

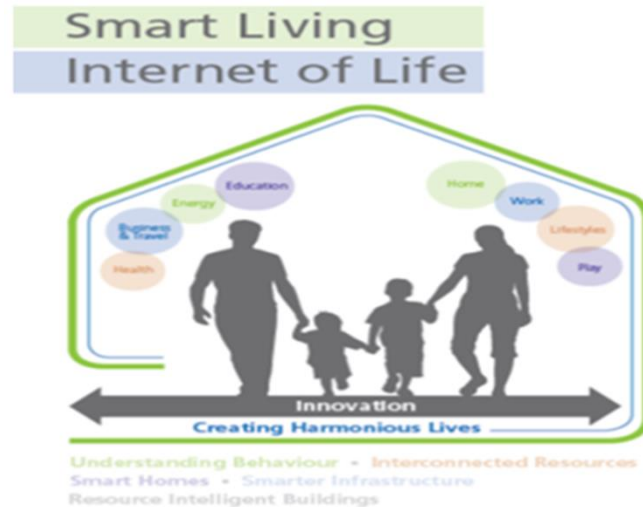


Local Area Energy Planning

Eleanor Knight – Welsh Government
Mike Jenkins – Bridgend Local Authority

Smart Living Wales

Smart Systems & Heat



Llywodraeth Cymru
Welsh Government

www.cymru.gov.uk

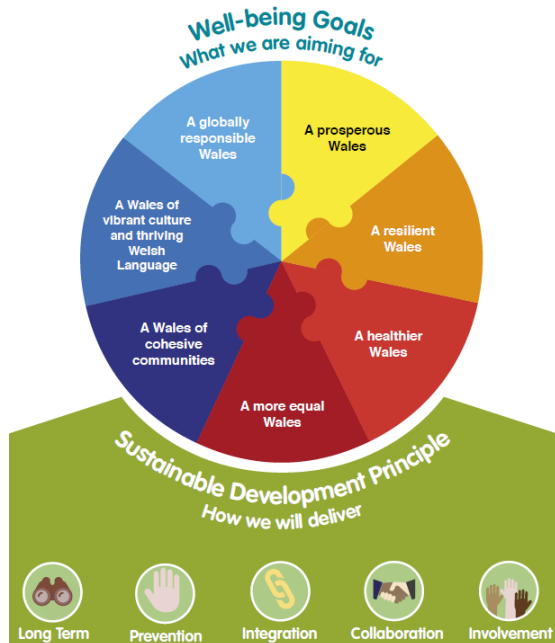
ETI10 Event
SSH Local Area Strategy and ETI
London 21 November 2017

Eleanor Knight
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The Legislation Driving our Ambition

The Well-being of
Future Generations
(Wales) Act 2015

Well-being goals



The Environment
(Wales) Act 2016

The Carbon Budgets



New, and
complementary
legislation



The Well-being of Future Generations (Wales) Act

Climate change is integral to all of the Well-being Goals with specific reference in terms of:

A prosperous Wales.


An innovative, productive and **low carbon society** which recognises the limits of the global environment and therefore uses resources efficiently and proportionately (**including acting on climate change**); and which develops a skilled and well-educated population in an economy which generates wealth and provides employment opportunities, allowing people to take advantage of the wealth generated through securing decent work.

A Globally Responsible Wales.

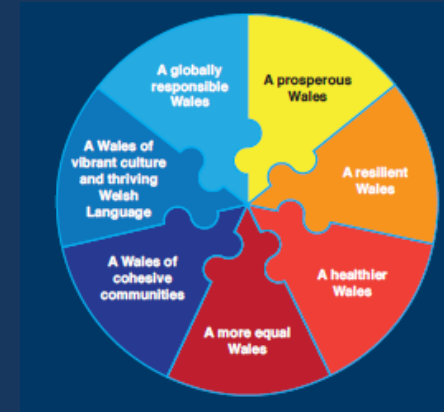
A nation which, when doing anything to improve the economic, social, environmental and cultural well-being of Wales, takes account of whether doing such a thing may make a positive contribution to global well-being.

A resilient Wales.

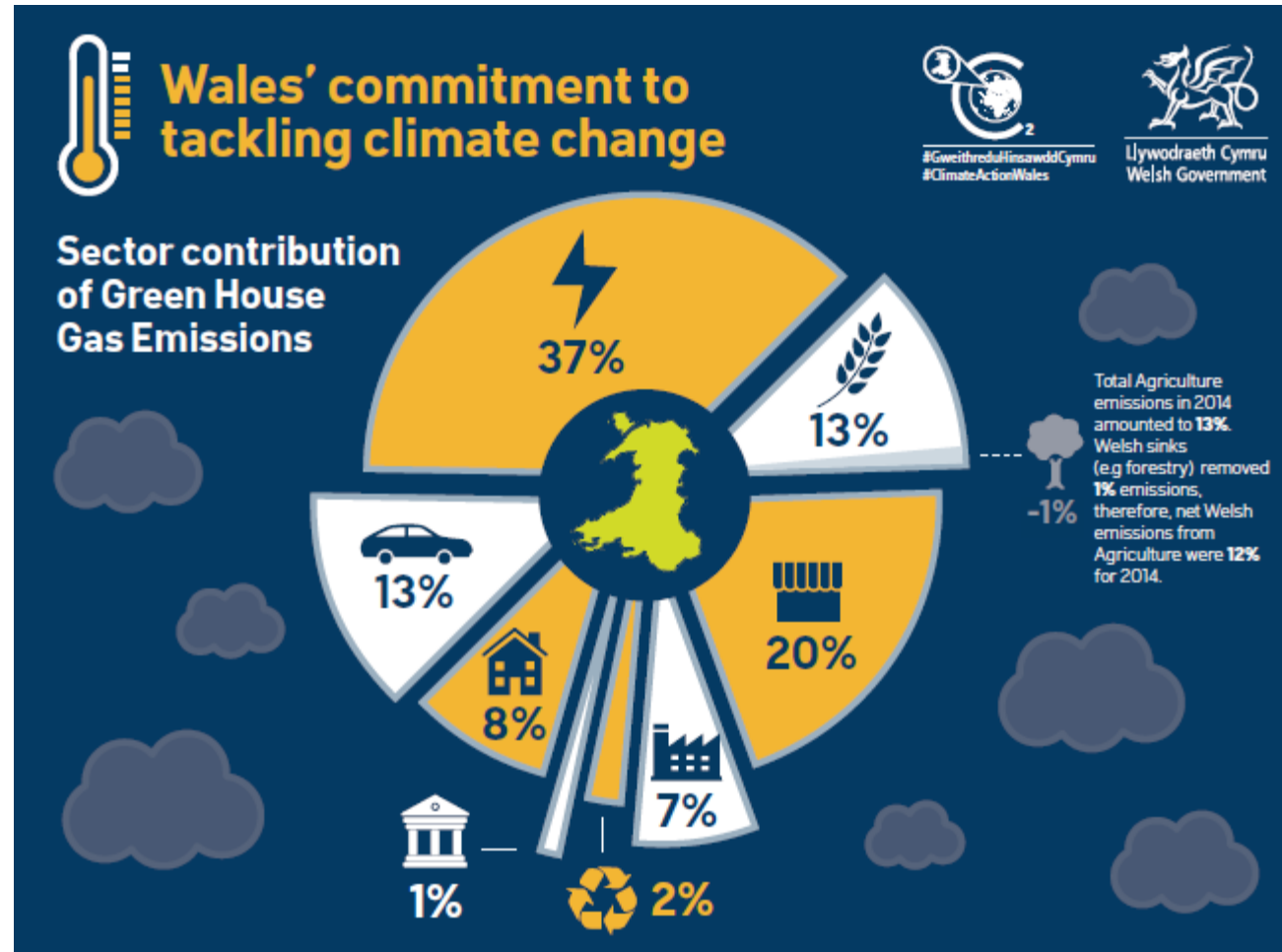
A nation which maintains and enhances a biodiverse natural environment with healthy functioning ecosystems that support social, economic and ecological resilience and the capacity **to adapt to change (for example climate change)**.

<i>Well-being of Future Generations (Wales) Act 2015 (amended)</i>	
	
Well-being of Future Generations (Wales)	
Act 2015	
2015 anaw 2	
PART 1	
INTRODUCTION	
1	Overview
PART 2	
IMPROVING WELL-BEING	
<i>Sustainable development and well-being duty on public bodies</i>	
2	Sustainable development
3	Well-being duty on public bodies
4	The well-being goals
5	The sustainable development principle
6	Meaning of "public body"
<i>Well-being objectives</i>	
7	Statements about well-being objectives
8	Welsh Ministers' well-being objectives
9	Other public bodies' well-being objectives
<i>Measuring performance towards achieving the goals</i>	
10	National indicators and annual well-being report
11	Future trends report
12	Annual reports by the Welsh Ministers
13	Annual reports by other public bodies
<i>Guidance</i>	
14	Guidance

Decarbonisation Programme



Allyriadau Sector / Sector Emissions



Welsh Government Priorities

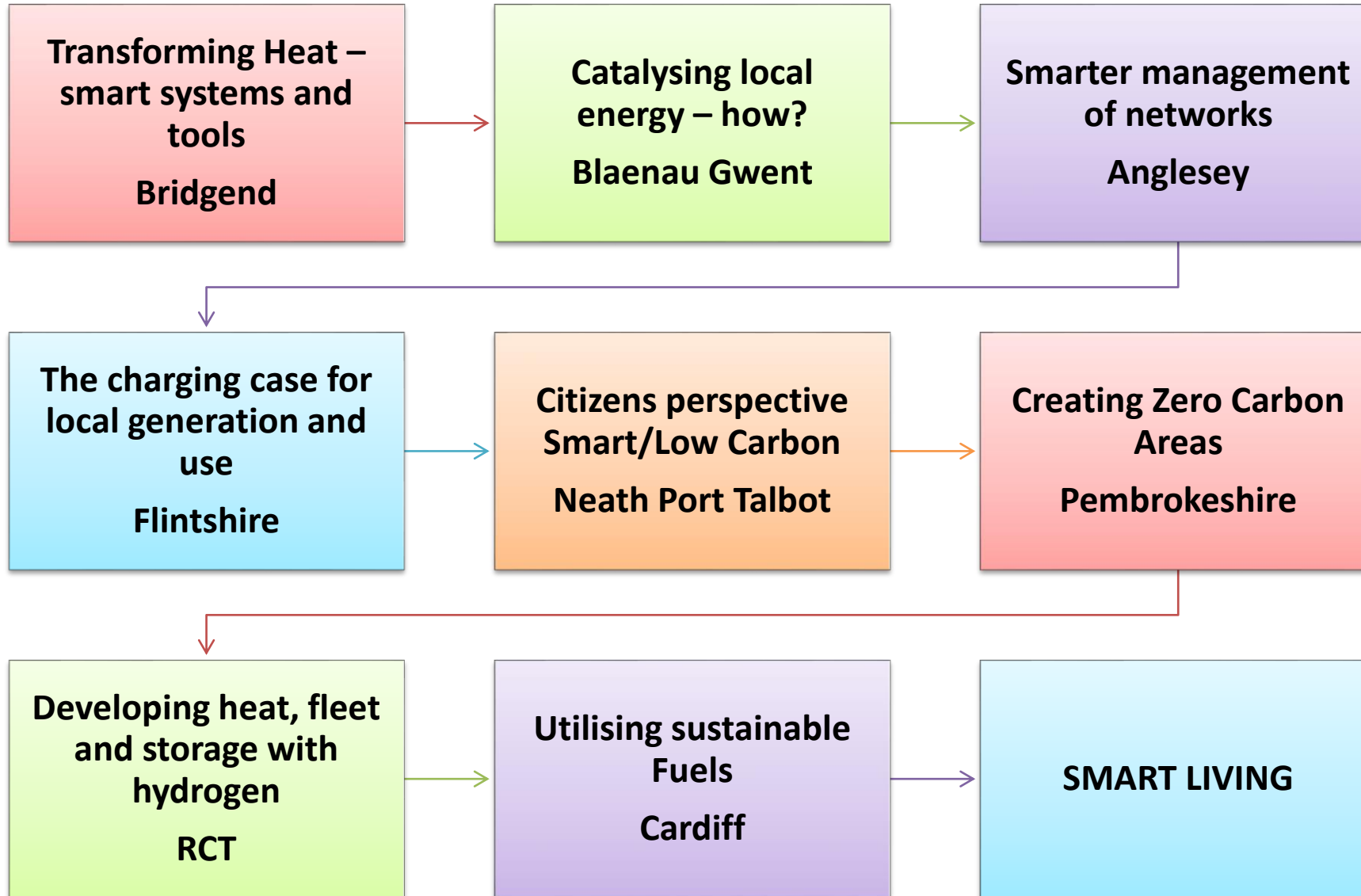
- To use energy more efficiently
- To reduce our reliance on energy generated from fossil fuels
- To actively manage the transition to a low carbon economy
- Wales will generate 70% of electricity consumption from renewable energy by 2030
- One Gigawatt of renewable electricity capacity in Wales is to be locally owned by 2030
- New renewable energy projects to have an element of shared ownership

Smart Living ambitions

not just smart homes and buildings

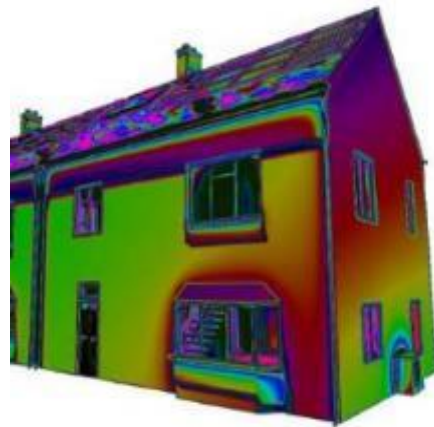
Wales has the opportunity to influence how we live with energy and resources in the future through creating an open learning platform of demonstrators helping transform our lives and offering multiple benefits.

First Wave Focus



ETI's Smart Systems and Heat Programme Bridgend County Borough Council

Delivered by
CATAPULT
Energy Systems



“Creating future-proof and economic local heating solutions for the UK”

- Connecting together – the understanding of consumer needs and behaviour with the development and integration of technologies and new business models into...
- Delivering enhanced knowledge amongst industry and public sector
- Resulting in industry and investor confidence to implement from 2020 which enables a UK heat transition

Our Members



CATERPILLAR®



Rolls-Royce



Innovate UK
Technology Strategy Board

ETI programme associate

HITACHI
Inspire the Next

The Energy Systems Catapult are delivering the first phase of the SSH programme as a supplier to the ETI following the transition of the SSH programme team to the Catapult. From 2017 the Catapult will be responsible for delivery of future phases of the programme independently of the ETI.

Why Smart Systems & Heat

Enabling:

- Trial low carbon heat solutions
- Framework to aid with decision making
- Help to make strategic changes
- Generate understanding and learning
- Help avoid expensive mistakes
- Reduce risks

Providing:

- Demonstrator Status credibility
- Smart tools
 - planning,
 - business modelling,
 - smart systems developing gateways
- Structured steps for development, pilot and deployment
- Local Fora and dissemination activities
- Trials and Feedback loops

Novel Ingredients

Mine water Source

- Feasibility Study
 - Cardiff University

- Buildings as powerhouses
 - SPECIFIC

Gas/Electricity

- FREEDOM Project
 - Wales & West Utilities

Consumer Behaviour

- Cardiff University and CATAPULT



Llywodraeth Cymru
Welsh Government

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Smart Living Wales

Thank you

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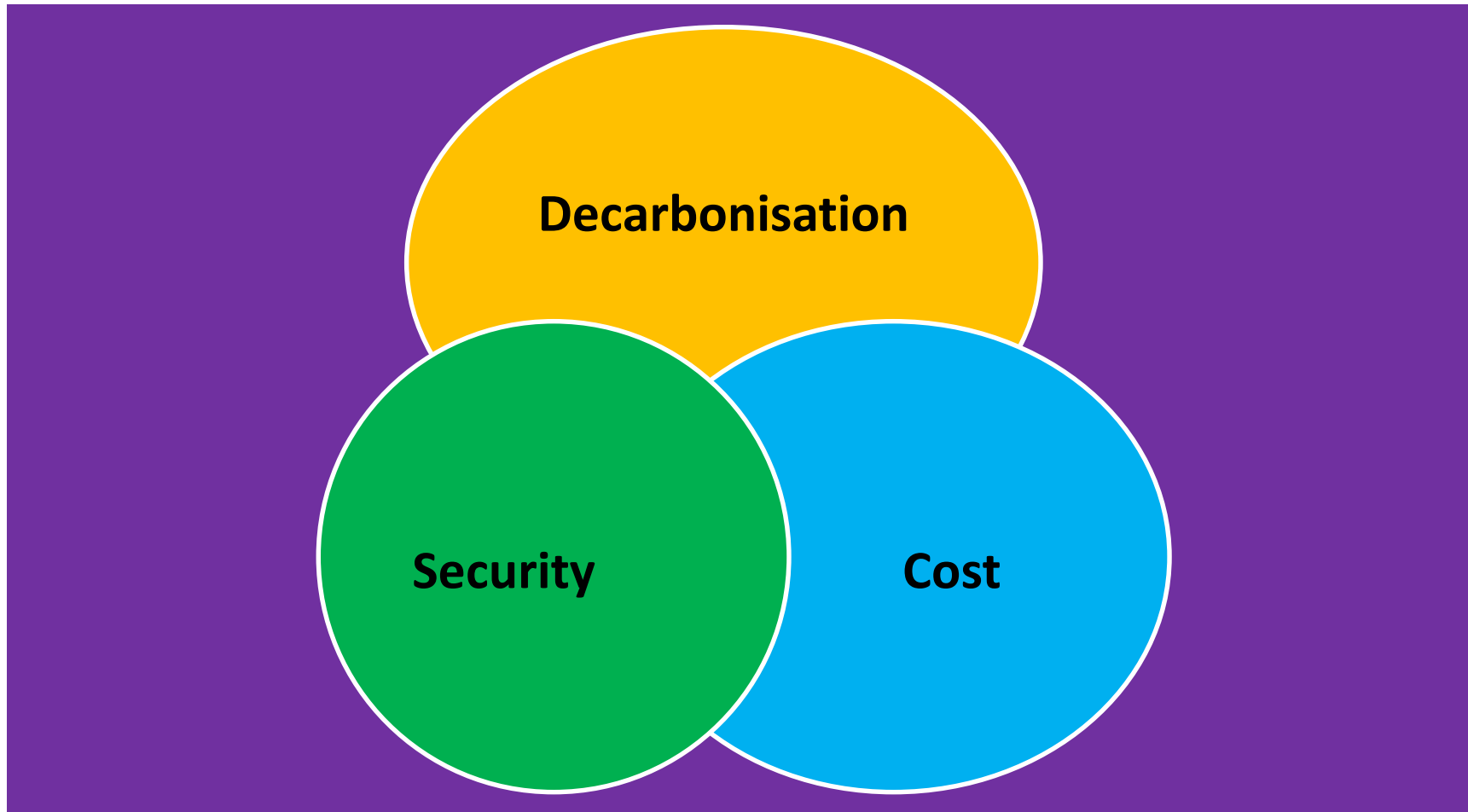
Bridgend County Borough Council
Cyngor Bwrdeistref Sirol Pen-y-bont ar Ogwr



Developing Smart Heat Projects in Bridgend County Borough

Dr Michael Jenkins

CHALLENGES



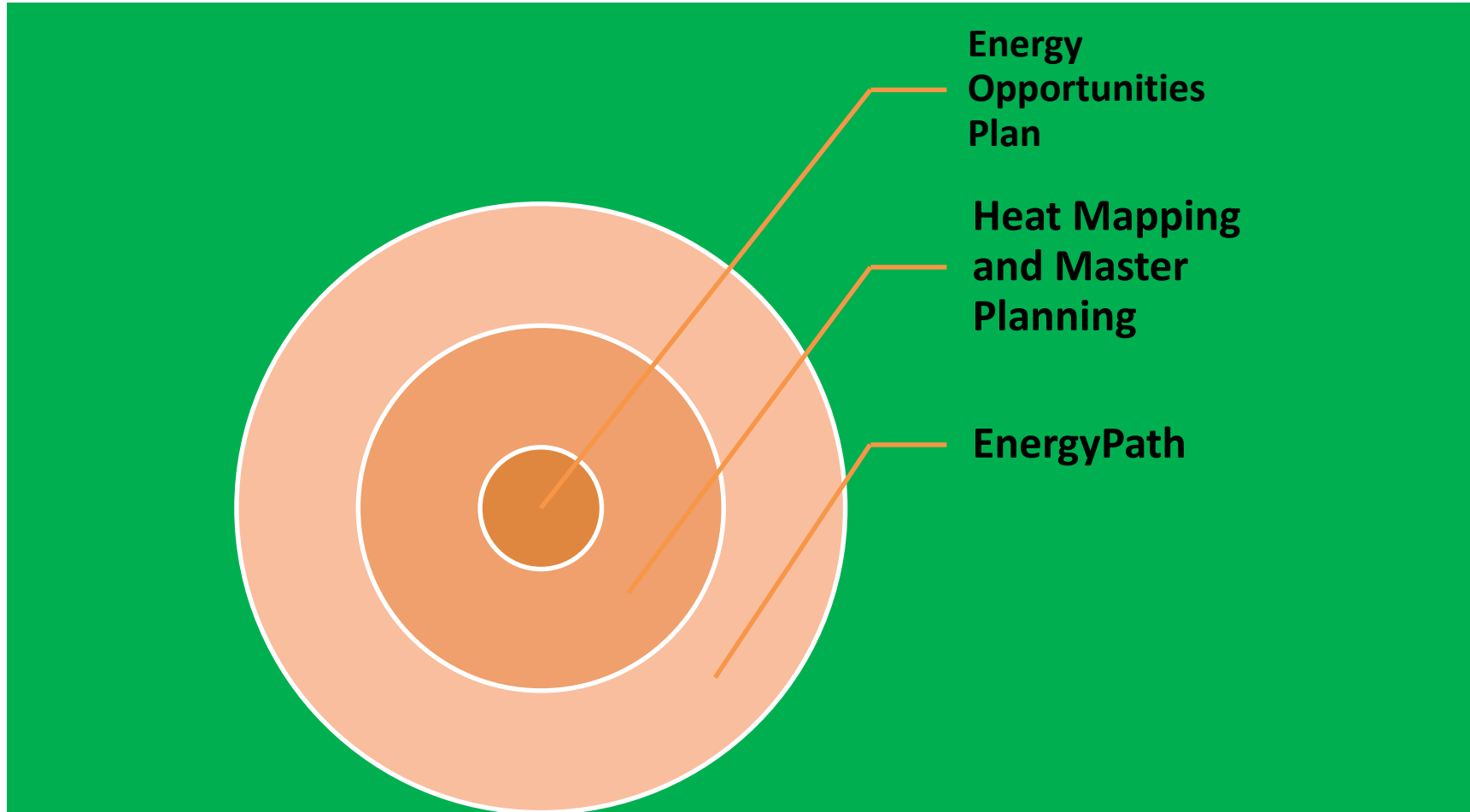
SMART SYSTEM AND HEAT PROGRAMME

Prioritised Local Authorities

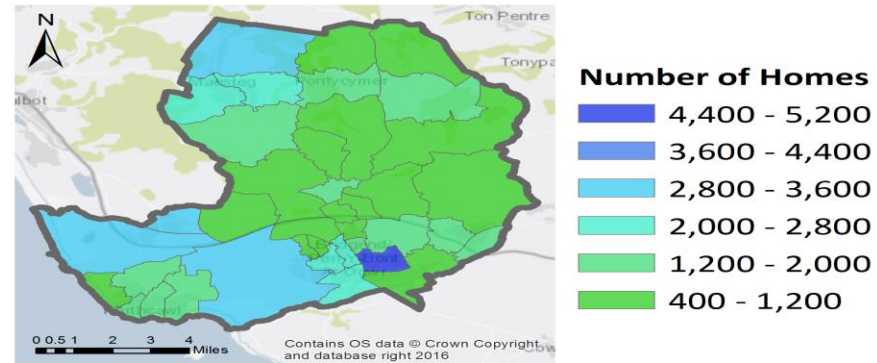


- **2013 PQQ**
- **2014 RfP and Interview**
- **Bridgend, Newcastle and Manchester demonstration authorities**

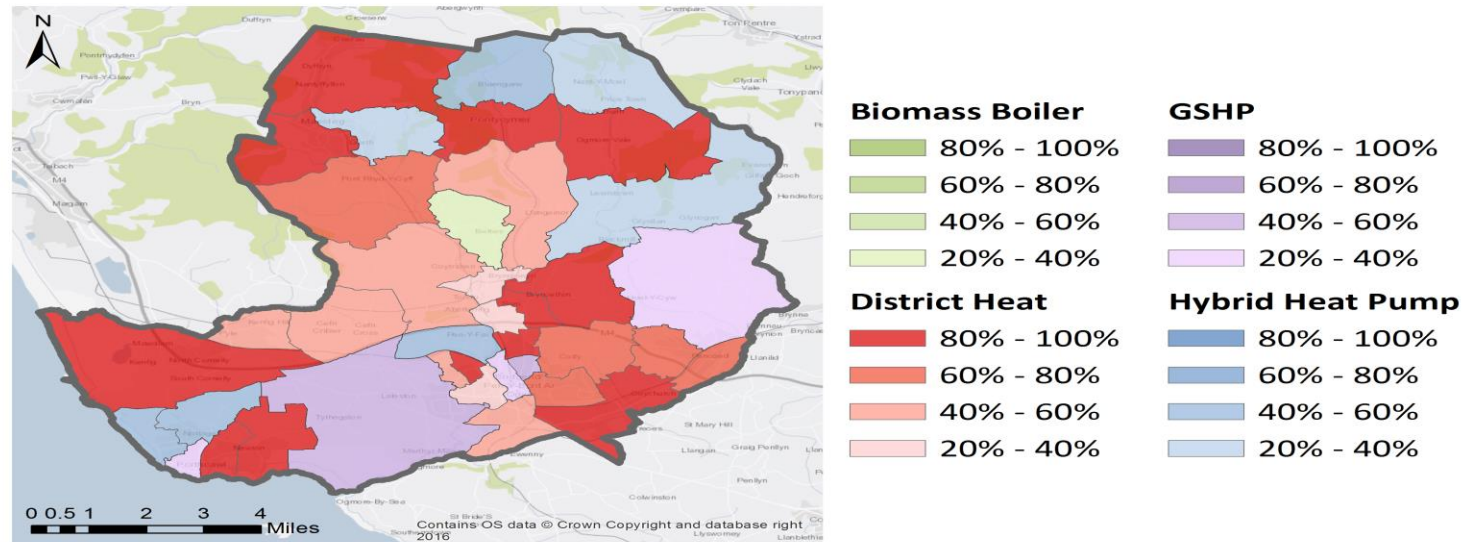
ENERGY TRANSITION PLAN



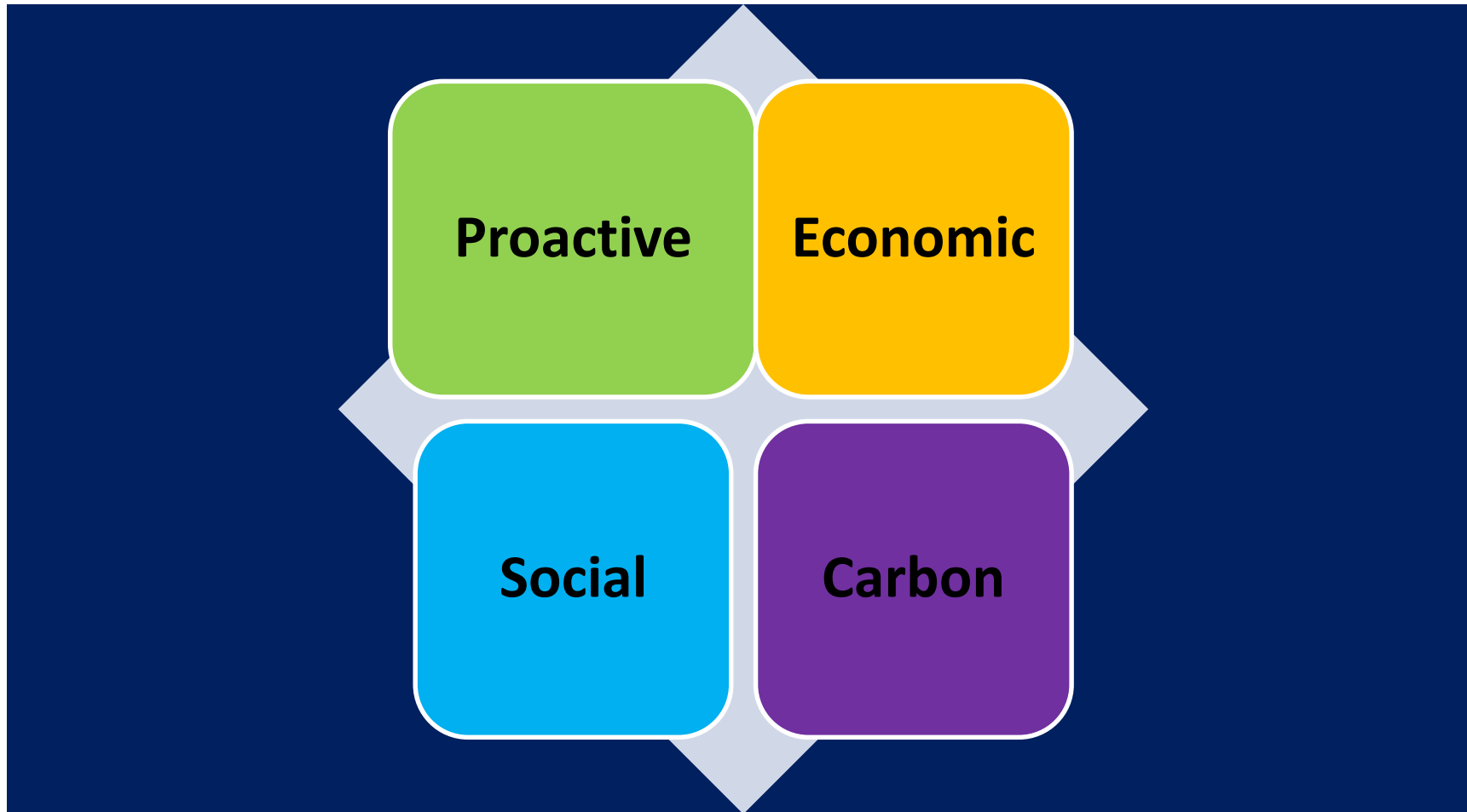
Low Carbon Transition in Bridgend



Transition Two



Benefits



Thank You for Listening

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