#### **AMBIENT AIR POLLUTION:**

Report available at: www.santepubliquefrance.fr

## CHALLENGES FOR PUBLIC HEALTH TODAY AND LEARNINGS FROM THE SPRING 2020 LOCKDOWN IN FRANCE

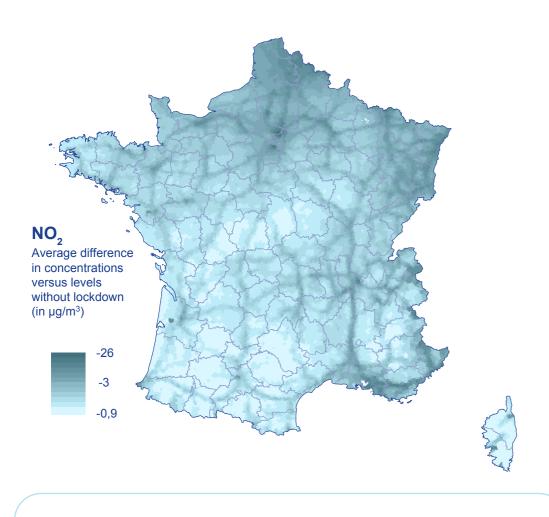
Source: Santé publique France, report and executive summary: Impact of ambient air pollution on mortality in metropolitan France associated with Spring 2020 lockdown, and new data on total burden for 2016-2019

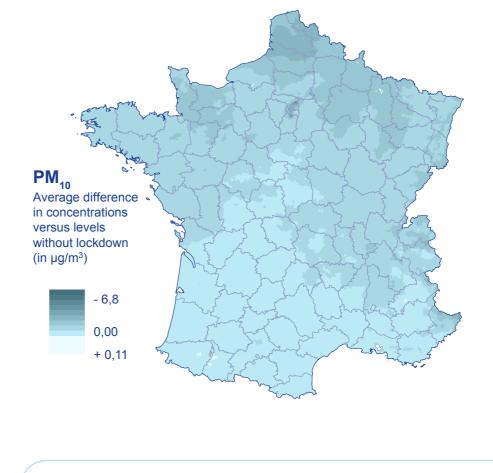


Decreases in ambient-air pollution and associated mortality were observed during the first French lockdown in Spring 2020.

The decrease was primarily related to a **fall in concentrations of nitrogen oxides** (including NO<sub>2</sub>), mainly from road traffic.

**Decreases are smaller for particulate matter** (PM) coming from multiple emission
sources. Even if the lockdown reduced industrial
and vehicular emissions, it had little if any effect
on sources such as heating and springtime farm
spraying.





### 1200

estimated lives saved associated with decreased exposure of the population to nitrogen dioxide (NO<sub>2</sub>) during the first lockdown

#### 2300

estimated lives saved associated with decreased exposure of the population to  $PM_{10}$  and  $PM_{2.5}$  particles during the first lockdown

Source for map data: ADMIN-EXPRESS - Ign, 2018; Ineris, Chimère, données redressées tenant compte de la réduction des émissions pendant le confinement (data adjusted for emission reductions during the lockdown)

In the long term, mortality associated with ambient air pollution remains a significant risk factor in France, hence the need to continue efforts to reduce all sources of air pollution

For the years 2016-2019:

### **40000** deaths

each year among persons 30 years and over attributable to exposure to fine particulate matter ( $PM_{2.5}$ )

### **Nearly 8 months**

of average life expectancy lost among persons 30 years and over attributable to exposure to PM<sub>2.5</sub>

### 7%

of total annual mortality among persons 30 years and over attributable to exposure to PM<sub>2.5</sub>

# The Spring 2020 lockdown: an exceptional situation with learnings for long-term action



Other actions that can help lower air pollution include:

- Improvements in **wood heating** (use of higher quality equipment, higher quality fuel, etc.)





- **Thermal renovation** of housing

- **Improvements in farming practices** to reduce ammonia emissions



increasing: teleworking, travel modes, other

