



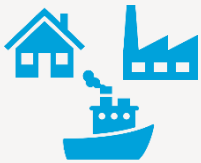
# Three Covid-related factors will affect future NO<sub>2</sub> levels in Portsmouth

Factors	Possible scenarios	Impact on NO <sub>2</sub> levels
<p>› <b>Vehicle upgrade rate (A)</b></p>  <p>Newer, cleaner vehicles</p>	<ul style="list-style-type: none"><li>› There are fewer upgraded vehicles in 2022 (compared with OBC assumptions) due to (i) the impact of the 2020 'lockdown' and (ii) an economic downturn in 2020 / 2021 resulting in fewer people choosing to upgrade their vehicle. <b>(A1 slower vehicle upgrade)</b></li><li>› Drivers who were unable to upgrade during 'lockdown' do so 'post-lockdown', resulting in no overall change in the number of upgraded vehicles in 2022 (compared with OBC assumptions). <b>(A2 neutral vehicle upgrade)</b></li></ul>	<p><b>Worse than OBC scenario</b></p> <p>Neutral</p>
<p>› <b>Traffic levels in Portsmouth (B)</b></p> 	<ul style="list-style-type: none"><li>› A downturn in the economy results in a reduction in traffic levels across all vehicle types. <b>(B1 recession-led all-traffic reduction)</b></li><li>› A downturn in the economy results in a reduction in freight movements only (HGVs and LGVs). <b>(B2 recession-led HGV/LGV reduction)</b></li><li>› Economy bounces back to pre-Covid levels. No long-term impacts on traffic levels. <b>(B3 economy neutral traffic)</b></li><li>› A long-term increase in home / remote-working, and increased walking and cycling, results in a reduction in car traffic. <b>(B4 behaviour-led car traffic reduction)</b></li><li>› A long-term reluctance to return to public transport use results in an increase in car traffic. <b>(B5 behaviour-led car traffic increase)</b></li><li>› No long-lasting behaviour change. Back to pre-Covid behaviour by 2022. <b>(B6 – Behaviour neutral traffic)</b></li></ul>	<p><b>Better than OBC scenario</b></p> <p><b>Better than OBC scenario</b></p> <p>Neutral</p> <p><b>Better than OBC scenario</b></p> <p><b>Worse than OBC scenario</b></p> <p>Neutral</p>

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## Factors

- › Trends in background NO<sub>2</sub> (C)



## Possible scenarios

- › A downturn in the economy results in slower technology upgrade (e.g. for domestic heating), and higher background emissions (compared with OBC assumptions). **(C1 slower background technology upgrade)**
- › A downturn in the economy results in less shipping and industrial activity, resulting in lower background emissions (compared with OBC assumptions). **(C2 recession-led background NO<sub>2</sub> decline)**
- › No long-lasting impact. Back to pre-Covid behaviour by 2022. **(C3 neutral background NO<sub>2</sub>)**

## Impact on NO<sub>2</sub> levels

**Worse than  
OBC scenario**

**Better than  
OBC scenario**

Neutral

