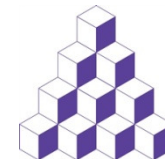


Low Carbon Housing Retrofit

Greater Manchester

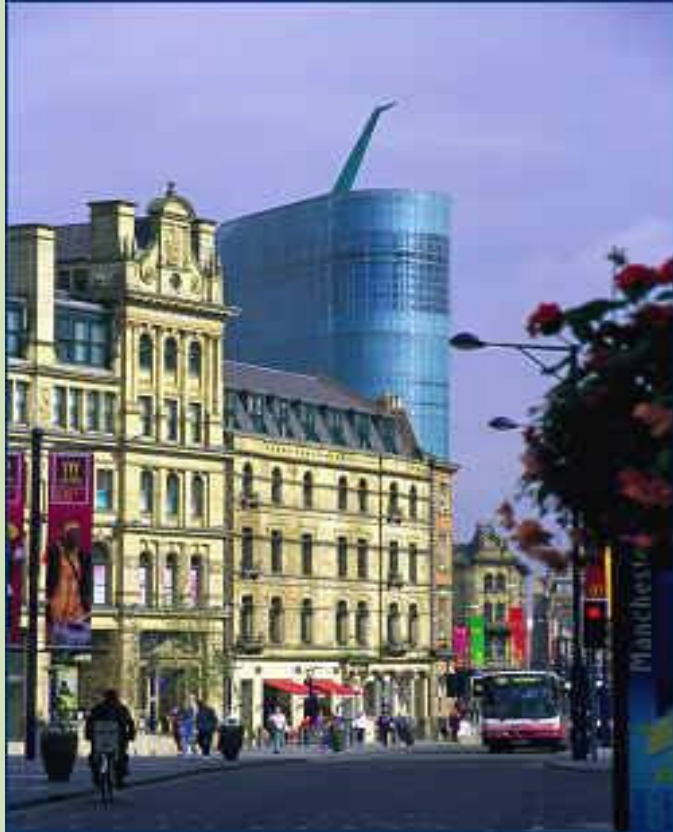
Michael O'Doherty
Greater Manchester Housing Retrofit Programme Lead

Low Carbon Housing Retrofit
Greater Manchester



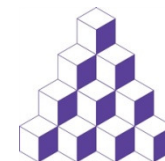
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Manchester: The Opportunity



- Key economic driver for city region and regional economy
- Population 464,200 in 2008
- Employment is forecast to grow in Manchester by 47,000 between 2006 and 2021. (GM 71,000)
- The number of households in Manchester is set to rise by 20% between 2006 and 2021.

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Greater Manchester



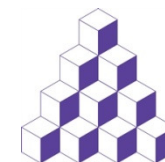
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Manchester: The Opportunity

- Globally competitive business sectors
- Higher Education institutions that deliver world class learning
- Major international airport - (40 million ppa by 2015)
- Vibrant cultural sector
- International profile
- Dynamic people/Diverse Communities

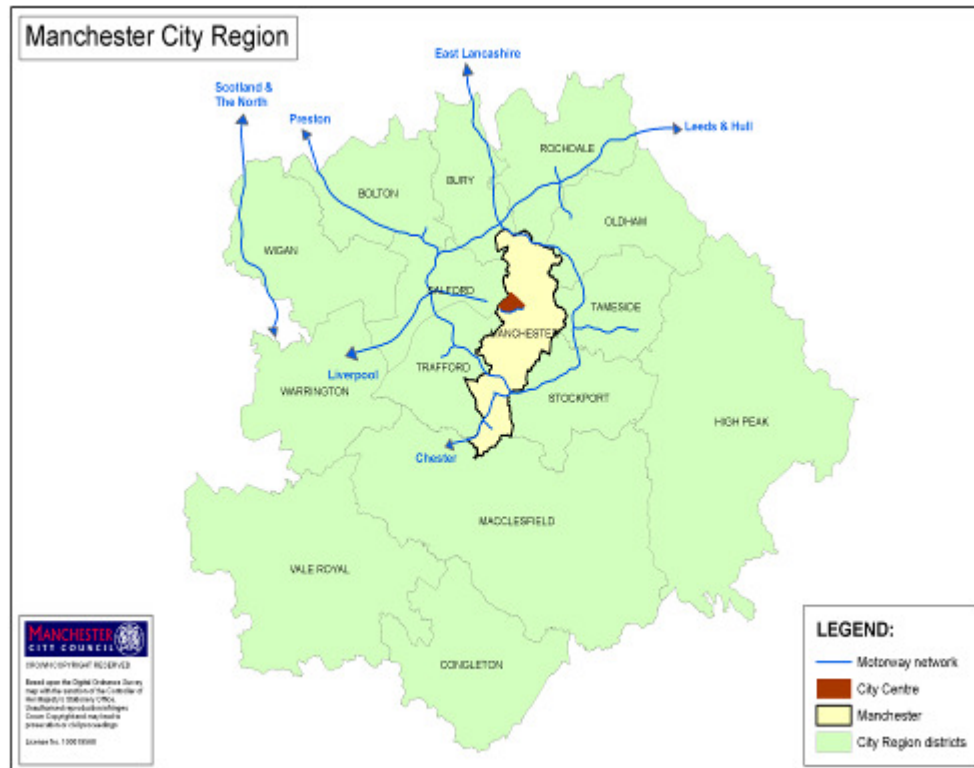


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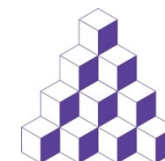
Manchester: The City Region Context



- Area of 3,111km² covering 15 local authority districts with the City of Manchester at its core
- A population of 3.2 million
- Over 110,000 businesses and 1.5 million jobs
- Largest economy outside of London – contributing half of the northwest's regional output - £47 billion GVA

•Caption for photograph/image/etc

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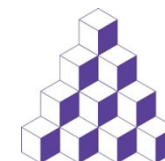
Manchester: Our Vision

'By 2020, the Manchester City Region will have pioneered a new model for sustainable economic growth based around a more connected, talented and greener city region where the prosperity secured is enjoyed by the many and not the few'



•Greater Manchester Strategy: Prosperity for All

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Low Carbon Market Opportunity

- **Global Scale and Growth**

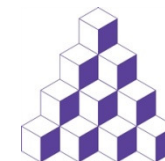
- In 2008/09 the global market for the low carbon sector was worth nearly \$5 trillion
- By 2014/15 expected to grow by 45% to \$7trillion

- **UK needs to retain share:**

- In 2008/09 US had largest market share, UK 6th
- In 2010/11 US still largest, but China close second, UK slipped to 13th behind Germany, Italy and Mexico

- **Greater Manchester as a leader globally and nationally:**

- 2008/9 market value of £4.4billion,
- supporting 34,000 jobs



Low Carbon Economic Area (GM)

- **Demand led programmes**

- **capturing carbon**

- Residential retrofit
- Non-commercial retrofit
- Low carbon infrastructure



Reducing emissions
by 6.1 million tonnes
of carbon

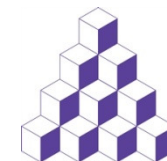
- **Supply led programmes –
capturing economic
opportunity**

- Skills and employment
- Business growth
- Low carbon laboratory



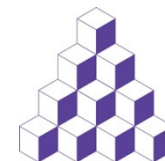
Supporting:

- 68, 000 jobs
- £1.4bn economic activity



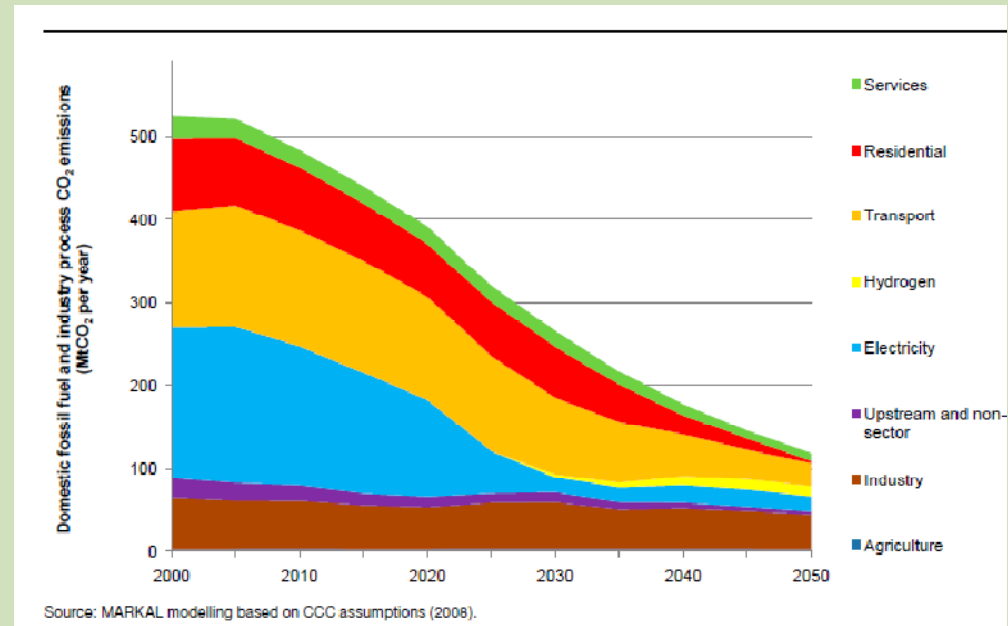
AGMA - Association of Greater Manchester Authorities

- 10 Local authorities; Established 1986
 - Bolton, Bury Manchester, Oldham, Rochdale, Salford Stockport, Tameside, Trafford, Wigan
- Population 2.6M; 1.2M households
- Strategic Context: MIER; GMS; GM 'Mini Stern' report;
- 7 AGMA commissions inc. Environment; Housing and Planning; New Economy
- GM Climate Change Strategy
- GM Combined Authority/ LEP 1st |April 2011

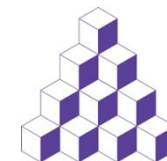


GM Housing Retrofit

- Household CO₂ emissions 36% of GM total
- GM CC Strategy: 48% CO₂ reduction target by 2020
- Draft GM Housing Retrofit Strategy: CO₂ trajectory to 2050
- Rising bills/ Fuel Poverty



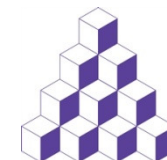
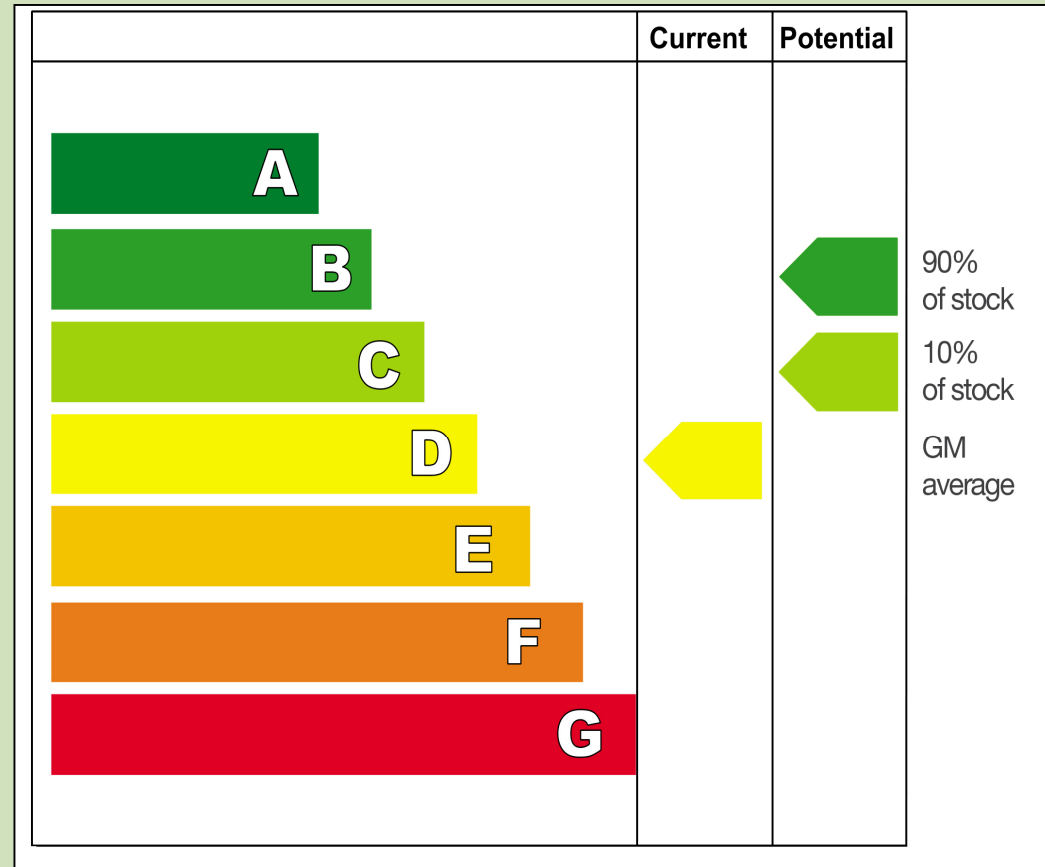
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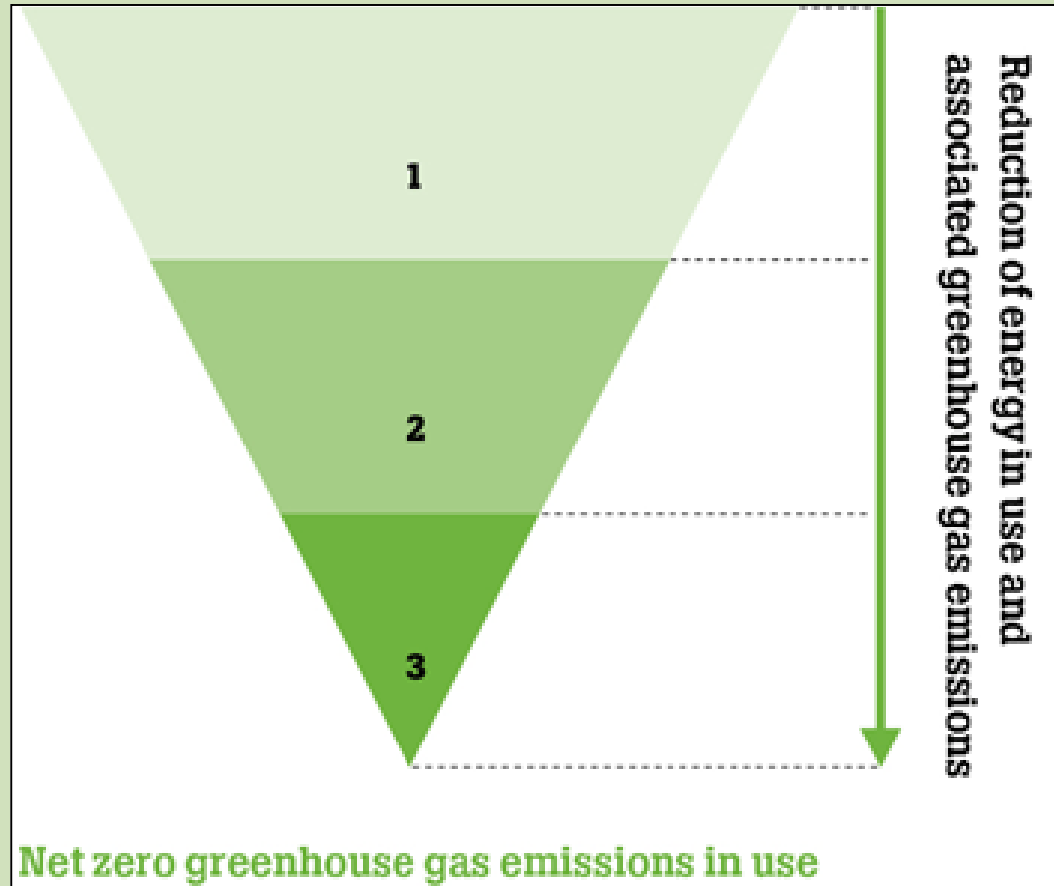
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Knowing What Will be Needed

- Setting targets that can be understood:
- Current average GM Home EPC rating D.
- 90% of GM's housing stock must shift to EPC Rating B by 2035:
- 943,000 houses built pre-1975 – will need additional insulation by 2050.

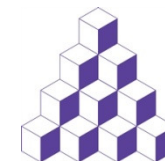


Fabric First Approach



1. **Demand reduction** is first priority – enhancing thermal performance of building stock through comprehensive insulation treatments
2. Encouraging **behaviour change** is intrinsic with practical improvements to guarantee householder savings and support the Golden Rule.
3. **Renewable energy technologies** to be deployed as part of overall package

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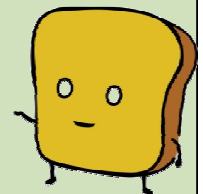
Key areas of activity

GM approach is to build momentum by delivering projects at scale through the social housing sector –will build capacity and expertise in readiness for the owner occupier facing offer.

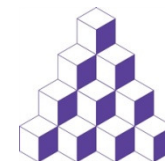
Key task and finish groups have been established to deliver specific outcomes.

- Green Deal Trailblazer – exploring the way Green Deal can work in a social housing context.
- ERDF funding to deliver retrofit activities to over 3000 hard-to-treat social homes which explores local supply chain and delivery challenges.
- Customer engagement to ensure that all GM retrofit activity makes proper provision for the behavioural change– ‘Missing Quarter report’
- Get Me Toasty scheme – brings LA funding together with utility CERT funds to offer free loft and cavity insulation across GM.

GET ME TOASTY



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Clear packages of work

Basic Measures

- Loft and Cavity Wall
- Doors and Windows
- Air Tightness

PLUS Microgen Upgrade

- PV and Solar thermal



Intermediate:

- Kitchen energy aware
- Solid Wall Insulation
- Communal Heating

PLUS microgen Upgrade

- PV or Solar Thermal



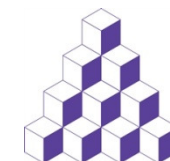
Major Package

- Whole House 2050
- New Home Int upgrade
- Heritage upgrade

PLUS microgen Upgrade



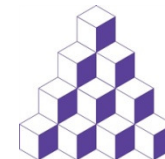
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What does this mean for jobs and skills?

145,000 properties undergo whole house retrofit;
850,000 have smart meters installed;
520,000 have loft insulation installed; and
30,000 have cavity insulation installed

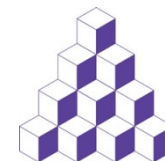


What does this mean for jobs and skills?

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**Could create 8,400 jobs by
2015**



Jobs/ skills

Behaviour change:

Informal vs professional skills
Entry level or top up qualification / recognition

Home energy advice (IAG)

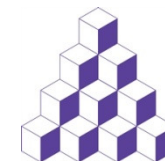
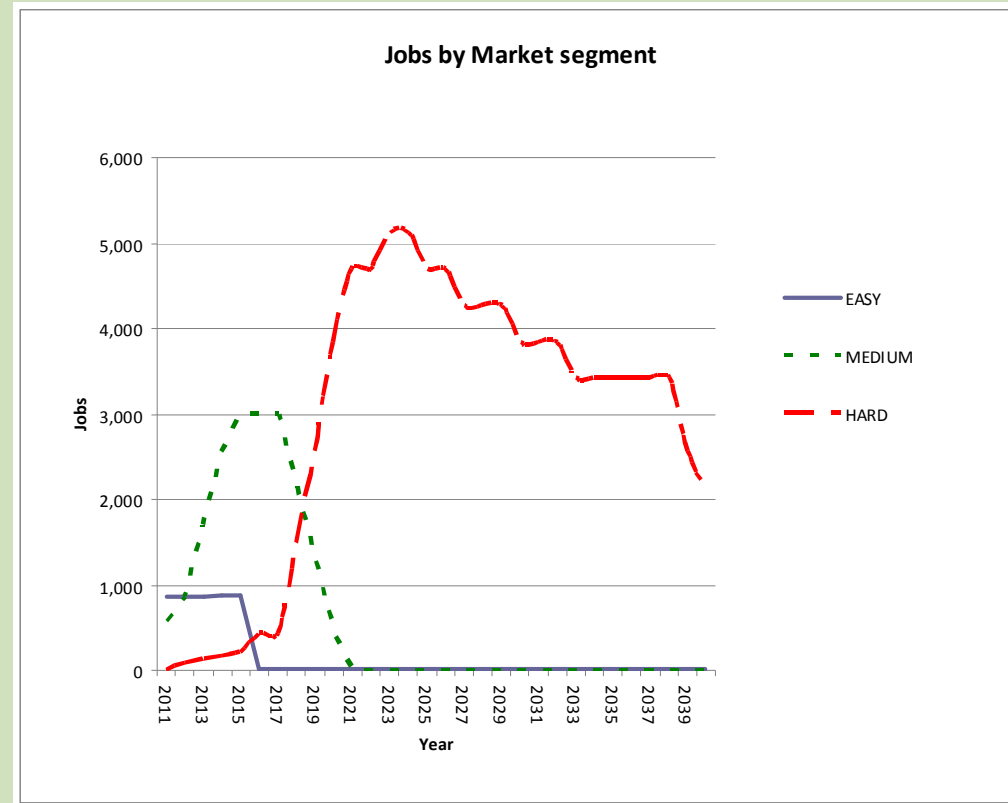
Home energy assessment

Linked to financial advice and assessment

Technical environmental skills:

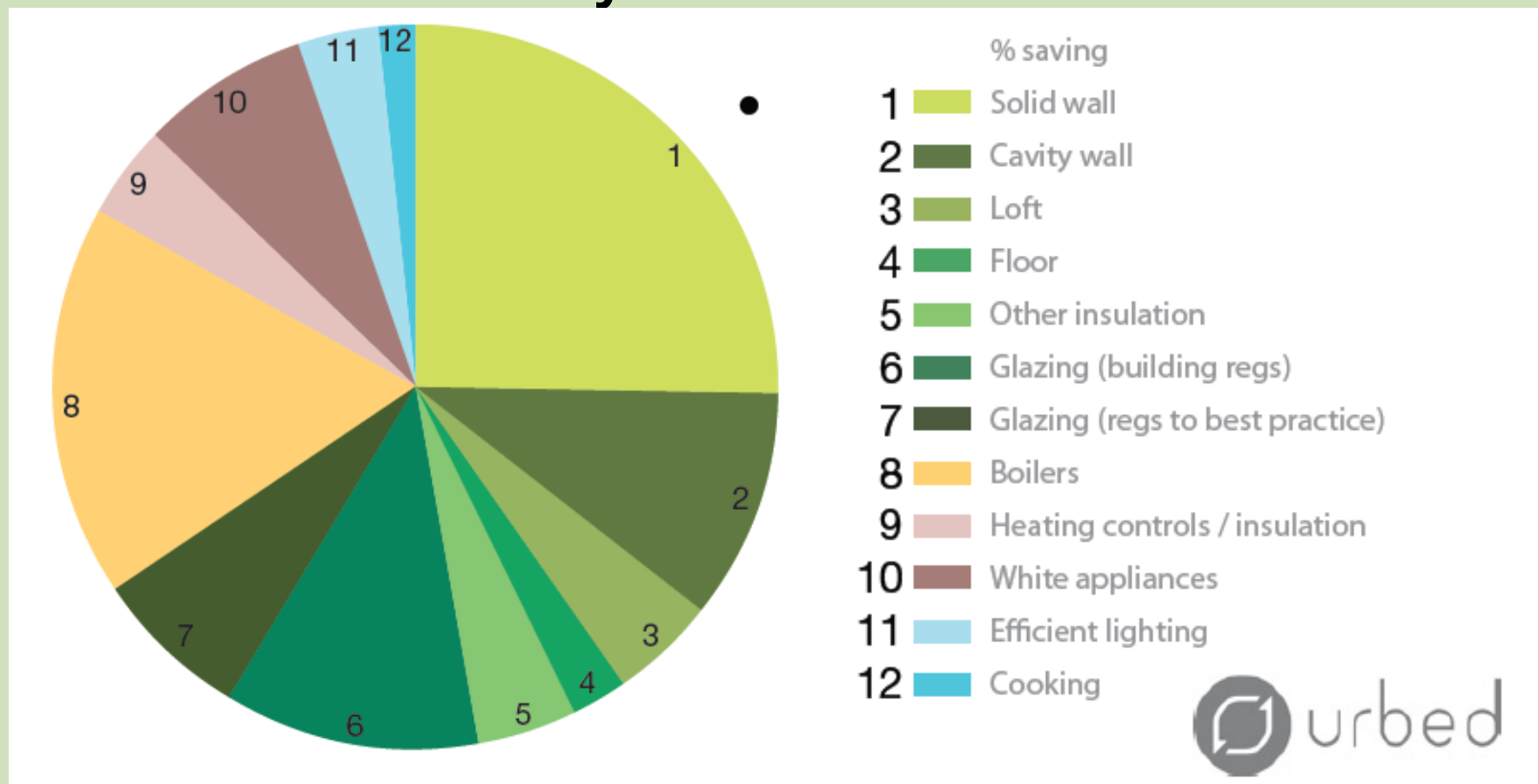
Installation and Maintenance
Upgrades

Up-skilling the 'trades'
Low Carbon Housing Retrofit
with Level 2 environmental skills
Greater Manchester

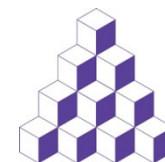


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Green Deal Pay as You Save..

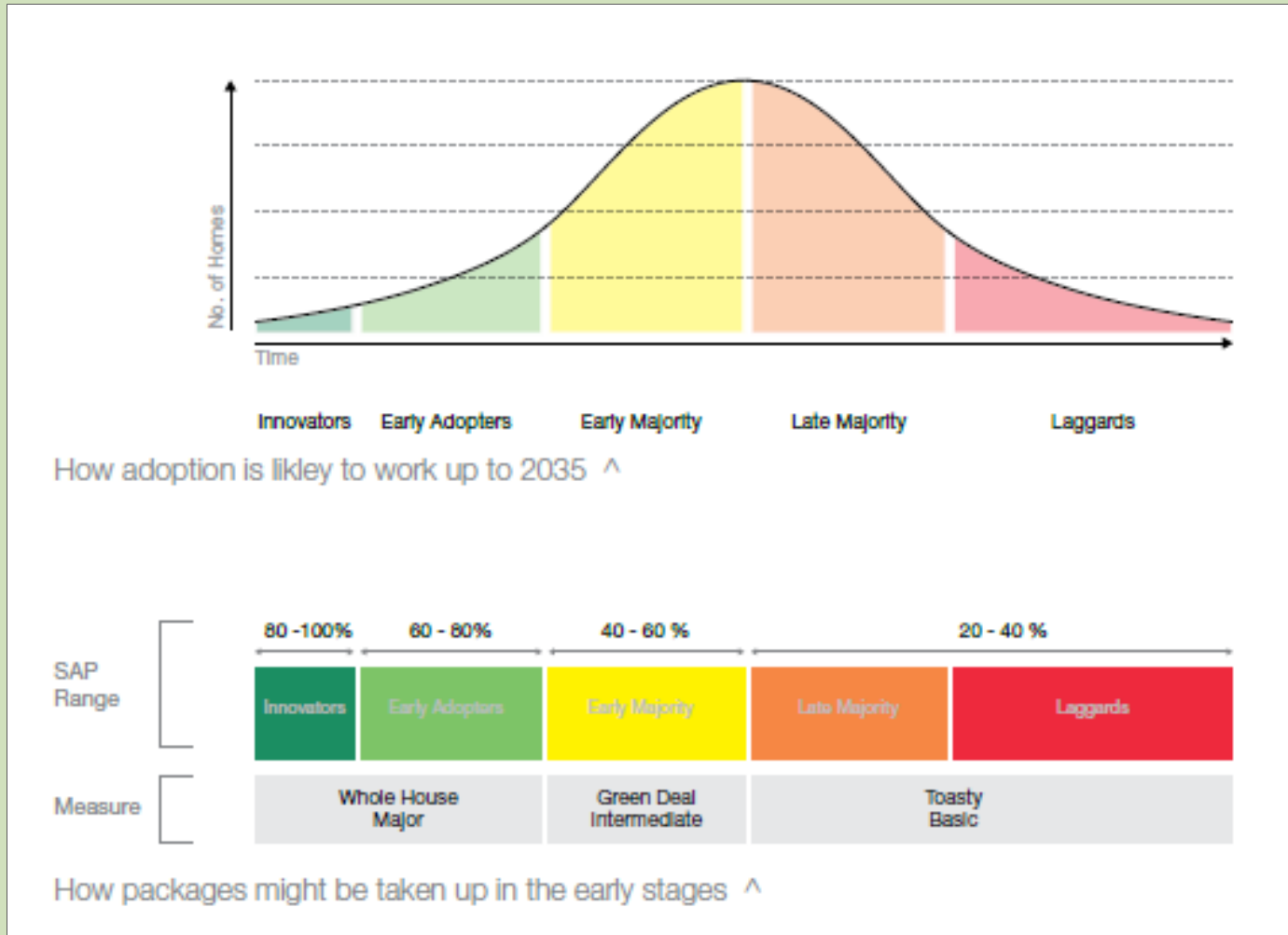


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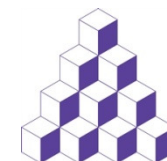


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Modelling Customer take-up



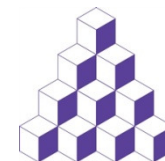
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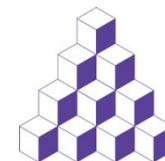
..... GM Green Deal.....

- AGMA / Public Sector role in a GM Green Deal offer:
 - Leave it to the market
 - Support the market
 - Create the market:
 - **Procurement**
 - **Creation of delivery organisation**
- Public – Private Sector partnership:
 - Trusted brand
 - Low cost finance
 - Consistent standards for residents
 - Low supply chain and skills focus



Challenges

- **Risk of government policy shifts - uncertainty**
- **Employer engagement, particularly amongst SMEs**
- **Creating and understanding demand – what skills? which employers? what scale? what timescale?**
- **Flexible range of qualifications that fit employer need**
- **Learner progression – eg from basic retrofit to advanced skills**
- **Advice and information for individuals and employers**
- **Maximising existing funding and developing new funding sources**



Further Information:

<http://manchesterismyplanet.com/>

- GM Climate Change Strategy
- GM Draft Retrofit Strategy

<http://neweconomymanchester.com/>

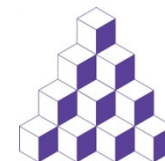
- LCEA information

- http://www.agma.gov.uk/cms_media/files/final_gms_august_2009.pdf
Greater Manchester Strategy
- www.getmetoasty.com
Greater Manchester Insulation Scheme

Contact:

m.odoherty@manchester.gov.uk

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