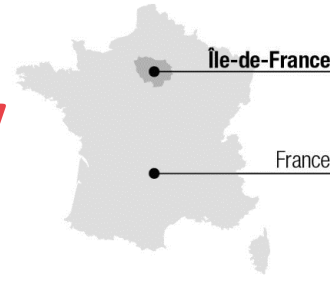




**BRUITPARIF**

Région  
**Île-de-France**



# The noise observatory in Île-de-France

*For a quieter environment*

## A non-profit association

- Created in 2004 by the Île-de-France regional council
- A **balanced governance**, which gathers a **hundred members** representing the various stakeholders concerned by noise: **local authorities, French State, economic actors and associations.**

## A major objective

To contribute to improving the sound environment in Île-de-France.



## Observation contexts

- Urban areas with multiple noise exposure
- Proximity of land transport infrastructures
- Overflown areas
- Neighborhood of industrial activities or major construction sites
- Recreational and lively districts
- Quiet areas.

## Missions of general interest

- To **observe** the noise in the environment
- To **improve the knowledge** about noise and its impacts
- To **support** public policies
- To **raise awareness** about the sound environment preservation, the risks associated with noise exposure and to promote best practices.

## An expertise recognised in France and abroad

- **Numerous collaborations and partnerships**
- **Several awards**
  - . 3 « **Décibels d'Or\*** » awards for Bruitparif's technological innovations(2016, 2019 et 2024)
  - . « **Best Life Environment project\*\*** » award for the *Harmonica project* (2015)
  - . Bruitparif named in the **Guinness World Records** (2022) for the world's largest urban noise monitoring network.



## A commercial subsidiary

Offering to international markets the innovations developed by Bruitparif

- Expert noise measurement sensors
- Noise radars for educational or law enforcement purposes
- Solutions to help managing environmental noise.

**viginoiz**

Société par actions simplifiées, Capital : 200 000 €

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[www.viginoiz.com](http://www.viginoiz.com)

\* Awarded by the French National Noise Council

\*\* Awarded by the European Commission under the LIFE program

# Observing

## Characterizing the noise environment and monitoring trends

### MEASUREMENT

#### The « RUMEUR » monitoring network

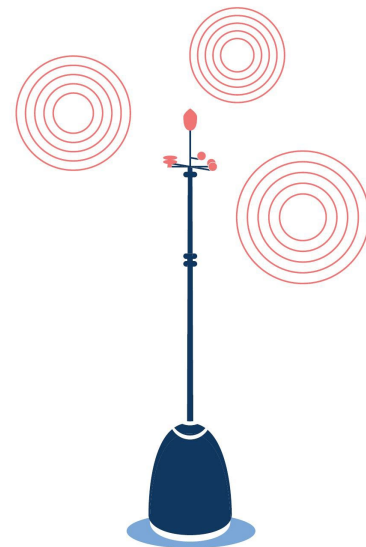
- The world's **largest urban noise monitoring network**
- Around **200 permanent** noise measurement **stations**
- Numerous **short-term measurement campaigns**
- An **internet platform providing data in real time**
- **Statistics and indicators** to monitor trends.

#### Thematic observatories

##### Direct and contextualized access to data on a specific issue

- Air traffic ([survol.bruitparif.fr](http://survol.bruitparif.fr))
- Rail traffic ([reseau.sncf.bruitparif.fr](http://reseau.sncf.bruitparif.fr))
- Recreational and lively districts ([monquartier.bruitparif.fr](http://monquartier.bruitparif.fr))
- Construction sites (for example: [chantiers.sgp.bruitparif.fr](http://chantiers.sgp.bruitparif.fr))
- Urban planning operations (for example: [alleesdeneuilly.bruitparif.fr](http://alleesdeneuilly.bruitparif.fr)).

[rumeur.bruitparif.fr](http://rumeur.bruitparif.fr)

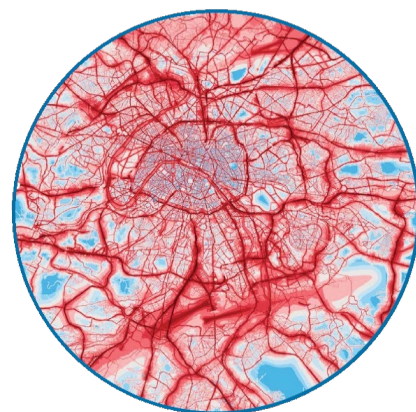


### MODELLING

#### Producing the strategic noise maps

- Compliance with the **European Directive 2002/49/CE**
- For **14 agglomerations** with more than 100,000 inhabitants
- A territory covering more than **3,000 km<sup>2</sup>** and counting more than **10.5 millions inhabitants**
- An **internet platform providing** all maps and population exposure statistics at local level.

[carto.bruitparif.fr](http://carto.bruitparif.fr)



#### Pilot projects

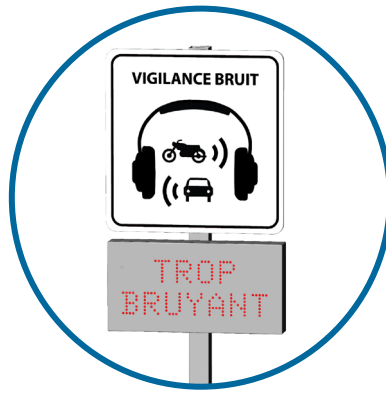
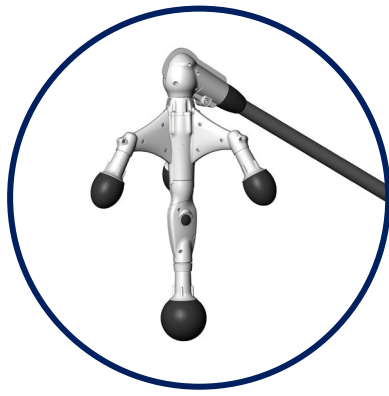
- **First maps of the health impacts of transport noise**
- **Noise mapping of night-time recreational activities in lively areas**  
A pilot experiment carried out with the Municipality of Paris (Central districts)
- **Representation of co-exposure to air and noise pollutions**  
A collaborative development with Airparif, the air quality observatory for the Ile-de-France region
- **Real-time dynamic mapping of road noise**  
A first application on the Paris ring-road, in collaboration with the Municipality of Paris.

### SURVEYS



#### Surveys of residents and users

Carried out periodically, they enable to **take into account perceptions** of situations experienced in order to better target monitoring and actions to be taken.



## INNOVATING IN MEASUREMENT TECHNOLOGIES

Bruitparif innovates to improve its measurement methods and develop noise management tools

- The « **Medusa** » sensor makes it possible to “ see ” noise and its origin. This patented device determines the sound level, but above all the main direction of noise sources
- The **educational noise radar** is designed to provide simple, operational information to drivers whose vehicles emit excessive noise, similar to what already exists with speed radars
- The « **Hydra** » noise radar is designed to control and fine excessively noisy vehicles. It is currently being tested in France and several other European countries.

## Improving knowledge

*Enhancing understanding on noise and its health and socio-economic effects*

### Participation to applied research projects

- Development and experiment of **new indicators**
  - . The **Harmonica index**, a noise index easy to understand by the general public, developed as part of the LIFE Harmonica project
  - . Co-construction, with residents, of an air traffic noise indicator (**noise point counter**), as part of the **COGEN’AIR** study, led by Bruitparif and supported by ANSES\*
- Study on the **social cost of noise**
- Contribution to works on **territorial inequalities in environmental health**
- Participation to **scientific studies on noise and health**
  - . **DEBATS** program (health effects of aircraft noise), coordinated by Gustave Eiffel University (UMRESSTE)\*\*
  - . **BROUHAHA** project (exposure to transport noise and risk of cardio-metabolic diseases), coordinated by INSERM\*\*
  - . **SOMNIBRUIT** study (noise impacts on the sleep of people living in the Île-de-France region), coordinated by Bruitparif and supported by the Health Data Hub\* & the Green Data for Health\*
  - . **GENIFER** study (improve knowledge of instantaneous noise annoyance railway), coordinated by Bruitparif and supported by ANSES\*.



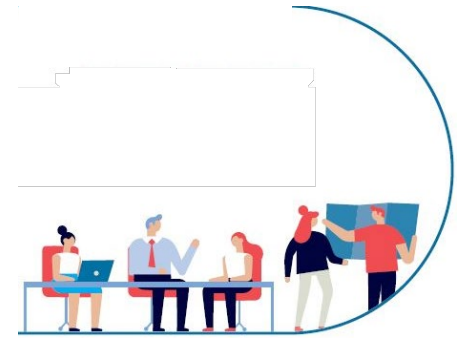
\* French health and/or environmental agencies

\*\* French Research institutes

## Acting for public policies that integrate noise management

### Implementing the European Environmental Noise Directive

- **Prioritization** of territorial noise issues: acoustic diagnosis, identification of quiet areas...
- Supporting public authorities in drawing up their **action plans** (PPBE for « *Plans de Prévention du bruit dans l'environnement* »)
- **Monitoring and promoting** actions taken to combat noise
- **An internet platform** to provide access to all published action plans in the Île-de-France region.



### Contributing to consider noise in public policies

- Participation to the **French National Noise Council\*** and working groups on regulatory evolutions
- Promotion of noise management in **urban planning and public health policies**
- **Information and training** for elected members and public services on noise management actions
- Evaluation and promotion of **noise abatement solutions**  
LIFE *Harmonica*, *Quadmap* et *Cool & Low Noise Asphalt* projects...



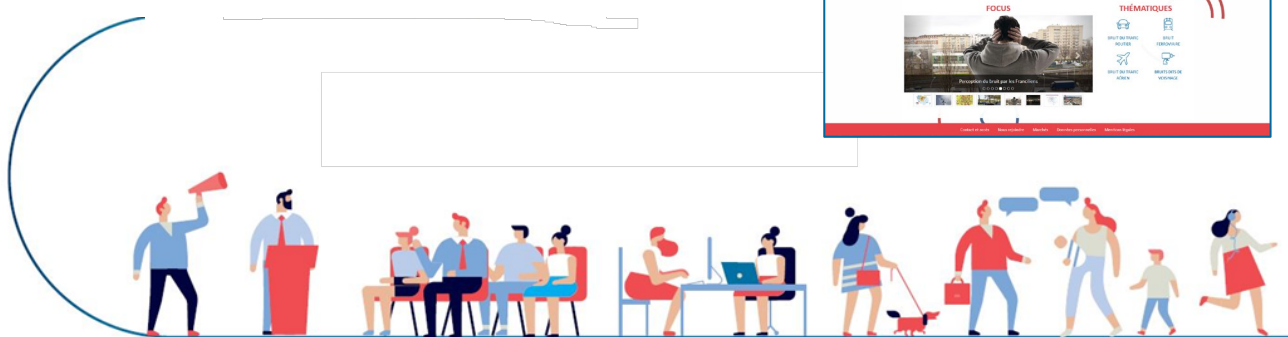
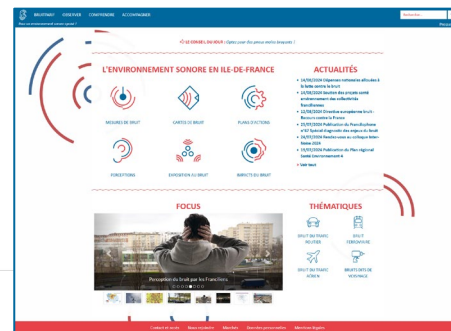
# Raising awareness

## Providing information on environmental noise issues and encouraging best practices

### A website for everyone

« Le Francilophone », a reference magazine

### Public interventions



\* Advisory body on noise abatement policy, reporting to the French Minister for the Environment