Global Urban Air Pollution Observatory (GUAPPO)
At the international summit “Cities for air” held in Paris in 2017, the Mayor of Paris and the President of the Greater Paris Metropolis launched the Global Urban Air Pollution Observatory GUAPO with the support of the World Health Organization.

Why create GUAPO?

GUAPO aims to build a platform to address the global, transboundary challenge of air pollution. Areas often documented separately are centralize and make accessible for an holistic approach on air quality:

- Air quality data
- Health impacts of pollution
- Mitigation measures taken locally

With the mission of promoting Local Governments as front-line actors in the fight for a better air quality.
City profiles are created using data collected through the repository developed by GUAPo and filled by Member Cities.
The equipment rate in Seoul has been increasing over the period 2003-2012, due to the combined effect of population decline and the rising number of registered passenger cars (304,374 additional vehicles over the period).

Furthermore, the road ratio (share of road area per urbanized area) has also slightly increased over the period, from 21.53% in 2004 to 22.24% in 2012.

This must be compared with the parallel increase of the sidewalk area (+25.5%) and bicycle paths (+21.6%), which indicate efforts on the part of local authorities to increase the share of soft mobility. The bicycle path to road ratio has thus been fluctuating from 6.1 in 2001 to 8.2 in 2012, with a peak in 2010 (total bicycle path length having been reduced since then).
The global platform for multilateral cooperation

Seoul

https://www.guapo-air.org/en/masque-de-saisie/seoul

Background data
Geographical context
Population
Mobility
Waste management
Other polluting activities

Air quality monitoring
Emissions inventory
Evolution of air pollutants concentrations
Measuring stations network
Organisation of monitoring
Pollution peaks

Actions implemented
Emissions reduction
Communication, awareness-raising and acceptability

Emissions by sources and pollutants, brought down to 100%

Emissions inventory for the inner city

Atmospheric pollutants emissions inventory for the city of Seoul, 2015. Source: Seoul Metropolitan Government

Emissions Inventory for the greater city
The global platform for multilateral cooperation

https://www.guapo-air.org/en/masque-de-saisie/seoul

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**Background data**

- Geographical context
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- Mobility
- Waste management
- Other polluting activities

**Air quality monitoring**

- Emissions inventory
- Evolution of air pollutants concentrations
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- Pollution peaks

**Actions implemented**

- Emissions reduction
- Communication, awareness-raising and acceptability

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### Emissions reduction

- **Construction sites and public works:**

  The construction sector is a major contributor to air pollution in Seoul. Local authorities have thus implemented a range of measures targeting the construction sector. In January 2018, local authorities adopted a general guideline providing that 70% of construction companies' equipment must be eco-friendly. They also enforced require that the environmental impact assessments carried out prior to construction include a segment on construction dust control.

- **Road traffic:**

  The city of Seoul has put in place a series of measures to reduce transport-related emissions: promotion of electric taxis, conversion of 100% of the bus fleet to natural gas, requirement to install emission control devices on diesel vehicles and scrapping premium for the most polluting vehicles.

  The authorities have also developed a transport demand management strategy to reduce the use of private cars and increase the use of public transport: carpooling incentives, flexible or staggered office hours, congestion charging around the Namsan Tower, parking space restrictions and fare increases... At the same time, the public transport network has been expanded and intensified.
GUAPPO’s Member-Cities

**Member-Cities**
- Paris
- Greater Paris Metropolis
- Seoul
- Abidjan
- Besançon
- London
- Madrid
- New-York
- Tokyo
- The Hague

**Candidates**
- Amritsar
- Beirut
- Sofia
- Ulaanbataar
- Valencia
Global cities network gathering partners to tackle air pollution

First range of interested partners

With 2 objectives

I- SHARE INFORMATION

II- PROMOTE SOLUTIONS
Centralize and make accessible data on air quality
• Up-to-date and curated information about technological innovations, regulatory developments and policies implemented at urban level
• Promoting concrete actions to strengthen air quality: communication campaigns, citizen initiatives, tax-based mechanisms...

Foster exchanges between Member cities
• Experience feedbacks and best practices sharing
• Capacity building and promotion of local partnerships

Technical support
• Provide cities with a pool of experts specialized in the various fields of air quality management and improvement
• Organize training programs and thematic workshops with cities facing similar issues
• Supporting cities to apply for loans or funds
Technical visits associated with trainings and expert meetings are offered to member cities wishing to strengthen their capacities in the field of air quality monitoring:

2019: West Africa
2020: East Asia and Eastern Europe
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2019: West Africa

2020: East Asia and Eastern Europe

Expertise mission in Fall 2019:
- Mapping of the existing monitoring network
- Training on maintenance and calibration on the monitoring devices

Workshop in Paris in December 2019 with West African cities:
- Mapping of knowledge and needs of the participating cities
- Presentation of the data available, research program and research gaps by the French and African academics
- Meeting with the stakeholders from the private sector with solutions for Air Quality improvement
- Definition of new partnerships and work programs
Technical visits associated with trainings and expert meetings are offered to member cities wishing to strengthen their capacities in the field of air quality monitoring:

2019: West Africa
2020: East Asia and Eastern Europe

Workshop with Eastern Europe cities facing similar issues on coal and wood burning and old vehicles fleet?
→ Could be organize in 2020 with Sofia as a key Partner

Workshop with East Asia countries facing similar issues with high populated cities, quick development and high transboundary pollution
→ Could be organize in 2020 with Seoul and/or Tokyo as key Partners
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