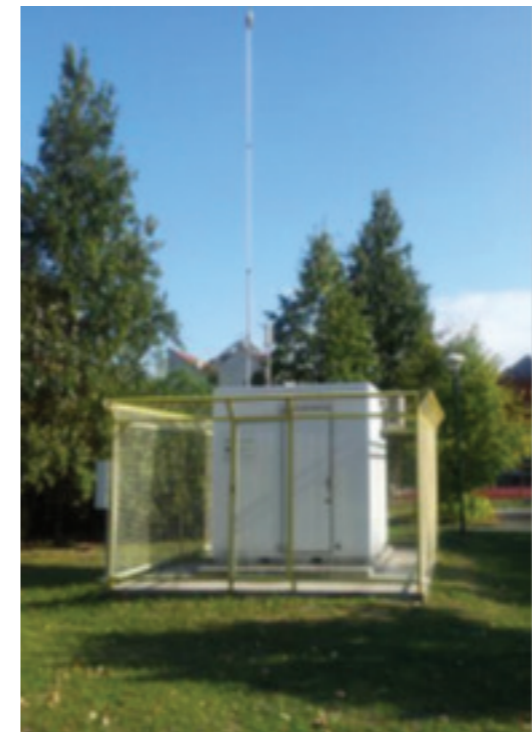


Air quality from monitoring to real-time data display

Milenko Jovanović, Jasmina Knežević, Biljana Jović, Lidija Marić Tanasković
 Ministry of Environmental Protection, Serbian Environmental Protection Agency
 Corresponding author: milenko.jovanovic@sepa.gov.rs

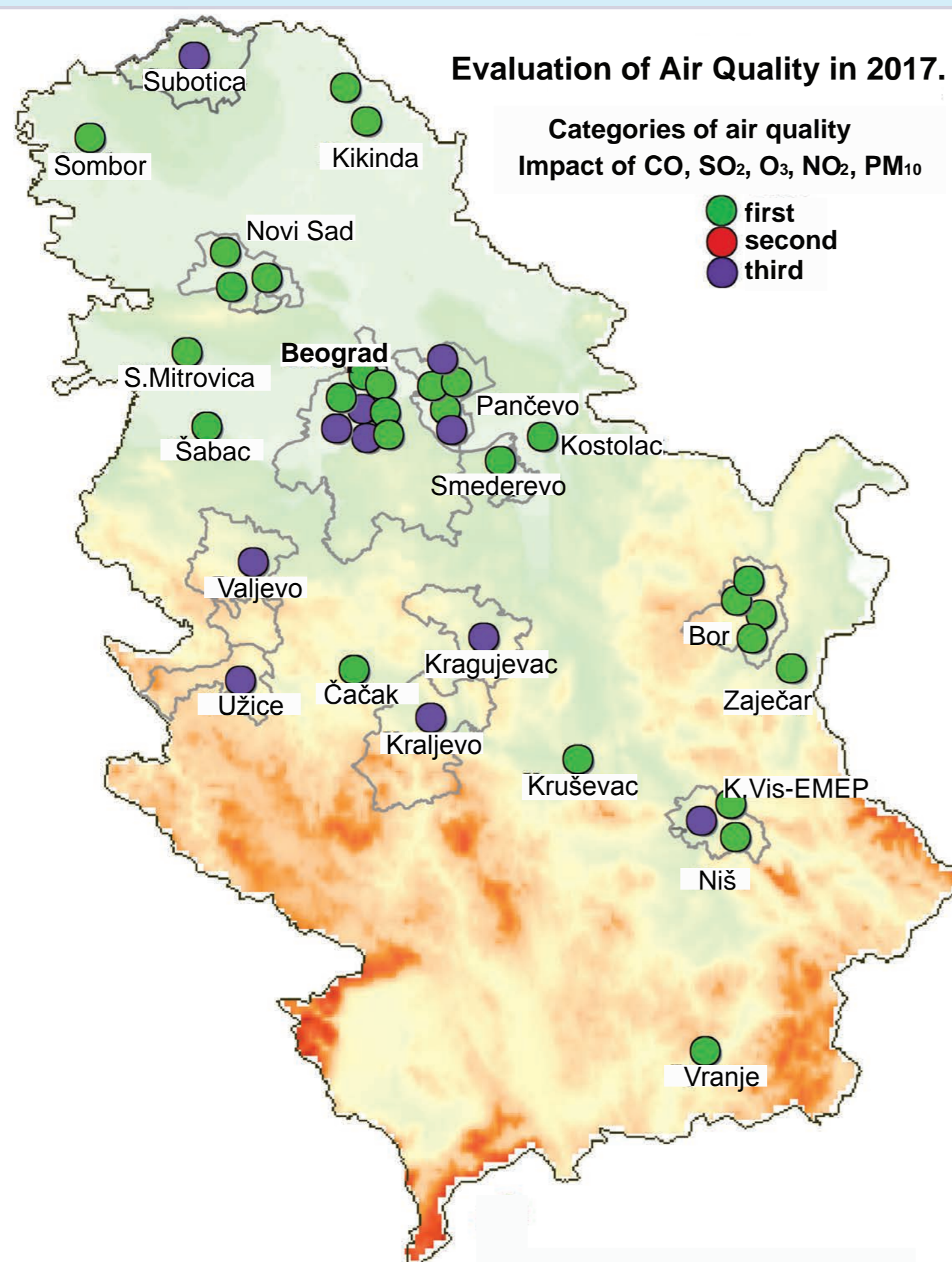
Introduction and context

During 2017 the Environmental Protection Agency has continued with continuous implementation of operational air quality monitoring in the national network for air quality monitoring in the Republic of Serbia. Results of automatic air quality monitoring in Serbia are presented in real time on SEPA's website. Also, SEPA is included in the European Up-to-date air quality data. (www.amskv.sepa.gov.rs)



Materials and approaches

Evaluation of air quality in 2017 was done based on annual concentrations of pollutants (SO₂, NO₂, PM₁₀, CO, O₃) obtained by air quality monitoring in the national and local networks.



		CATEGORIES OF AIR QUALITY							
		2010	2011	2012	2013	2014	2015	2016	2017
ZONE	SERBIA	II	I	I	I	I	I	I	I
	City Kragujevac					II	III	III	III
	City Kraljevo								III
	City Valjevo			III	III	III	III	III	III
Vojvodina		II	I	I	I	I	I	I	I
	City Sr. Mitrovica					II	III	III	I
	City Subotica							III	III
AGLOMERATION	Novi Sad	III	III	I	I	I	II	I	I
	Beograd	III	III	III	III	II	III	III	III
	Pančevo		III	III	I	I	III	I	III
	Smederevo		III	III	III	III			
	Bor	III	III	III	III	III	III	I	I
	Kosjerić		III	III	II	I			
	Užice		II	II	III	III	III	III	III
	Niš	III	III	II	I	I		I	III

Outcomes

In the most agglomerations during 2017 air was of the category III, i.e. over-polluted air, due to concentrations that exceeded limit value of suspended particles PM₁₀.

Transferability

“Measurement is the first step that leads to control and eventually to improvement. If you can't measure something, you can't understand it. If you can't understand it, you can't control it. If you can't control it, you can't improve it.” (J. Harrington)

Station/ Hourly Data 20.11.2018. 12:00

Stacija	SO ₂	NO ₂	NOx	NO	PM ₁₀ µg/m ³	PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	CO	O ₃
Kikinda Centar	10.5							0.33	22.9
Novi Sad Rumenačka	3.85	17.9	34.1	10.5	28.3		40.8	1.04	
Novi Sad Liman	7.3	10.4	14.7	2.83				0.32	31.2
Beočin Centar	7.83	3.01	13	2.84					
Sremska Mitrovica	10.4	32.5	67.2	22.8				0.84	
Pančevo Sodara	11.9	X	X	X				0.62	
Beograd Stari grad		28.8	38.8	8.87	48.1	13.4	42.2	0.52	22.2
Beograd Novi Beograd					43.4	9.12	43.4	0.30	17.8
Beograd Mostar	4.44	33.8	60.8	17.5				0.50	
Beograd Vračar	5.9	21.5	32.9	7.49				X	24.8
Beograd Zeleno brdo	11.4	14.2	21.1	4.52	X	X	X	0.55	34.3
Šabac	7.01	X	X	X				0.85	
Kostolac	12	X	X	X				0.23	
Smederevo Centar	31.3	24.3	73.9	32.8	123	15.4	114		
Obrenovac Centar	11.2	23.8	40.7	12.2	37.4	3.3	13.3	0.39	X
Smederevo Carina	X	28.5	123	32.5				0.53	
Valjevo	X	30.4	100	104	105	100	90.4	3.39	
Bor Brezonik									
Bor Gradski park	98.4				28.3	10	24.5		
Bor Institut RIM	574	118	212	8.23				0.31	
Kragujevac	5.53	14	21.4	4.8				0.74	
Kosjerić	5.23	37.9	108	45.5	61.5	10	62.6	2.03	4.84
Popovac	4.87	10.4	32.7	9.25	40.1	48.3	40.2	0.49	33.7

EUROPEAN AIR QUALITY PORTAL

