

Supplementary Materials

PCA-Based Identification of Built Environment Factors Reducing PM_{2.5} Pollution in Neighborhoods of Five Chinese Megacities

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Table S1. Detailed information for 37 neighborhoods.

City	City Code	Site	Neighborhood Type	Longitude (°E)	Latitude (°N)
Wuhan	WH1	Zhuankou Xinqu	Commercial	114.1525	30.4753
	WH2	Hankou Huaqiao	Residential	114.2836	30.6197
	WH3	Wujiashan	Educational	114.1279	30.6325
	WH4	Donghu Gaoxin	Residential	114.3894	30.4822
	WH5	Hankou Marshland	Residential and parkland area	114.3008	30.5947
	WH6	Yuehu Lake	Residential and parkland area	114.2511	30.5514
	WH7	Wuchang Ziyang	Residential	114.3006	30.5494
Hefei	HF1	Yaohai District	Residential and educational	117.3359	31.8585
	HF2	Luyang District	Commercial	117.2655	31.9438
	HF3	Changjiang Middle Road	Residential, commercial and educational	117.2505	31.8572
	HF4	Baohe District	Commercial	117.3021	31.7956
	HF5	Sanli Street	Residential	117.3073	31.8766
	HF6	High-tech Zone	Residential and commercial	117.1240	31.8516
	HF7	Lake District	Residential and educational	117.2776	31.7386
	HF8	Hupo Compound	Residential	117.2588	31.8706
	HF9	Mingzhu Plaza	Residential	117.1956	31.7848
Nanjing	NJ1	Ruijin Road	Residential	118.8031	32.0314
	NJ2	Shanxi Road	Residential and commercial	118.7784	32.0723
	NJ3	Zhonghuamen	Residential	118.7767	32.0144
	NJ4	Xianlin University Town	Educational	118.9070	32.1050
	NJ5	Pukou	Residential	118.6255	32.0878
	NJ6	Caochangmen	Residential	118.7487	32.0572
Hangzhou	HZ1	Zhaohui Zone 5	Residential	120.1569	30.2897
	HZ2	Xiasha	Commercial and educational	120.3478	30.3058
	HZ3	Hemu Primary School	Residential and educational	120.1198	30.3119
	HZ4	Binjiang	Residential and commercial	120.2107	30.2100
	HZ5	Zhejiang Agricultural University	Residential and educational	120.1898	30.2692
	HZ6	Chengxiang Town	Residential	120.2699	30.1819
	HZ7	Linping Town	Residential	120.3010	30.4183
Shanghai	SH1	Normal College Primary Division	Residential and commercial	121.4778	31.2036

SH2	Hongkou Liang-cheng	Residential	121.4671	31.3008
SH3	Jingan	Residential	121.4250	31.2261
SH4	Yangpu Sipiao	Residential and commercial	121.5360	31.2659
SH5	Normal University	Educational	121.4120	31.1654
SH6	Putuo	Residential and commercial	121.4106	31.2380
SH7	Pudong New Area	Residential	121.5333	31.2349
SH8	Pudong Chuansha	Residential	121.7028	31.1907

Table S2. The date of different pollution level in 2016 and 2017 for the five cities.

Pollution level	Date in 2016					Date in 2017				
	HF	SH	WH	NJ	HZ	HF	SH	WH	NJ	HZ
Slight	Jan 15	Jan 17	Jan 5	Jan 3	Jan 14	Jan 8	Jan 3	Jan 13	Feb 6	Feb 6
	Feb 2	Jan 19	Jan 29	Jan 7	Jan 16	Feb 2	Jan 13	Feb 9	Feb 14	Feb 24
	Mar 13	Feb 2	Feb 20	Feb 4	Feb 5	Feb 27	Mar 9	Feb 13	Feb 23	Mar 8
	Nov 14	Mar 6	Mar 14	Mar 6	Mar 2	Jun 2	Mar 25	May 14	Feb 24	Mar 9
	Nov 26	Mar 27	Sep 26	Sep 1	Nov 6	Oct 8	Mar 26	Jun 6	Mar 10	Nov 8
	Dec 4	Nov 27	Nov 28	Nov 14	Nov 28	Nov 8	Apr 2	Jul 29	Mar 11	Dec 4
	Dec 9	Dec 1	Dec 5	Dec 7	Dec 17	Nov 22	Jun 27	Nov 1	Jun 2	Dec 16
	Dec 23	Dec 7	Dec 16	Dec 16	Dec 30	Dec 16	Dec 21	Dec 10	Nov 2	Dec 24
Moderate	Jan 17	Jan 18	Jan 19	Jan 2	Jan 1	Nov 15	Feb 5	Nov 3	Jan 3	Feb 25
	Mar 19	Feb 5	Mar 19	Mar 3	Mar 7	Dec 4	Dec 24	Nov 8	Dec 24	Dec 7
	Dec 8	Dec 5	Dec 8	Dec 31	Dec 9					
Heavy	Jan 1	Jan 3	Jan 11	Jan 2	Jan 18	Dec 23	Nov 3	May 6	Jan 4	Feb 27
	Mar 5	Jan 15	Feb 8	Mar 4	Mar 6					

Table S3. Statistical of green space indicators.

Site	TCR (%)	GCR (%)	Core (%)	Islet (%)	Perforation (%)	Edge (%)	Loop (%)	Bridge (%)	Branch (%)
WH1	15.50	20.97	6.95	2.69	0.04	8.65	0.13	0.69	1.80
WH2	21.34	21.77	6.94	0.89	0.03	11.22	0.01	0.64	2.02
WH3	44.25	47.23	30.68	1.11	0.45	13.21	0.02	0.41	1.29
WH4	26.04	31.33	12.68	2.98	0.12	11.91	0.15	0.73	2.73
WH5	23.01	26.54	15.36	1.03	0.49	7.65	0.06	0.44	1.10
WH6	29.62	33.92	23.91	0.30	1.36	7.18	0.09	0.25	0.75
WH7	34.83	36.59	21.98	0.86	1.45	10.18	0.05	0.36	1.70
HF1	7.90	7.93	1.59	1.62	0.00	3.91	0.00	0.06	0.70
HF2	6.13	8.22	1.66	2.56	0.00	2.82	0.00	0.16	1.00
HF3	18.85	20.47	8.61	1.71	0.73	7.21	0.03	0.39	1.75
HF4	21.57	24.90	12.04	1.26	0.04	9.81	0.00	0.44	1.27
HF5	11.02	12.01	2.38	2.94	0.00	4.61	0.03	0.39	1.60
HF6	12.62	19.29	12.10	0.63	0.04	5.77	0.07	0.25	0.43
HF7	29.61	30.71	14.26	1.39	0.17	12.59	0.09	0.46	1.72
HF8	23.67	24.13	6.23	2.48	0.00	10.81	0.01	1.42	3.11
HF9	26.58	29.68	12.16	1.80	0.05	12.46	0.02	0.95	2.21

NJ1	17.88	19.25	5.48	2.33	0.00	8.93	0.03	0.72	1.71
NJ2	18.93	20.64	9.61	1.06	0.00	8.55	0.01	0.42	0.95
NJ3	15.12	19.84	7.34	1.22	0.05	9.39	0.01	0.57	1.21
NJ4	40.66	47.25	33.76	0.90	0.42	10.34	0.07	0.37	1.38
NJ5	24.46	37.80	20.82	1.58	0.62	11.86	0.04	0.72	2.14
NJ6	33.79	34.15	20.85	0.58	0.66	10.77	0.00	0.26	0.99
SH1	13.72	14.11	2.04	3.36	0.01	5.77	0.03	0.53	2.32
SH2	25.37	25.71	6.99	2.53	0.06	12.14	0.04	1.03	2.87
SH3	16.14	17.58	5.86	1.21	0.08	8.59	0.00	0.29	1.50
SH4	10.99	12.08	2.49	2.26	0.00	5.47	0.03	0.35	1.44
SH5	26.78	28.31	15.12	0.85	0.65	9.83	0.02	0.47	1.33
SH6	15.60	16.06	3.11	2.45	0.00	7.73	0.05	0.60	2.07
SH7	24.69	26.35	9.13	1.41	0.11	12.18	0.02	0.96	2.49
SH8	12.94	14.57	2.01	4.06	0.04	5.37	0.04	0.51	2.37
HZ1	29.52	30.04	11.33	1.29	0.15	14.10	0.01	0.86	2.24
HZ2	19.62	24.21	8.61	1.78	0.00	11.13	0.04	0.61	2.01
HZ3	18.86	19.42	6.21	1.10	0.09	10.01	0.01	0.51	1.44
HZ4	22.86	27.65	11.05	2.22	0.05	11.52	0.02	0.39	2.38
HZ5	22.99	24.31	9.51	1.12	0.02	11.22	0.04	0.70	1.66
HZ6	20.47	24.03	6.26	2.22	0.00	11.90	0.01	1.10	2.48
HZ7	17.51	19.91	5.25	2.41	0.00	9.52	0.00	0.56	2.10

Table S4. Statistical of gray space indicators.

Site	HSCR (%)	BD_1 (%)	BD_2 (%)	BD_3 (%)	FAR	H (m)	H _σ (m)	BEI	SVF	RD (km/km ²)
WH1	78.96	17.63	1.70	0.82	0.57	8.33	11.45	0.03	0.77	0.02
WH2	77.99	8.47	18.47	2.47	1.79	16.02	11.00	0.01	0.43	0.02
WH3	50.33	5.24	4.70	0.10	0.39	9.95	6.13	0.00	0.78	0.01
WH4	68.67	9.47	10.27	1.42	0.99	14.64	14.24	0.01	0.57	0.02
WH5	30.24	5.06	4.81	1.17	0.64	13.44	14.12	0.01	0.82	0.01
WH6	24.24	3.59	1.19	0.08	0.17	9.02	7.39	0.00	0.95	0.01
WH7	50.56	7.62	9.60	1.81	1.02	15.18	11.24	0.01	0.61	0.02
HF1	92.04	17.78	9.82	0.48	0.93	8.53	7.01	0.01	0.54	0.01
HF2	91.78	37.87	1.48	0.44	0.83	6.41	7.54	0.05	0.57	0.01
HF3	79.20	8.94	13.97	2.22	1.38	13.29	11.81	0.02	0.49	0.02
HF4	73.55	6.47	2.95	1.20	0.56	16.34	21.92	0.01	0.75	0.02
HF5	87.93	6.69	17.36	3.91	1.77	17.47	12.39	0.02	0.43	0.02
HF6	78.04	1.56	3.05	3.66	1.03	29.15	29.39	0.01	0.71	0.01
HF7	67.56	2.30	4.90	4.10	1.36	42.41	35.57	0.01	0.58	0.02
HF8	63.83	3.63	14.57	1.36	1.11	15.64	9.92	0.01	0.44	0.03
HF9	70.04	4.46	10.62	3.90	1.41	20.18	17.72	0.01	0.52	0.02
NJ1	80.08	11.41	13.56	2.38	1.39	12.99	13.04	0.01	0.41	0.02
NJ2	74.60	13.55	14.51	2.00	1.58	10.63	12.73	0.02	0.50	0.02
NJ3	72.58	22.49	6.24	0.24	0.75	6.47	5.60	0.02	0.55	0.02
NJ4	50.99	4.79	7.68	0.34	0.58	12.18	6.69	0.01	0.76	0.02
NJ5	61.86	2.80	10.30	0.04	0.62	11.74	7.15	0.01	0.70	0.02
NJ6	57.72	9.20	7.95	0.34	0.68	10.64	8.73	0.01	0.65	0.02
SH1	85.89	5.03	17.91	5.48	2.17	18.51	16.81	0.01	0.37	0.03
SH2	73.27	3.48	20.52	2.10	1.96	20.35	10.97	0.01	0.32	0.03
SH3	82.31	9.37	15.95	5.59	2.18	16.40	16.29	0.01	0.37	0.02

SH4	87.91	5.60	32.60	3.12	2.34	17.19	10.39	0.02	0.27	0.02
SH5	69.27	8.13	10.62	2.06	1.11	15.63	13.52	0.01	0.59	0.01
SH6	83.11	2.86	14.65	7.20	2.25	23.81	20.86	0.03	0.39	0.02
SH7	72.15	5.43	6.00	5.98	1.75	25.32	24.35	0.02	0.53	0.02
SH8	82.31	10.32	12.64	2.01	1.10	10.44	8.22	0.01	0.56	0.02
HZ1	66.14	4.15	16.42	2.20	1.43	17.44	11.68	0.01	0.43	0.03
HZ2	73.40	11.82	7.34	2.48	1.04	17.39	18.01	0.02	0.57	0.02
HZ3	79.57	17.15	7.75	2.36	1.34	14.66	13.99	0.01	0.47	0.02
HZ4	70.18	6.73	1.73	6.14	1.36	28.50	26.31	0.01	0.61	0.02
HZ5	74.28	9.90	16.38	2.20	1.54	14.94	10.87	0.01	0.51	0.03
HZ6	70.52	6.38	11.08	4.17	1.39	17.69	15.27	0.01	0.52	0.02
HZ7	78.77	7.19	13.42	2.50	1.46	18.15	15.51	0.01	0.55	0.03

Table S5. Statistical of meteorological factors.

Site	T _a (°C)				RH (%)				V (m/s)			
	Overall	Slight	Moderate	Heavy	Overall	Slight	Moderate	Heavy	Overall	Slight	Moderate	Heavy
WH1	11.56	11.82	11.68	10.00	0.78	0.78	0.76	0.78	1.52	1.56	1.18	1.87
WH2	11.56	11.82	11.68	10.00	0.78	0.78	0.76	0.78	1.52	1.56	1.18	1.87
WH3	11.56	11.82	11.68	10.00	0.78	0.78	0.76	0.78	1.52	1.56	1.18	1.87
WH4	11.56	11.82	11.68	10.00	0.78	0.78	0.76	0.78	1.52	1.56	1.18	1.87
WH5	11.56	11.82	11.68	10.00	0.78	0.78	0.76	0.78	1.52	1.56	1.18	1.87
WH6	11.56	11.82	11.68	10.00	0.78	0.78	0.76	0.78	1.52	1.56	1.18	1.87
WH7	11.56	11.82	11.68	10.00	0.78	0.78	0.76	0.78	1.52	1.56	1.18	1.87
HF1	10.17	10.11	10.52	9.90	0.73	0.74	0.77	0.67	1.69	1.70	1.36	2.17
HF2	10.17	10.11	10.52	9.90	0.73	0.74	0.77	0.67	1.69	1.70	1.36	2.17
HF3	10.17	10.11	10.52	9.90	0.73	0.74	0.77	0.67	1.69	1.70	1.36	2.17
HF4	10.17	10.11	10.52	9.90	0.73	0.74	0.77	0.67	1.69	1.70	1.36	2.17
HF5	10.17	10.11	10.52	9.90	0.73	0.74	0.77	0.67	1.69	1.70	1.36	2.17
HF6	10.17	10.11	10.52	9.90	0.73	0.74	0.77	0.67	1.69	1.70	1.36	2.17
HF7	10.17	10.11	10.52	9.90	0.73	0.74	0.77	0.67	1.69	1.70	1.36	2.17
HF8	10.17	10.11	10.52	9.90	0.73	0.74	0.77	0.67	1.69	1.70	1.36	2.17
HF9	10.17	10.11	10.52	9.90	0.73	0.74	0.77	0.67	1.69	1.70	1.36	2.17
NJ1	10.83	11.26	8.86	11.77	0.67	0.66	0.65	0.73	2.03	2.16	1.86	1.63
NJ2	10.83	11.26	8.86	11.77	0.67	0.66	0.65	0.73	2.03	2.16	1.86	1.63
NJ3	10.83	11.26	8.86	11.77	0.67	0.66	0.65	0.73	2.03	2.16	1.86	1.63
NJ4	10.83	11.26	8.86	11.77	0.67	0.66	0.65	0.73	2.03	2.16	1.86	1.63
NJ5	10.83	11.26	8.86	11.77	0.67	0.66	0.65	0.73	2.03	2.16	1.86	1.63
NJ6	10.83	11.26	8.86	11.77	0.67	0.66	0.65	0.73	2.03	2.16	1.86	1.63
SH1	9.28	9.63	7.48	10.40	0.68	0.68	0.66	0.73	2.26	2.26	2.62	1.63
SH2	9.28	9.63	7.48	10.40	0.68	0.68	0.66	0.73	2.26	2.26	2.62	1.63
SH3	9.28	9.63	7.48	10.40	0.68	0.68	0.66	0.73	2.26	2.26	2.62	1.63
SH4	9.28	9.63	7.48	10.40	0.68	0.68	0.66	0.73	2.26	2.26	2.62	1.63
SH5	9.28	9.63	7.48	10.40	0.68	0.68	0.66	0.73	2.26	2.26	2.62	1.63
SH6	9.28	9.63	7.48	10.40	0.68	0.68	0.66	0.73	2.26	2.26	2.62	1.63
SH7	9.28	9.63	7.48	10.40	0.68	0.68	0.66	0.73	2.26	2.26	2.62	1.63
SH8	9.28	9.63	7.48	10.40	0.68	0.68	0.66	0.73	2.26	2.26	2.62	1.63
HZ1	9.46	9.28	10.04	9.43	0.68	0.68	0.69	0.72	1.93	1.98	1.74	2.00
HZ2	9.46	9.28	10.04	9.43	0.68	0.68	0.69	0.72	1.93	1.98	1.74	2.00

HZ3	9.46	9.28	10.04	9.43	0.68	0.68	0.69	0.72	1.93	1.98	1.74	2.00
HZ4	9.46	9.28	10.04	9.43	0.68	0.68	0.69	0.72	1.93	1.98	1.74	2.00
HZ5	9.46	9.28	10.04	9.43	0.68	0.68	0.69	0.72	1.93	1.98	1.74	2.00
HZ6	9.46	9.28	10.04	9.43	0.68	0.68	0.69	0.72	1.93	1.98	1.74	2.00
HZ7	9.46	9.28	10.04	9.43	0.68	0.68	0.69	0.72	1.93	1.98	1.74	2.00

Table S6. Regression models of principal factors at different pollution levels.

Dependent variable	Principal Factors	Constant	p-value	F-value	Adj_R ²
Slight Pollution Level					
C _{in}	P ₃ (0.069,0.391) ^{***} , P ₆ (-0.089,-0.328) ^{**} , P ₇ (-0.114,-0.374) ^{***} , P ₁₃ (0.274,0.385) ^{***}	1.291 ^{***}	0.000	8.347	0.487
Δt _{in}	P ₁ (0.053,0.267) [*] , P ₂ (0.074,0.274) [*] , P ₃ (0.081,0.230) [*] , P ₁ (0.320,0.295) ^{**} , P ₁₄ (-0.388,-0.232) [*] , P ₁₇ (0.811,0.290) ^{**} , P ₁₈ (-1.073,-0.323) ^{**} , P ₂₂ (3.027,0.243) [*]	7.293 ^{***}	0.003	4.376	0.466
C _{in} '	P ₃ (0.008,0.333) [*] , P ₁₂ (-0.023,-0.336) [*]	0.192 ^{***}	0.032	3.899	0.158
C _{de}	P ₃ (-0.005,-0.219) [*] , P ₄ (-0.012,-0.458) ^{***} , P ₅ (0.012,0.394) ^{***} , P ₇ (0.010,0.263) ^{**} , P ₁₀ (-0.014,-0.232) [*] , P ₁₆ (0.043,0.342) ^{**}	0.527 ^{***}	0.000	6.498	0.516
Δt _{de}	P ₁ (-0.076,-0.250) ^{**} , P ₄ (0.177,0.268) ^{**} , P ₅ (-0.194,-0.255) ^{**} , P ₆ (0.195,0.237) ^{**} , P ₇ (0.263,0.283) ^{***} , P ₁₁ (0.364,0.226) ^{**} , P ₁₂ (-0.450,-0.274) ^{**} , P ₁₃ (-0.760,-0.351) ^{***} , P ₁₄ (-0.506,-0.200) ^{**} , P ₁₅ (0.900,0.349) ^{***} , P ₁₇ (0.946,0.223) ^{**} , P ₁₈ (1.022,0.203) ^{**} , P ₁₉ (0.992,0.175) [*]	5.944 ^{***}	0.000	8.720	0.764
C _{de} '	P ₁ (0.001,0.228) ^{**} , P ₄ (-0.005,-0.406) ^{***} , P ₅ (0.004,0.303) ^{***} , P ₇ (-0.003,-0.173) ^{**} , P ₉ (0.004,0.174) ^{**} , P ₁₁ (-0.006,-0.204) ^{**} , P ₁₃ (0.012,0.325) ^{***} , P ₁₅ (-0.017,-0.371) ^{***} , P ₁₆ (0.010,0.182) ^{**} , P ₁₇ (-0.024,-0.327) ^{***} , P ₁₈ (-0.032,-0.362) ^{***} , P ₁₉ (-0.020,-0.203) ^{**}	0.105 ^{***}	0.000	11.662	0.805
Moderate Pollution Level					
C _{in}	P ₁ (0.063,0.356) ^{***} , P ₄ (-0.080,-0.229) ^{***} , P ₆ (0.201,0.379) ^{***} , P ₇ (0.104,0.197) ^{**} , P ₈ (-0.103,-0.144) [*] , P ₉ (-0.168,-0.216) ^{**} , P ₁₁ (0.448,0.452) ^{***} , P ₁₂ (0.365,0.335) ^{***} , P ₁₄ (0.427,0.308) ^{***} , P ₁₅ (-0.394,-0.234) ^{***} , P ₁₆ (0.516,0.241) ^{***} , P ₁₇ (0.411,0.152) [*]	1.508 ^{***}	0.000	14.156	0.836
Δt _{in}	P ₁ (-0.276,-0.372) ^{***} , P ₂ (-0.244,-0.245) ^{**} , P ₃ (0.479,0.365) ^{***} , P ₁₀ (0.606,0.182) [*] , P ₁₁ (0.758,0.182) [*] , P ₁₂ (0.989,0.217) ^{**} , P ₁₃ (-1.866,-0.328) ^{***} , P ₁₄ (1.908,0.329) ^{***} , P ₁₅ (-2.418,-0.342) ^{***} , P ₂₁ (-5.115,-0.224) ^{**}	9.528 ^{***}	0.000	8.380	0.704
C _{in} '	P ₁ (0.007,0.502) ^{***} , P ₂ (0.003,0.171) [*] , P ₃ (-0.013,-0.501) ^{***} , P ₄ (-0.005,-0.179) [*] , P ₆ (0.012,0.272) ^{**} , P ₇ (0.014,0.325) ^{***} , P ₉ (-0.018,-0.294) ^{***} , P ₁₁ (0.019,0.235) ^{**} , P ₁₂ (0.020,0.222) ^{**} , P ₁₃ (0.025,0.223) ^{**} , P ₁₆ (0.030,0.172) [*] , P ₁₇ (0.041,0.186) [*]	0.190 ^{***}	0.000	8.683	0.748
C _{de}	P ₅ (0.019,0.424) ^{***} , P ₆ (-0.018,-0.324) ^{**} , P ₁₂ (-0.051,-0.442) ^{***} , P ₁₄ (-0.033,-0.221) [*] , P ₁₅ (0.068,0.376) ^{***} , P ₁₇ (-0.068,-0.234) [*] , P ₂₁ (0.135,0.231) ^{**}	0.573 ^{***}	0.000	8.005	0.613
Δt _{de}	P ₁ (0.127,0.342) ^{***} , P ₂ (-0.133,-0.266) ^{**} , P ₃ (0.248,0.377) ^{***} , P ₅ (-0.277,-0.314) ^{**} , P ₁₂ (0.996,0.435) ^{***} , P ₁₃ (0.662,0.232) [*] , P ₁₅ (0.800,0.226) [*] , P ₂₂ (5.780,0.220) [*]	7.168 ^{***}	0.000	7.285	0.619
C _{de} '	P ₁ (-0.003,-0.369) ^{***} , P ₂ (0.003,0.336) ^{***} , P ₃ (-0.003,-0.253) ^{**} , P ₄ (0.003,0.218) [*] , P ₅ (0.006,0.334) ^{***} , P ₁₂ (-0.025,-0.555) ^{***} , P ₂₁ (0.048,0.214) [*] , P ₂₂ (-0.105,-0.204) [*]	0.094 ^{***}	0.000	6.865	0.602
Heavy Pollution Level					

C_{in}	$P_1(-0.087,-0.353)^{***}$, $P_4(0.194,0.381)^{***}$, $P_6(-0.329,-0.507)^{***}$, $P_8(-0.330,-0.403)^{***}$, $P_9(0.287,0.277)^{**}$, $P_{16}(0.458,0.182)^*$, $P_{18}(0.960,0.272)^*$, $P_{19}(0.731,0.173)^*$	1.776 ^{***}	0.000	11.029	0.721
Δt_{in}	$P_1(-0.200,-0.391)^{***}$, $P_5(0.222,0.199)^*$, $P_6(-0.607,-0.451)^{***}$, $P_7(0.339,0.240)^{**}$, $P_8(-0.377,-0.222)^{**}$, $P_{14}(-0.772,-0.195)^*$, $P_{16}(1.606,0.308)^{***}$, $P_{17}(1.711,0.255)^{**}$, $P_{20}(-1.848,-0.180)^*$, $P_{21}(-2.725,-0.176)^*$	7.003 ^{***}	0.000	8.330	0.703
C_{in}'	$P_4(0.018,0.282)^{**}$, $P_6(-0.026,-0.318)^*$, $P_8(-0.041,-0.397)^{***}$, $P_9(0.053,0.408)^{***}$, $P_{17}(-0.094,-0.232)^*$, $P_{18}(0.122,0.275)^*$, $P_{21}(0.274,0.290)^{**}$	0.258 ^{***}	0.001	5.032	0.477
C_{de}	$P_2(-0.014,-0.360)^{***}$, $P_3(0.016,0.340)^{***}$, $P_6(0.041,0.512)^{***}$, $P_7(-0.022,-0.265)^{**}$, $P_9(0.029,0.223)^*$, $P_{16}(0.078,0.248)^{**}$	0.560 ^{***}	0.000	8.811	0.602
Δt_{de}	$P_2(-0.435,-0.318)^{**}$, $P_3(-0.760,-0.456)^{***}$, $P_5(-0.587,-0.253)^{**}$, $P_7(-0.990,-0.338)^{***}$, $P_{16}(4.844,0.448)^{***}$	8.419 ^{***}	0.000	10.327	0.601
C_{de}'	$P_1(0.002,0.179)^{***}$, $P_3(0.009,0.621)^{***}$, $P_4(-0.004,-0.223)^{***}$, $P_{12}(-0.023,-0.450)^*$, $P_{13}(-0.019,-0.278)^{***}$, $P_{14}(-0.028,-0.389)^{***}$, $P_{16}(-0.032,-0.344)^{**}$, $P_{21}(0.067,0.239)^{**}$	0.086 ^{***}	0.000	12.220	0.743

Note: ^{***}, ^{**}, ^{*} indicate that the factors have passed the significance test of 1%, 5% and 10%, respectively, and the numbers in brackets indicate the regression coefficient and standardization coefficient respectively.