

Summary

- Pollutants There are several pollutants harmful to human health & the
- concentrations are subject to legislation, regulated and have enforceable limits. Limits - For some pollutants, **both** levels of **emissions** to air and **ambient**
- evidence of harm and application of the precautionary principle Harm - Safety parameters which inform legal limits are recommended via peerreviewed scientific guidelines, from international bodies (WHO etc), based on
- government (national / transnational), with elements of management then devolved to local government. This is the case in the UK. Law -Legal limits and responsibilities tend to be set at the upper tier of

and the environment. Reducing total emissions will help to avoid harm and protect both human health



International & Legal Context

of certain air pollutants EU Directive 2008/50/EC on ambient air quality adopted in 2008 with legal exposure limits

with the 2010 EU-wide deadline set for compliance Incorporated into UK legislation by the Air Quality Standards Regulations 2010, to align

micrograms per cubic metre (40μg/m³). Nitrogen Dioxide (NO_2) is one of the pollutants with an annual average ceiling limit: forty

ongoing non-compliance include fines from the EU to non-compliant countries Aside from the ongoing impact on public health and the environment, implications of

authorities government to legitimately pass EU infraction fines to local environmental health authorities along relative lines of statutory responsibility, therefore allowing central Also, the 2011 Localism Act contains legislation allowing national fines to be passed to local



International & Legal Context

that had to be submitted to the European Commission no later than 31 December 2015 In **2015**, the Supreme Court ordered the Government to consult on new air pollution plans

Defra published a plan to improve air quality, specifically to tackle NO2, in December 2015.

where the limit value for NO₂ was not expected to be met by 2020. That Plan identified 5 cities outside London, including neighbouring city Southampton,

formal Clean Air Zone (CAZ) for specified classes of vehicles by 2020 or sooner. The Plan stated each city identified would be legally required, if appropriate, to introduce a

by international environmental lawyers ClientEarth, where UK courts ruled previous plans Government published several iterations of plans, due to three successful legal challenges 'unlawful due to inadequacy'

emissions of NO₂ In Summer 2017 government published their 'final' national plan for tackling roadside



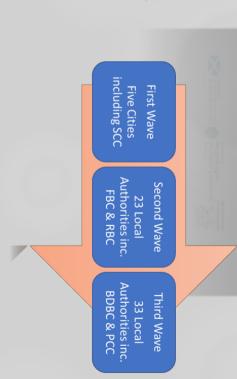
and beyond authorities predicted by DEFRA's national air quality model to have road links in exceedance of legal NO₂ limits in **2021** The plan added to the First Wave a Second Wave of 23 loca

In Hampshire's local two-tier system, air quality management is a District Council responsibility as Environmental Health Authority.

Portsmouth. Hampshire area councils of Fareham, Rushmoor & New in a subsequent Third Wave, alongside neighbouring city Forest were named in the Second Wave with Basingstoke

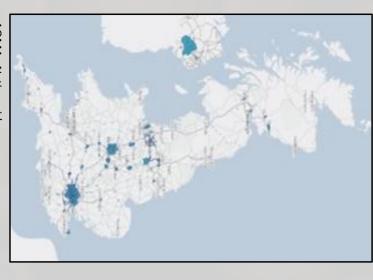
Health Authority.* environmental health authorities and AQ action plans as Local Highway Authority. Hampshire is also the local Public The County Council has a statutory duty to support



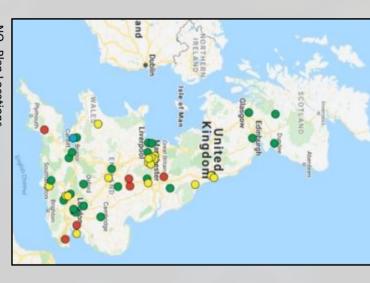






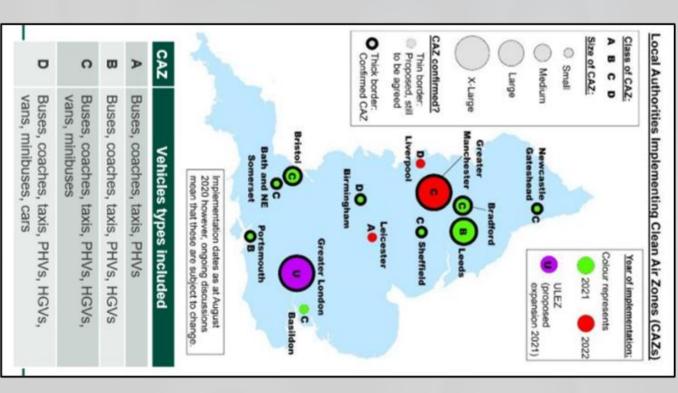


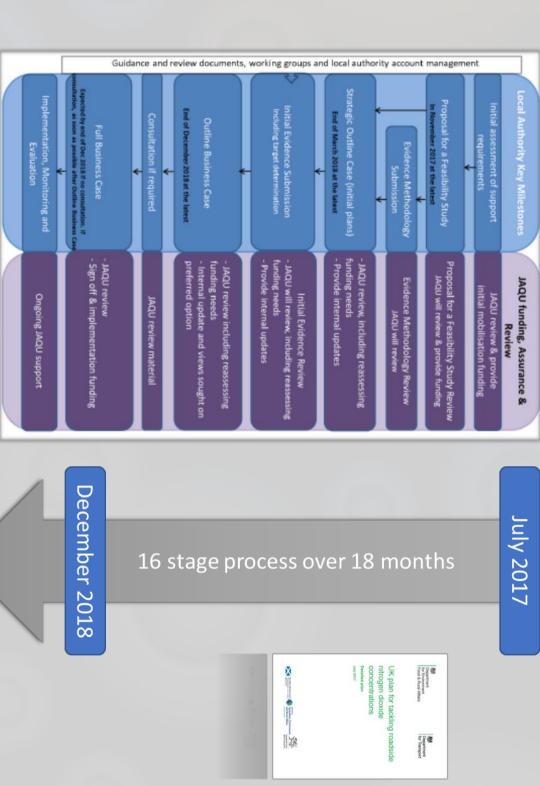
AQMAs Nationwide



NO₂ Plan Locations

From **five** CAZs being initially identified as potentially required in 2015, following legal challenge and detailed investigation, by 2020 this has grown to **thirteen** CAZs now being implemented.

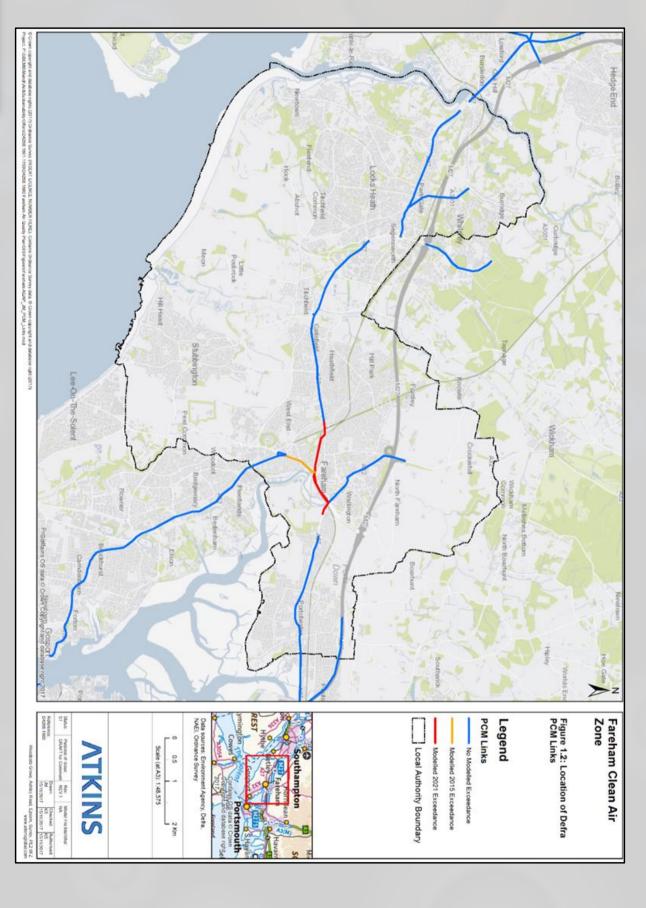


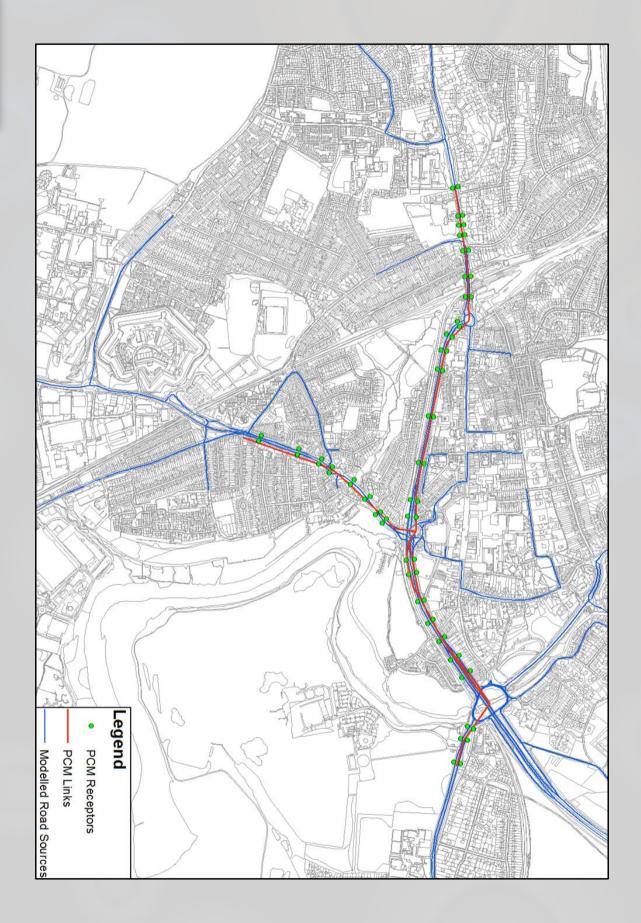


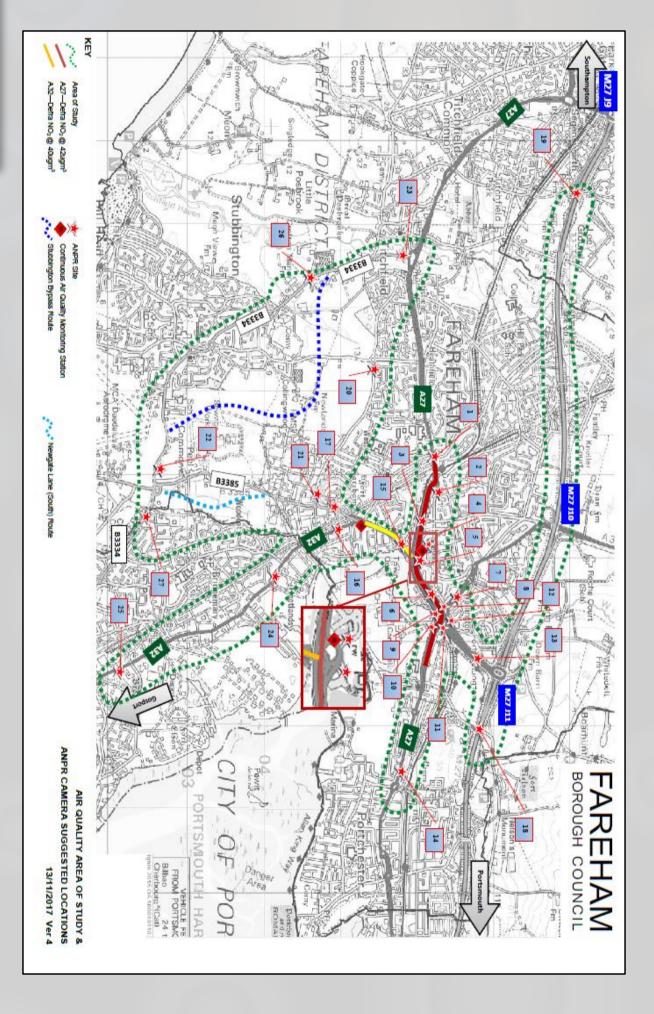


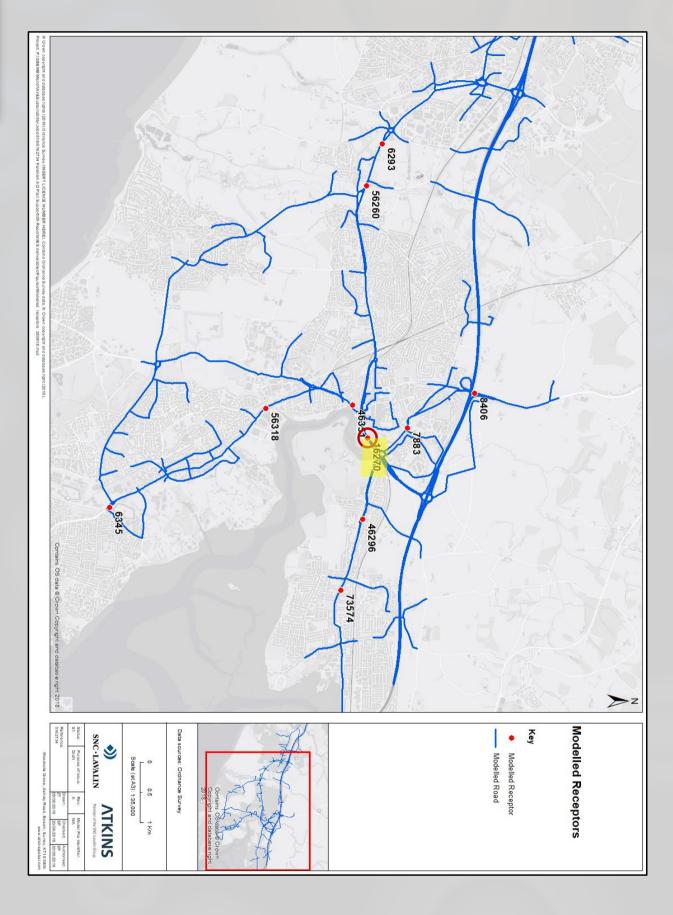




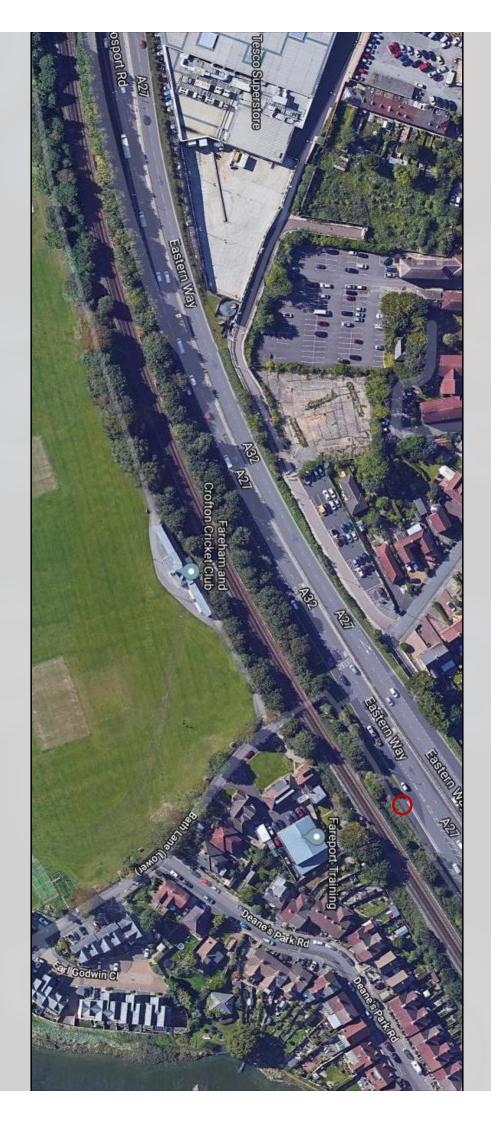


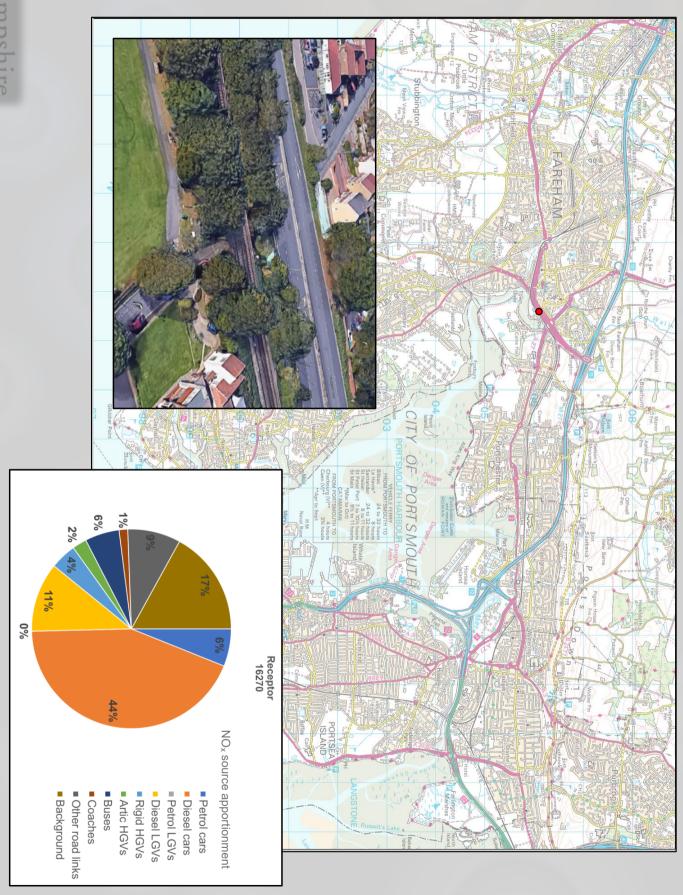






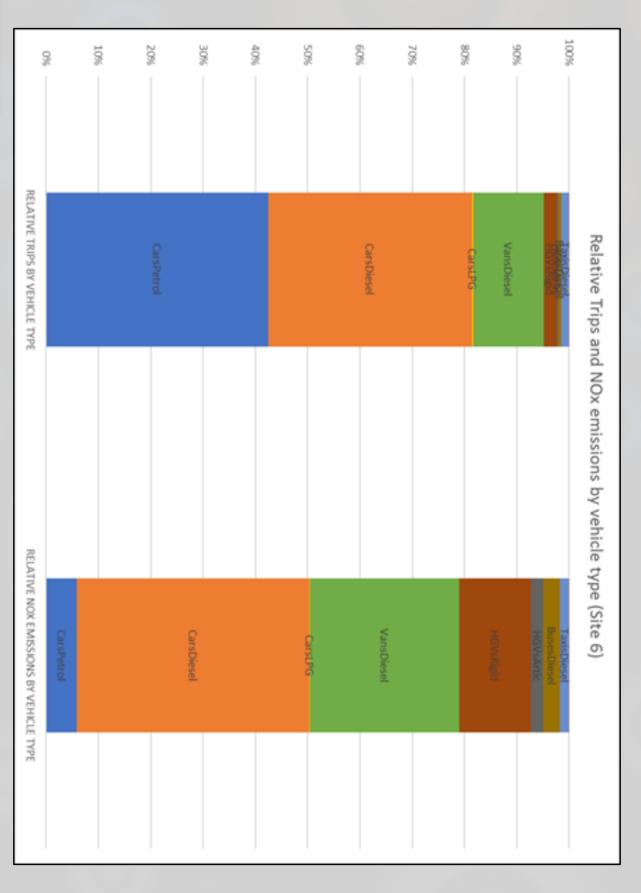


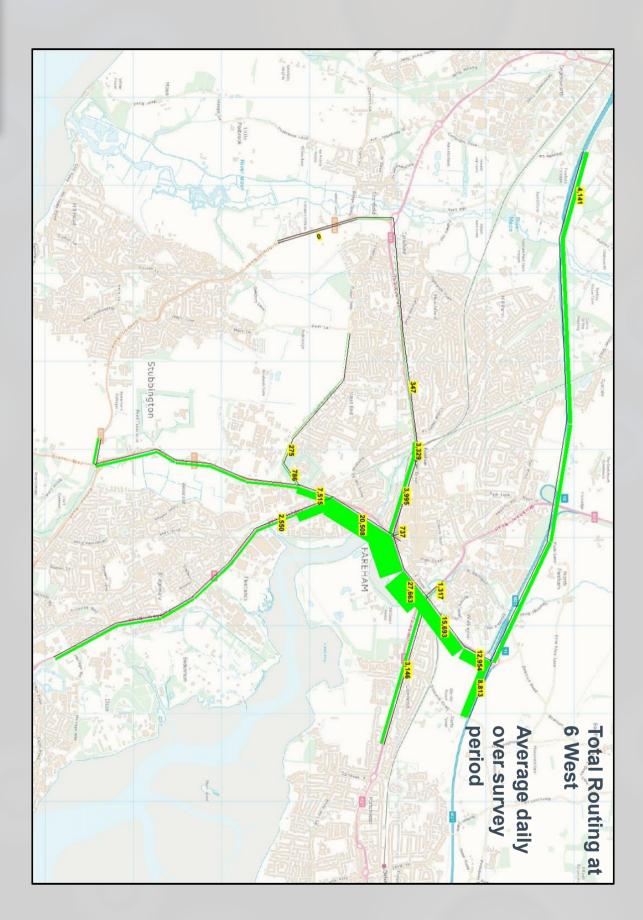


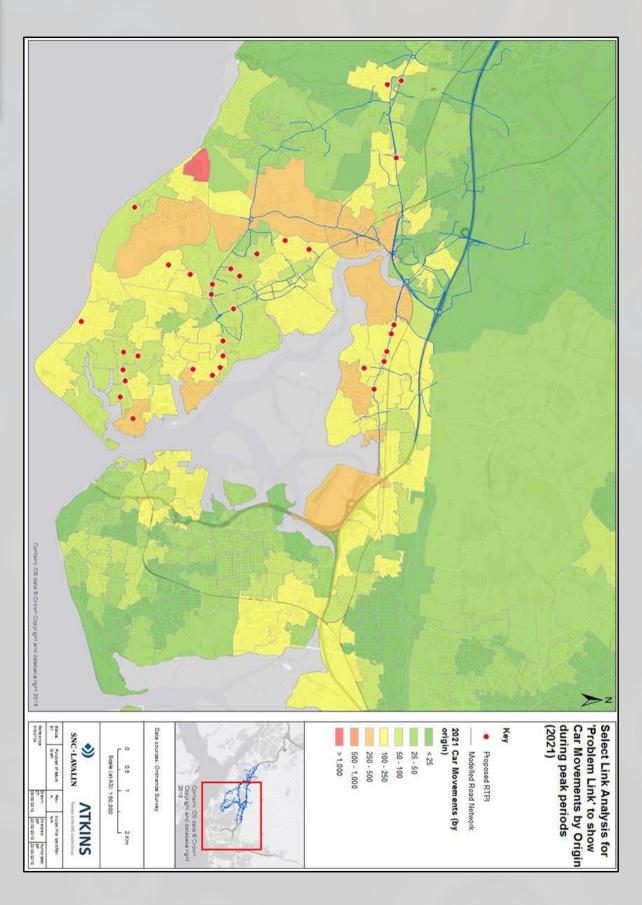




ANPR – Emissions snapshot









- Longlist developed of over 60 options
- Scored and sifted via MCA down to the highest scoring 27
- 27 options consolidated into 12 measures

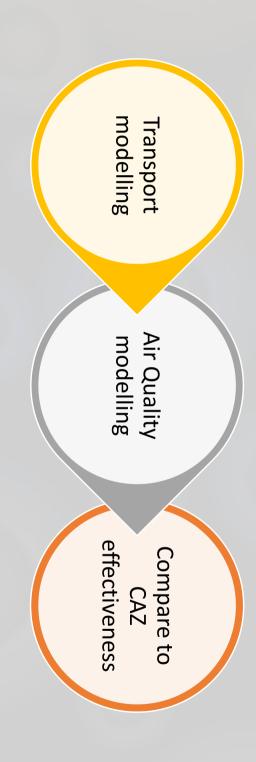
Longlist #	
21 13	Bus app marketing plus spot in town centre plus bus stop into in town Green infrastructure/ Active travel schemes walking / cycling with associated infrastructure
18	BRT Bike Hire Scheme plus bike racks
18b	Cycle security / storage
4(pt1)	FBC Business Engagement Officer to 2020 to progress those measures relating specifically to Businesses [car journeys / behaviour], incl. Car Shafing Schemes – incentivise; Work from Home / Peuble working Schemes; Workpace patrion jewy – carnol and stick innowe business rates – Notingham Oycing schemes; School Trave Plans / A.G awareness – staggered school start times half cost, Solent LEP opportunities, PUSH Air Quality Strategy for Solent are opportunities (Suppretably funding to encourange change?)
4c 4(pt2)	Review of travel plans: https://encept.org/installischool/Fareham/College_Fareham_Leisure_Cerdre FBC_Business Engagement Officer to 2020 to progress those measures realing specifically to Businesses (fleet composition / vehicle emissions), incl. Electric Supermarket delivery vehicles—Sainsbury and Tescots, telematics
12a	Fleet recognition schemes (e.g. EcoStars) HGVs / LGVs / taxis), coupled with retrofiting via grants, to encourage use of low emission vehicles, consolidation of journeys, telematics
	Supplementary Planning Document Measures scoring 0.67 / 0.83
1a	Incentives for electric taxis (combined with charging infrastructure at station and taxi ranks)
26a	Stubbington to Hillhead Hill bus service. Hillhead plus other services subsidised that are at risk-subsidised bus journeys for fixed period 4 yrs
19	FBC building free parking review
34b	Target drop-off movements at station and encourage shift to bike / bus (restrict peak hour access to taxis, disabled badge holders, and car park ticket holders only)
18a	Promote use / purchase of electric bikes
20	Replacing bus traffic light call system
9	EVCP infrastructure – Public Parks / community Buildings – sign up to County framework. Ptus new development - Providing electric charging points for taxis (e.g. ad station) - Painning guidance on EV charging for new developments - Locate electric charge points near front of retail can parks
	Measures scoring 0.50 but being taken forward for further investigation
	Requirement for some/all taxis to be Euro 6 by 2021 (e.g. via licensing)
မ	FBC and Private staff parking to move from Town Centre to Lysses – Feasibility study for Low cost Parking Structure in Lysses – Improve bicycle storage and EVCP's. Improve Lysses car Park access by foot steps lighting signage
23a	Lifting of night time lony curlews
ø	EVCP Infrastructure – Public Parks / community Buildings – sign up to County framework. Ptus new development - Providing electric charging points for taxis (e.g. at station) - Planning guidance on EV charging for new developments - Locate electric charge points near front of retail car parks
ಚಿ	Gosport Residents BRT Discourt - AQ pollution discount season tickets perhaps linked to marketing campaign green credentals Better bus links to BRT
40	Daedalus bus link to BRT
303 4b	Targeted discount for bus/terry trips for Gosport ferry service
42a	Dublis hould not not contain and an analysis of the contain and the business and the contain and the contain and the contain and the contain and the contains a

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Iterative modelling process

rates) to model transport impacts, which was the input for air quality modelling. ANPR local fleet data, (factoring in DEFRA / DfT fleet emission improvement Used South Hampshire sub-regional strategic transport model calibrated with



Pros:

scenario and a committed local major scheme (Stubbington Bypass) Recent future-year model outputs already available of both a 'Do Nothing'

Cons:

uptake, requiring sensitivity tests and alternative methodologies Strategic model not fine-grain enough to test signal timing changes or cycling

2020	00.06µg/m³	TARGET	
2020	40.55μg/m³	To test 2020 compliance, 2020 modelled directly for first time, predicting slightly worse exceedance	October 2018
	9μg/m³	JAQU confirm their threshold for legal compliance is 40.49µg/m³	September 2018
2020	40.1μg/m³	AQ modelling updated in response to JAQU technincal review - 'Do Nothing' compliance year shifts	September 2018
ber	months to Octo	Due to CPO Inquiry, Stubbington Bypass predicted opening slips by 6 months to October 2021, with measures to bridge the compliance gap	July 2018
ce in	eliver compliand (CAZ ruled out)	AQ Modelling confirms Stubbington Bypass (opening April 2021) will deliver compliance in 2021 (assuming open for 6 months of 12), making 2020 new target (CAZ ruled out)	June 2018
2021	40.3μg/m³	Local interim AQ & transport modelling is submitted with Strategic Outline case predicting slightly worse exceedance	March 2018
2021	40.1μg/m³	Defra PCM Model prediction shows 'Do Nothing' scenario of marginal exceedance in 2021 (threshold year)	July 2017
Year	NO ₂ exposure at worst modelled receptor	Evidence Base Iteration	Project Time



Shortlist of Measures submitted at Strategic Outline Case & Outcome

Measure	Progress to Implementation?	Issue / Constraints / Caveats
1 Taxi incentive	YES	Early Measures grant further refined as Final Measure
2 Bus Retrofitting	NO	Not eligible for funding funded due to State Aid issues
3 Cycle Infrastructure	YES	Deliverable before the end of 2019
4 AQ Business Engagement Officer	NO	Not funded by JAQU for further investigation
5 ITS Review	YES	
6 Integrated Bus & Ferry Season Ticket w/ discount	NO	Competitive, commerical product not acheiveable in time to meet business case deadlines
7 Bus Stop RTI	YES	
8 Travel Plan reviews	NO	Not funded by JAQU for further investigation
9 Fleet Recognition Scheme	NO	Paused due to limited impact of Fareham-based scheme
10 EVCPs	NO	Not progressed due to wider programme delay impacts
11 Additional Bus Services	NO	Paused due to challenges of bringing forward measure in time to meet business case deadlines, (without prolonging services being cut, which was not in scope for funding)
12 Class A / B Charging CAZ	NO	Discounted by June 2018 evidence

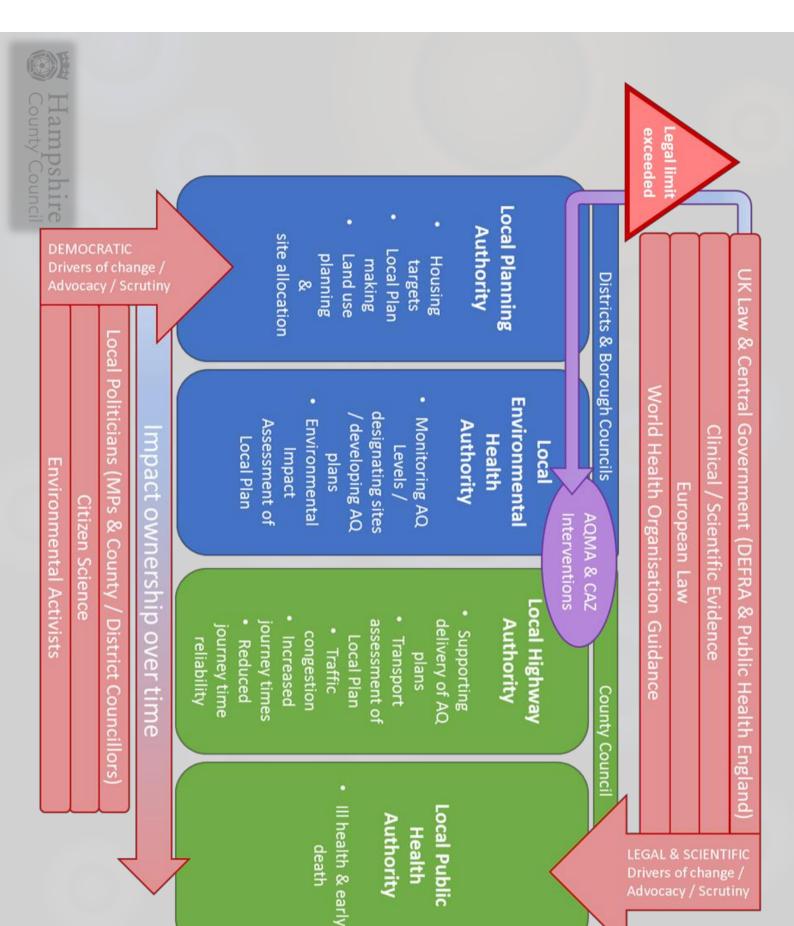
Blackwater Valley

junction. Valley Relief Road in Rushmoor between the Coleford Bridge junction and the Frimley Road Location with the worst predicted NO₂ concentrations was a section of the A331 Blackwater

NOx source apportionment in 2017 Coaches Artic HG\ Rigid HGV Petrol Car Diesel LGV Diesel Car

was a speed limit reduction from 70mph to 50mph, predicted to bring forward legal compliance to 2021 modelled exceedance in 2021 is marginal, $(0.11 \mu g/m^3)$. The sole viable measure at this location NO₂ is predicted to continue to exceed the annual average legal limit till 2022. However, the





LEGAL & SCIENTIFIC

Political sign-off and wider remit for action

Cabinet agreed to: Economy, Transport and Environment & Director of Public Health in November 2018 where Ahead of business case submission, joint HCC Cabinet report on Air Quality from the Director of

- developing the JAQU business cases Note the statutory responsibilities and accountabilities shared between the County and Borough Councils for dealing with air quality and approve in principle the approach taken in
- Authorise both Directors to jointly develop options for undertaking additional work within existing available resources
- Agree to the County Council undertaking a "coordination role" on air quality issues within Hampshire where related to core functions as both highway and public health authority.



- several borough partners Transport Emissions & Air Quality Evidence Base study almost complete, supported by
- toolkit', with guidance for appropriate application of measures. That evidence will inform development of an AQ Policy Framework (AQPF), a strategic 'policy
- Key to delivering these measures will be formulation of a Transport Air Quality Action Plan, (linked to LTP4 & Strategic Transport's HCC Climate Change Emergency declaration response)
- Joint Air Quality Position Statement with HCC Public Health to be completed as first priority of the Transport Air Quality Action Plan
- Specific HCC Air Quality, Transport & Development Guidance is being considered
- With LTP4, a refresh will be undertaken of HCC's Transport Development Management Policies that will refer to the new HCC Air Quality, Transport & Development Guidance
- **Guidance** with local Borough councils & the cities. This is in tandem with ongoing work to explore options for shared Air Quality Planning

