

**Electric Ireland**  
**Area-based**  
**Energy Efficiency Retrofit Projects**

# Agenda

- **Pilot Project (test bed)**
- **Sample Projects**
- **Lessons Learned**

## Dundalk Area-based Partnership Goals



Dundalk Town Council



- Upgrade local authority housing in Aisling Park
- Meet DoECLG “SHIP” Guidelines (BER)
- Pilot a solution for similar local authority projects
- Mixed tenure LA Vs private
- Support delivery of housing clusters with mixed tenure.
- Analyse the results of the pilot and disseminate lessons learned.
- BE funding
- Trial delivery of Home Retrofits to a 100+ cluster.
- Assist those at risk of fuel poverty
- Support funding
- Delivery capability
- Cost effective kWhs towards national target

# Aisling Park & Patrick Tierney Crescent (126 Homes)

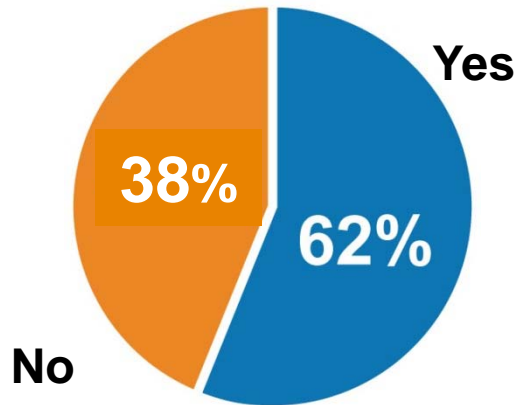


# Project Process

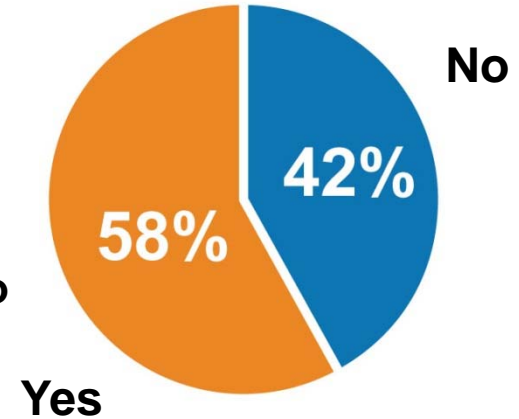
Collect Data	DTC Data	Tech Surveys	
Design & Prepare	Cost-Optimal Design	Detailed Delivery Plan	Community Comms
Deliver	Project Delivery	QA	Design Modifications
Post-Delivery	Quality Control	Community Training	Final Report

# Socio-economic Survey – Preliminary Findings (107 valid surveys)

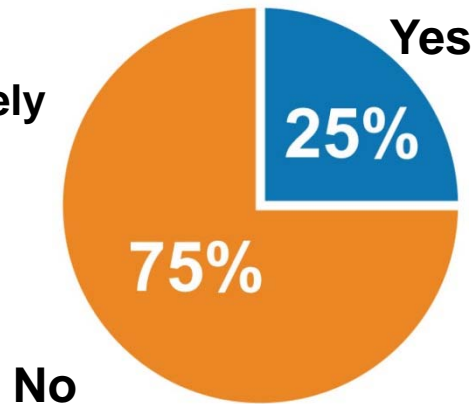
Are you in receipt of a fuel allowance?



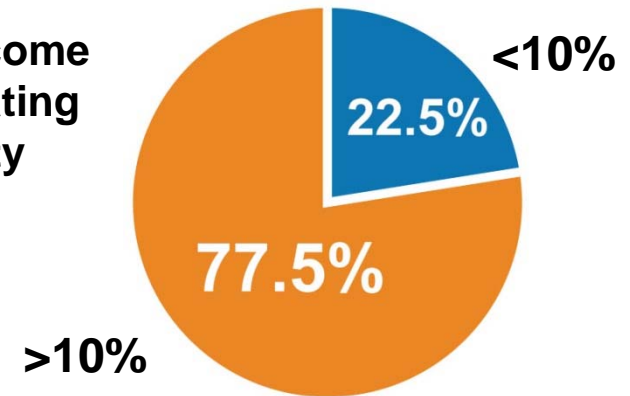
Were there times last winter when you were cold because you could not afford to heat your home?



Is your home kept adequately warm?



% of your income spent on Heating and Electricity bills



# Cost-optimum basket of measures was delivered to each house

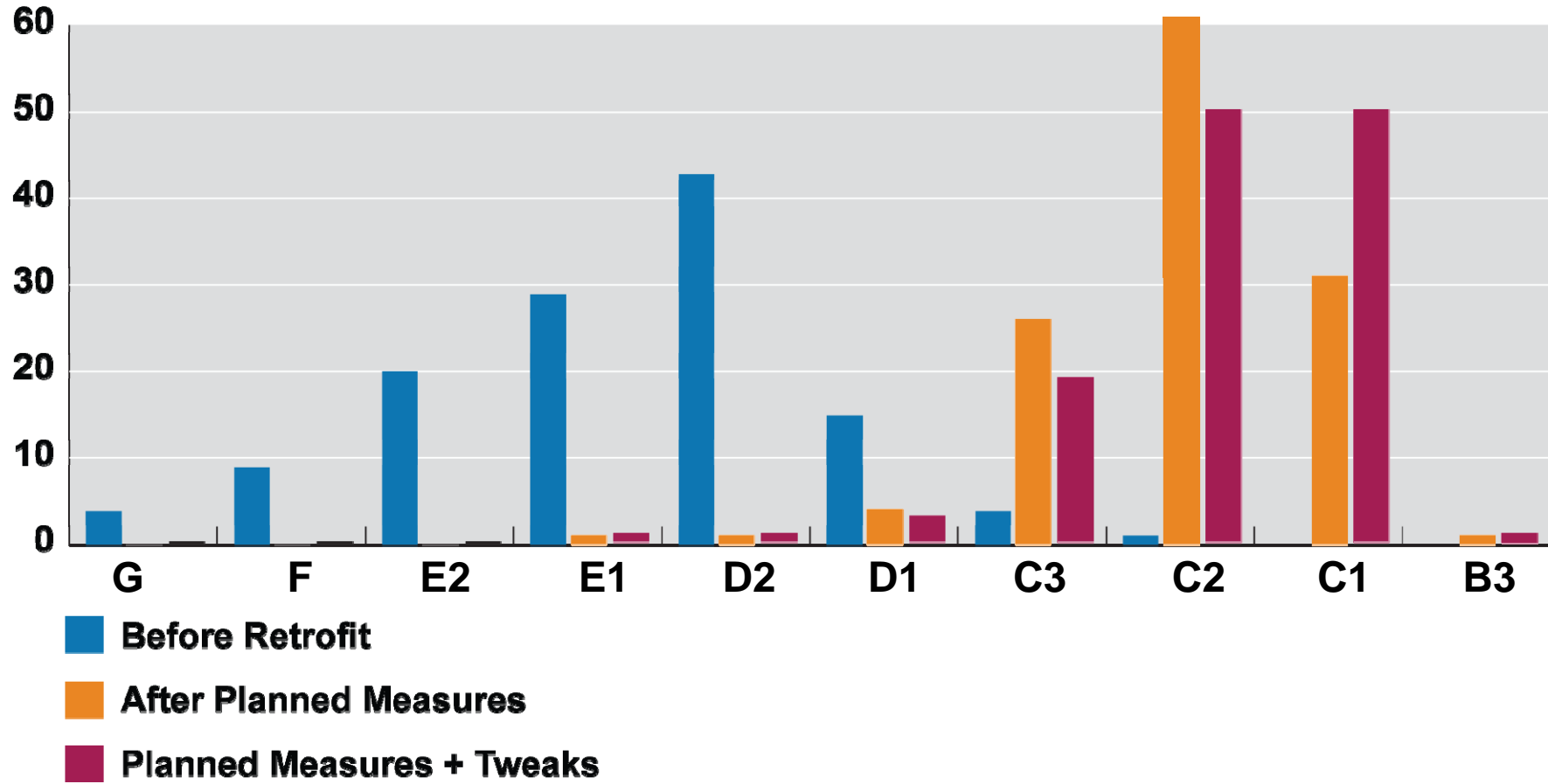


## Results for Pilot (based on BER data)

Parameter	Results Calculations (Rounded)
Total Project Energy Savings (PEE)	1.4GWh PEE
Number of Houses retrofitted	124
Expenditure per House	€4,000
Average Saving Level per House	140kWh/m <sup>2</sup>
Average PEE Savings per year	11,500kWh
Average reduction in heating energy consumption	50%
Average Saving	€690/year
Average Simple Payback	5.8 years
On-the-ground Delivery Time	8 Weeks



# BER Results for Pilot



# Follow Up Survey



“I’m saving €10 a week on a €30 gas bill”

“Upstairs is like a sauna”

““No real difference”



“I’m happy, they did a great job”

“I’d rather press the on/off button”

“the heating system is too complicated”

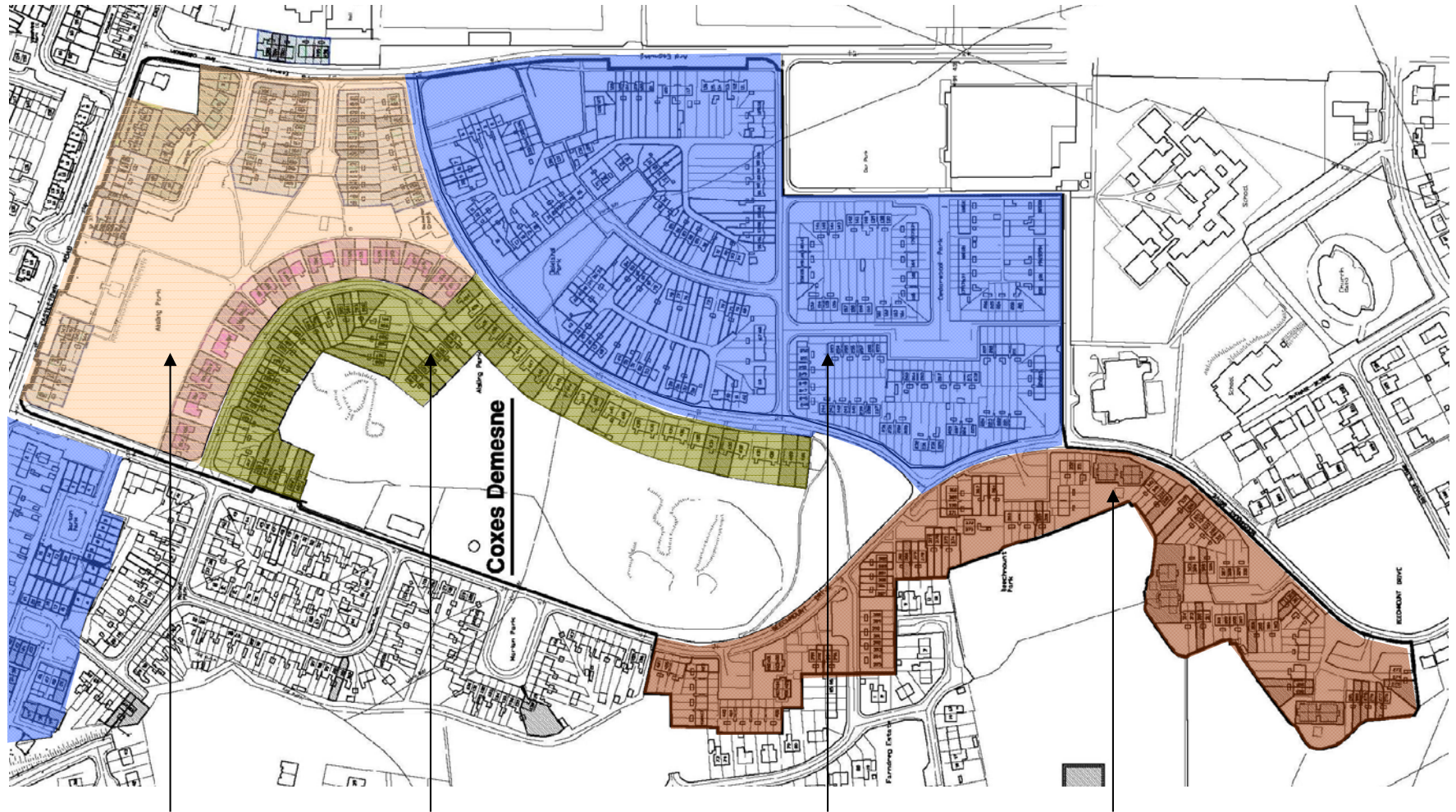


“My daughter is still cold in her bedroom” and “we’re sweating in the sitting room”

“I have great praise for the men”  
“They were very thorough”

“Windows still draughty; catch on window is broken”

XXXXXXXXXXXX



**Area-based Pilot**  
Aisling Park & Patrick  
Tierney Crescent  
126 Houses

**Pilot Extension**  
Aisling Park  
70 Houses

**Oakland, Cedarwood  
& Barton Park**  
286 Houses

**Beechmount**  
132 Houses

# NABCO Pinewood Green Court Balbriggan



- Replaced W&D
- New Boilers
- Heating Controls
- Cylinders
- CWI
- Loft insulation
- Gas lines
- Average cost €9,500

## Mitchels Estate Tralee



- Loft Insulation
- EWI
- Ave cost €8,500



## Lessons Learned

- Where possible link maintenance programmes with grant programmes to maximise your return.
- Engage early on with residents.
- Identify a champion and work with them to overcome any negativity.
- Give yourself time to carry out detailed surveys.
- Engage a contractor who has experience working with your demographic and is empathetic to the fact that they are working in peoples homes.
- Manage residents expectations....something will go wrong.
- Cost effective approach.



## Electric Ireland Area Based Energy Efficiency Retrofit Projects