

*Supplementary material*

# Measurements of NO<sub>x</sub> and Development of Land Use Regression Models in an East-African City

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**Table S1.** Number of datapoints (minutes of available data) from the Thermo 42i analyser at the Ethiopian Meteorological Institute site after applying inclusion and exclusion criteria.

Diurnal trends		Yearly concentrations	
Date	Number of datapoints	Date	Number of datapoints*
2018-05-07	1440	January 2017	1596
2018-05-08	1440	February 2017	3529
2018-05-09	1440	March 2017	3865
2018-05-10	1440	April 2017	1722
2018-05-11	1440	May 2017	1330
2018-08-10	1440	June 2017	753
2018-11-23	1440	July 2017	660
2018-12-21	1440	November 2017	358
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2019-01-07	1440	March 2018	2771
2019-01-21	1440	April 2018	1979
2019-01-22	1440	May 2018	11,580
2019-01-23	1440	June 2018	2451
2019-01-30	1440	July 2018	1133
<b>Total</b>	<b>13 days</b>	August 2018	4058
		October 2018	3404
		November 2018	10,347
		December 2018	20,496
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		January 2019	15,965
<b>Total</b>		<b>103 days</b>	<b>87,997</b>

\* Shows the total number of datapoints for all available days of the corresponding month.

**Table S2.** The partial R<sup>2</sup> values, that is variance explained given the other variables in the model, for each variable included in the final NO<sub>2</sub> model.

<b>Variables included in the NO<sub>2</sub> model</b>	<b>Partial R<sup>2</sup></b>
Primary road distance in meters within 300 m	0.284
Industrial area in m <sup>2</sup> within 3000 m	0.193
Road distance in meters within 50 m	0.037

**Table S3.** The partial R<sup>2</sup> values, that is variance explained given the other variables in the model, for each variable included in the final NO<sub>x</sub> model.

<b>Variables included in the NO<sub>x</sub> model</b>	<b>Partial R<sup>2</sup></b>
Primary road distance in meters within 300 m	0.323
Industrial area in m <sup>2</sup> within 3000 m	0.105
Road distance in meters within 50 m	0.042