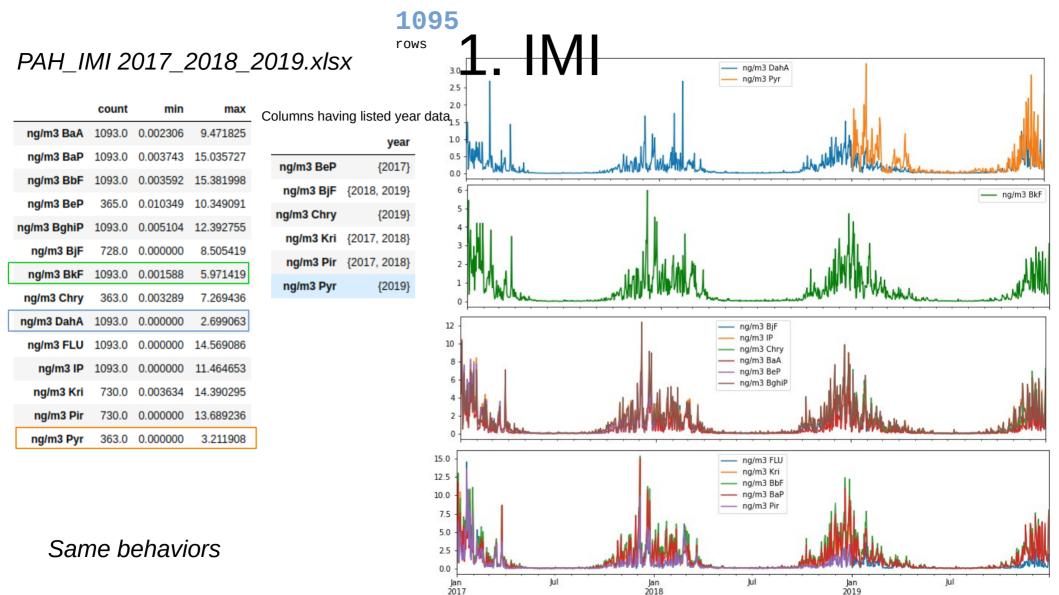
Zagreb air pollution

Overview



													99	
ng/m3 BaA -	1	0.97	0.97	0.98	0.94	0.96	0.97	0.99	0.85	0.82	0.95	0.99	0.87	0.86
ng/m3 BaP -	0.97	1	0.98	0.96	0.99	0.98	0.97	0.95	0.87	0.72	0.98	0.95	0.78	0.85
ng/m3 BbF -	0.97	0.98	1	0.99	0.99	0.99	0.99	0.97	0.86	0.78	0.99	0.97	0.82	0.88
ng/m3 BeP -	0.98	0.96	0.99	1	0.97		0.99		0.89	0.89	0.99	0.98	0.91	
ng/m3 BghiP -	0.94	0.99	0.99	0.97	1	0.97	0.97	0.94	0.87	0.71	0.99	0.94	0.76	0.86
ng/m3 BjF -	0.96	0.98	0.99		0.97	1	0.99	0.97	0.88	0.75	0.98	0.96	0.74	0.87
ng/m3 BkF -	0.97	0.97	0.99	0.99	0.97	0.99	1	0.97	0.92	0.78	0.98	0.96	0.82	0.88
ng/m3 Chry -	0.99	0.95	0.97		0.94	0.97	0.97	1		0.88				0.89
ng/m3 DahA -	0.85	0.87	0.86	0.89	0.87	0.88		0.9	1	0.63	0.89	0.8	0.67	0.81
ng/m3 FLU -	0.82	0.72	0.78	0.89	0.71	0.75	0.78	0.88	0.63	1	0.75	0.86	0.99	0.99
ng/m3 IP -	0.95	0.98	0.99	0.99	0.99	0.98	0.98		0.89	0.75	1	0.96	0.79	0.84
ng/m3 Kri -	0.99	0.95	0.97	0.98	0.94	0.96	0.96		0.8	0.86	0.96	1	0.89	3.0
ng/m3 Pir -	0.87	0.78	0.82	0.91	0.76	0.74	0.82		0.67	0.99	0.79	0.89	1	
ng/m3 Pyr -	0.86	0.85	0.88		0.86	0.87	0.88	0.89	0.81	0.99	0.84			1

1461

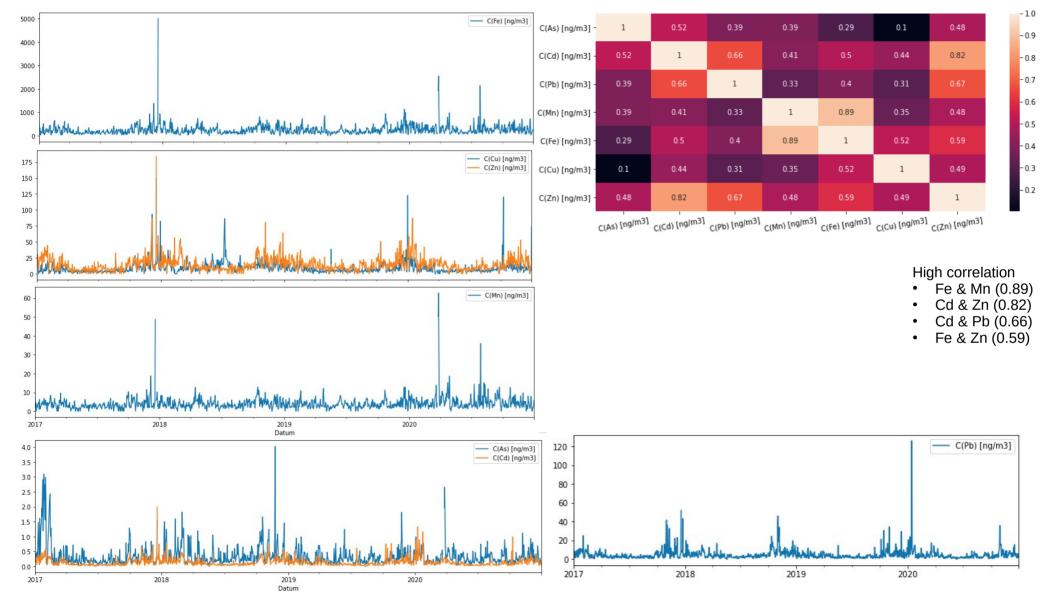
metal_IMI2017_2020.xlsx rows

1. IMI

	count	min	max
C(As) [ng/m3]	1453.0	0.0018	4.017626
C(Cd) [ng/m3]	1453.0	0.0004	1.988098
C(Pb) [ng/m3]	1453.0	0.0230	126.134692
C(Mn) [ng/m3]	1453.0	0.1110	62.631426
C(Fe) [ng/m3]	1453.0	3.1300	4997.743440
C(Cu) [ng/m3]	1453.0	0.1600	150.038504
C(Zn) [ng/m3]	1453.0	0.3920	183.702797

NAs

Datum								
2017-12-20	I-M - 354	NaN						
2018-09-28	I-M - 271	NaN						
2018-09-29	I-M - 272	NaN						
2019-09-25	I-M - 268	NaN						
2020-03-24	I-M-084	NaN						
2020-03-25	I-M-085	NaN						
2020-09-12	I-M - 256	NaN						
2020-11-26	I-M - 331	NaN						

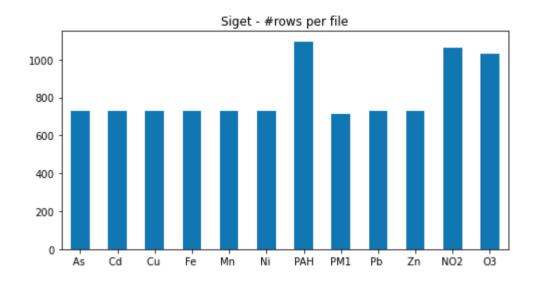


	2017	2018	2019
As	As Siget 2017.xls	As Siget 2018.xls	As Siget 2019.xls
Cd	Cd Siget 2017.xls	Cd Siget 2018.xls	Cd Siget 2019.xls
Cu	Cu Siget 2017.xls	Cu Siget 2018.xls	Cu Siget 2019.xls
Fe	Fe Siget 2017.xls	Fe Siget 2018.xls	Fe Siget 2019.xls
Mn	Mn Siget 2017.xls	Mn Siget 2018.xls	Mn Siget 2019.xls
Ni	Ni Siget 2017.xls	Ni Siget 2018.xls	Ni Siget 2019.xls
PAH	PAH_Siget 2017_2018_2019.xlsx	None	None
PM1	PM10 Siget 2017.xls	PM10 Siget 2018.xls	PM10 Siget 2019.xls
Pb	Pb Siget 2017.xls	Pb Siget 2018.xls	Pb Siget 2019.xls
Pod	Podaci NO2 O3 Siget.xlsx	None	None
Zn	Zn Siget 2017.xls	Zn Siget 2018.xls	Zn Siget 2019.xls

	2017	2018	2019	#rows
As	(0, 0)	(364, 1)	(362, 1)	726
Cd	(0, 0)	(364, 1)	(362, 1)	726
Cu	(0, 0)	(364, 1)	(362, 1)	726
Fe	(0, 0)	(364, 1)	(362, 1)	726
Mn	(0, 0)	(364, 1)	(362, 1)	726
Ni	(0, 0)	(364, 1)	(362, 1)	726
PAH	(365, 14)	(365, 14)	(365, 14)	1095
PM1	(0, 0)	(365, 1)	(347, 1)	712
Pb	(0, 0)	(364, 1)	(362, 1)	726
Zn	(0, 0)	(364, 1)	(362, 1)	726
NO2	(357, 1)	(362, 1)	(341, 1)	1060
О3	(352, 1)	(342, 1)	(338, 1)	1032

Siget – File Managment

2 files in different format



Only PAH, NO2, O3 has data in 2017

PAH_Siget 2017_2018_2019.xlsx

ng/m3 BaA 957.0 0.0 23.598826 957.0 0.0 31.722936 ng/m3 BaP 957.0 0.0 31.139334 ng/m3 BbF 245.0 0.0 20.347329 ng/m3 BeP 957.0 0.0 24.900351 ng/m3 BghiP 712.0 0.0 13.803575 na/m3 BiF ng/m3 BkF 957.0 0.0 12.496493 957.0 0.0 3.534034 ng/m3 DahA ng/m3 FLU 957.0

957.0

957.0 ng/m3 Pir 957.0 0.0 36.109327

ng/m3 Kri

0.0 33.342504

0.0 21.732226

0.0 34.363040

1095 Siget rows

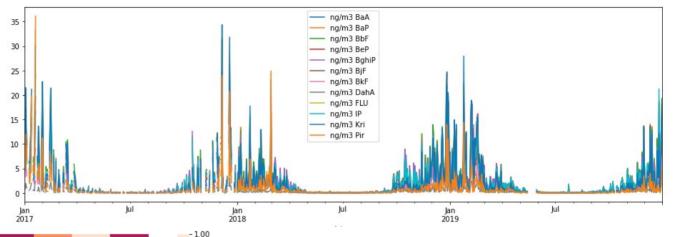
0.95

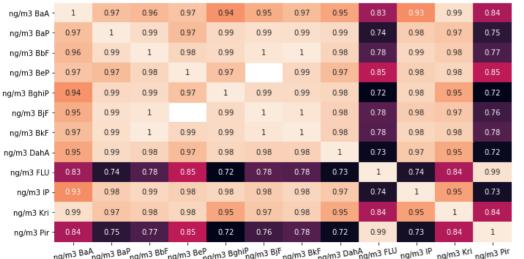
- 0.90

- 0.85

0.80

0.75



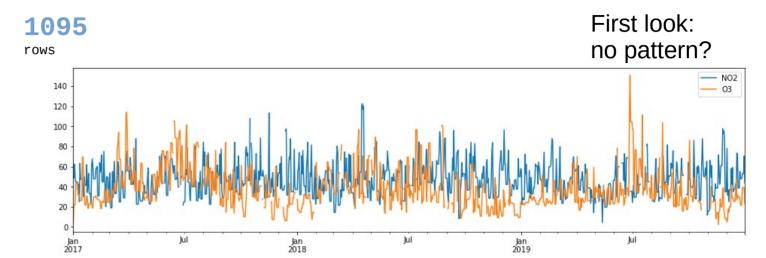


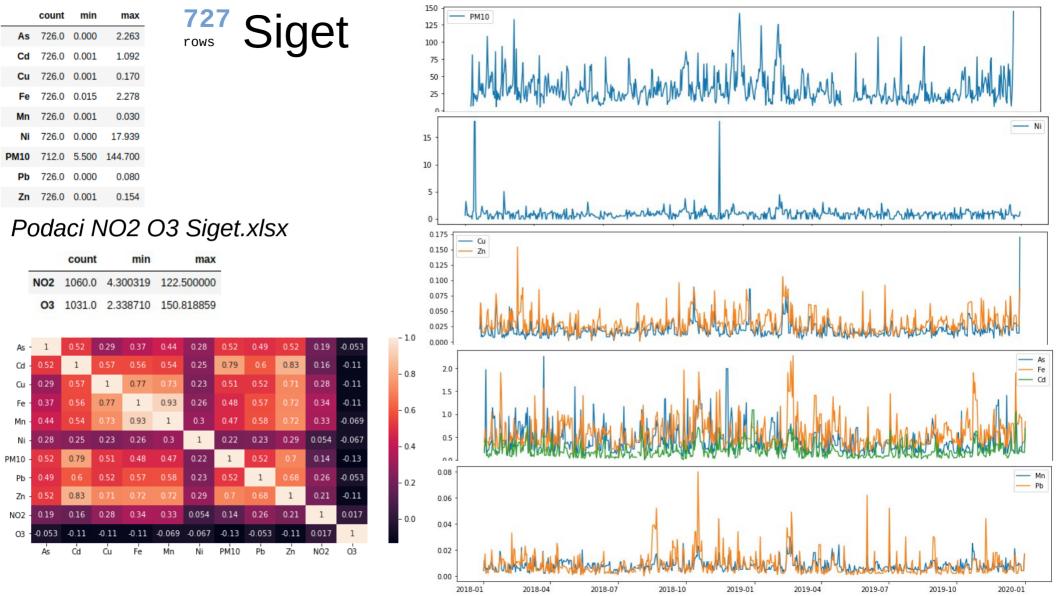
Super high correlation!

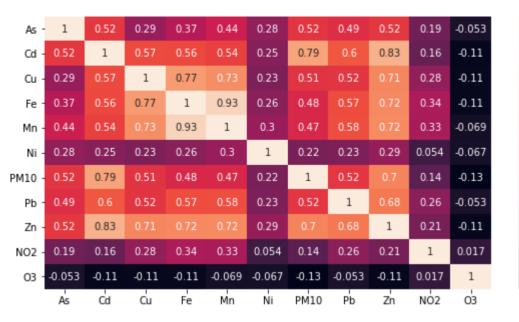
Siget

Podaci NO2 O3 Siget.xlsx

	count	min	max
NO2	1060.0	4.300319	122.500000
03	1031.0	2.338710	150.818859







Siget

- 1.0

- 0.8

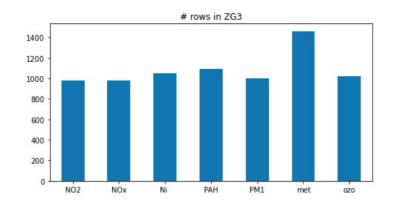
- 0.6

- 0.4

- 0.2

- 0.0

	2017	2018	2019	2020	#rows
NO2	(326, 1)	(327, 1)	(328, 1)	(0, 0)	981
NOx	(326, 1)	(327, 1)	(328, 1)	(0, 0)	981
Ni	(365, 1)	(351, 1)	(331, 1)	(0, 0)	1047
PAH	(365, 14)	(365, 14)	(365, 14)	(0, 0)	1095
PM1	(331, 1)	(348, 1)	(318, 1)	(0, 0)	997
met	(365, 9)	(365, 9)	(365, 9)	(366, 9)	1461
ozo	(340, 1)	(329, 1)	(350, 1)	(0, 0)	1019



3. ZG3

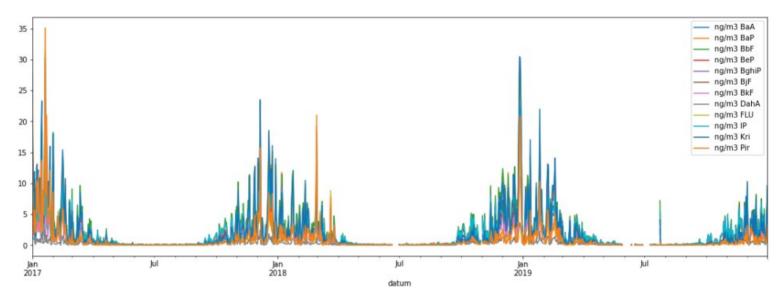
PAH_Zg3 2017_2018_2019.xlsx

	count	min	max
ng/m3 BaA	1051.0	0.002863	22.740006
ng/m3 BaP	1051.0	0.001690	29.792382
ng/m3 BbF	1051.0	0.009266	28.412315
ng/m3 BeP	365.0	0.013621	21.353057
ng/m3 BghiP	1051.0	0.009266	22.384598
ng/m3 BjF	686.0	0.002426	17.326464
ng/m3 BkF	1051.0	0.004852	11.092706
ng/m3 DahA	1051.0	0.000000	3.627907
ng/m3 FLU	1051.0	0.000000	31.291439
ng/m3 IP	1051.0	0.007158	22.280263
ng/m3 Kri	1051.0	0.007715	30.473466
ng/m3 Pir	1051.0	0.000000	35.103421

1095

rows

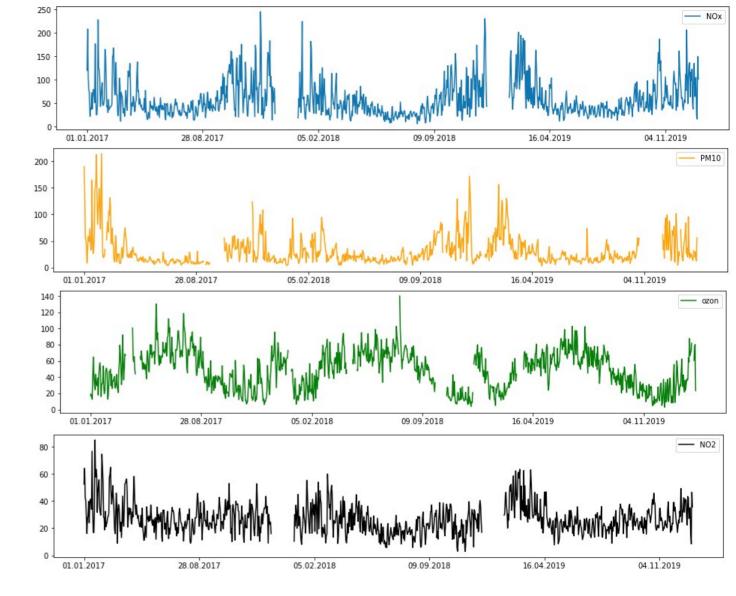
ZG3



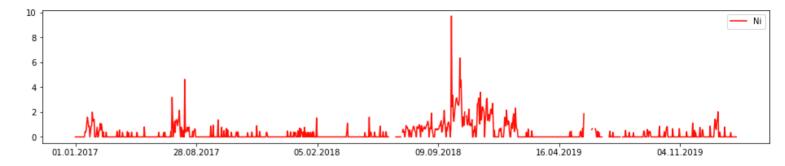
ZG3

	count	mean	min	max
NO2	981.0	26.990709	2.862	85.046
NOx	981.0	58.235622	5.965	245.526
Ni	1047.0	0.317181	0.000	9.729
PM10	997.0	31.093840	3.492	214.201
ozon	1019.0	48.058608	2.911	139.940

Incomplete data: many gaps

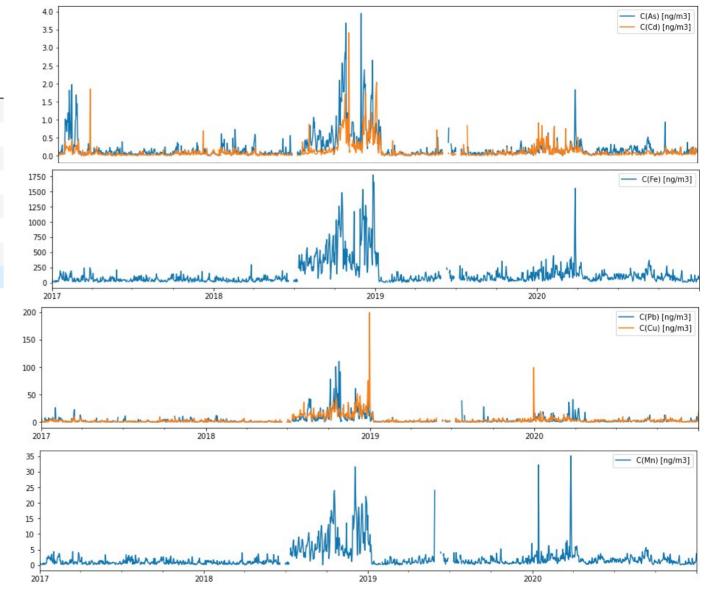


	count	mean	min	max
NO2	981.0	26.990709	2.862	85.046
NOx	981.0	58.235622	5.965	245.526
Ni	1047.0	0.317181	0.000	9.729
PM10	997.0	31.093840	3.492	214.201
ozon	1019.0	48.058608	2.911	139.940



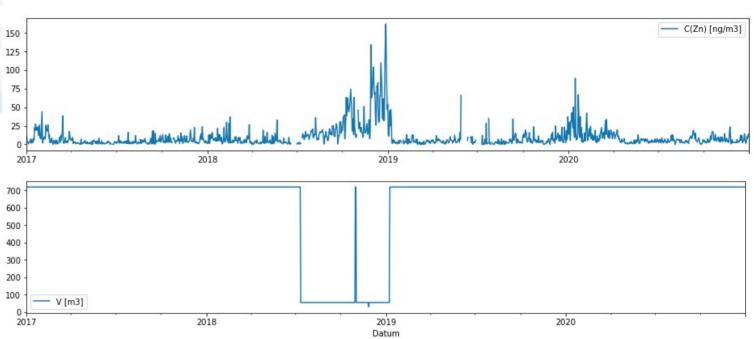
ZG3

	count	mean	min	max
V [m3]	1461.0	638.524066	30.380000	720.000000
C(As) [ng/m3]	1408.0	0.202894	0.002000	3.946300
C(Cd) [ng/m3]	1408.0	0.109996	0.000600	3.410452
C(Pb) [ng/m3]	1408.0	4.079849	0.020000	110.663833
C(Mn) [ng/m3]	1408.0	2.206155	0.080753	35.153316
C(Fe) [ng/m3]	1408.0	133.716974	4.213409	1775.940455
C(Cu) [ng/m3]	1408.0	4.322492	0.010361	199.466936
C(Zn) [ng/m3]	1408.0	9.367998	0.043000	162.055147



	count	mean	min	max
V [m3]	1461.0	638.524066	30.380000	720.000000
C(As) [ng/m3]	1408.0	0.202894	0.002000	3.946300
C(Cd) [ng/m3]	1408.0	0.109996	0.000600	3.410452
C(Pb) [ng/m3]	1408.0	4.079849	0.020000	110.663833
C(Mn) [ng/m3]	1408.0	2.206155	0.080753	35.153316
C(Fe) [ng/m3]	1408.0	133.716974	4.213409	1775.940455
C(Cu) [ng/m3]	1408.0	4.322492	0.010361	199.466936
C(Zn) [ng/m3]	1408.0	9.367998	0.043000	162.055147

ZG3



Questions

Thank you!