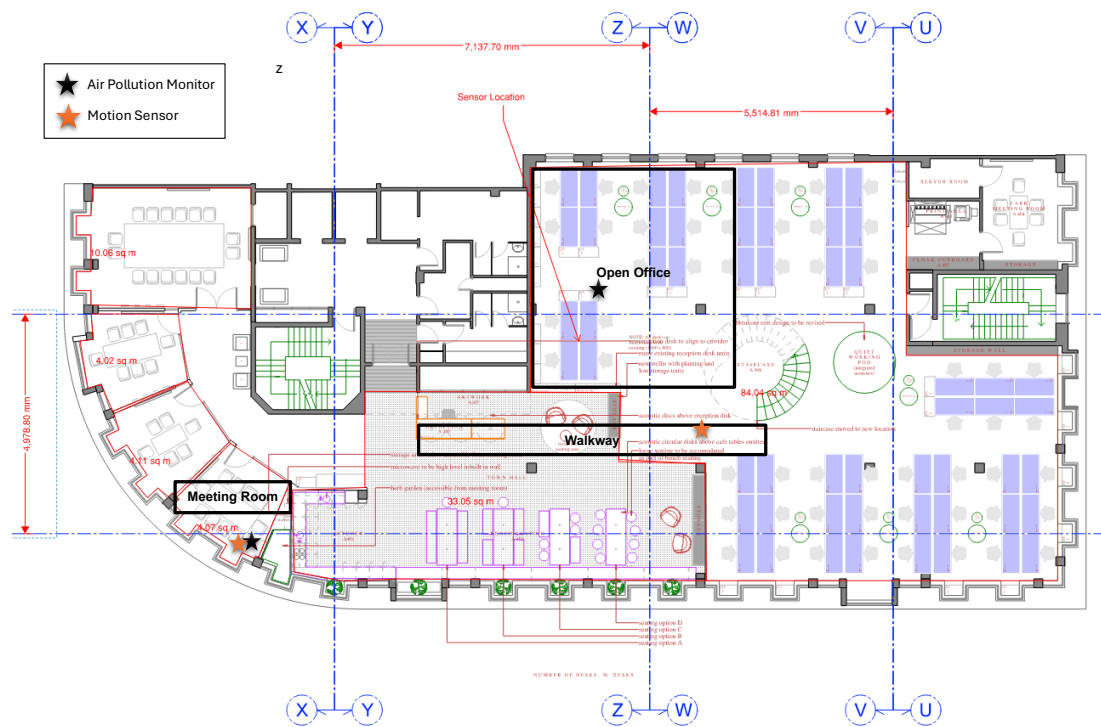


Figure S5: Blueprint of the office floor. Marked are the Open Office, Walkway and Meeting Room areas as well as the location of the sensors.