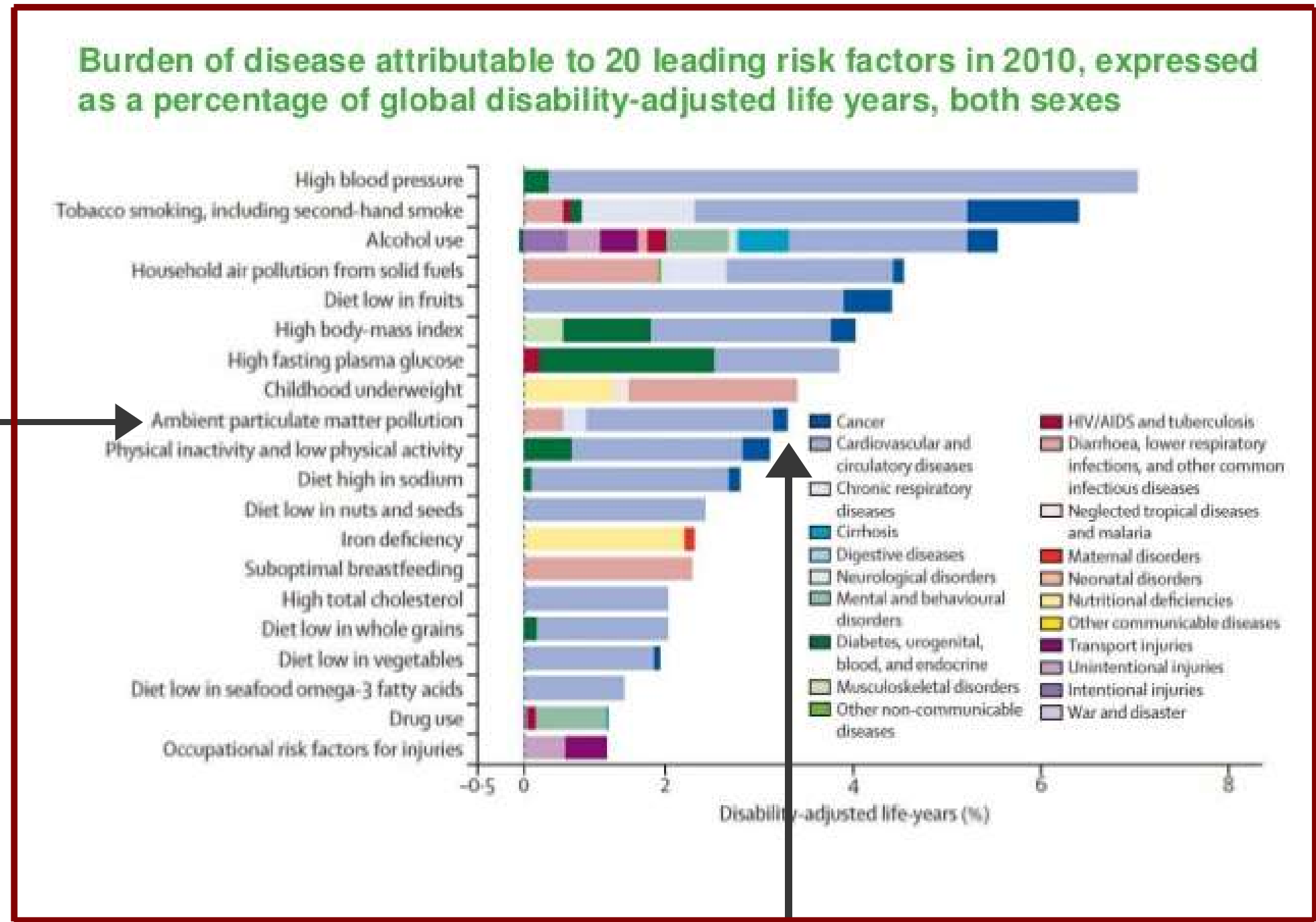


# AIR QUALITY : A MAJOR HEALTH AND CLIMATIC ISSUE

# 1

**In the world,** air pollution is the **9th cause of early death.**

**Outdoor air pollution by PM (particulate matter)**



**Le Figaro**, March 3, 2020

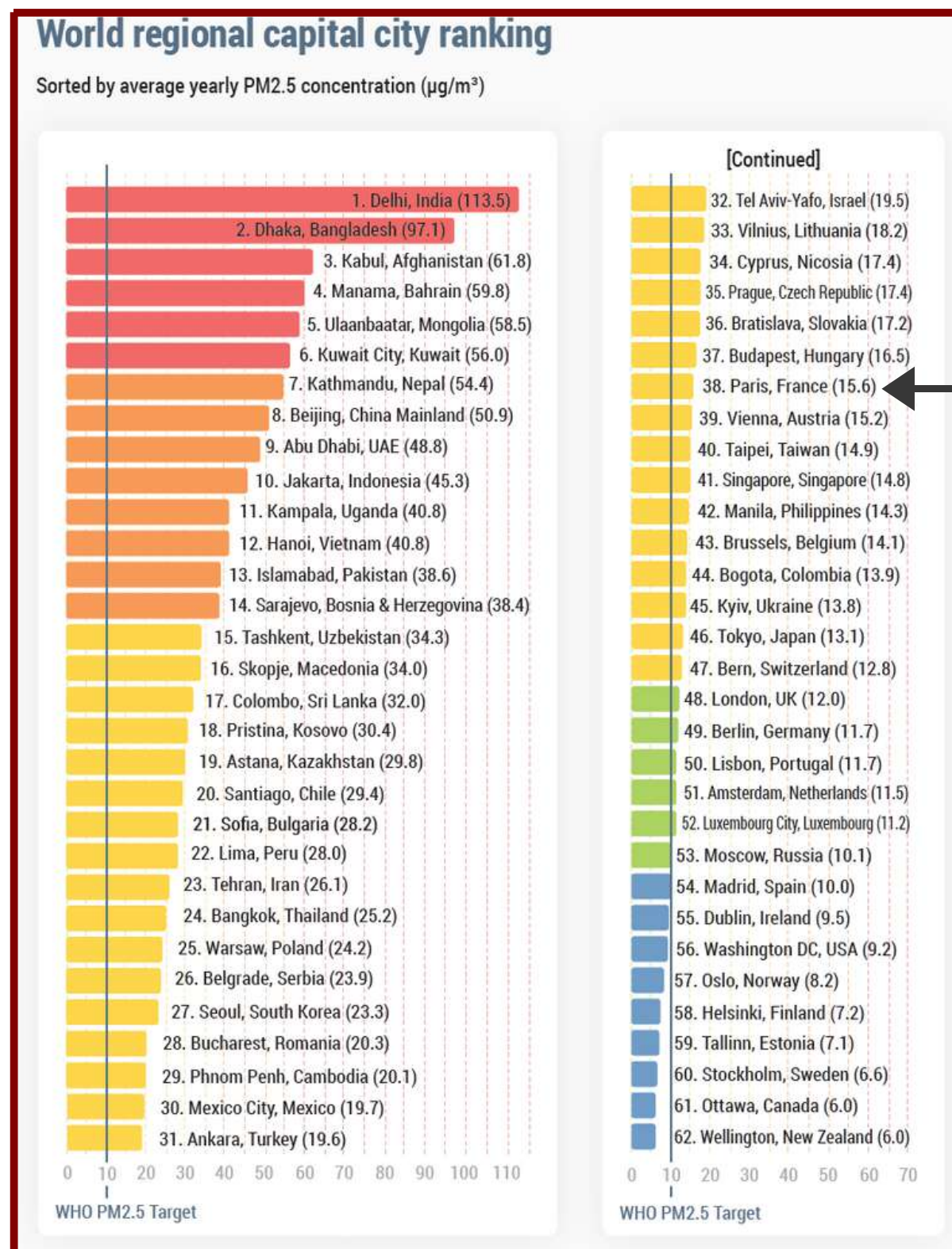
**“Air pollution reduces life expectancy by 3 years“**

<https://bit.ly/3dkZkPH>

**About 3 years less life for all of Humanity**

# 2.

**Globally**, the majority of large cities are affected.



**Paris is the 38th most polluted regional capital in the world in PM**

Source : IQAir

# 3.

**Globally**, air pollution and climate change are closely linked and share common solutions.

**Fighting for better air quality also means fighting global warming.**

**Burning fossil fuels and biomass accounts for 85% of global air pollution**



## THE LANCET

**Air pollution and climate change are closely linked and share common solutions.**

Fossil fuel combustion in higher-income countries and the burning of biomass in lower-income countries accounts for 85 percent of airborne particulate pollution.

Source : The Lancet

# 4.

**In France**, air pollution is the second cause of avoidable mortality.

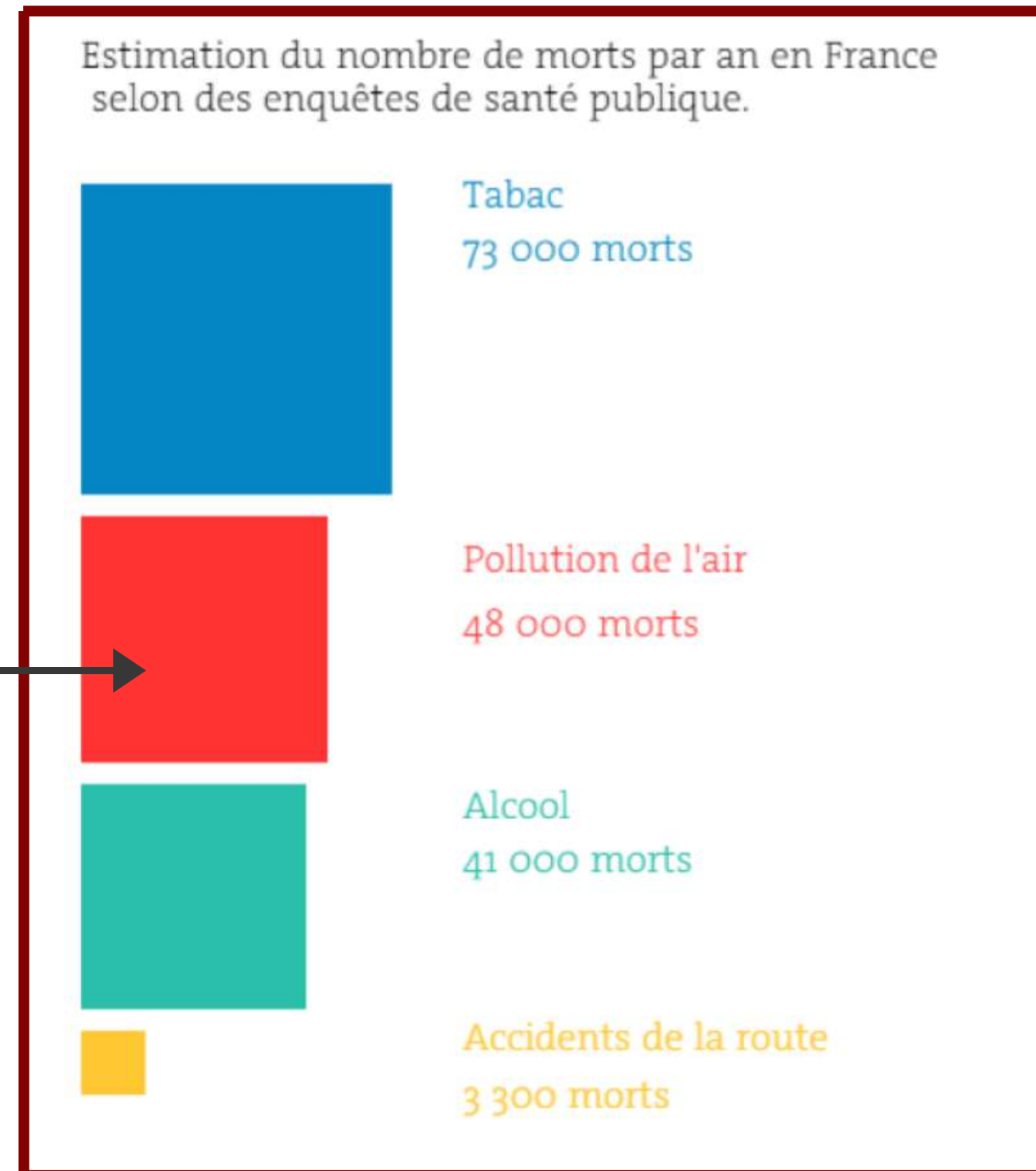
**III Pollutions** **Le Monde**, June 20, 2016

**“Air pollution is responsible for 9% of mortality in France”**

A study by Public Health France, published on Tuesday June 21, estimates that pollution with fine particles causes 48,000 premature deaths in France.

<https://bit.ly/3dog74E>

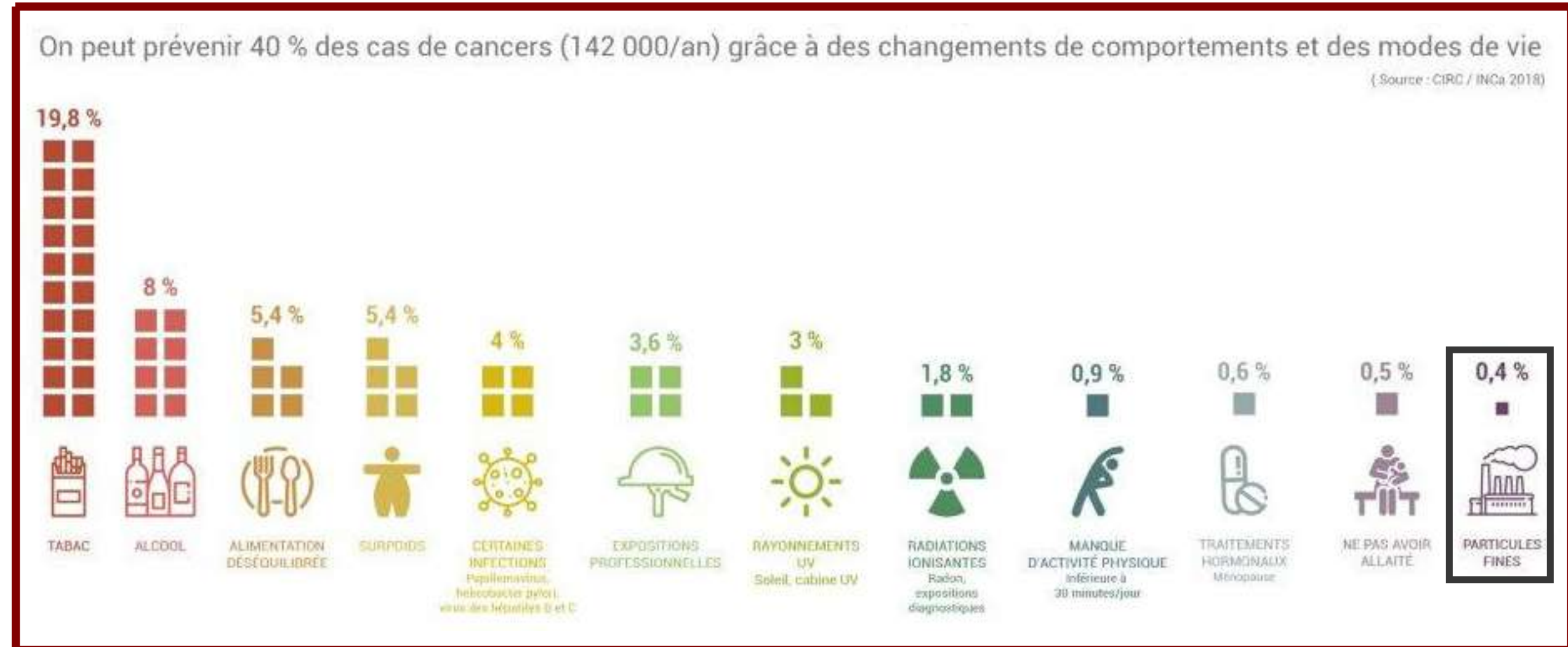
**Air pollution causes 48,000 premature deaths in France each year, or 9% of mortality \***





# 5.

**In France,** in the causes of cancer, air pollution is the only one that uniformly impacts the entire population.

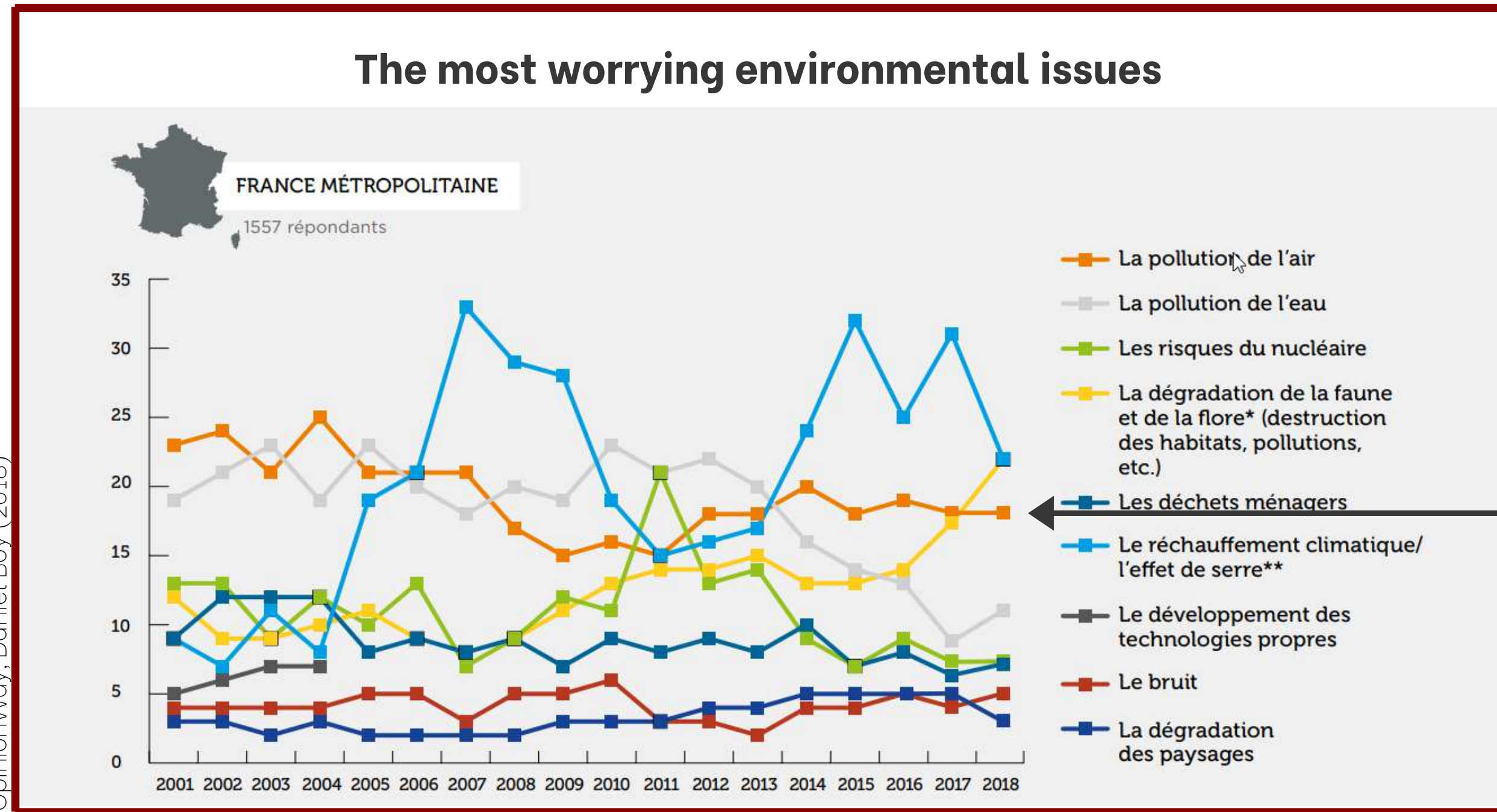


Source : CIRC, INCa 2018

# 6

**In France**, air pollution is one of the top 3 most worrying environmental problems, with global warming and the degradation of biodiversity.

Source: ADEME, "Social representations of climate change", GLS-OpinionWay, Daniel Boy (2018)



air pollution

# 7

**In Europe**, containment is said to have saved 11,000 deaths a month by reducing air pollution.

*Le Monde* **Le Monde**, May 6, 2020

**“It would be unacceptable to emerge from the covid-19 crisis tomorrow to die from air pollution.”**

<https://bit.ly/2WmRpMn>

**Call from the Alliance of French Local Authorities for air quality:** Paris, Lille, Strasbourg, Grenoble, Metz ...

*Le Monde* **Le Monde**, April 29, 2020

**“By reducing air pollution, containment would have saved 11,000 deaths in Europe”**

<https://bit.ly/2W9Hb1G>



# 8

**The GENERALI balloon of Paris**, a unique tool for raising awareness on air quality. **The result of a unique partnership** between the City of Paris, Generali, CNRS, Airparif and Aerophile.



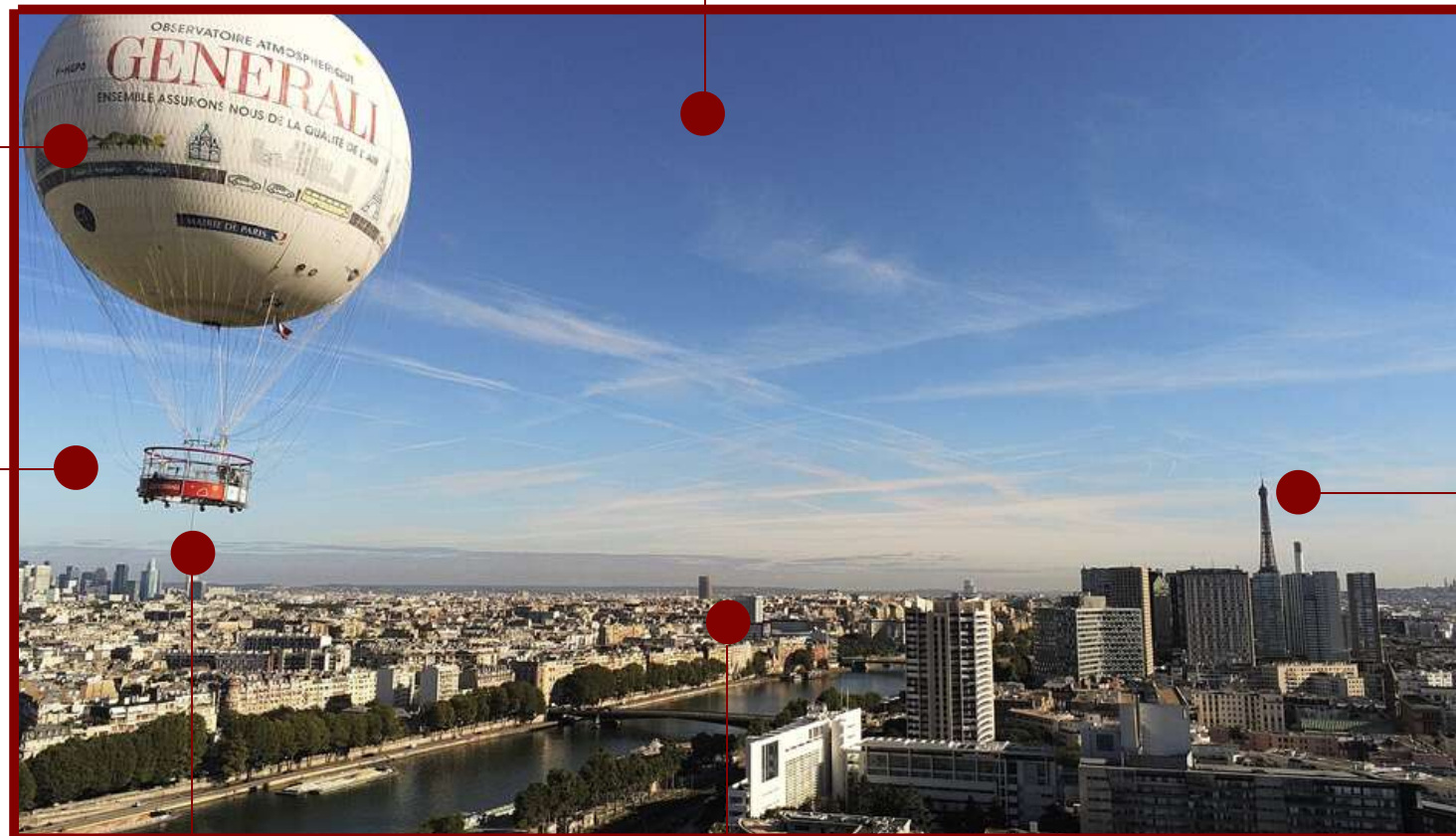
Generali is the sponsor and benefits from public visibility and recognition for its civic commitment.



The public flies aboard a balloon operated and built by Aerophile, and discovers their city from an incomparable point of view, learning also on major issues air quality. Journalists use the balloon as a visible symbol of the fight for a better air.



The CNRS is doing unique research thanks to this flying laboratory obtaining new and unique datas on atmospheric behavior.



The City provides an ideal location to collect real-time information on air quality and shows its citizens that the city is committed to this fight.



Airparif is in charge of monitoring and providing information on air quality. Their indices are broadcasting in real time by balloon lighting.



Thanks to France Télévisions, information on air quality is widely broadcasted by the most popular television channel in Ile-de-France, France 3.

# 9

The **GENERALI balloon of Paris** measures air quality from 0 to 300 meters above sea level using three devices attached to its gondola.

LISA, a CNRS laboratory, is conducting many balloon experiments and has notably installed this device which measures ozone continuously.



The LOAC, a unique instrument of its kind developed by the LPC2E laboratory of the CNRS, is equipped with a pump which sucks in the air and a laser which projects the dust thus collected, in order to count them and better understand their typology.



This instrument was developed as part of President Macron's "Make the planet great again" program. It measures the main pollutants: nitrogen dioxide, nitrogen monoxide, ozone and fine particles.



**THANK YOU FOR YOUR ATTENTION !**

**AEROPHILE**

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