



Air quality monitoring in the City of Paris

ESA Webinar « Space for Twin Cities Air Quality » - 2020/11/19

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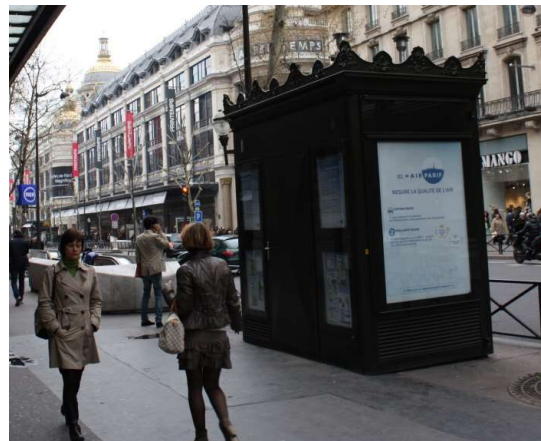
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01

**AIRPARIF, the regional association
dedicated to air quality monitoring**

La carte de France est divisée en 13 régions de l'ATMO, chacune représentée par une couleur distincte. Les régions sont : ATMO HAUTS-DE-FRANCE (rouge), ATMO NORMANDIE (orange), AIRPARIF (jaune), ATMO GRAND EST (vert clair), AIR BREIZH (bleu clair), AIR PAYS DE LA LOIRE (bleu), LIQ'AIR (bleu foncé), ATMO BOURGOGNE FRANCHE-COMTE (bleu très foncé), ATMO NOUVELLE-AQUITAINE (bleu très foncé), ATMO AUVERGNE - RHÔNE-ALPES (bleu très foncé), ATMO OCCITANIE (bleu très foncé), ATMO SUD (bleu très foncé), ATMO OUVANE (bleu très foncé), MADININAIR (bleu très foncé), ATMO MAYOTTE (bleu très foncé), ATMO REUNION (bleu très foncé), et QUALIT'AIR CORSE (bleu très foncé). Des légendes indiquent les départements et les communes.

AASQA (Official Agency for Air Quality Monitoring) network :
19 agencies in France : metropolitan regions and overseas
All created in 1970's



- 71 stations (58 automatic along traffic axis)
- 13 stations in Paris
- 100km radius from Paris = 11M unhabitants
- 65 employees (5 in 80's)
- 137 sensing equipments for campaigns

01 – AIRPARIF, the regional association dedicated to monitoring air quality



Measuring station



Modelization



Emissions inventory

Mobile equipments

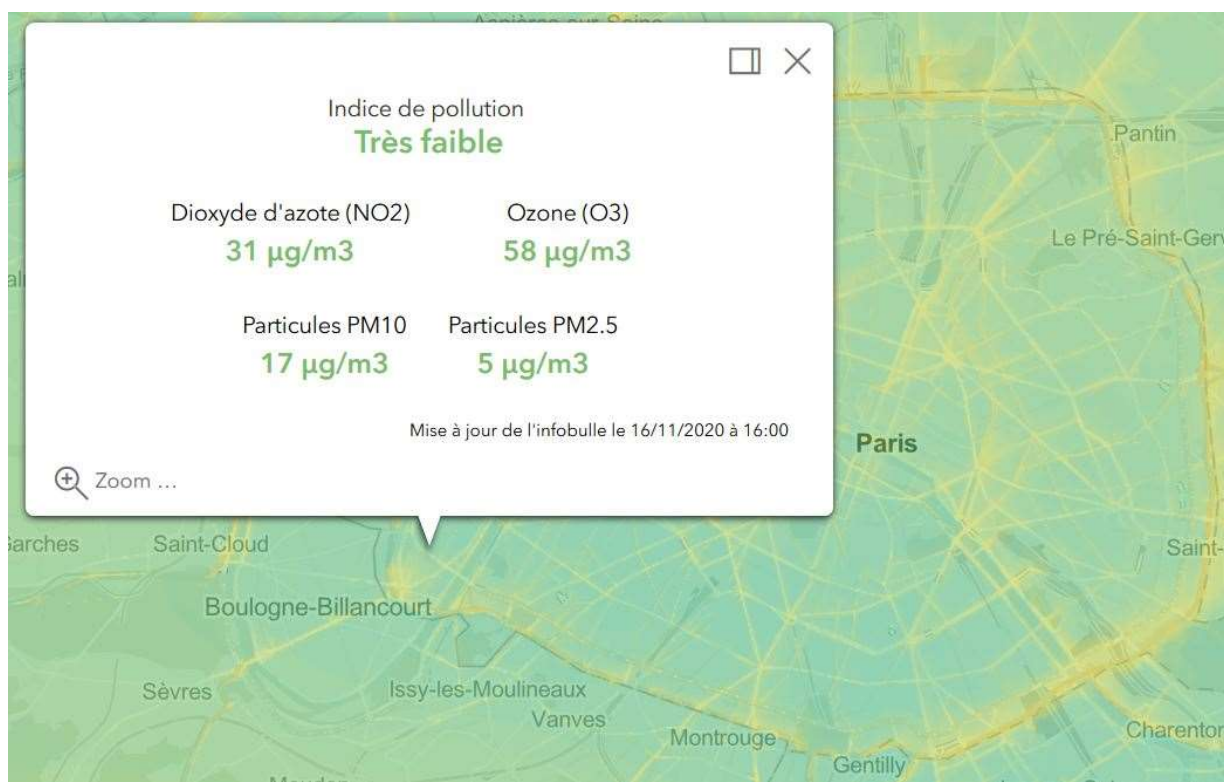


01 – AIRPARIF, the regional association dedicated to monitoring air quality



Widget in frontpage of www.paris.fr

Map of air pollution in real-time
Updated every hour
NO₂, O₃, PM₁₀, PM_{2.5}



Measures by city of Paris: SPSE (Parisian Service for Environmental Health)

Certificated measuring stations

Diagnostic before/after on urban planning

Outdoor air quality campaigns (Seine banks....)

Indoor air quality measurement

Pollens



02

Citizens and measure : parisian projects

02 – Citizens and measure : parisian projects

« Respirons mieux dans le 20^e » projet (Breathe better in the 20th district)

Project from « Budget participatif » voted by citizens
in 2017

Duration : 2018 to 2020

70 micro sensors lended

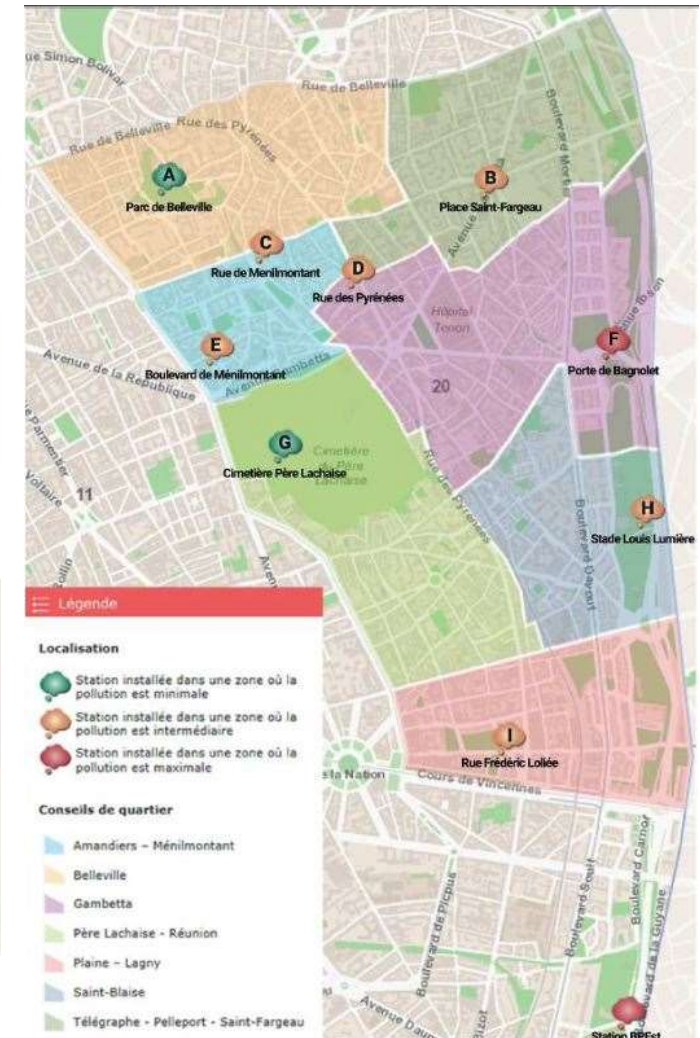
10 micro stations deployed by AIRPARIF

Citizens followed by city of Paris (organization, health
sensibilization), AIRPARIF, researchers, sociologist

Led to another project in 2019 « **Lutter contre toutes
les pollutions** » (Fight against all the pollution)

voted by 25 000 parisiens

All Paris concerned, air and noise pollution



03

**Assessment of a microsenors network
deployment in Paris : the Bloomberg
project**

03 – Assessment of a microsenors network deployment in Paris : the Bloomberg project

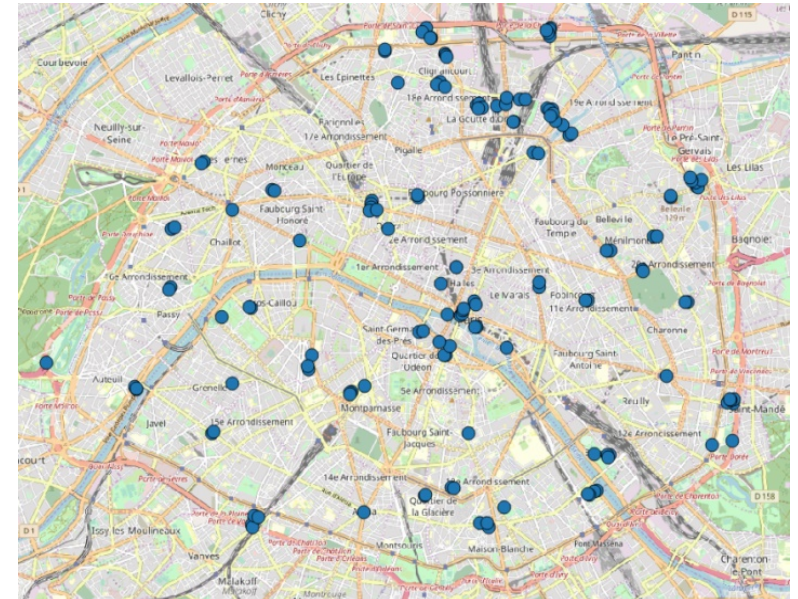
Collaboration with Bloomberg (funds)
Clarity (138 solar sensors deployed) and
Airparif

44 schools (playground and street)
equiped

Pollutants measured : NO₂, PM_{2.5}

Assessment : NO₂ passiv tubes placed
by AIRPARIF and city of Paris

Measures being checked,
Report soon to be published





Thank you for your attention