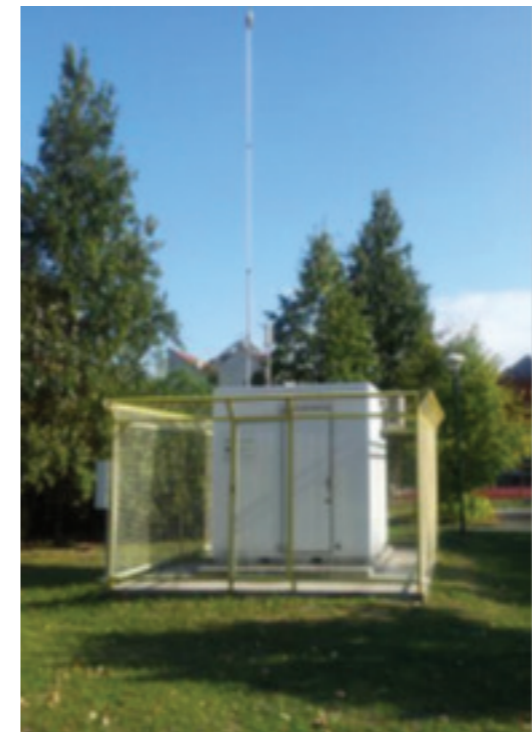


Air quality from monitoring to real-time data display

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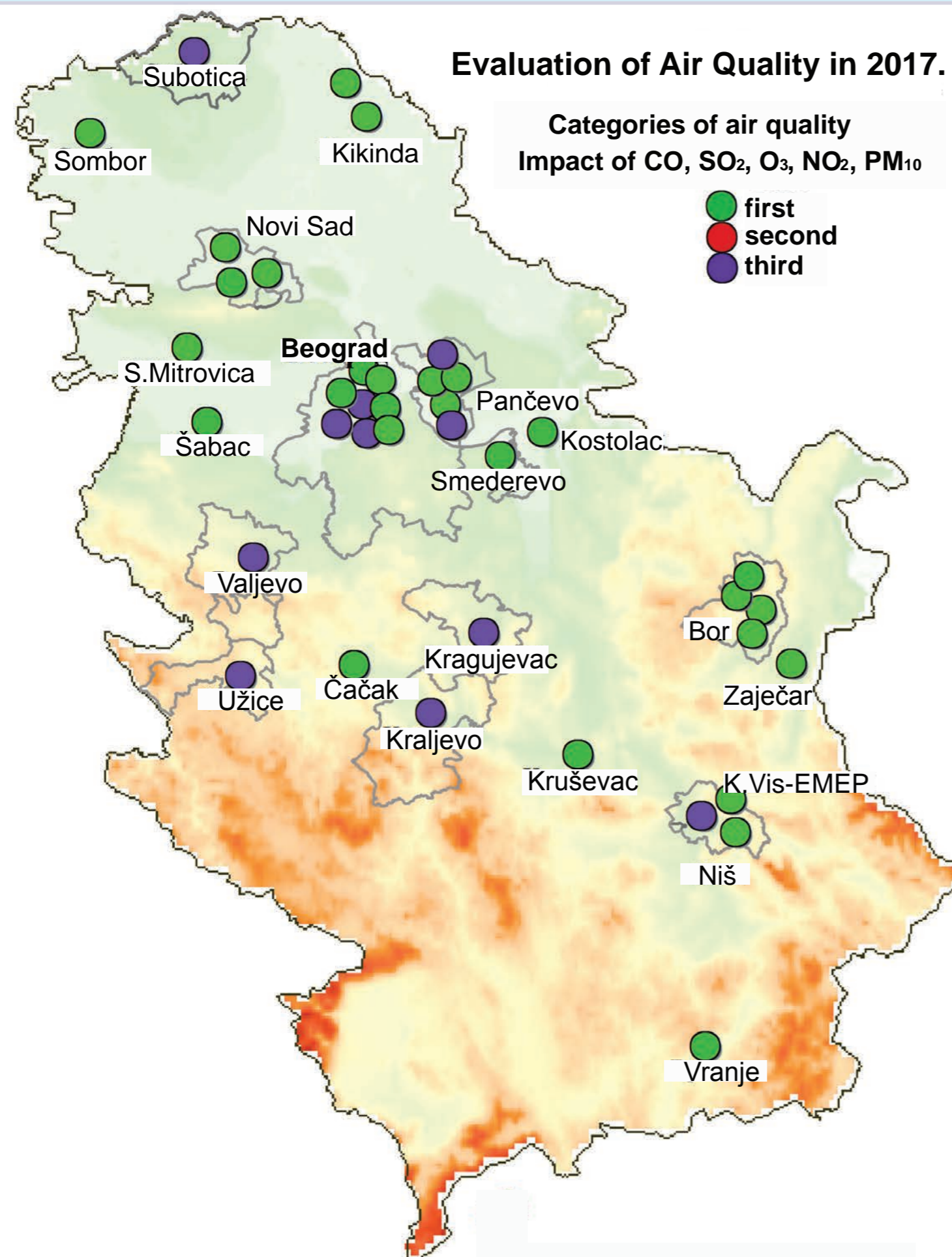
Introduction and context

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 | PM ₁₀ µg | PM _{2.5} µg | 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 | 41.2 | 10 | 82.8 | 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 HOME NEWS REPORTING TOOLBOX PRODUCTS TIPR MEETINGS IN TEST PHASE

