



RÉPUBLIQUE
FRANÇAISE

*Liberté
Égalité
Fraternité*



*maîtriser le risque
pour un développement durable*

To what extent are air quality limits and guidelines met in France?

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Analyses by Elsa Real, Blandine Raux, Alicia Gressent, Augustin Colette

1. Revision of the NAPCP

French NAPCP: PREPA

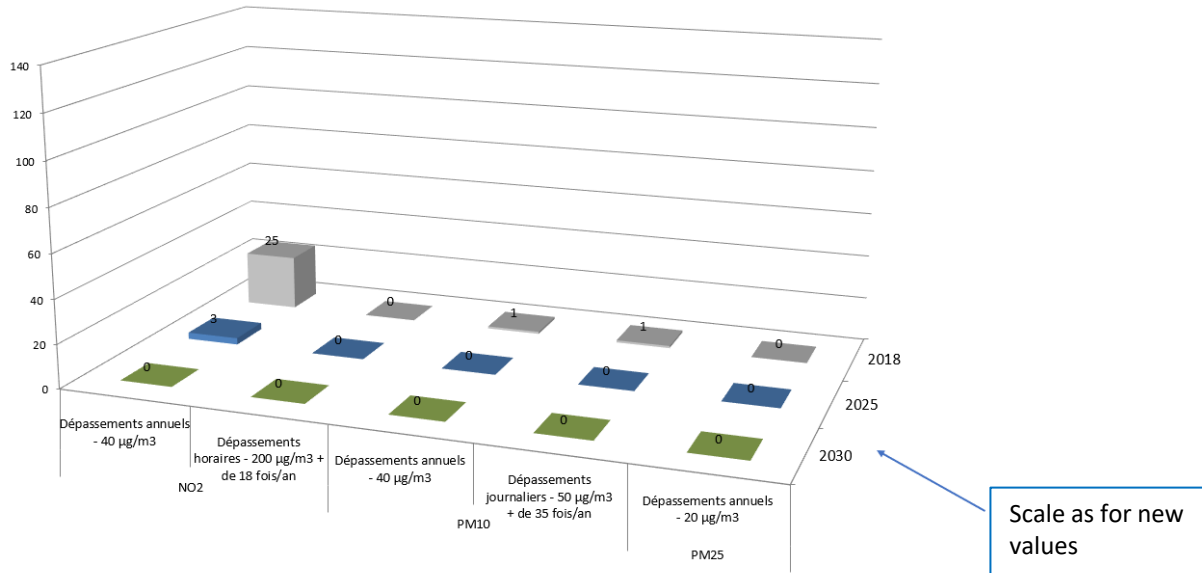
Plan national de réduction des émissions de polluants atmosphériques

- The revision called “PREPA 2021” is set up for the period 2022-2025
- Emission scenarios developed by CITEPA adopted on 8 December 2022
 - With existing measures: measures adopted by 21 December 2019
 - With additional measures
- New measures for 2022-2025 published on 16 December 2023
- Analysis of air quality impacts, possible exceedance of air quality values and health and environment impacts by Ineris ongoing
 - WEM scenario analysed for AQ impacts
 - WAM analysis is ongoing

2. AAQD – analysis with « current measures scenario » of the NAPCP

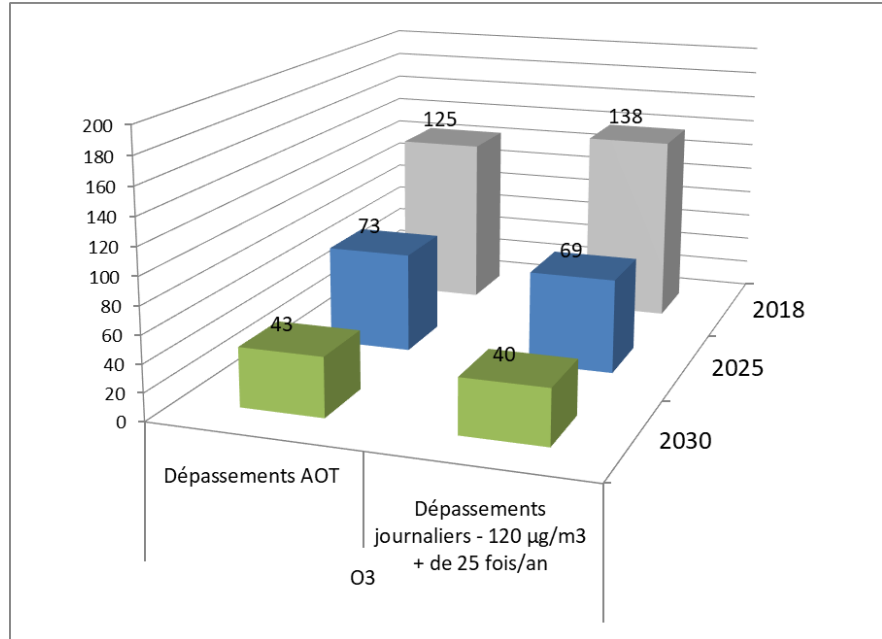
Respect of current AQD values

Exceedance of limit values for PM and NO₂



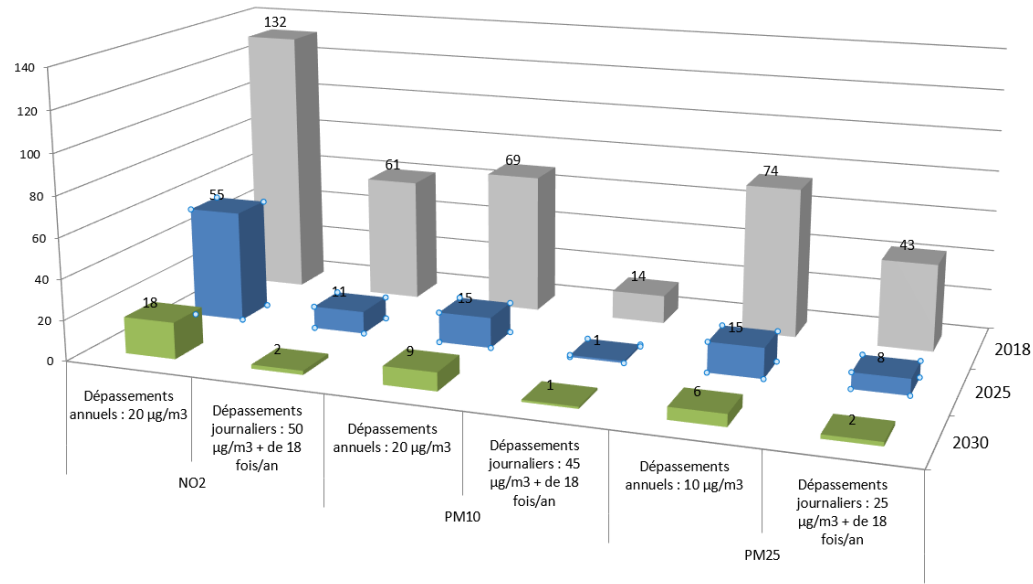
Respect of current AQD values

Exceedance of target values for O₃



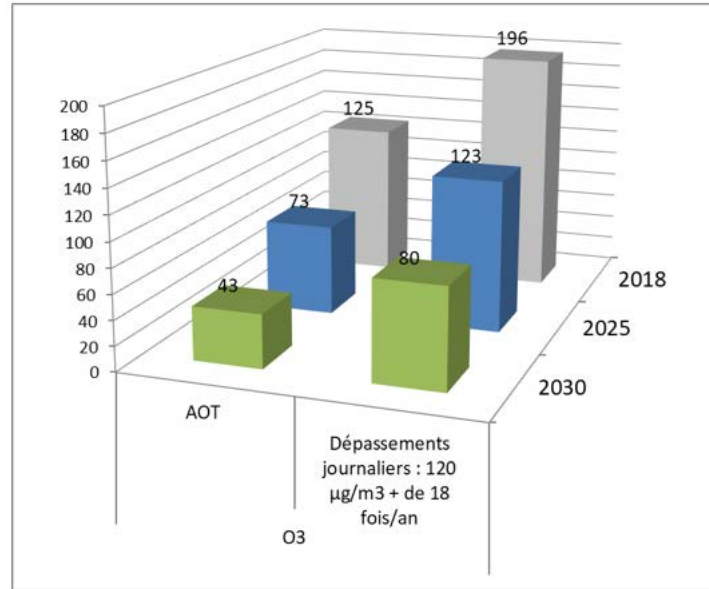
Respect of new AQD values

Exceedance of limit values for PM and NO₂



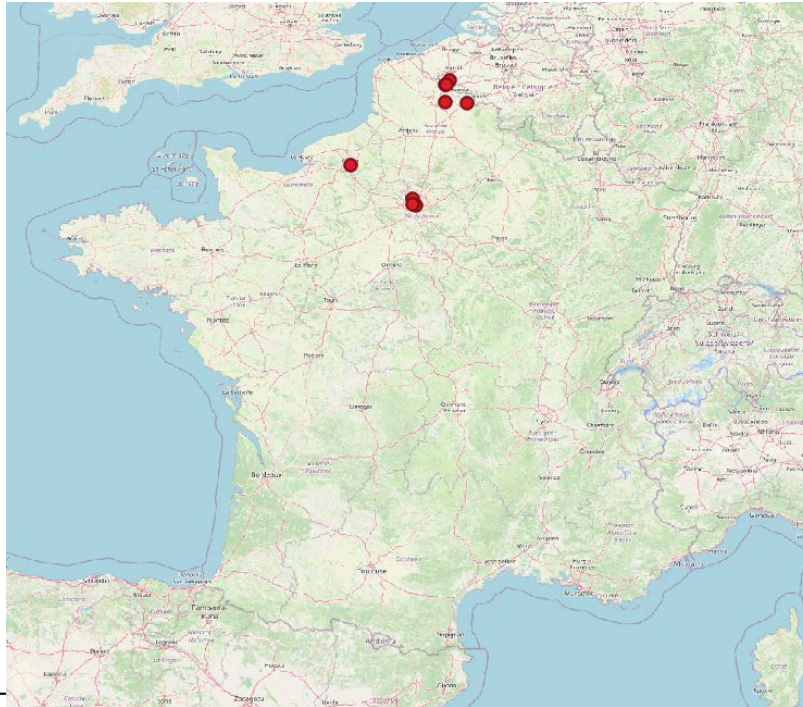
Respect of new AQD values

Exceedance of target values for O₃



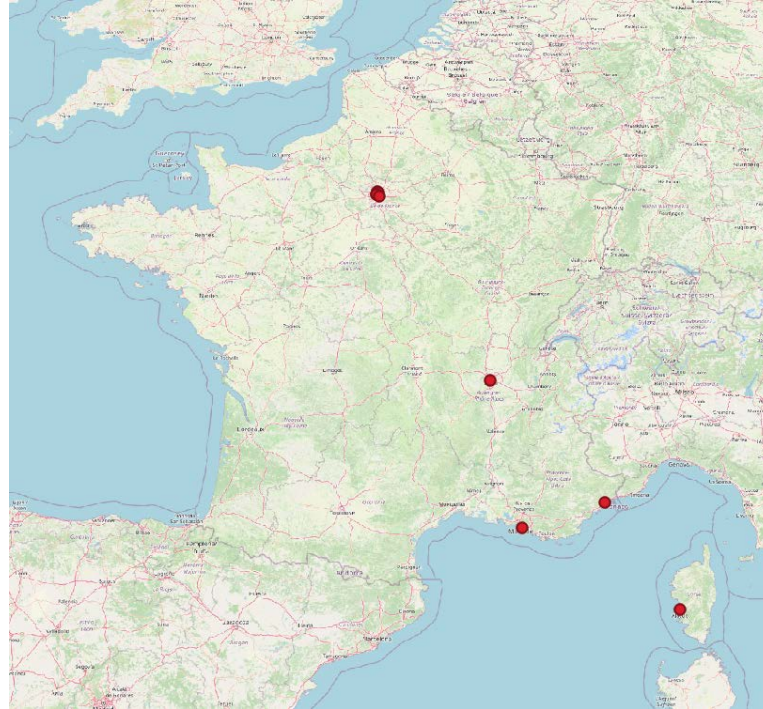
Exceedance of new AQD values in 2030

Exceedance of limit values for PM_{2.5}



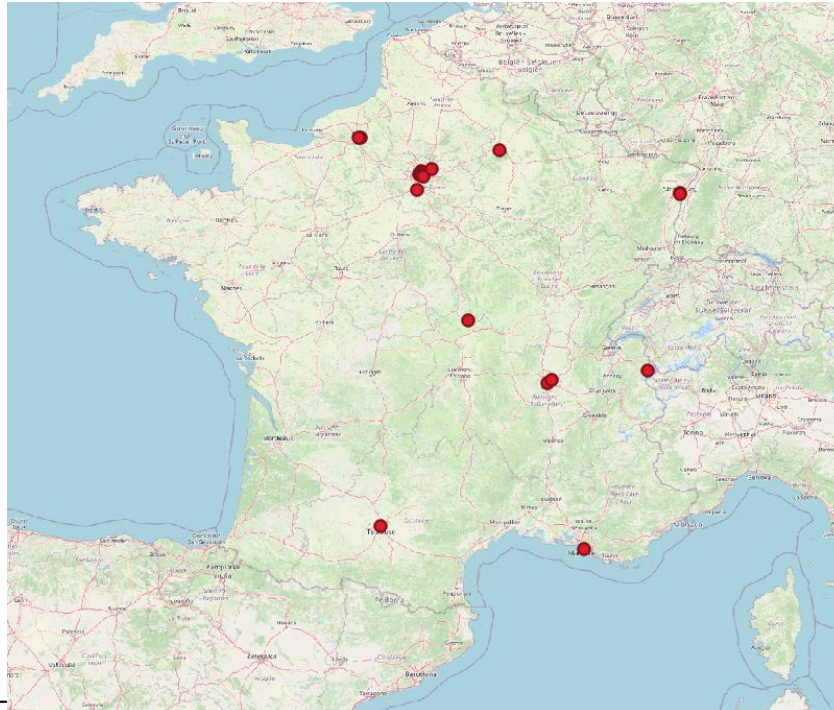
Exceedance of new AQD values in 2030

Exceedance of limit values for PM₁₀



Exceedance of new AQD values in 2030

Exceedance of limit values for NO₂



3. WHO – share of population for which 2005 & 2021 guidance values are exceeded

Exceedance of guidance values for annual average concentrations - % of population concerned

Metropolitan France in 2010 and 2019

	Seuil réglementaire européen	Recommandation OMS 2005	Recommandation OMS 2021
PM_{2.5}	25 µg/m ³	10 µg/m ³	5 µg/m ³
2010	0	100	100
2019	0	28,2	100
PM₁₀	40 µg/m ³	20 µg/m ³	15 µg/m ³
2010	0	95	100
2019	0	4,1	65,8
NO₂	40 µg/m ³	40 µg/m ³	10 µg/m ³
2010	0	0	100
2019	0	0	78
Ozone	120 µg/m ³ *	-	100 µg/m ³ *
2010	20	-	88,7
2019	17	-	100

* Maximum daily 8-hour rolling average

Outlook

- Analyses of NAPCP 2021 partly under way
 - Air quality impacts of WAM scenario
 - Health and environmental impacts of WEM & WAM – benefits assessment
- No quantified information yet of quantified AQ situation in the future for WAM