



Resource efficiency opportunities

michael.hilarion@resourceefficientscotland.com

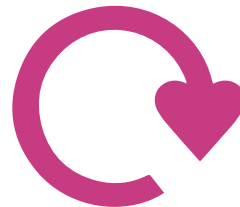


About Zero Waste Scotland

Zero Waste Scotland is funded by the Scottish Government to support the delivery of its Zero Waste Plan.

Our Mission

We help to reduce waste, increase energy efficiency and promote responsible water use - all as part of a journey towards a low-carbon, sustainable economy.



Areas for action 2014–2015

We have six priority areas for action:

Supporting a
circular economy



Transforming attitudes
to food waste



Implementing resource
efficiency savings



Harnessing the value
of recycling



Reducing the impacts
of litter




Accelerating the
development of low
carbon heat



?

Resource Efficient Scotland, is an integrated programme launched in April 2013 to help businesses, the public sector and the third sector save money by using resources more efficiently.

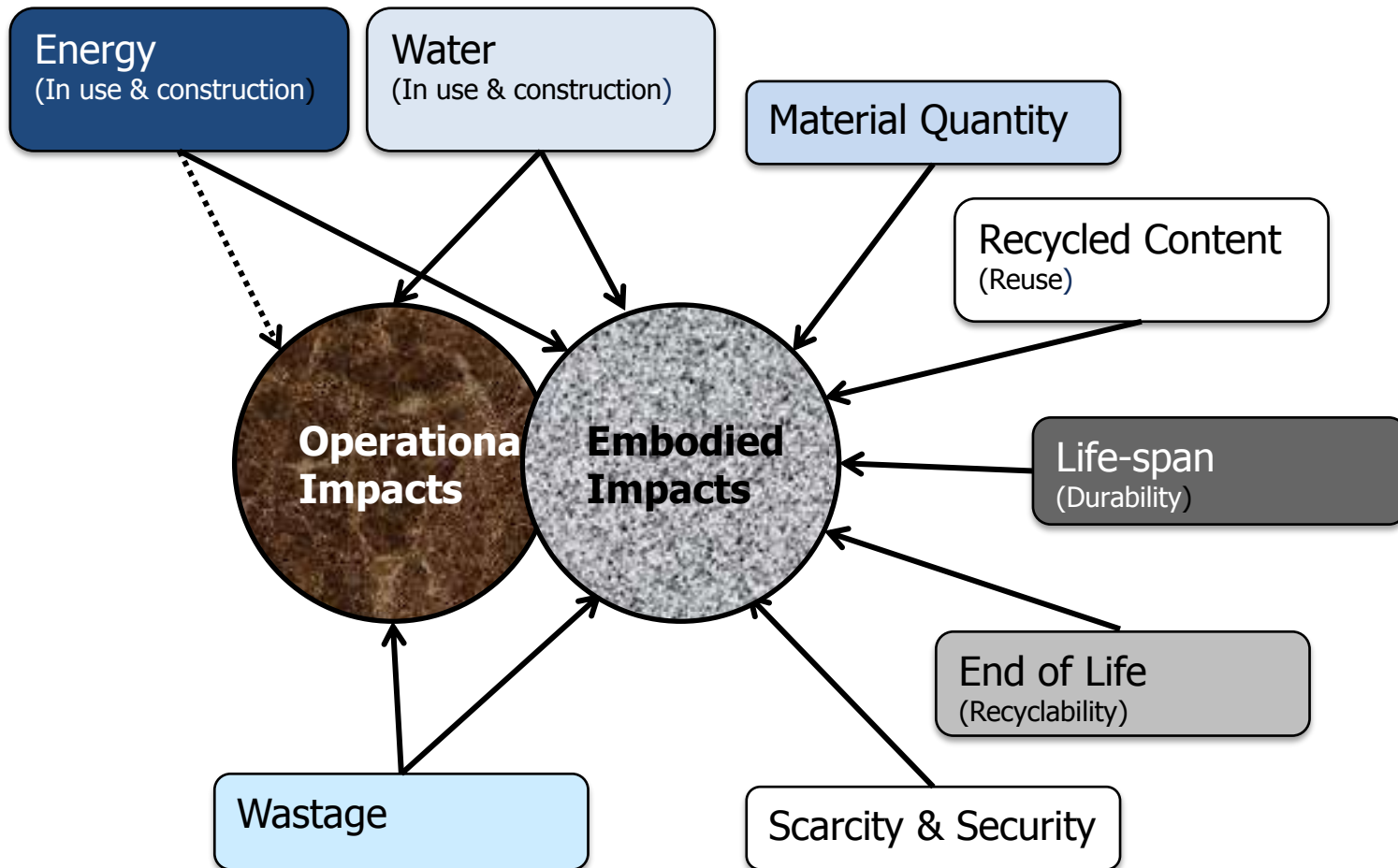


We are a demand led service
providing **Free**, specialist advice,
support and strategic interventions

RES programme

- There are **three** main elements to the programme:
- **Advice and support service:** Free advice, support, training and access to funding
 - www.resourceefficientscotland.com
 - Freephone 0808 808 2268
- **Sector Programmes:** managed by Zero Waste Scotland and supported by a framework of consultants tackling specific subjects e.g. improving building energy performance.
- **Innovation:** Development of new resource-efficient products & technologies, business models, working practices and de-centralised renewable energy infrastructure.

Resource efficient construction



Resource Efficient Scotland

Supporting the public sector

In it's first year we have helped the public sector achieve:

- Over £4million in financial savings
- Nearly 20million tCo2 carbon saving
- More than 7.5million kWh energy savings
- Over 100,000m3 water savings



Energy



Water



Raw materials

Construction Sector significance

- £88bn; 6% GDP
- 55% total annual UK materials consumption
- 35% of waste arisings
- 50% of total CO₂e
- 30% of total UK water use
- Economic growth opportunities particularly in refurbishment

RES activities

- Resource efficient procurement advice
- Training and skills development for staff to become resource aware
- Access to case studies and other examples of best practice
- Access to innovative ideas and technologies to reduce resource use

Built Environment Projects

- Existing
 - Halving waste to landfill (contractor programme)
 - RES House
 - Case studies on resource efficiency -non domestic refurbishment (retro fit Scotland)

Upcoming

- Ensuring sustainable construction
 - Embedding sustainable practices into an organisations policies and procedures

Energy related projects

- PV design assessment
- Energy option appraisals for new builds
- Building performance improvement
 - Thermographic surveys
 - Biomass feasibility surveys
- District heating schemes

Tools & applications

- Numerous toolkits
- Existing
 - measuRE- resource efficiency reporting
 - Construction Material Exchange
 - Scotland's heat map
- Coming soon
 - lighting survey toolkits

Model wording/specification

- Existing
 - Sustainable procurement
 - Maintenance and refurbishment for tenders
- Coming soon
 - BMS specifications & tender documents

Education services

- E-learning modules
 - Sustainable procurement
 - Energy efficiency (designed for energy managers)
- Guidance documents
 - BMS specification and model wording tender documentation
- On site staff training
 - Staff engagement workshops
 - Energy champion training



University of Glasgow



Outline feasibility study

River Kelvin's potential to supply heat to the University of Glasgow's district heating network



Thornliebank Depot, East Renfrewshire



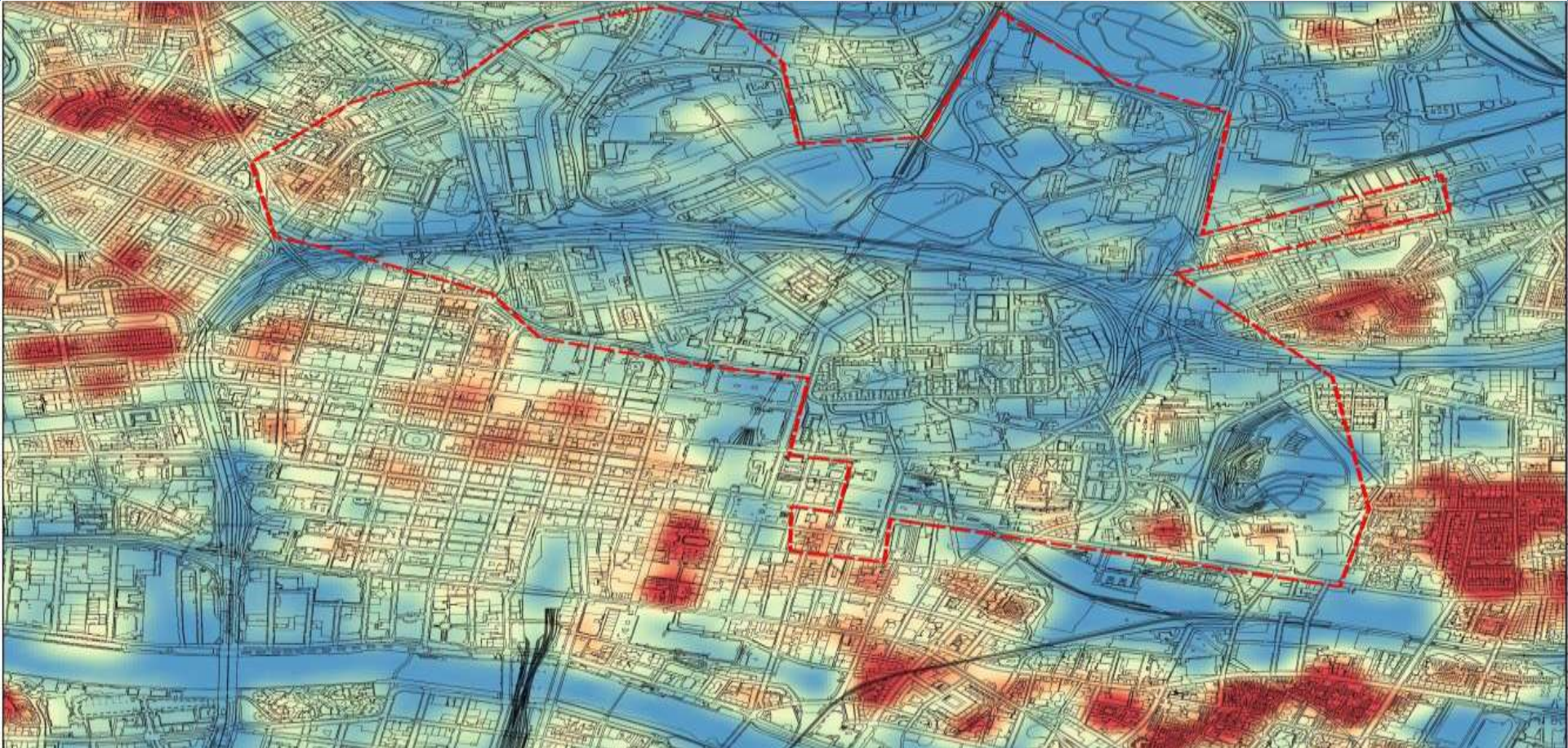
Braehead Primary School – West Dumbartonshire Council



Resource Efficiency in the Healthcare Sector



Scotland's Heat Map



Opportunities emerging from a circular economy



PROCUREMENT

The image features a magnifying glass with a black handle and a white lens. The lens is positioned over the word "PROCUREMENT", which is written in a bold, blue, sans-serif font. The background consists of a collage of various banknotes from different countries, including 1000 Euro and 1000 US Dollar bills, scattered across the surface. The overall composition suggests a focus on financial aspects of procurement within a circular economy.



Thank you

zerowastescotland.org.uk

 [@zerowastescot](https://twitter.com/zerowastescot)