

# Noise - feedback from occupants of new homes

**Clive Turner** 

Research Manager, NHBC Foundation



#### Content

- Introduction to the NHBC Foundation
- Noise in homes: feedback from homeowners
  - Attached homes
  - Detached homes
- Concluding thoughts



#### NHBC Foundation - Background

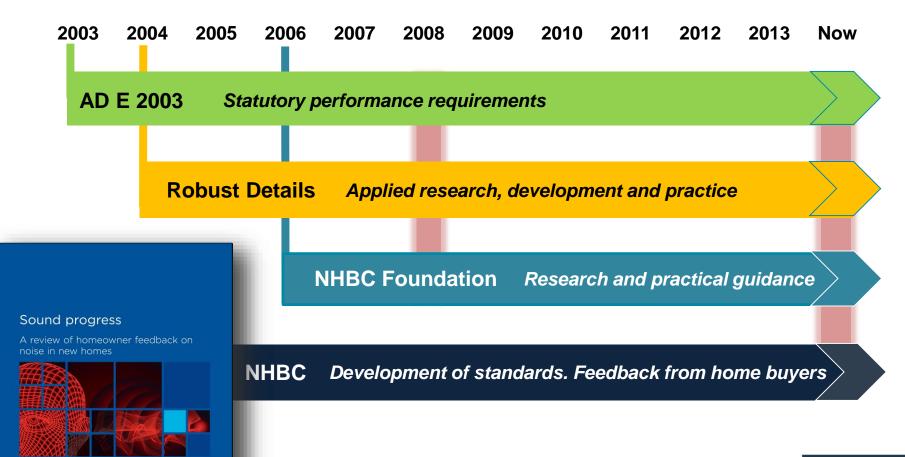
- Set up in 2006
- Carries out research related to house building
- Shares guidance & good practice with the industry
- Independent research arm of NHBC
- Feeds into policy and debate
- Industry Expert Panel informs research priorities



### Projects recently published

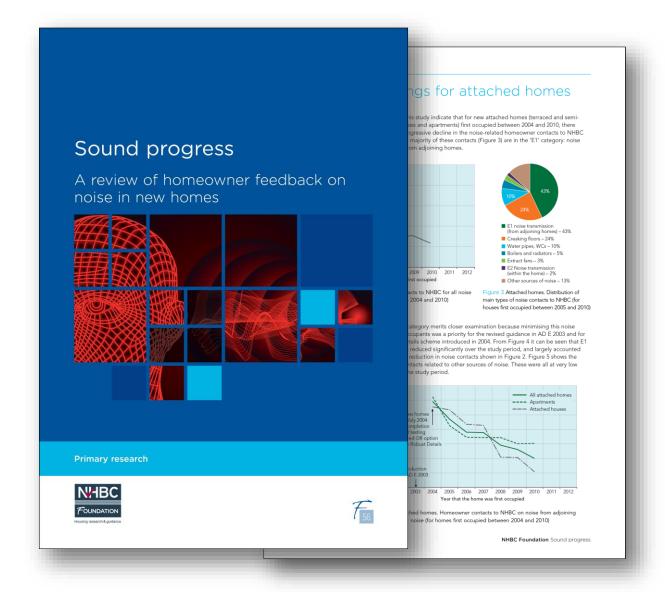


### Context and organisational relationships



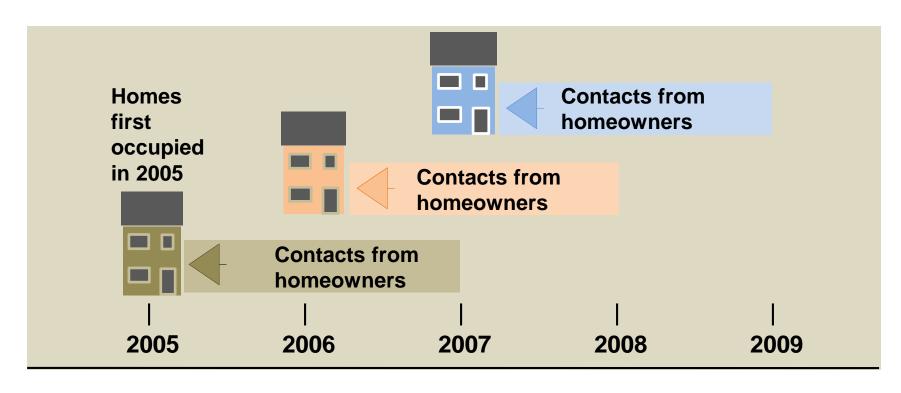


### Sound progress report – positive message from research





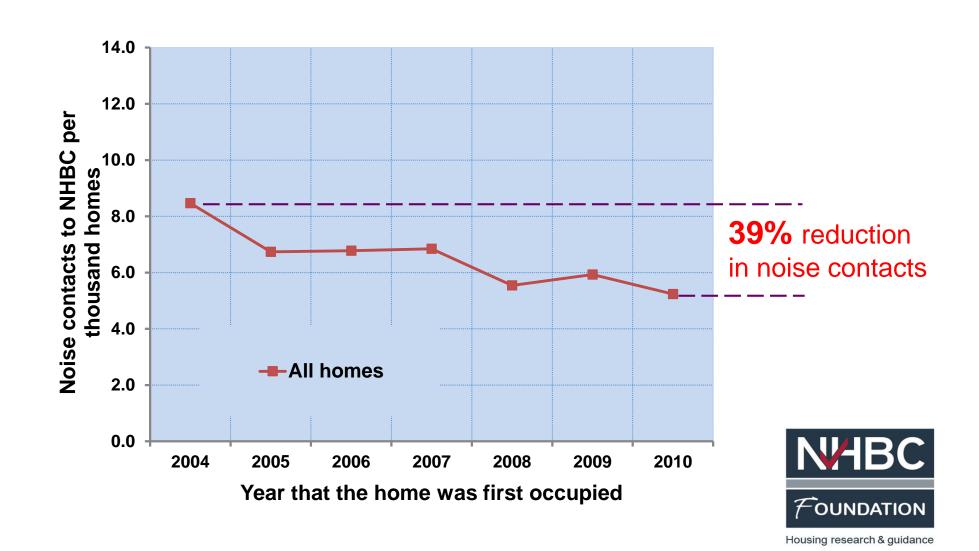
#### Data collection - for two years after first occupation



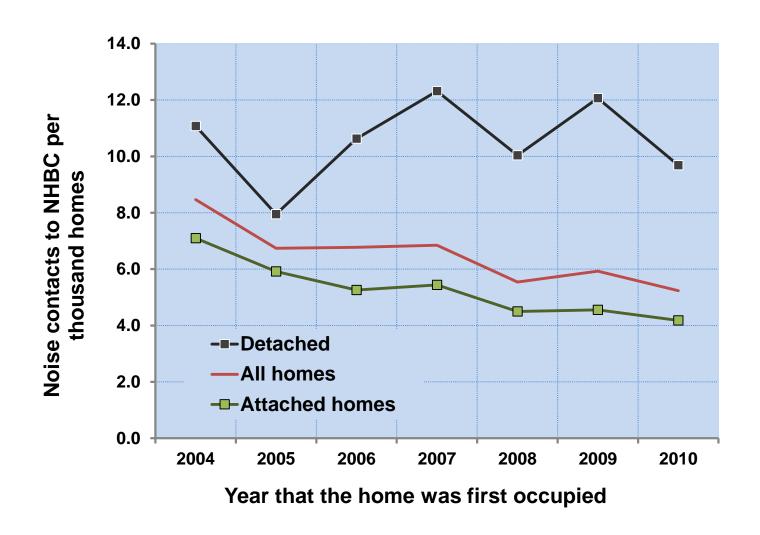
Contacts to NHBC on noise from owners of new homes



#### All noise enquiries - all home types

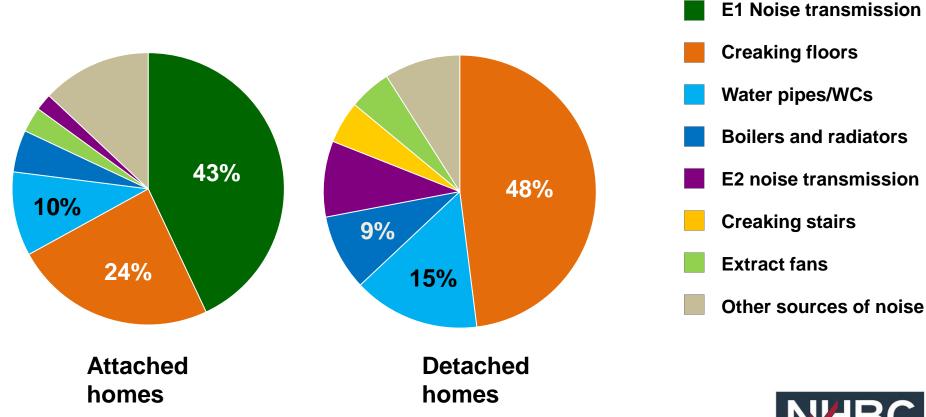


#### All noise enquiries - attached vs detached homes





## Categories of noise Attached compared with detached





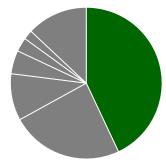
#### Attached homes

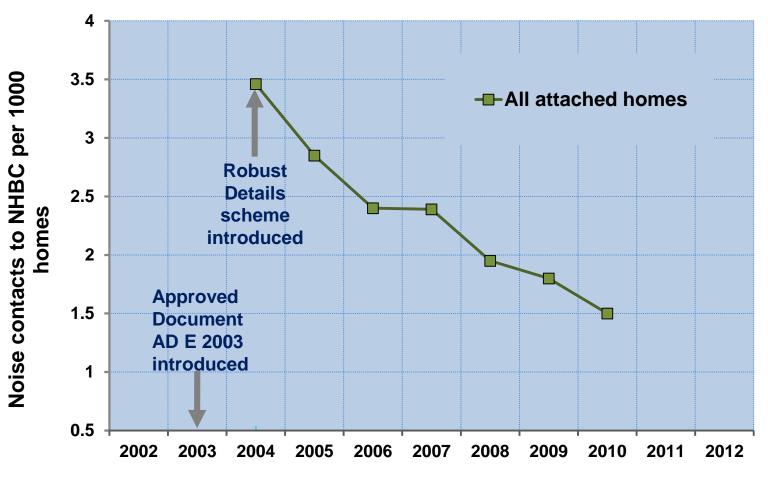






#### Attached homes - E1 Noise

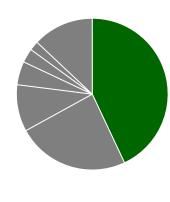




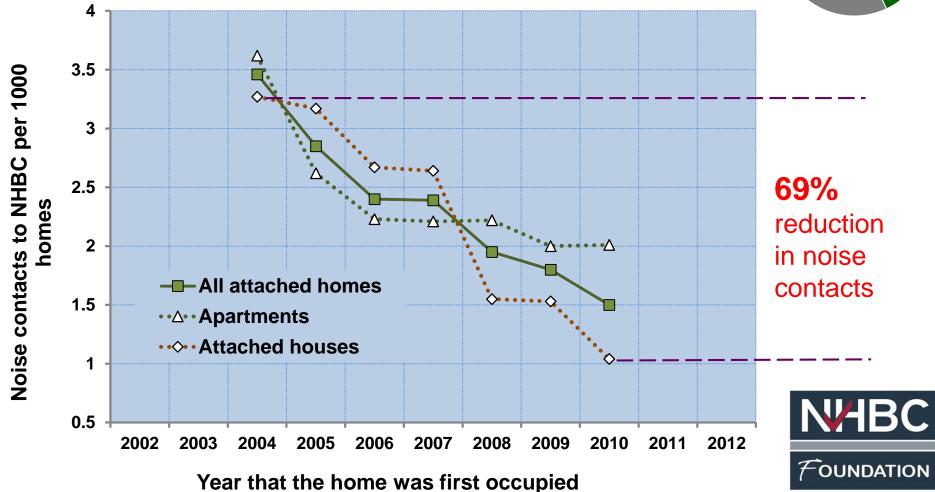


Year that the home was first occupied

## Attached homes — E1 Noise Houses compared with apartments



Housing research & guidance



#### Apartments - behaviours and expectations



'Hey, you in the upstairs apartment! How about using a silencer on that gun next time?'



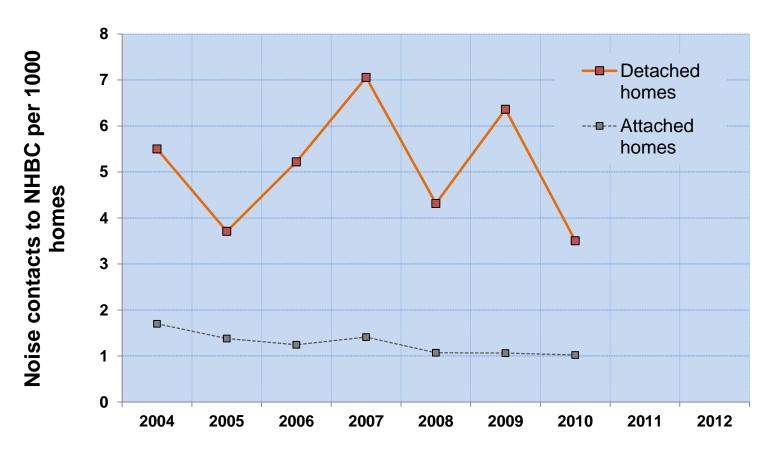
#### **Detached homes**





#### Detached homes - creaking floors







Year that the home was first occupied

#### Detached homeowner sensitivity to noise

Why are occupants of detached homes twice as likely to make a complaint about noise?

- Lower background noise?
- Higher expectations?
- Higher proportion of timber floors?
- Less tolerance of noise?

Likely to be multifactor and complex. Hence...



### Can we easily fix the problems?



#### **NHBC Standards**

From 2007, nail or screw centres at 300mm around perimeter and on intermediate supports.

Nail length x2.5 the thickness of the chipboard.

Screw length x2 the thickness of the chipboard, and gauge 8 or more.



#### Conclusions

#### Attached homes and AD E E1

- Fewer and fewer concerns over sound transmission between adjoining homes since introduction of AD E 2003 and launch of Robust Details
- Improvement trend most noticeable for houses

#### Other sources of noise (from the building fabric)

- 34% of all noise contacts relate to creaking floors
- Adopting good practice could avoid noise from creaking floors and most other sources of noise



## Concluding consideration 1 What troubles people today?



**Aircraft** 

Amorous activity

Cockerels and birds

Concerts and festivals

Construction sites

DIY

Dog barking

**Fireworks** 

Intruder alarms

Licensed premises

**Loud Parties** 



#### Concluding consideration 2 Action on noise nuisance



#### Cut crime with the Self Evident app.

Report Crime

Better Evidence

Free

Download

Terms

More

#### Noise Nuisance, Noise Pollution, Noise Complaints

\*\*\*\*\* Rated one of the top 5 apps to make life better. \*\*\*\*\*

The Self Evident app can provide the evidence to help get noise control to act, to stop the nuisance and, if necessary, to prove the case because

the time, date and location of audio, photo, and video recordings are stored and corroborated independently

the app's audio function records the volume of the noise pollution in decibels

you can record a witness statement or account of what happened and the misery it caused when the events are fresh in your mind, and

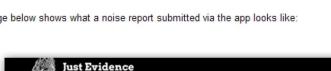
it's not anonymous.

The app allows you to build up a dossier, to secure and save your report and evidence and to send a complaint to noise control or a local councillor. Click here for details of the contacts for noise control.

The image below shows what a noise report submitted via the app looks like:

Provided by the Self Evident app

6 Reports



Noisy party in the house opposite after midnight

Incident Date: Wednesday 17th July 2013 at 02:15 | Expires in 1 year secure longer

2 4 Credits



Rob Peel | Support | Logout



## Ideas for future research are welcomed?



www.nhbcfoundation.org

info@nhbcfoundation.org