

# IAQ – Future Direction

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# The future of IAQ

Where are we today?

Growing awareness of the issue

Driving change



Legislation



Industry and Government



Behaviour, Skills and Attitude



Products and Technology

# Where are we today

## Driving efficiency

Adding insulation but not adding ventilation

## Installation issues

Design specified correctly but not installed correctly

## Communication issues

Poor process and communications to ensure initial design is adhered to

## Competency

Robustness of schemes

Confusion about what 'Competency' means

# Growing awareness of the issue

## An overwhelming body of evidence



### Zero Carbon Hub

Poor design, installation and policing.  
Training not robust enough



### Exeter University

Every unit increase in SAP = 2% increase  
in Asthma

### Every Breath we Take Royal College of Physicians

40,000 people are dying in the UK  
every year due to air pollution

### The Future of IAQ & its Impact on Health - BEAMA

Asthma could increase by 80%  
from current levels



# Future scenario is an environment where this can't happen

Legislative...

Industry...

We need to drive change using a combination  
of approaches...

Skills and Attitude...

Product Development...

# Legislation

## Part F

May need to improve

No coverage on Demand Control

Evidence indicates Part F does not resolve all problems

Seasonality issues – Spring/Autumn

## SAP (PCDB)

Are test methodologies fit for purpose?

Are they achieving the required result in real-life installations

Based on building regs – which are based on European Directives...??

## Part L

Aim was to reduce DER over time

2016 revision dropped

Energy Performance of Buildings European Directive...??

# Industry and Government

80<sup>th</sup>  
Anniversary  
1936-2016

## Bonfield Review

Commissioned by DECC - refurbishment, not new build - due for publication

Schemes not as successful as hoped – Green Deal

Consumer advice and protection - Enable voluntary schemes – Examples exist where industries have led and implemented improvements - FENSA

Encourage and enable industry to change the way it reacts and behaves

Provide monitoring and framework guidance, and future practice

## APPG

For Healthy Homes and Buildings

Build advocacy and raise the profile of IAQ issues

Understand the benefits of improved IAQ in the home

## BEAMA

Encourage promotion of a greater good

United message – united communications. EG  
Healthy Homes Mark

# Behaviours, Skills and Attitude

## Competency of installation

BPEC – Training currently available through manufacturers  
NICEIC – audited competent persons scheme

## Use as a selling point

Housebuilders use Healthy Homes  
Mark to promote the high standard of  
their homes

## Culture

Change the importance we place on  
ventilation



# Product developments

## Better through design

Features to improve commissioning process and to ensure correct airflows

## Better filters and maintenance

Use higher grade filters, and keep the product serviced

Lots of solutions don't filter air

## Internet of Things/Connectivity

Whole house system with multiple products working together

## Transfer of technology

Apply new innovations to other product categories, such as commercial

# Conclusion

We cannot ignore the problem

Our approach to ventilation is changing



Manufacturer driven



Government driven



Industry driven

The next challenge is to bring the specifier and installer along on the journey

# Thank-you

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