

Relish



RESIDENTS 4 LOW-IMPACT SUSTAINABLE HOMES

Relish is a joint initiative between:
Worthing Homes | Rydon | Faithorn Farrell Timms
Working in collaboration with the University of Brighton

Worthing
HOMES

Rydon

FF

Introductions

Robin Roberts: Worthing Homes

Colin Farrell: Faithorn Farrell Timms

Jeff Henton: Rydon

What is Relish?



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What are the aims of Relish?

- reducing energy consumption
- addressing fuel poverty
- minimising carbon emissions
- measuring improvements 'realistically'
- sharing best practice

How will Relish achieve this?

Sensible, low-cost retrofit works...

- rolled out across a large proportion of stock
- with residents in occupation
- alongside planned maintenance

Education and support in reducing energy consumption

Relish, just another retrofit project....?

Previous retrofit exemplars:

- high cost
- unoccupied properties
- affordable rents = no payback
- sustainable?

Relish, not just another retrofit project

Our objectives:

- affordable
- occupied properties
- incentives for residents
- sustainable

So what's unique about Relish?

We focus on the household to:

- adapt behaviour to achieve energy efficiency gains
- evaluate house energy efficiency against household lifestyles

How is CO₂ reduction measured?

- rdSAP
 - changing methodology
 - theoretical assessment with assumptions / limitations
 - variable quality of source data
 - no relationship to **actual** energy use
- BREEAM etc
 - better, but only for non-domestic assessment

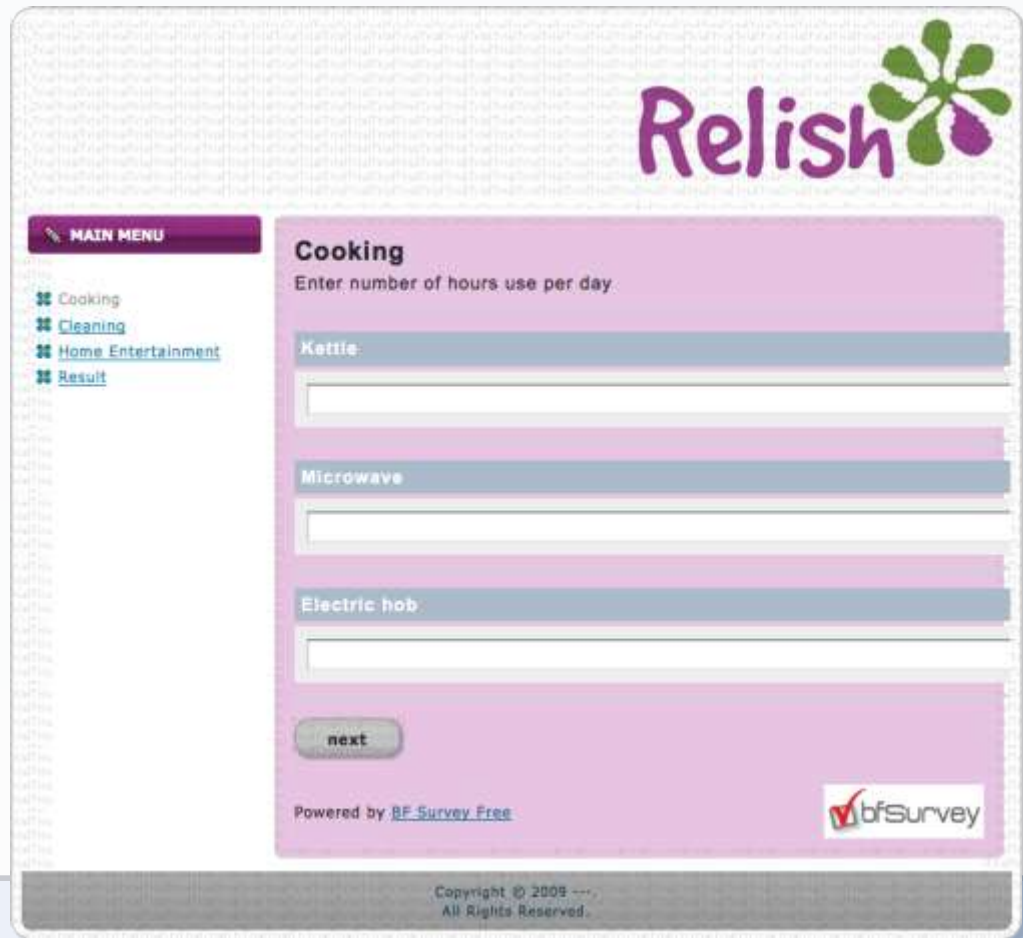
The Relish Rating

- A 'SAP rating' for the household
- Based on actual energy use
- Assessment categories
- Feedback and advice
- Incentive to improve rating
- Ongoing and updateable



The Relish Rating online

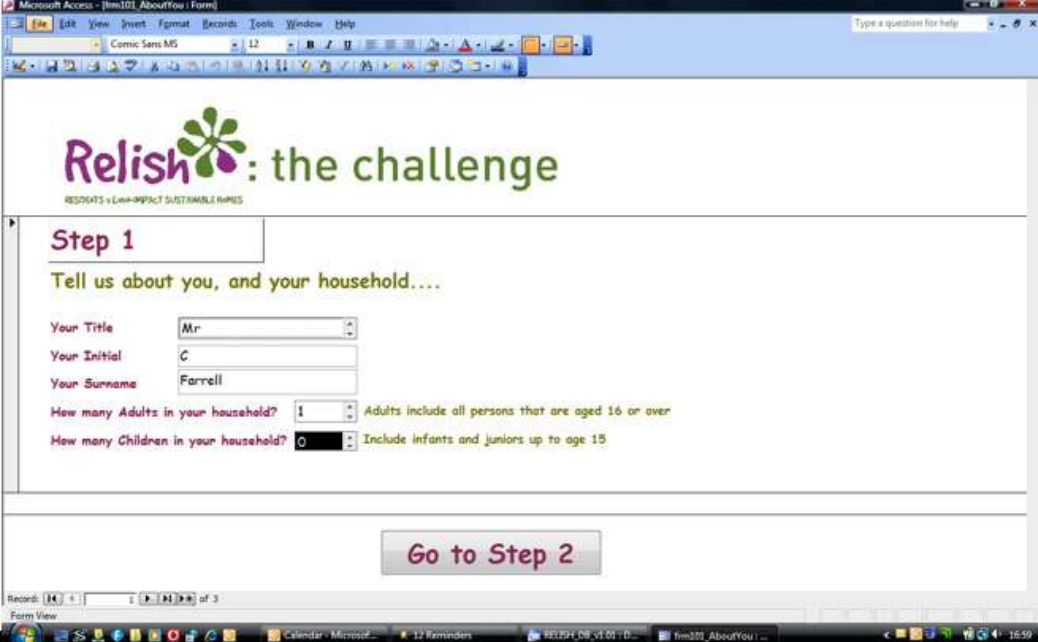
- Web-based application in development
- Option for accredited assessor or self-assessment



The screenshot shows a web-based application interface for 'Relish'. At the top right is the 'Relish' logo, which consists of the word 'Relish' in a purple, rounded font next to a green and purple stylized flower icon. Below the logo is a 'MAIN MENU' button with a magnifying glass icon. To the left of the main content area is a vertical navigation menu with four items: 'Cooking', 'Cleaning', 'Home Entertainment', and 'Result', each preceded by a small green icon. The main content area is titled 'Cooking' and contains the instruction 'Enter number of hours use per day.' Below this are three input fields for 'Kettle', 'Microwave', and 'Electric hob'. At the bottom of the main content area is a 'next' button. The footer of the application includes the text 'Powered by [BF Survey Free](#)' and the 'bfSurvey' logo.

The Relish Rating online

- Web-based application in development
- Option for accredited assessor or self-assessment



The screenshot shows a web browser window displaying the 'Relish: the challenge' online application. The page title is 'Microsoft Access - [fm201_AboutYou1 Form]'. The browser address bar shows 'Comic Sans MS'. The page content includes the Relish logo (a green flower-like shape) and the text 'Relish: the challenge' and 'RESIDENTS & Low-IMPACT SUSTAINABLE HOMES'. Below this, the form is titled 'Step 1' and asks 'Tell us about you, and your household...'. The form fields are: 'Your Title' (dropdown menu with 'Mr' selected), 'Your Initial' (text input with 'C'), 'Your Surname' (text input with 'Farrell'), 'How many Adults in your household?' (dropdown menu with '1' selected), and 'How many Children in your household?' (dropdown menu with '0' selected). To the right of the 'How many Adults' field, there is a note: 'Adults include all persons that are aged 16 or over'. To the right of the 'How many Children' field, there is a note: 'Include infants and juniors up to age 15'. At the bottom of the form, there is a button labeled 'Go to Step 2'. The bottom of the browser window shows the taskbar with various icons and the system clock showing 16:59.

The Relish pilot study



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12 month pilot study working in partnership

Our partners:

- our pilot scheme families
- Worthing Homes
- FFT
- Rydon
- The Knowledge Transfer Partnership
- University of Brighton

... and with support from:

- Constructing Excellence
- Homes and Communities Agency



The Relish pilot study

Worthing Homes' stock:

- Generally in good condition
- Well maintained
- 98.06% meet the decent home standard (at April 2009)



The Relish pilot study

Unimproved home
(datum – 3 years' energy bills)



Improved home
(with energy advice)



Unimproved home
(with energy advice)



Improved home
(without energy advice)



The Relish pilot study

- Retrofit works
- Marginal cost improvements
- Draught proofing
- Loft and cavity wall insulation
- High-efficiency heating system / controls
- Removal of high-power fixtures (eg electric shower)
- Intelligent re-wiring / upgrades
- Smart meters



The Relish pilot study

Average cost: £6,500 per property



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Relish: a 'best practice' approach – an example



Relish: a 'best practice' approach – an example




Relish  RESIDENTS & LOW-IMPACT SUSTAINABLE HOMES

NOVEMBER

MONDAY		2	9	16	23	30
TUESDAY		3	10	17	24	31
WEDNESDAY		4	11	18	25	
THURSDAY		5	12	19	26	
FRIDAY		6	13	20	27	
SATURDAY		7	14	21	28	
SUNDAY		8	15	22	29	

11 PM 11



Aims of the 12 month pilot

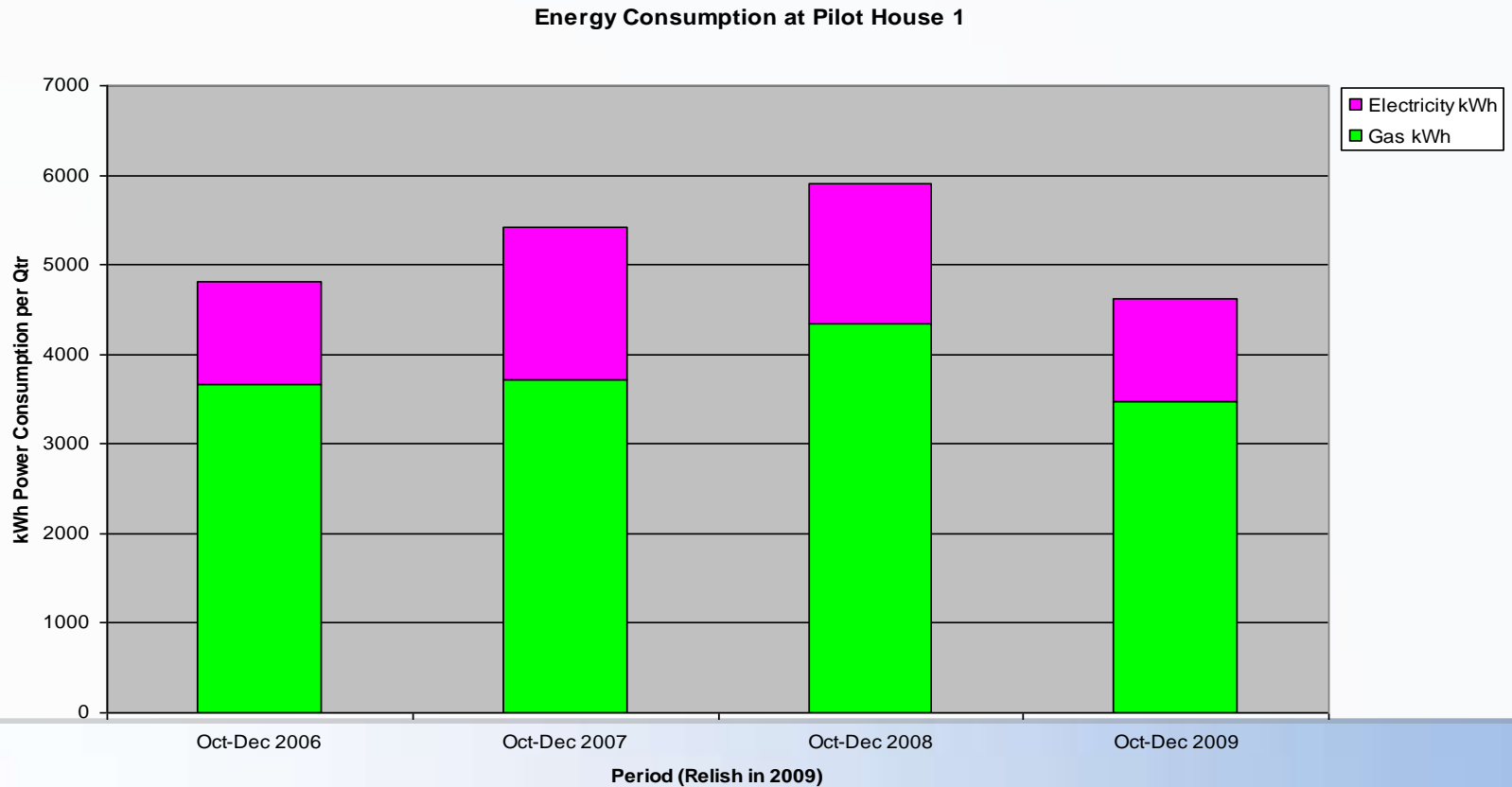
- compare benefits of education and energy works
- share best practice
- identify cost-efficient energy improvements
- demonstrate the benefits of energy monitoring
- launch our Relish rating system



So does it work?

- Pilot began in August 2009
- Work in progress

Interim results



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Interim results: fuel consumption

- Gas 19.93% reduction
- Electricity 26.64% reduction
- **Combined 21.71% reduction**

Fuel poverty

- Equivalent to £101.59 reduction in a single quarter!

Interim results: carbon emissions

- Gas 179.26 kg CO₂ reduction
 - Electricity 159.96 kg CO₂ reduction
 - **Combined 339.22 kg CO₂ reduction**
-
- 0.34 tonnes of CO₂ less emissions in 4Q2009 compared with 4Q2008

Relish: a 'best practice' approach

- Reducing anomalies between households
- Education is a key strategy
- Evaluating results scientifically



What next?

- Pilot programme now in month 4
- Monthly review and monitoring
- Interim results published month 9
- Pilot results published early 2011

Relish: a nationwide approach by social landlords

What if by education alone...

we can reduce energy consumption by 10%?



Relish: a nationwide approach by social landlords

What if by education alone...

we can reduce energy consumption by 10%?

What if through the Relish programme...

we can reduce energy consumption by 20%?



Look out for:

The screenshot shows the Relish website homepage. At the top, there are navigation links for 'Text only', 'Speech enabled', 'Accessibility', and 'Contact', along with a 'Translate this page' button. The Relish logo is prominently displayed, featuring a stylized green flower icon. Below the logo, the tagline 'RESIDENTS 4 LOW-IMPACT SUSTAINABLE HOMES' is visible. A navigation menu includes links for 'What is Relish?', 'About us', 'Benefits', 'Pilot scheme', 'Energy saving', and 'Media centre'. The main content area features a section titled 'Residents 4 Low Impact Sustainable Homes (RELISH) is being pioneered by Worthing Homes in association with environmental surveying specialists Faithorn Farrell Timms (FFT) and development company Rydon.' This section includes an 'Introduction' sidebar with links to 'The concept', 'Aims and objectives', 'How it will work', 'The future', 'Relish ratings', and 'Proven results'. The main text describes the aim of the pilot scheme to market test the impact of a combined refurbishment/education programme. To the right, a 'Latest news' section lists four news items, each with a small image and a 'read more' link. Below the main content, there are four promotional boxes: 'Getting in touch with us' (with a cartoon character), 'Register your interest' (with a document icon), 'Energy saving tips for the life you lead' (with a lightbulb icon), and 'Useful links' (with a cartoon character). At the bottom, there are logos for 'Worthing HOMES', 'Rydon', and 'FFT', along with a 'Partnership opportunities' section. The footer contains site map, contact, legal and privacy information, and copyright details for 2009.



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Interested?

- Further pilot programmes in 2010
- Relish packs available, post pilot
- Multi-language and online versions
- Sign up for e-mail updates



Thank you for listening



**CONSTRUCTING
EXCELLENCE**
in the built environment



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