



National Housing
Maintenance Forum

HAMMAR Midlands Technical Briefing Day

Telford - 20th June 2024

Welcome, Introduction & Housekeeping



National Housing
Maintenance Forum

David Hall
Head of Property
Wrekin Housing Group





National Housing Maintenance Forum

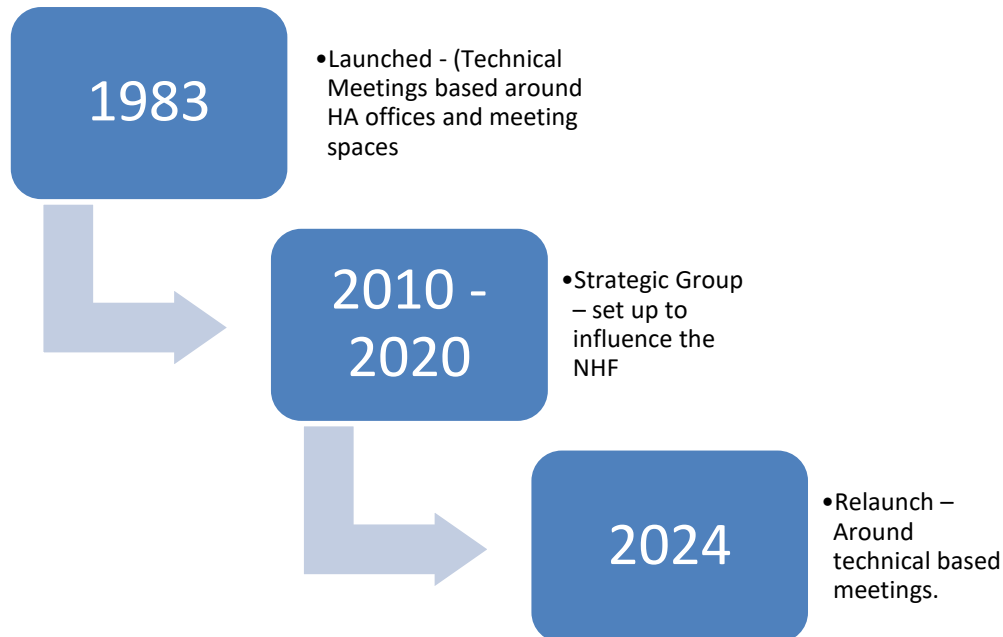
Programme:	
09:30 – 10.00	Arrival and coffee/ biscuits.
10.00 – 10.10	Welcome/ introducing HAMMAR Midlands + context/ Housekeeping. Chair for the day and the HAMMAR Midlands Committee.
10.10 – 10.25	Topical Update - social housing/ related sector activity + legislation update. Julian Ransom & Andrew Burke for NHMF Man. Committee.
10.25 – 11.20	Damp & Mould - causes (refresher) and current management techniques, sector trends & obligations, good practice approaches and practical application. Q&A and discussion open to floor. James Berry, Deputy Chief Executive – The Property Care Association.
11.20 – 11.35	Coffee/ Tea + comfort break.
11.35 – 12.20	Flooding Risk - Predicting and Mitigating the Full Impact of Flood Disasters including a social housing sector case study. Q&A. Grace Miller – Previsico.
12.20 – 13.05	Asbestos - HSE 'Your Duty to Manage' Campaign 2024 – context/briefing + compliance update/ refresher. What you need to know, common compliance regime weaknesses and solutions. Q&A. Catherine Howard – Senior Asbestos Consultant (+ John Evison) – iON-Consultants.
13.05 – 14.00	Buffet Lunch and Networking.
14.00 – 14.30	Topical Subject Suggestions – open to the floor. A chance also to discuss current challenges that delegate organisations are facing/ addressing.
14.30 – 15.20	Fire Stopping – Compliance + obligations explained together with good practice approaches. What you need to know to avoid disaster, spot what might be compromising fire integrity in your buildings and ensure seamless service provision. Angharad (Harry) Parry - Fire Safety Consultant - Ventro Group.
15:20 – 15:30	NHMF Net Zero Study Tour 2024 briefing - Sweden trip brief report. Julian Ransom for NHMF Man. Committee.
15:30 – 15:40	Complete/ hand in feedback forms. Safe journey home.





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Maintenance Forum

- **History** -HAMMAR was first launched back in 1983 with several Midlands based Housing Associations coming together to share knowledge, information and to ‘**stop reinventing the wheel**’.





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■ Committee Members:

- David Hall – Wrekin HG
- Ian Gardner – Wolverhampton Homes
- Leon Storer – Ark Consultancy (formally Stonewater)
- Kevin Holmes – Midland Heart
- Shaun Mulloy – Abbeyfield
- Julian Ransom – Ion (HAMMAR SW associate)

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- Purpose of Hammar:

“Forum for sharing information,
improving knowledge and communicating
with like minded people in
Housing Asset Management Maintenance
and Repairs”

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- Relaunch of Hammar Midlands:





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Current Challenges for Housing Providers – Poll

- **Economic Pressures:** High inflation and restricted rents are limiting financial capacity, impacting investments in new and existing homes.
- **Supply Constraints:** Ongoing contractor shortages are affecting the delivery of social housing projects, such as SHDF.
- **Building Safety Regulations:** Continuous changes and new requirements are being implemented.
- **Regulatory Changes:** The Social Housing Regulation Act and new consumer standards require enhanced service quality and tenant safety.
- **Funding and Investment:** Budget constraints due to inflation and restricted rents.
- **Retrofitting and Energy Efficiency:** Achieving net zero targets and improving energy efficiency require substantial initial investment.
- **Professional Standards and Training:** New requirements, such as Awaab's Law, necessitate changes in business practices and increased staff development.
- **Governance and Data Management:** Robust governance and data management systems are essential to navigate current challenges and meet regulatory expectations.

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Topical Update - social housing/ related sector
activity + legislation update



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Julian Ransom -NHMF Man. Comm.

Andrew Burke -NHMF Advisor

Midlands HAMMAR
20 June 2024



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Topical Update and NHMF Best Practice

Andrew Burke
Adviser
NHMF

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What we'll cover



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What we know!

What we don't know!

What resources are available?

Where to start?

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What we know!



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Legislation:

- Building & Fire Safety
- DMC
- Band C & Net Zero Carbon
- Heat Network Regulations

Sector scrutiny:

- Damp & mould – Govt, RSH & Ombudsman
- RSH – Consumer Standards, TSMs, Inspections

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Building & Fire Safety



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- Building Safety
 - Building Safety Act,
 - HRBs registered – Building Assessment Certificates
 - Building Safety Case Reports
 - Resident engagement strategies
- Fire Safety
 - Regulatory Reform (Fire Safety) Order 2005
 - Fire Safety (England) Regulations
 - Fire Risk Assessments

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Damp, mould & quality



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Damp, mould & housing quality:

- [RSH – Consumer Standards](#), New Inspection regime, TSMs
- [Housing Ombudsman – Reports & Learning](#)

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Government expectations



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Government expectations - residents:

- CoP for the remediation of residential buildings – DLUHC looking for case studies – opportunity for SPF members?
- Building Safety Act – Resident Engagement
- Awaab's Law

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What we don't know!



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Legislation:

- DMC – Awaab's Law, Decent Homes/HSSRS
- Band C & Net Zero Carbon
- Heat Network Full Regulations

Sector scrutiny:

- New Government expectations
- RSH & Ombudsman – Further powers?

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Resources



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- [NHMF Best practice](#)
- [NHMF Awards](#)
- Government

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- [Regulator of Social Housing](#) (New Regs April 24)
- [Building Safety Regulator Q&A](#) - April update
- [Why Tenants are Key](#)
- [NHMF Awards 2024](#)
- [DLUHC - Code of Practice: Remediation of Residential Buildings](#)
- [Rethinking Repairs and Maintenance](#)
- [PAS 2030 & PAS 2035: Q&A briefing](#)
- Building Control changes – 6 April

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Where to start?



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Residents are key!

- Government expectations - residents
- Damp & mould – Govt, RSH & Ombudsman
- Legislation - Building & Fire Safety, DMC
- Future – Awaab's Law, Heat Networks, Decent Homes 2, possibly NZC

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Residents



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Government expects residents to be:

- Safe – have good quality & well-maintained homes
- Listened to
- Engaged so they can contribute

RSH will be enforcing this

Benefits of resident engagement

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Conclusions and questions



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- Residents are key!
- What are members working on?
- Any topics missing?
- Questions

Website: <https://www.nhmf.co.uk/bestpractice>

Contact details: <https://www.nhmf.co.uk/contact/>

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Damp & Mould – causes, current management techniques, sector trends & obligations, good practice approaches and practical application.
Q&A and discussion open to floor.

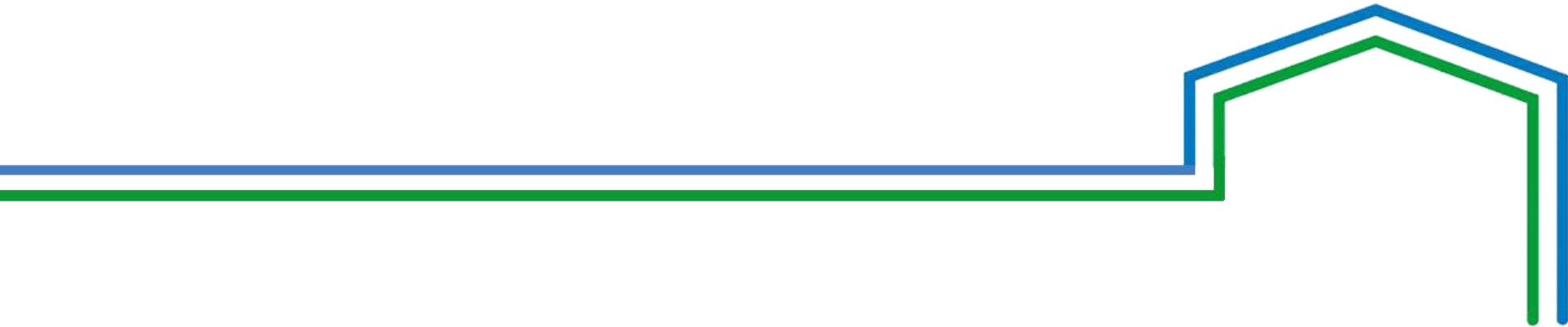


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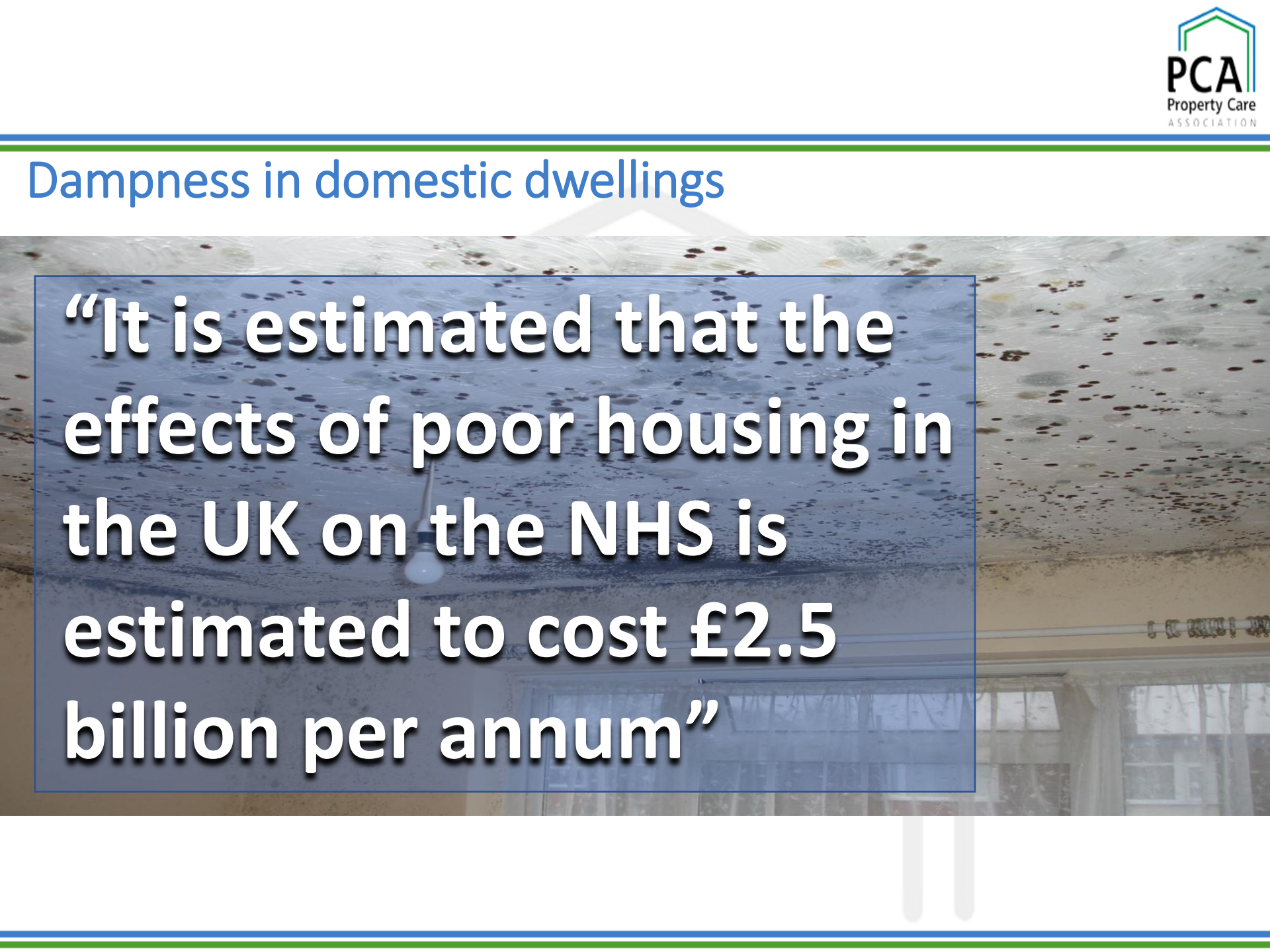
James Berry
Deputy Chief Executive
The Property Care Association.

Damp & Mould

HAMMAR - Midlands

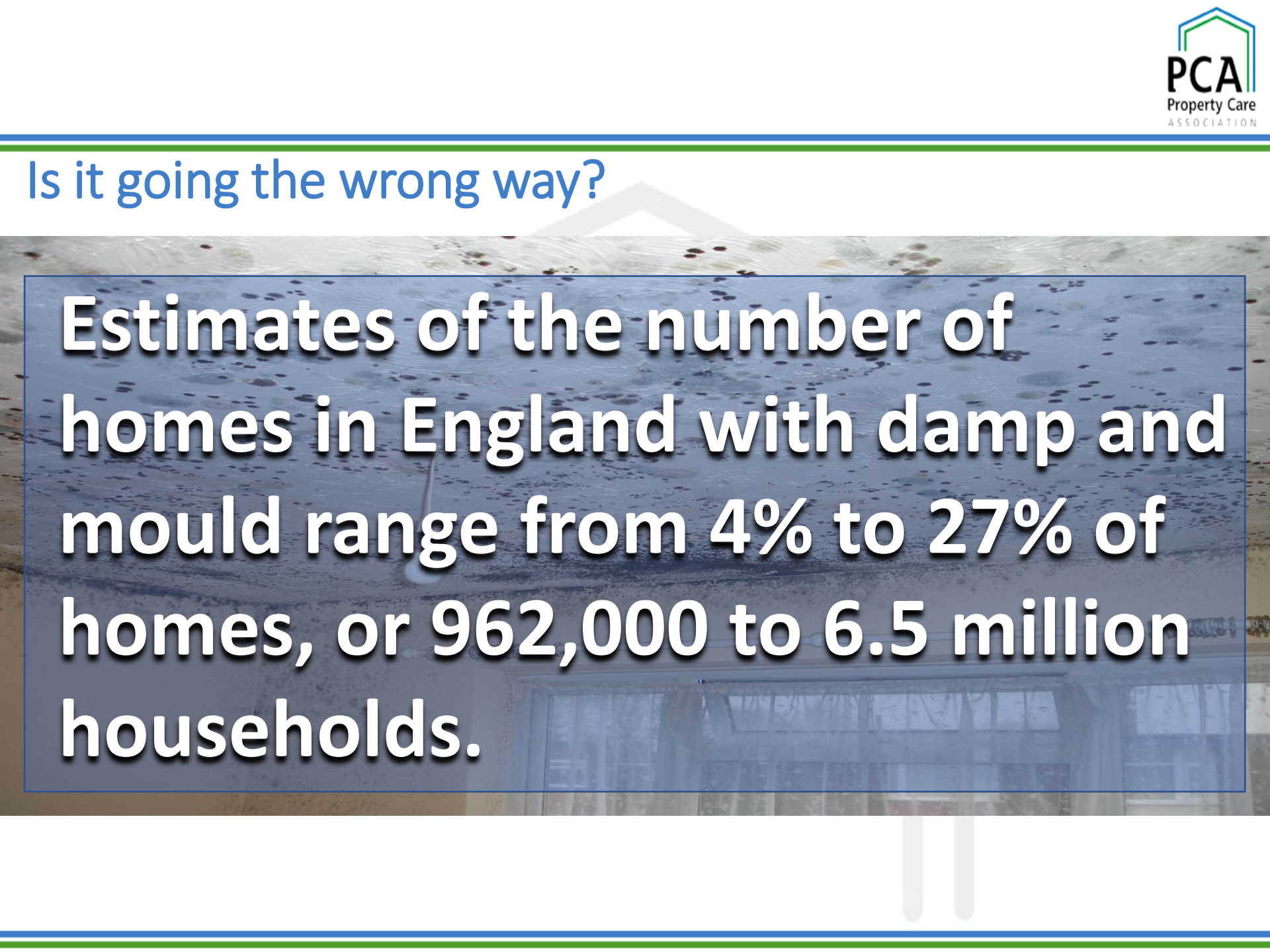


Dampness in domestic dwellings

The background of the slide is a photograph of a wall with significant mold and water damage. The wall is covered in numerous dark, circular spots of mold, particularly concentrated in the upper half. A white light switch is visible on the left side of the wall. The overall tone of the image is grey and brown, indicating a damp and unhealthy environment.

“It is estimated that the effects of poor housing in the UK on the NHS is estimated to cost £2.5 billion per annum”

Is it going the wrong way?

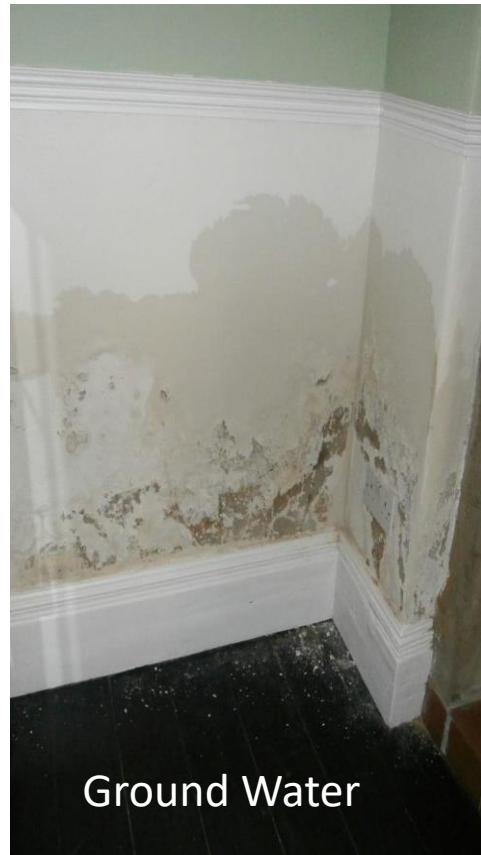
The background of the slide is a photograph of a wall with significant mold and water damage. The mold appears as dark, irregular patches on a lighter-colored surface. A window is visible in the lower part of the image, partially obscured by the text box.

Estimates of the number of homes in England with damp and mould range from 4% to 27% of homes, or 962,000 to 6.5 million households.

A sign of the times?

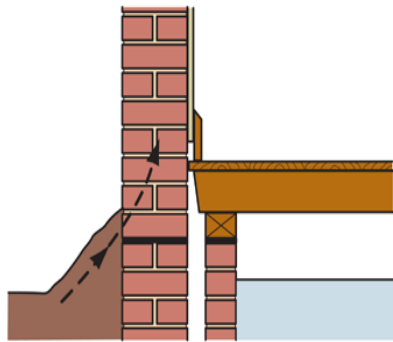


Broadly Speaking.....

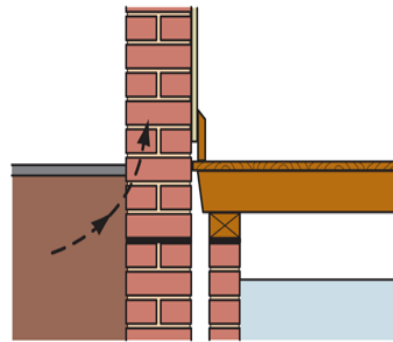




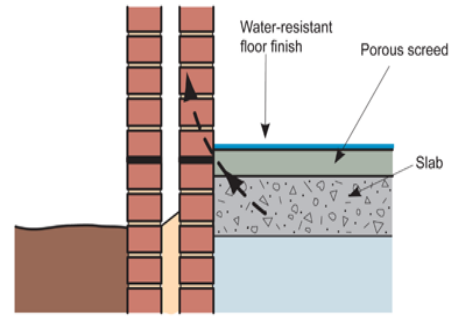
Reproduced from BRE Digest 245 (2007) "Rising Damp in Walls: Diagnosis and Treatment"



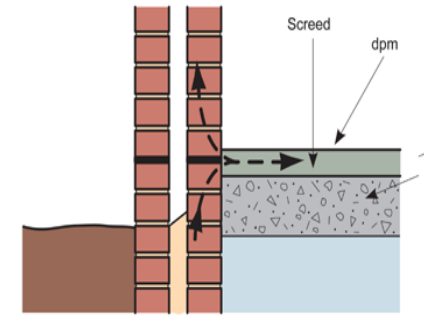
Bridging by earth



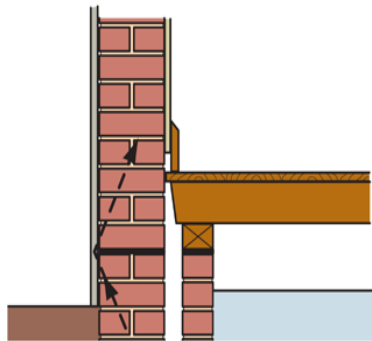
Bridging by path



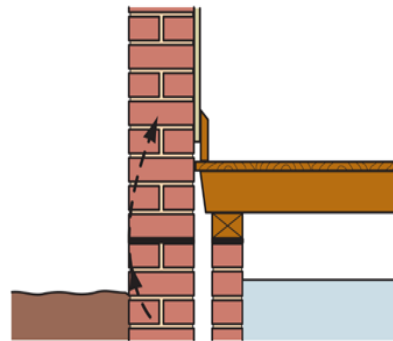
Bridging by floor screed



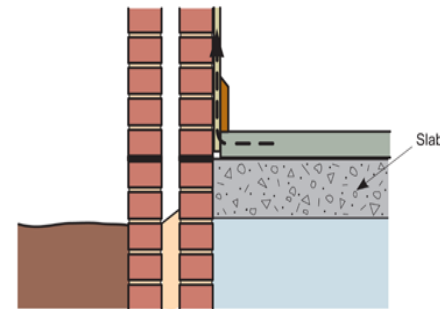
Bridging by floor screed



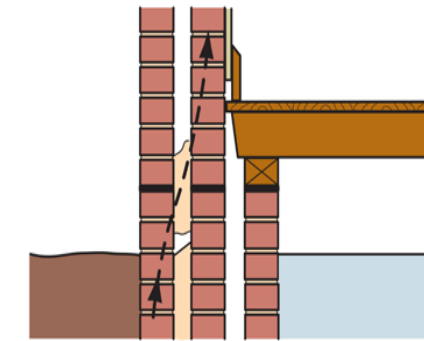
Bridging by rendering



Bridging by mortar pointing over DPM



Bridging by plaster taken below finished floor level



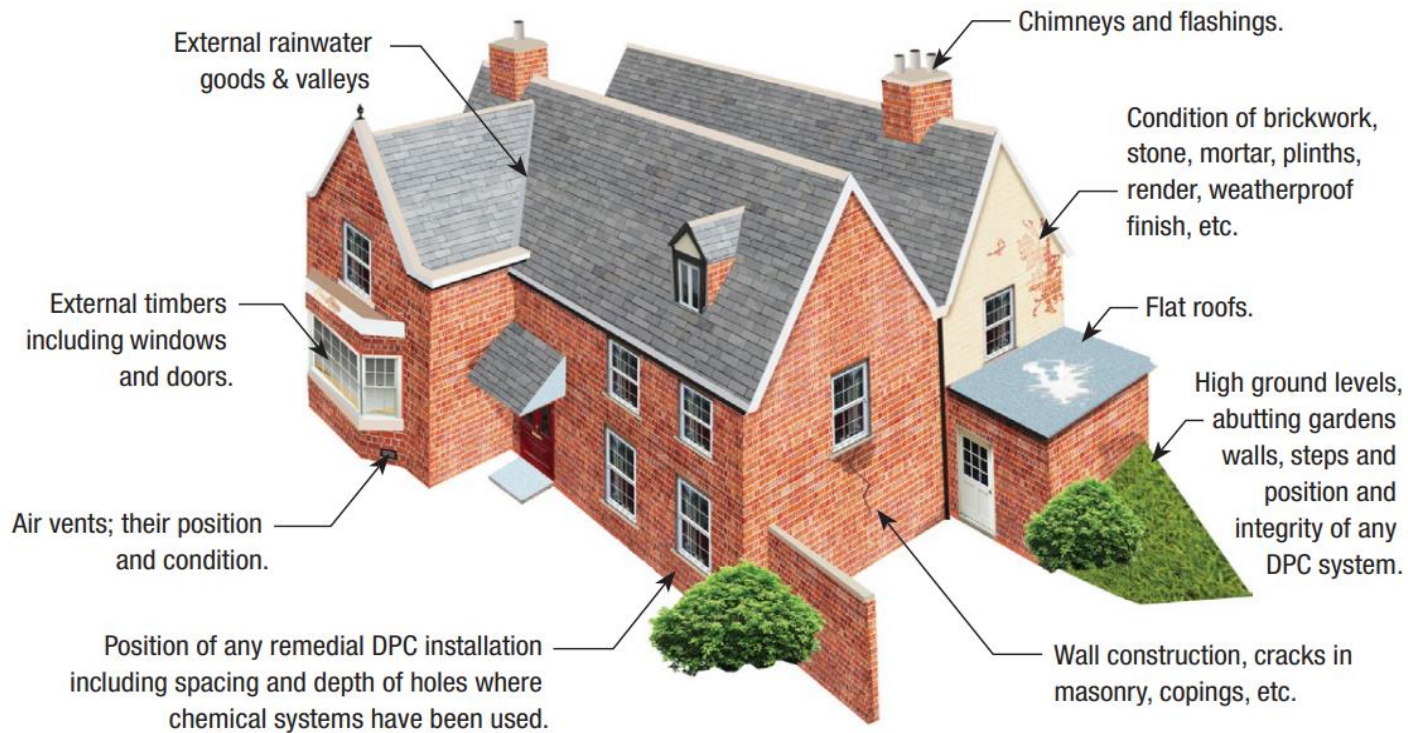
Bridging by mortar dropping in cavity



Debris in Cavity?



Rainwater Penetration

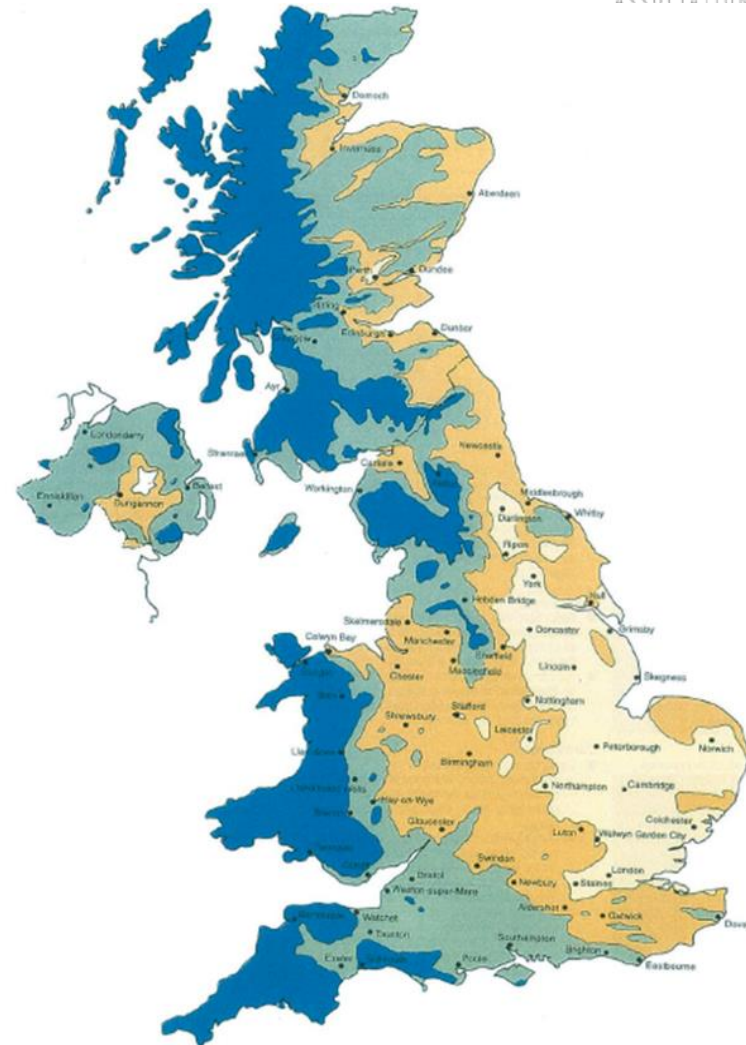


UK Weather Exposure Zones

- BRE rainwater penetration map
- From BRE 262

Exposure zones	Approximate wind-driven rain* (litres/m ² per spell)
1 Sheltered	less than 33
2 Moderate	33 to less than 56.5
3 Severe	56.5 to less than 100
4 Very severe	100 or more

* Maximum wall spell index derived from BS 8104



Diagnostic features - Guide

Rising Damp/ Ground water	Rainwater Penetration	Plumbing Defect	High Humidity
No mould growth	Signs of external defect	Possible mould growth	Mould growth
Tide mark	Can be very wet conditions	May be similar to rainwater penetration but not weather dependent	Samples from within the wall will not be damp if surface condensation is the sole cause
Presence of salts	Will be influenced by external weather	Can be very wet conditions	Water beading on the surface
Base of the wall			Corners, high and low level, behind furniture items
Remains unchanged over long periods			Seasonal
			Run Marks
			No Salts

Dry Rot *Serpula lacrymans*





Dry Rot *Serpula lacrymans*



Health effects

- Predominantly affect the airways and lungs.
- Increased risk of airway infections
- Eczema
- Mental Health



"Tenants should not be blamed
for damp and mould."

"Damp and mould in the home are
not the result of 'lifestyle choices'"



Why It's not 'lifestyle'?

- Infers blame – likely to cause conflict and break down in relationship
- Suggests that it is the residence choice to live that way.
- Personal circumstance may heavily influence conditions



Audience Participation Time

- Breathe?
- Wash?
- Cook?
- Have a pet?
- Dry clothes inside?
- Have heating on constantly?



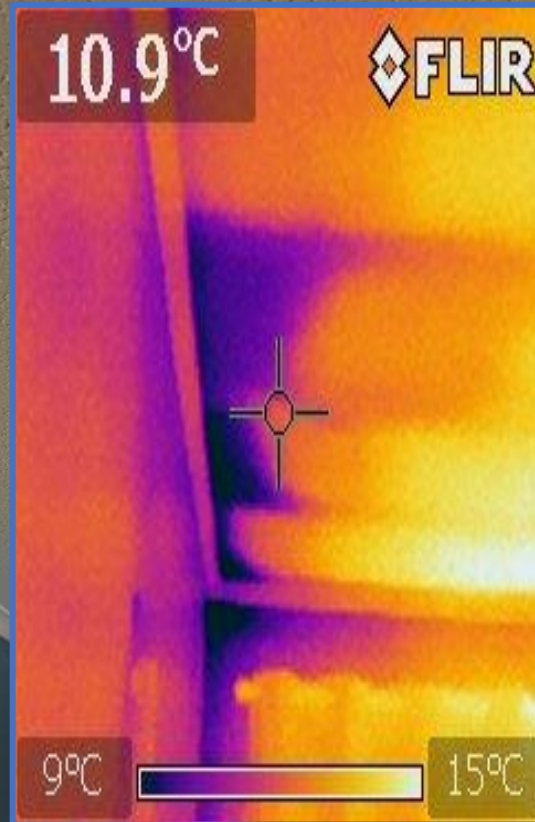
Where does the water from?

Table 11 — *Typical moisture generation rates for household activities*

Household activity	Moisture generation rates
People	
– asleep	40 g/h·person
– seated, office work	70 g/h·person
– standing, housework	90 g/h·person
– moderate manual work	300 g/h·person
Cooking	
– electricity	2 000 g/day
– gas	3 000 g/day
Dishwashing	400 d/day
Bathing/washing	200 g/day·person
Shower	600 g/shower
Washing clothes	500 g/day
Drying clothes indoors	1 500 g/day
Washing floors	200 g/day
Plants	20 g/day·plant







Moisture production

We must accept that moisture production in dwellings is inevitable;

Cooking, showering, breathing etc..

We must therefore ensure that the building has means to manage it....

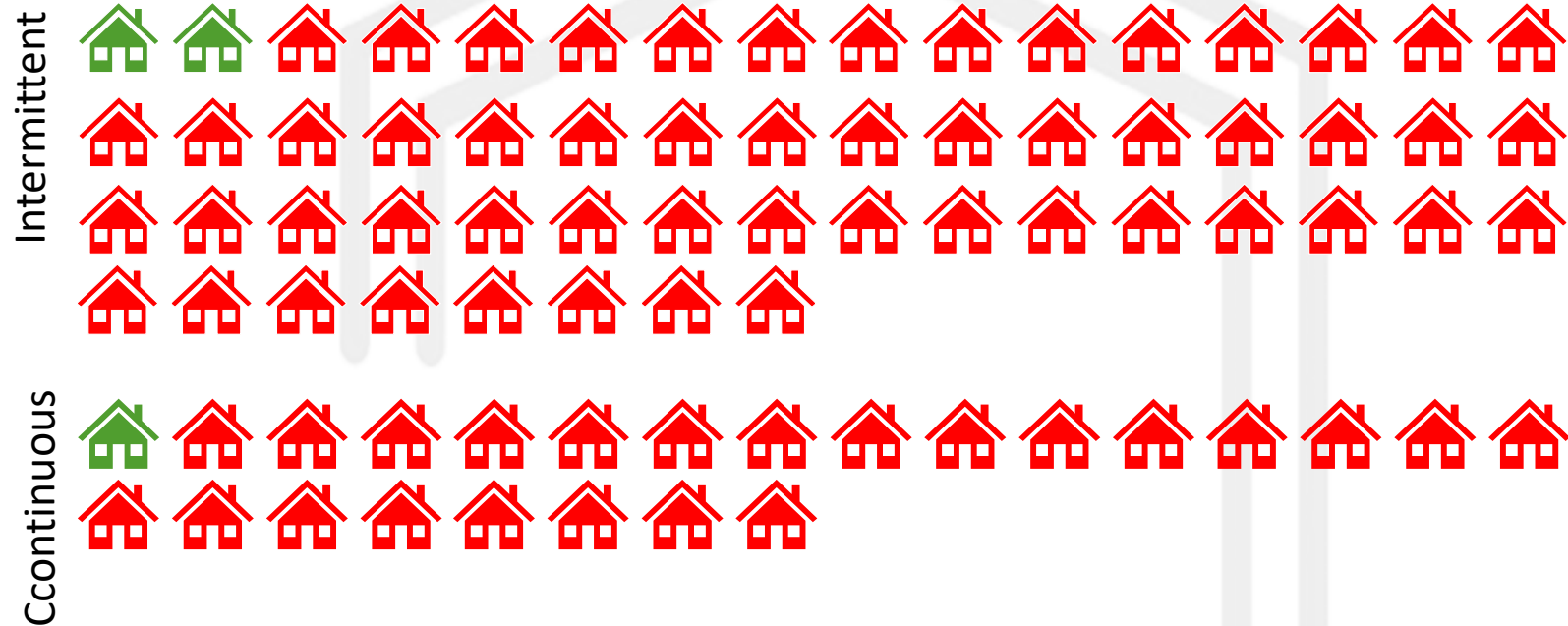


Ventilation and indoor Air Quality in New Homes



Study of **80 homes**
Published in 2018

Ventilation and indoor Air Quality in New Homes



Ventilation in New Homes



If we are struggling to get this right in new builds

Where does that leave our existing housing stock??


Condensation in



Another example.....



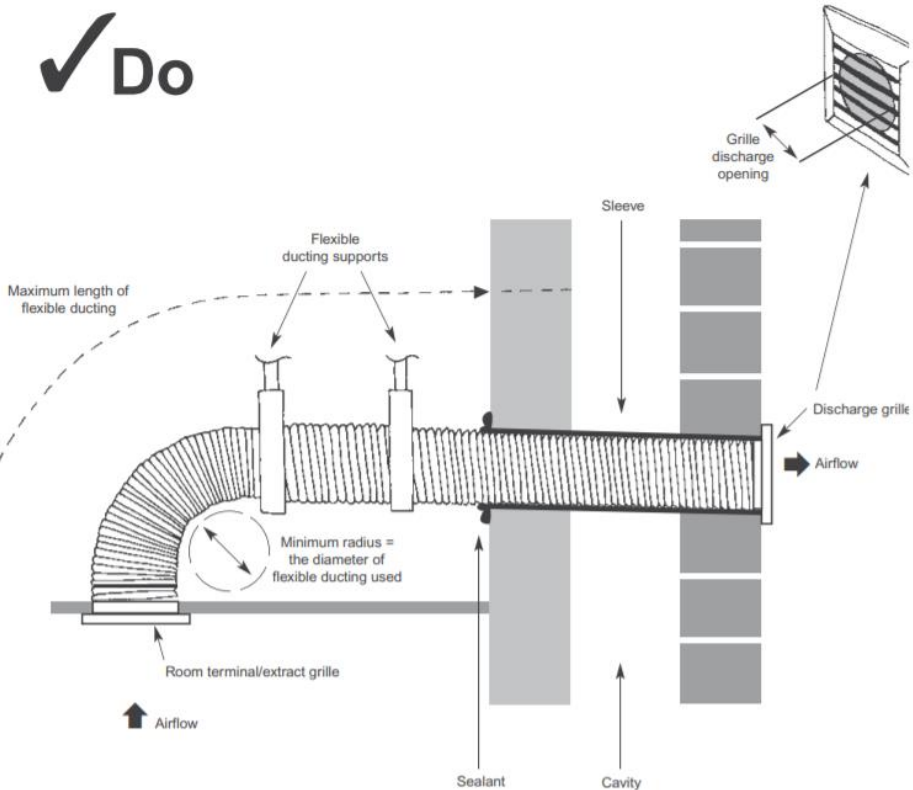




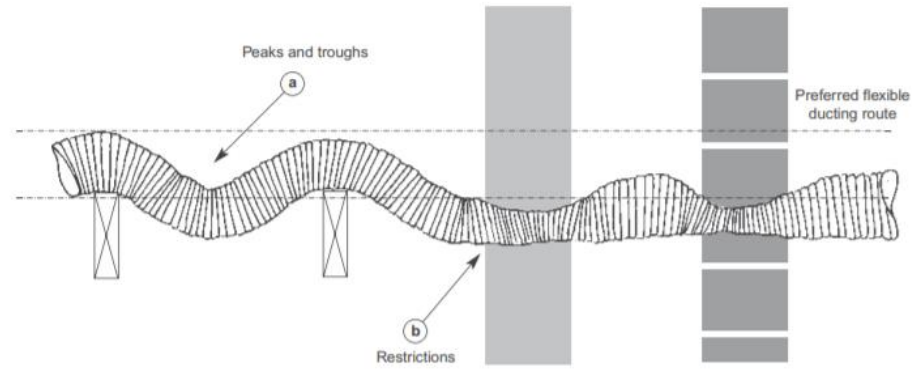
BSRIA : “poor quality installation of flexible ductwork is the principal cause of ventilation problems in domestic buildings”

Ducting

✓ Do



✗ Don't



Domestic Ventilation
Compliance Guide:
2010 Edition







Dealing with the root cause



Data Driven Approach

- Can we look to preempt issues?
- Technology now allows us to access environmental conditions
- Allows us to support our observations with data and focus any remediation



Time to move on from blaming lifestyle?

- How we operate our building has a role to play – but who is tell us how?
- Deal with the root cause
- It provides a barrier to good diagnostics – Which is KEY



THANKS For Listening

For more help, information, technical docs or general updates,
check out the links below



www.property-care.org



[Linkedin.com/company/property-care-association](https://www.linkedin.com/company/property-care-association)



[Facebook.com/PropertyCareAssociation](https://www.facebook.com/PropertyCareAssociation)



[Twitter.com/pcapropertycare](https://twitter.com/pcapropertycare)



11.20 – 11.35

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Flooding Risk - Predicting and Mitigating the Full Impact of Flood Disasters including a social housing sector case study. Q&A.



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Grace Miller
Previsico



[PDF Previsico HAMMAR July 2024.pdf](#)

Asbestos - HSE 'Your Duty to Manage' Campaign
2024 – context/briefing + compliance update/
refresher. What you need to know, common
compliance regime weaknesses and solutions. Q&A.



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Catherine Howard
Senior Asbestos Consultant
(Joined by John Evison,
Director/Co-Founder)
iON-Consultants.

Asbestos: Your Duty

HAMMAR Midlands Asbestos Update

Cat Howard CoCA LFAAM



Agenda

1. Introduction to iON Consultants – a different approach
2. The call for change – recent government thinking
3. The HSE Campaign – Asbestos: Your Duty
4. Our sector observations – the good, the bad and the ugly
5. Back to basics – advice for property managers
6. How can we help?
7. Q&A

Introduction

iON Consultants is an independent multi-disciplinary Safety, Health, Environmental and Quality (SHEQ) consultancy specialising in asbestos assurance, construction safety, ISO management systems, health and safety and training.

We have redefined asbestos management and offer a unique approach to duty holders.

Our mission is to raise industry standards, foster ethical business practices and cultivate a sustainable and resilient safety culture.

Our experienced asbestos specialists have worked as consultants, contractors, UKAS assessment managers and duty holders. We draw on this comprehensive skill set to support all aspects of asbestos management. Together, we are proud to lead the way in driving quality standards up across the industry.

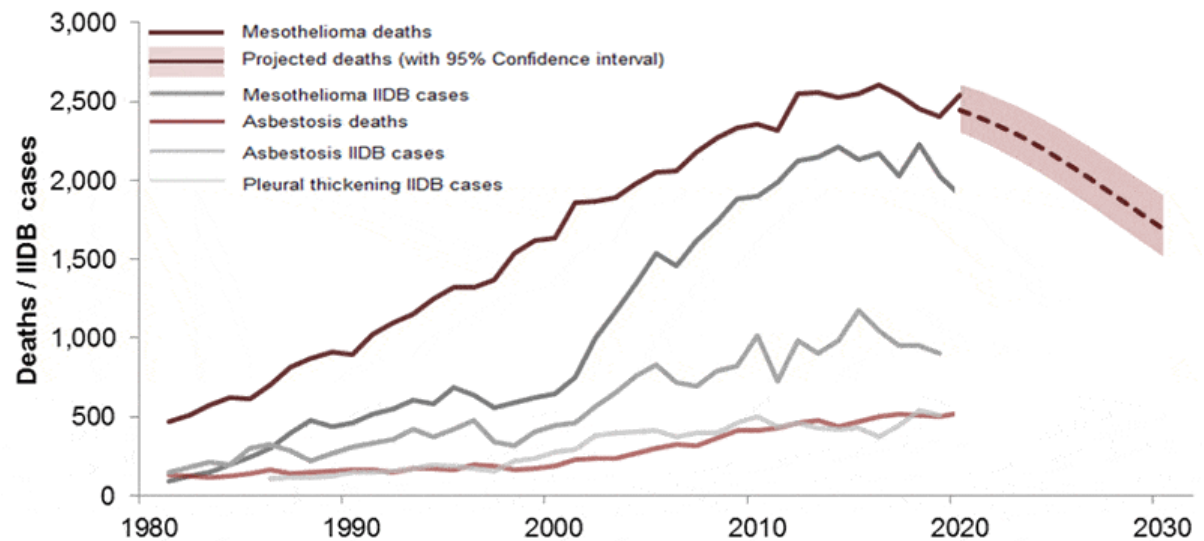
<https://www.ion-consultants.co.uk/>



iON

Change
e

Asbestos is the single greatest cause of work-related deaths in the UK.
Over 5000 asbestos-related deaths a year!





ResPublica
report

Nov 2019

Call for
Reform by
the HSE

Sep 2020

WPC
Start its own
review

Jul 2021

WPC Report

Apr 2022

Inquiry into asbestos management in the UK by the Work and Pensions Select Committee (WPC)

Airtight on
Asbestos
Lobbying

Jul 2020

 AIRTIGHT ON ASBESTOS

Minister
Response

Sep 2020

 Department
for Work &
Pensions

Oral evidence

Nov 2021 to
Jan 2022



House of Commons
Work and Pensions
Select Committee

Gov Response

Jul 2022



House of
Commons



Joint data
analysis
report
presented
Nov 2022



HSE
Awareness
Campaign
Apr 2023



Retained EU
Law Act
CAR12 ✓
Jun 2023



Asbestos
(national
register) Bill
Sep 2023



Clearing the
air report
Dec 2023

Post inquiry activities

HSE's 2nd PIR
for CAR12
Jan 2023



RSS new
Tenant
Satisfaction
Measures
(BS03)
Apr 2023



HSE
Inspection
report for
schools
Jul 2023



Dutyholder
feedback
(surveyors &
analysts)
Nov 2023



HSE
Awareness
Campaign
Jan 2024

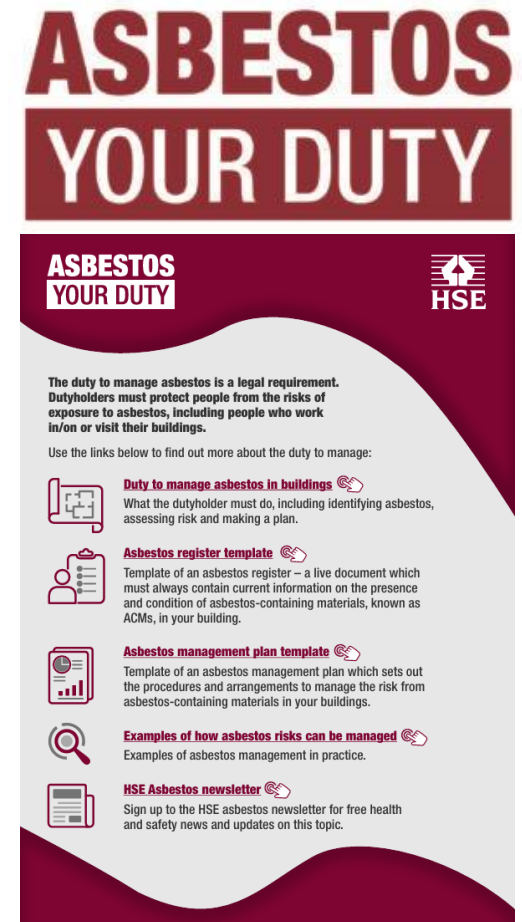


HSE Campaign

Launched in January 2024

Updated information, new templates and explanatory videos via the HSE's website and social media platforms

Campaign is HSE's #1 priority with a declared intent to name and shame non-compliance



HSE resources



The duty to manage asbestos in buildings

Thursday May 09, 2024

In this podcast, HSE experts discuss the legal obligation to manage asbestos in non-domestic buildings, highlight where asbestos is likely to be found and explain why it is dangerous.



There is negligible risk.

Observations



Our observations have been gathered over many years' experience of working in the housing sector and more recently through conducting sector wide compliance reviews

The good....

Good practice has been observed in the following areas:



- ✓ AMPs are generally in place
- ✓ Management of asbestos in non-domestic premises
- ✓ Procurement of asbestos suppliers
- ✓ Asbestos related training and refresher cycles

The bad....

Poor practice has been observed in the following areas:



- ✓ Shortfall in domestic property asbestos information
- ✓ AMP and procedures not regularly reviewed
- ✓ Poor or inconsistent implementation of procedures
- ✓ Too much reliance on suppliers with a conflict of interest
- ✓ Lack of independent auditing

The ugly....

Dangerous practice has been observed in the following areas:



- ✓ Unreliable asbestos register data
- ✓ Communication of asbestos information
- ✓ Reactive work resulting in asbestos incidents
- ✓ CDM compliance with project work

The ugly case study

Fire improvement project in a HA culminating in a RIDDOR notification and asbestos exposure incident. iON conducted the investigation and supported the dutyholder through the incident.

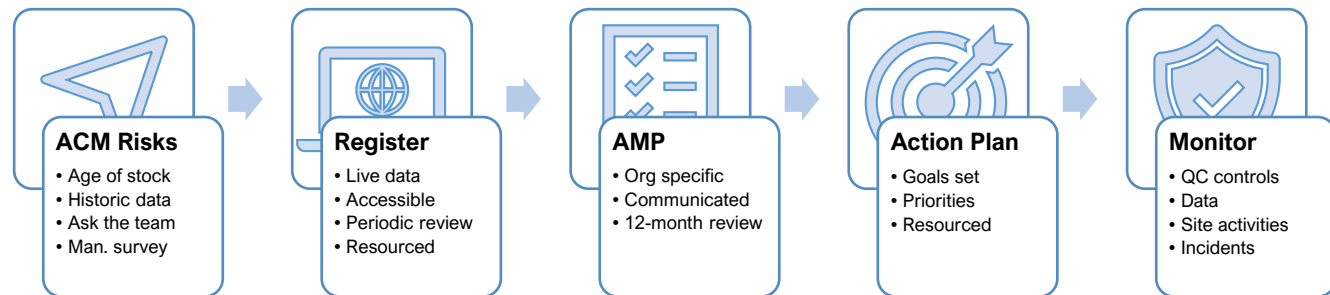
Key lessons:

1. **Asbestos Survey:** poorly planned and commissioned resulting in missed ACMs and inaccurate reporting to project stakeholders.
2. **Principal Designer:** supplied inaccurate Pre-Construction Information (PCI) and allowed commencement of the works without a Construction Phase Plan (CPP).
3. **Principal Contractor:** did not produce a CPP, commenced work without suitable asbestos information, allowed staff on site without suitable asbestos training.
4. **Client:** did not ensure the PD and PC carried out their duties and did not have a suitable asbestos emergency procedure in place to deal with the incident.

Highlights the importance of checks on contractors and resilience testing of emergency procedures.

Back to basics

Principles - Plan | Do | Check | Act



ACM risks

What Does Good Look Like?

- ✓ Ongoing review of survey data accuracy
- ✓ Consider updating original management surveys at regular intervals
- ✓ Consider surveying all domestic properties
- ✓ Refurbishment and/or demolition surveys scoped robustly and communicated via CDM pathways
- ✓ Effective communication to all stakeholders
- ✓ Regularly monitor ACM risks via periodic inspections
- ✓ Update register post-remediation

Register

Ease of
access

Stand alone or
bolt-on

Be clear about
functionality

Data is
transferrable

Resilience and
data security

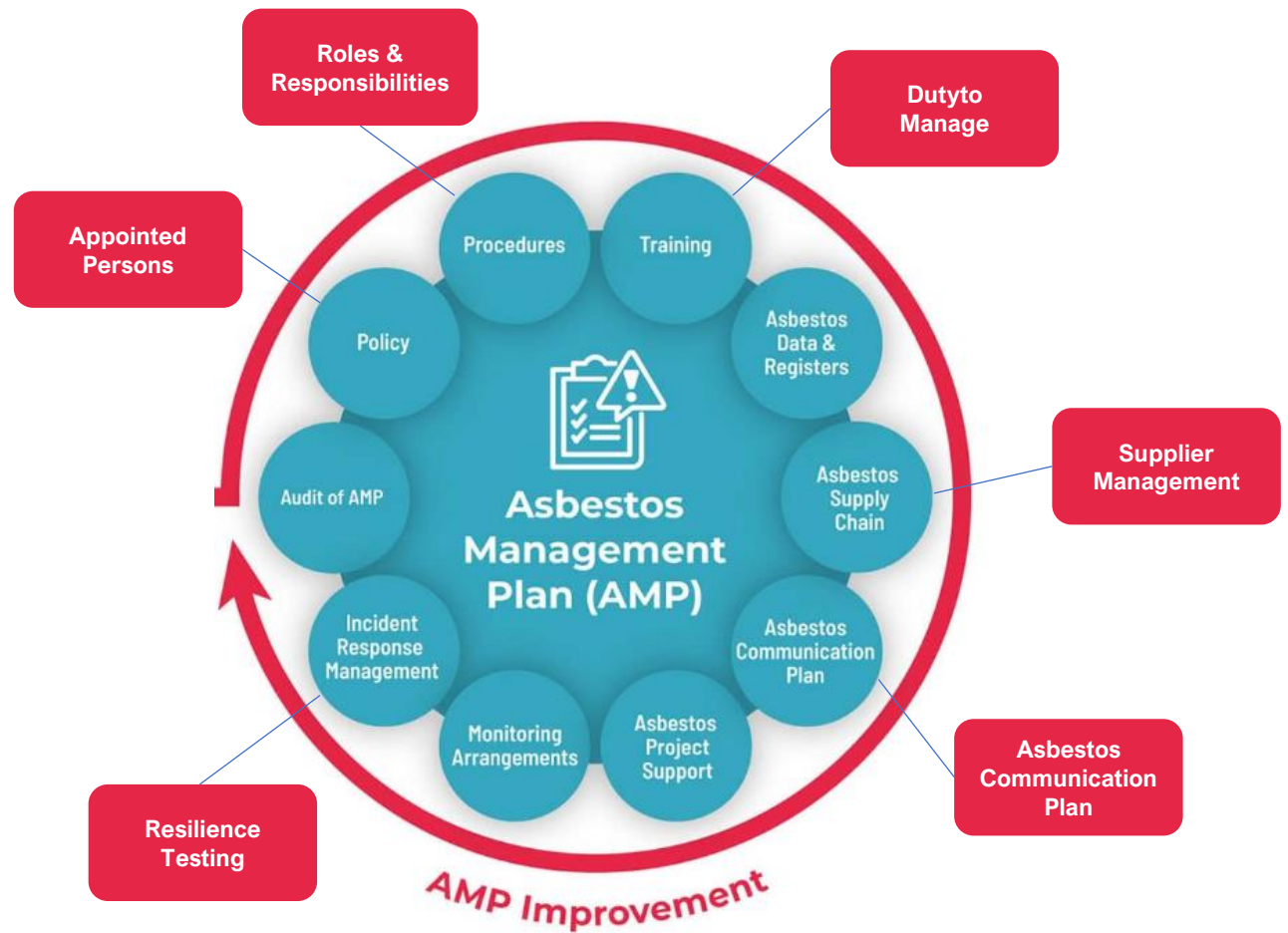
Interface with
survey
software

One stop
shop

Ease of
updates

MI
reporting

Asbestos Management Plan (AMP)



Action plan

actions and priorities
for ACMs in the
asbestos register,
take the following

High potential to release
fibres (e.g. MRA >10) prioritised
for immediate action

ACMs in good condition, with a
high potential for disturbance,
protected or removed

ACMs likely to be disturbed by
any planned refurbishment
works must be removed unless
work can be designed to avoid
the ACMs

Some ACMs may require more
frequent condition checks to
inform long-term management
actions

Activity changes to locations
and will require a review of the
actions and priorities

If new information becomes
available through surveys or
condition checks, include their
impact and prioritise in the
action plan

ACMs are usually safer to
leave in place

ACMs in good condition must
be regularly inspected

ACMs that are damaged must
be repaired, protected, sealed
or removed

Helpful to set both short and
longer term actions

Clear, time-based and
reviewed

Monitoring

When to review AMP

Changes to organisation / personnel

If ACMs have been disturbed

When work takes place that affects ACMs

Following scheduled condition checks

Quality assurance of asbestos inspections

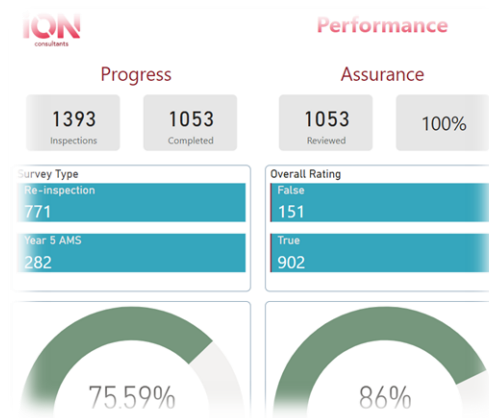
Client checks HSG264 [‘Green boxes’](#)

UKAS accreditation is a good start

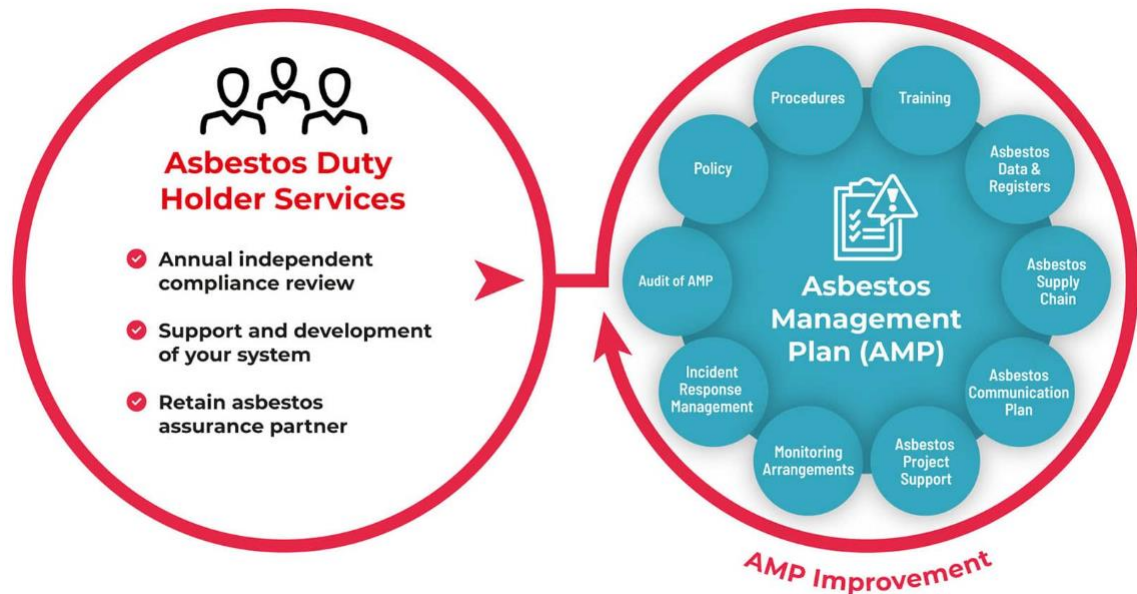
Quality assurance of remedial work

Non-Licensed Work
Inhouse or Competent Contractor

Residual ACM risks
Hidden in CfR or Statement of Cleanliness



Support



Support services:

- ✓ Compliance Reviews
- ✓ Register Configuration
- ✓ Supplier Procurement
- ✓ Project Management
- ✓ Incident Investigations
- ✓ AMP and Procedure Development
- ✓ Data Assurance
- ✓ Supplier Auditing
- ✓ Certified Training
- ✓ Expert Witness

Question
s





Contact Us

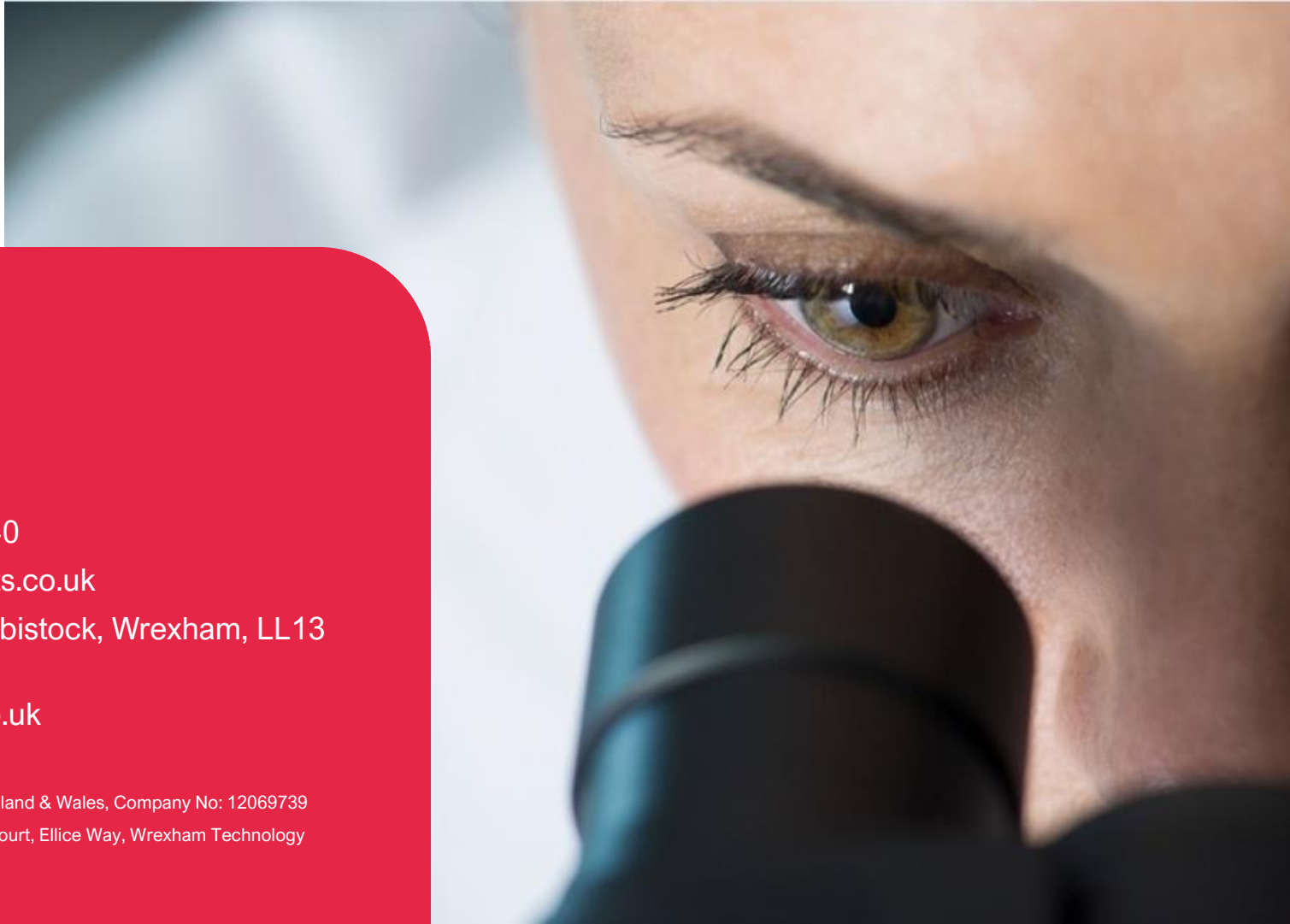
t: +44 (0) 845 862 3840

e: info@ion-consultants.co.uk

a: Rose Hill Offices, Erbistock, Wrexham, LL13
0DE

w: iON-Consultants.co.uk

iON Consultants Ltd, Registered England & Wales, Company No: 12069739
Registered Address: Unit 10 Edison Court, Ellice Way, Wrexham Technology
Park, Wrexham, LL13 7YT



13.05 – 14.00

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Topical Subject Suggestions – open to the floor.
A chance also to discuss current challenges that
delegate organisations are facing/ addressing.



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Open Discussion

Fire Stopping – Compliance + obligations explained together with good practice approaches. What you need to know to avoid disaster, spot what might be compromising fire integrity in your buildings and ensure seamless service provision.



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Angharad (Harry) Parry
Fire Safety Consultant
Ventro Group

NHMF Net Zero Study Tour 2024 briefing –
Sweden trip brief report.



National Housing
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Julian Ransom
NHMF Man. Committee.

NHMF Study Tour 2024

Speaker:

Julian Ransom BSc MRICS
| NHMF Committee
| Director iON Consultants



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2024

NHMF Vision

The NHMF is the leading body representing housing providers in delivering excellence in maintenance and asset management services through:



Championing
innovation



Bringing organisations
and people together



Sharing and
celebrating knowledge
and best practice



Collectively improving
standards



Being well managed
and financially
sustainable



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**NHMF
Maintenance
Conference
2024**

Where we've been:

Every year the NHMF organise a study tour to look at best practice.

Previous study tour locations have included:

- Netherlands
- Denmark and Sweden
- Ireland
- Scotland
- Germany
- Austria – 2022
- UK - 2023





Where we went 2024

- Sweden > Stockholm in May
- Objectives:
 - Social Housing model/equivalents.
 - Refuge/immigration issues.
- Net Zero + Retrofit theme.
- Ecological + sustainability focus.
- Establish useful links (projects/research).
- Enjoy historic Stockholm + culture.
- *Visit the largest Ikea in the World.*



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What is Sweden known for?

- ABBA
- Ikea
- Volvo
- Meatballs
- The Nobel Prize
- Herring based dishes....



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But also:

- One of the most **progressive** Net Zero / **ecological development strategies** in EU.
- Most visited **flagship eco development suburb** (Hammarby Lake City 90s/2000s).
- Very widespread **Heat network** adoption.
- Amongst the **Lowest Heat pump install costs** worldwide.
- **Largest residential development** in Europe (Royal Seaport) with biggest heat pump + biomass plant in the EU.

However:

- Difficult 60s/ 70s concrete block estates (**Million Homes Program**)
- Highest **gun crime** death rate in EU.
- Blighted **estates/ challenges** around immigration.



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WHO (our hosts facilitating the visit):

- The City of Stockholm (guided technical tours) + model city.
- City Energy + ecology expert guide.
- Stockholm Technical University.
- National and Regional governmental housing bodies.
- Large public housing Co. (*HA equivalent?*).
- Progressive Energy Cos.
- City of Stockholm Museum.
- Tenant / occupant lead pressure group (Electricity).
- Old City walking tours.



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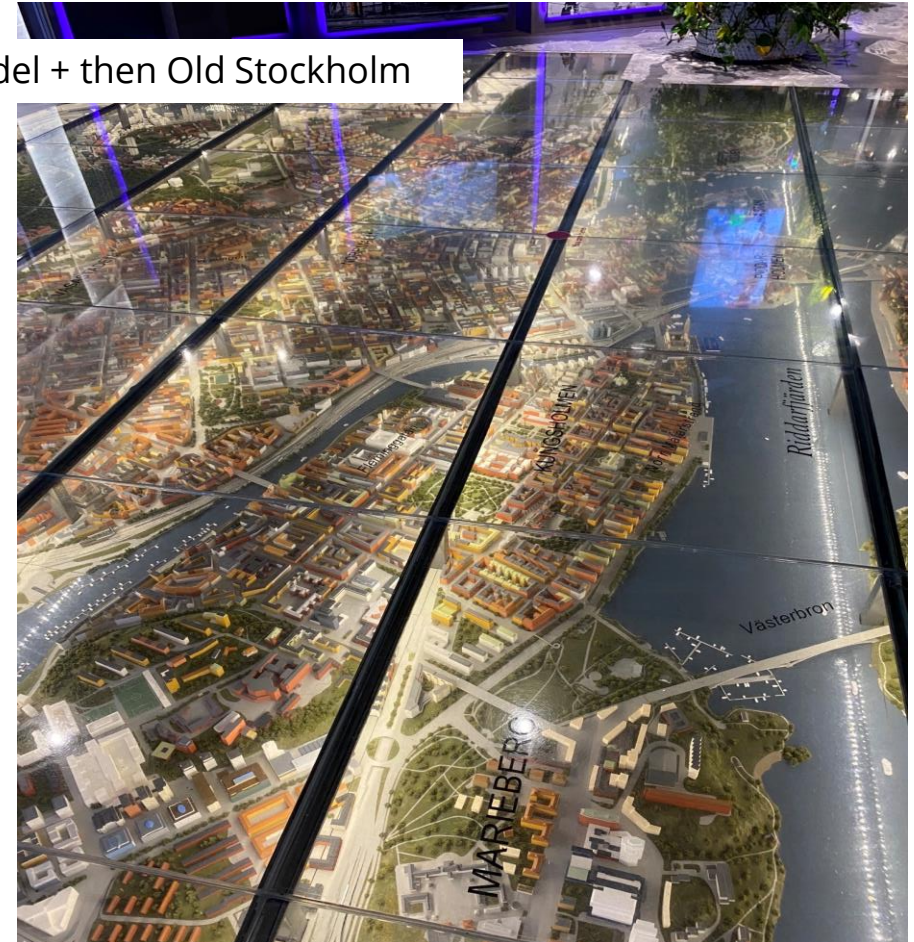


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Historic Stockholm

Public Housing in Sweden.

- In 1922 to 1932 Swedish experiment with 'Social Housing'. 10,000 homes. BUT Stigmatised / alienated / demeaning so rejected.
- Rent subsidy system employed instead.
- More than 3 out of 10 million Swedes live in rental housing.
- Over half live in public housing, i.e. municipally owned rental housing.
- However, there are also challenges.
- Million Homes Programme needs extensive improvement work.
- A need to invest in energy efficiency improvements.
- 'Exclusion' needs combating in many residential areas.
- Housing shortage but build costs high.
- Legislation means public housing companies have to combine social responsibility with a business-like approach.



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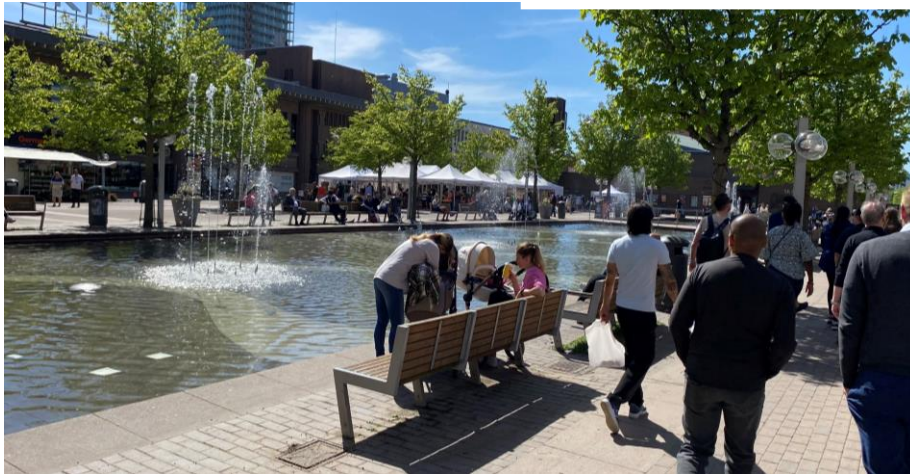
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Focus Skarholmen: Million Homes Programme.



Focus Skarholmen: Million Homes Programme.





Focus Skarholmen: Million Homes Programme.



Planning Action Area: Gentrification (+40% density)?



Hammarby Sjöstad Eco Suburb
(2004 Olympic Environmental Village model)



Hammarby Eco Suburb / Lake City



Hammarby Eco Suburb / Lake City



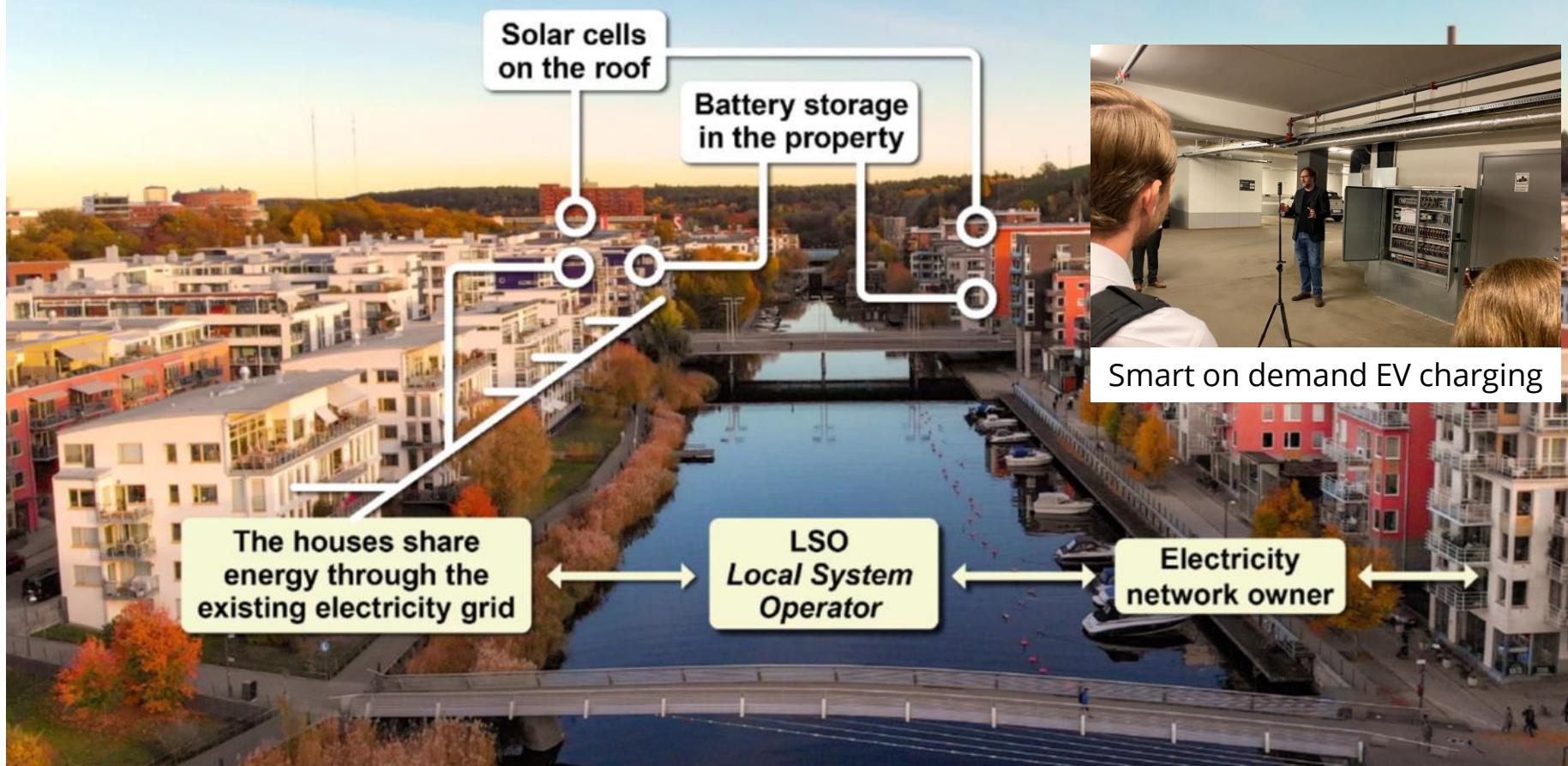


Hammarby 2.0 / Electrocitiy:

- 26 Housing Associations.
- 13,000 residents.
- Resident lead action group. Work Together.
- Original design criteria not met and greater efficiency potential.
- Joint procurement and utilities challenge > smarter working + reduced costs. Cleaning/ Garden Maintenance/ Recycling.
- Energy Group – Microgrid.
- Better data management = demand efficiencies.
- 50% less purchased energy.
- Increased Renewable/ locally produced electricity. Stored and shared.
- Smarter on-demand EV charging > cost.
- Carpool + E Bikes.

This is how a microgrid works

Hammarby Sjostad
Electrocity Energy Steering Group Initiatives.





Royal Seaport Development



Royal Seaport Development



Royal Seaport Development



Stockholm City + Targets:

- 80 - 85 % of all buildings connected to district heating system.
- The rest has heat pumps.
- Fossil fuel free city by 2040.
- Climate positive city by 2040.
- Fossil fuel-free city organization 2030



Headline 'take home' from Sweden

- Inspirational what can be achieved (capital city), but possible 50-year head start over UK. Takes time to refine *Allot to do!!*
- Heat networks contribution significant (+ fuel poverty/ >D&M).
- The role of IT / data in maximising carbon reduction.
- Effective resident group model (Electricity). Engagement for UK tenants important for success.
- Issues around immigration/refugees Global warming demands a Global solution?
- *Cranberry sauce with Meatballs!*
- Full report /conclusions on NHMF Web Site shortly!!
Conference 2025 speakers/ sponsoring research/ next year?.



Why attend?

- Learning
- Information sharing
- Networking
- New working methods
- Examples of practical applications
- Innovation
- Use of technology in practice
- 2025
Watch this space



Next HAMMAR Southwest Seminar Day: Focus: **Net Zero/ Retro Fit.**

- **Hosted by & Tour of Low Carbon Research + development laboratory Bath University** (Architecture/ Engineering Faculty).
- **Prof Peter Walker Bath University.**
 - >Hemp Lime panels/ 'BaleHaus'/ Mycelium Insulation etc
 - >'Transforming Homes' (£4.6M). Bath/ Cardiff/ Bristol/ Exeter Uni.
- **Dr Louise King**, Research Associate, Centre for Climate Change and Social Transformations (CAST) - **Overheating of Housing in the UK.** Research + retrofit design principles project.
- **Nigel Banks, Tech Dir. Octopus Energy - Zero Bills & Low Carbon Homes** - The Net Zero Essentials + Zero energy design.
- **Gemma Brookes, Energy Strategy Manager** + Retro Fit Coordinator, Orbit Group – Data Driven Retrofit + Property Passports.
- **Will Routh – Director/Co-Founder, Chirpy Heat.** Heat Networks + their role in decarbonisation/ energy provider role.

**18 July 2024 – University of
Bath**



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Thank you. Questions?



Related Topics at
the next
HAMMAR
Southwest
Seminar
18th July
Bath University.



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Please Join Us:
9th October 2024
(Midland Heart – Oldbury
Near Birmingham)

- ✓ Views on fee for event attendance
- ✓ Complete feedback form
- ✓ Hand in name badges
- ✓ Sign out
- ✓ Safe Journey Home