



LONDON LOW EMISSION
CONSTRUCTION PARTNERSHIP

22nd January 2019

SUPPORTED BY
MAYOR OF LONDON



THE ROYAL BOROUGH OF
**KENSINGTON
AND CHELSEA**



Supported by



10:30	Welcome and introductions	Tom Parkes
10:35	Review of previous meetings minutes	Tom Parkes
10:40	LLECP Project update	Daniel Marsh
10:45	Best in Class Guidance	Daniel Marsh
10:55	LLECP Seminar	All
11:25	NRMM Inventory development and policy impacts	Carl Desouza
11:40	Future work	David Green
11:55	AOB / Date of next meeting	All
12:00	Finish	All

Last meeting minutes 10/9/18

-
- *Best in Class document:*
-
- **All:** If there are any areas not currently being covered in the document that boroughs think would be relevant, please contact KCL
- **Daniel M:** Look at options such as Sharepoint for boroughs to collectively review the document
- **All:** If boroughs have case studies relevant for the document, please contact KCL
-
- *AOB:*
-
- JCB electric excavator
- **All:** If you would like to view the excavator or look at a trial in your borough, please contact KCL (Daniel)
- **Daniel M:** Look into various technologies that could be trialled at the final event at City Hall
- **Fran:** Ask GLA about logistics of showcasing technologies outside City Hall
-
- GLA MAQF (for 2019 projects)
- **All:** Currently scoping ideas for a new bid similar to LLECP but focussed on what would be most useful for boroughs. Please contact KCL with any ideas.
-
- Next meeting: 10.30am – 12pm, Tuesday 22 January 2019, 5 Pancras Square (a Calendar invite from Ana will follow).



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Phase 1: 2014-16
Phase 2: 2016-19

Industry Outreach

- Raising awareness of industry impacts on local air quality
- Encourage uptake of 'cleaner' mitigation measures
- Present case studies with cost benefit for low emission solutions

Testing

- Measure 'real world' emissions
- Emission reduction trials
- Improve pollution monitoring and quality of data

NRMM

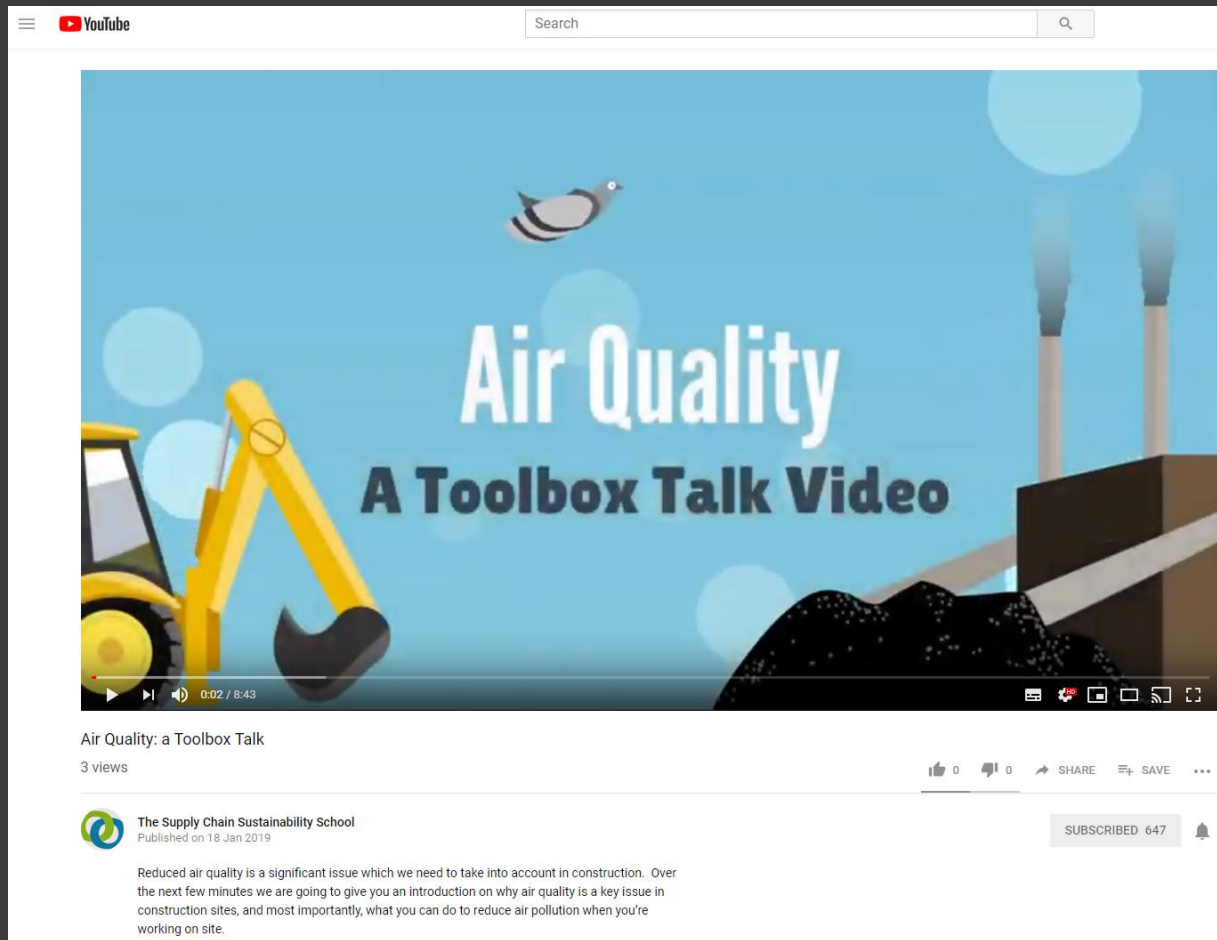
- LEZ enforcement
- Policy support
- NRMM database

LLECP Key Project Deliverables 2019

1. End of funding cycle outputs:
 - a) Construction Industry 'Best in Class' Guidance Document
 - b) Seminar
2. Continue...
 - a) Outreach meetings inc. LLECP Seminar
 - b) Existing case studies (Lewisham CLP)
 - c) LA and industry support to NRMM

Key Progress since last meeting

- ⦿ Outreach
- ⦿ BIC Guidance
- ⦿ Existing Projects:
 - Lewisham Construction Logistics Plan
- ⦿ NRMM Support
- ⦿ Supply Chain School (CITB) Published construction air pollution toolbox talk e-module



The image shows a screenshot of a YouTube video player. At the top, there is a search bar and the YouTube logo. The video player itself features a blue background with a yellow excavator on the left, a grey bird flying in the center, and a factory with two smokestacks on the right. The text "Air Quality" is written in large white letters, and "A Toolbox Talk Video" is written in smaller dark blue letters below it. The video progress bar shows 0:02 / 8:43. Below the video player, the title "Air Quality: a Toolbox Talk" is displayed, along with "3 views". To the right of the title are icons for likes (0), dislikes (0), share, save, and a menu. Below the video player, the channel name "The Supply Chain Sustainability School" is shown, along with "Published on 18 Jan 2019" and a "SUBSCRIBED 647" button with a notification bell icon. A short description of the video content is provided at the bottom of the player area.

Air Quality: a Toolbox Talk

3 views

The Supply Chain Sustainability School
Published on 18 Jan 2019

Reduced air quality is a significant issue which we need to take into account in construction. Over the next few minutes we are going to give you an introduction on why air quality is a key issue in construction sites, and most importantly, what you can do to reduce air pollution when you're working on site.

<https://www.youtube.com/watch?v=yK9UmMlvJCA>



Tweets 2,226 Following 1,446 Followers 2,008 Likes 1,135 Lists 1 Moments 0

Edit profile

London Low Emission Construction Partnership @ConstructDustUK

Raising awareness of the air quality impacts from construction & demolition activity and machinery. Testing NRMM emission reduction technology with PEMS

London, UK
llecpc.org.uk
Joined November 2013

125 Photos and videos



Tweets Tweets & replies Media

London Low Emission Construction Partnership @ConstructDustUK · 25m
@VolvoCEGlobal Vows to End #Diesel in Some Compact #construction #machinery , Go #Electric in 2020 constructionequipment.com/volvo-vows-end... via @ConstructionEq #NRMM



London Low Emission Construction Partnership @ConstructDus... · Jan 15
@HS2Ltd are driving change in tackling #vehicle #emissions from the #construction industry by using the cleanest #diesel HGV's



HS2 goes one step closer in tackling vehicle emissions
All diesel HGVs working the length of the HS2 project will be powered by the cleanest available Euro VI engines, going beyond current vehicle emission...
openaccessgovernment.org

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LONDON LOW EMISSION
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'Best in class' guidance

- LLECP running since 2014
- Current 3 year funding ends in March 2019
- Encourage uptake of low emission approaches
 - 'Best in Class'
- 5 years of:
 - Industry outreach
 - Measurement methodologies
 - Emissions abatement approaches
- Guidance Document for local authorities (for industry also)
- This will aim to
 - condense all the information and learnings from both rounds of the LLECP
 - publish in one of the Institute of Civil Engineering Journals.
 - integrate this into the LLECP website to create a live resource
 - Delivered in Mar 2019

LLECP – Best in Class Guidance

⦿ Monitoring

- Fugitive Dust
- Chemical Dust Suppressants
- Street Sweeping Efficacy

⦿ NRMM

- London NRMM Low Emission Zone Policy
- Diesel Fuel Additives
- Alternative Fuels
- Retrofit

LLECP – Best in Class Guidance

- ⦿ Off-Grid Power
 - Diesel Generators
 - Hybrid Technology
 - Site Electrification

- ⦿ Intelligent solutions
 - Eco-driving/start-stop
 - Engine Telematics

LLECP – Best in Class Guidance

⦿ Better Planning

- Construction Logistics Plans
- Case study from Tideway – using the river
- Case study from consolidation centre

- Borough Funding for Construction and NRMM Compliance Work

Borough Funding for Construction and NRMM Compliance Work

- Brief overview of their funding structure, how long it's been in place, estimation of number of sites that are audited under this structure (ideally as a proportion of total number of sites within the borough)
- Why was this model chosen
- Indication of fees payable per development
- Benefits and dis-benefits of the model, barriers of challenges encountered
- Case study of a site they have audited using this model
- Any other information they would like to see included
- No more than 200 words
- Pics of a site or NRMM etc if possible

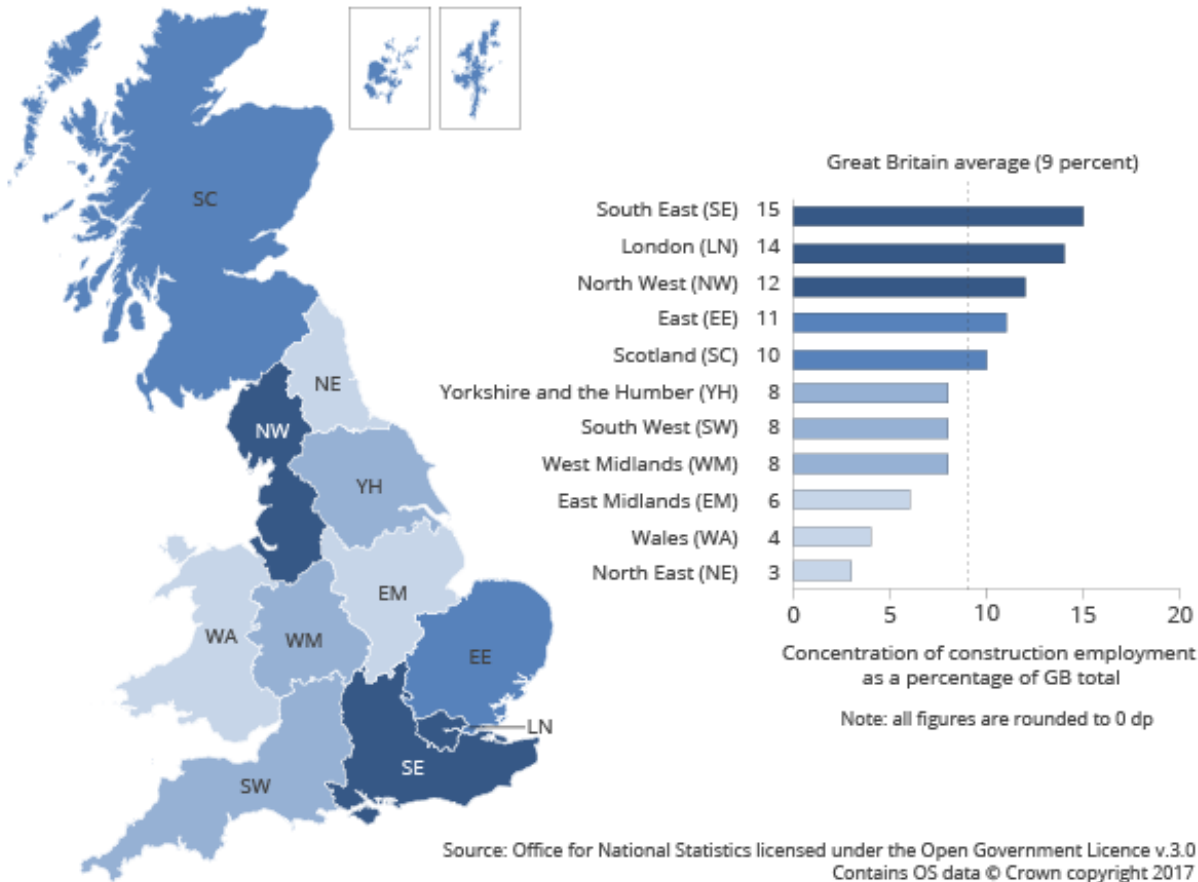
LLECP Seminar

12th March 2019 at City Hall

- ⦿ Agenda
- ⦿ Speakers
- ⦿ Attendees
- ⦿ Exhibitors

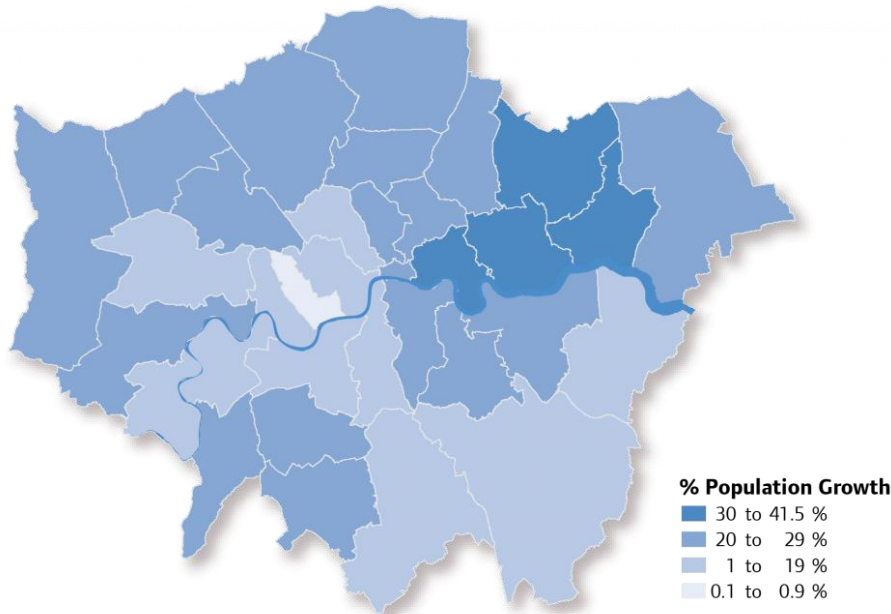


Construction Industry



- Construction is the third largest economic sector in the UK
- GB construction output 2018 growth of 2.1% to £159.6 bn.
- Despite Brexit, 2018 is still forecast to be the highest level of construction output on record
- Future growth reliant on infrastructure projects - HS2 and the Northern Powerhouse

Growing urban populations

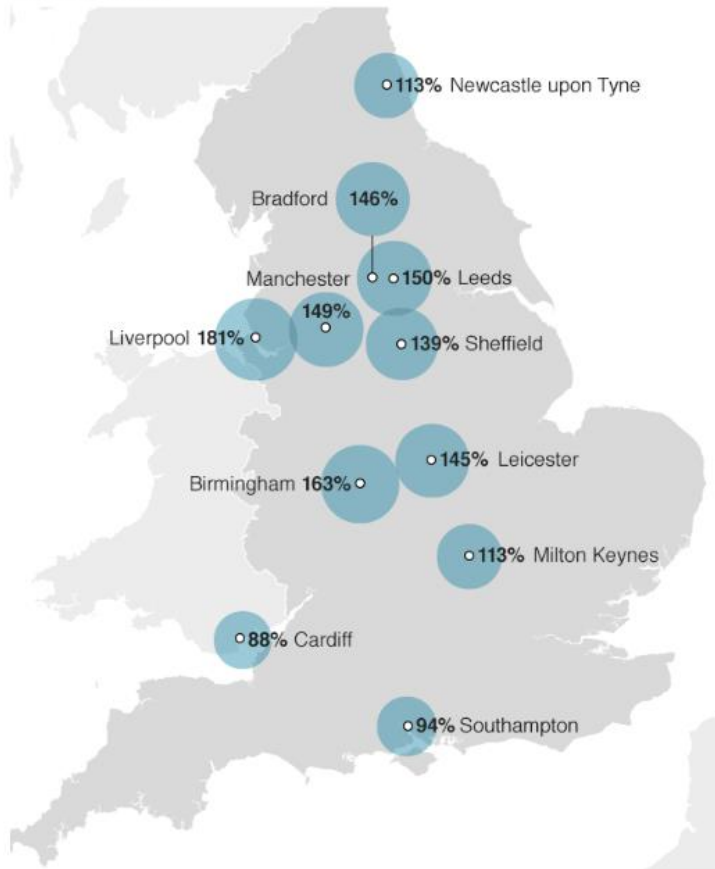


© GLA 2013 Round Population Projections
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- GLA central predictions: 9.2 million in 2021 rising to >10 million in 2036
- Across UK many cities have grow by 50%.
- Internationally, urban population in 2014 was 54% of the total global population (WHO).
- The global urban population is expected to grow by 1.44-1.84% pa to 2030.
- Dependent on the provision of affordable housing and infrastructure provided by the construction industry with consequential impacts on urban air quality.
- Emissions from the construction industry will continue to increase in importance and therefore require quantification and regulation by urban and national governments.
- Consequently included in air quality policy development nationally and in regional government (London & Wales)

Growing urban populations

Fastest growing city centre populations
2002-2015



City centre defined as a 0.8 mile radius from the centre of cities with 550,000 to 4m residents and a 0.6 mile radius from the centre of towns and cities with 135,000 to 550,000 residents.

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Small sensors Active site management	Dust suppressants Street sweeping Active site management	Engine technology Retrofit Cleaner fuels Hybrids Hydrogen	Innovation from OEMs CLPs Consolidation centres	Improved EI's Tighter emissions regulation NRMM LEZ in other cities	Increased awareness of exhaust emissions Diesel exposure in H&S
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MAQF - London Low Emission Construction Partnership (LLECP)

High Speed2	Dust Suppressants	Construction Logistic plans			DEMiST
MAQF - Heygate		NRMM Register			
SPG Trigger Levels		NRMM Emissions Inventory PhD			

Monitoring	Fugitive Dust Emissions	Exhaust Emissions	Working with Industry	Policy and Guidance	Worker Exposure
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CONSTRUCTION AND DEMOLITION

Any other business?

- Date of next meeting