# Valuing resources, inspiring change

Our plan for a sustainable, fair and prosperous Scotland

ZERO WASTE SCOTLAND

# About Zero Waste Scotland

We are Scotland's circular economy expert.

We're funded to support delivery of the Scottish Government's circular economy strategy, *Making Things Last*. We receive additional funding to support the EU's 2020 growth strategy.

# Our ambition for Scotland

If we are successful in delivering on our purpose, Scotland will benefit from:

- Reduced emissions and action to tackle climate change
- A healthier, wealthier and more equitable society
- A more resilient economy
- An enhanced international reputation
- An environment to be proud of

# Our work in context

Our work contributes to the achievement of key Scottish Government targets, including:

- Recycling 70% of all waste by 2025
- Reducing waste by 15% by 2025
- Reducing food waste by 33% by 2025
- Meeting 50% of energy heat demand from renewables by 2032
- Energy efficiency as a national infrastructure priority
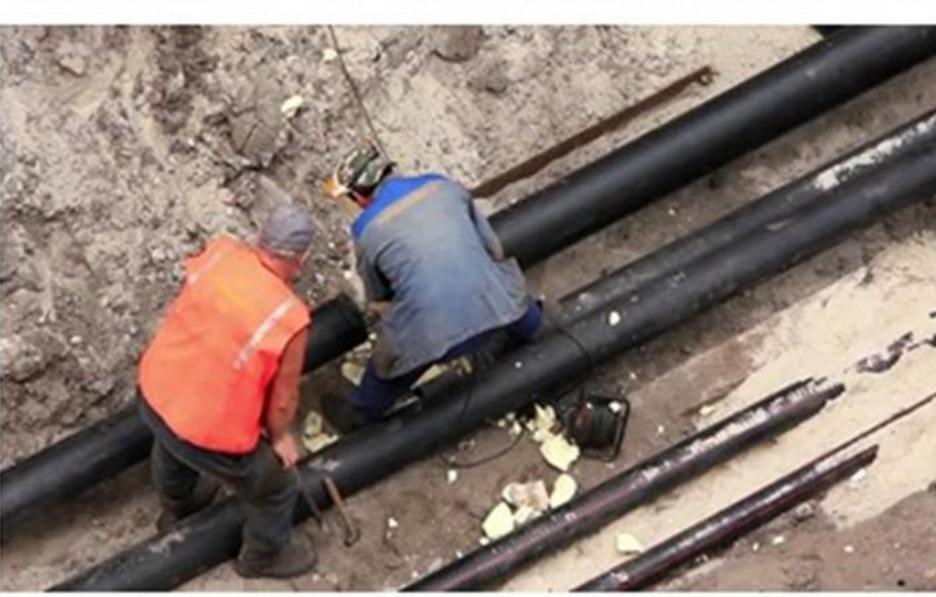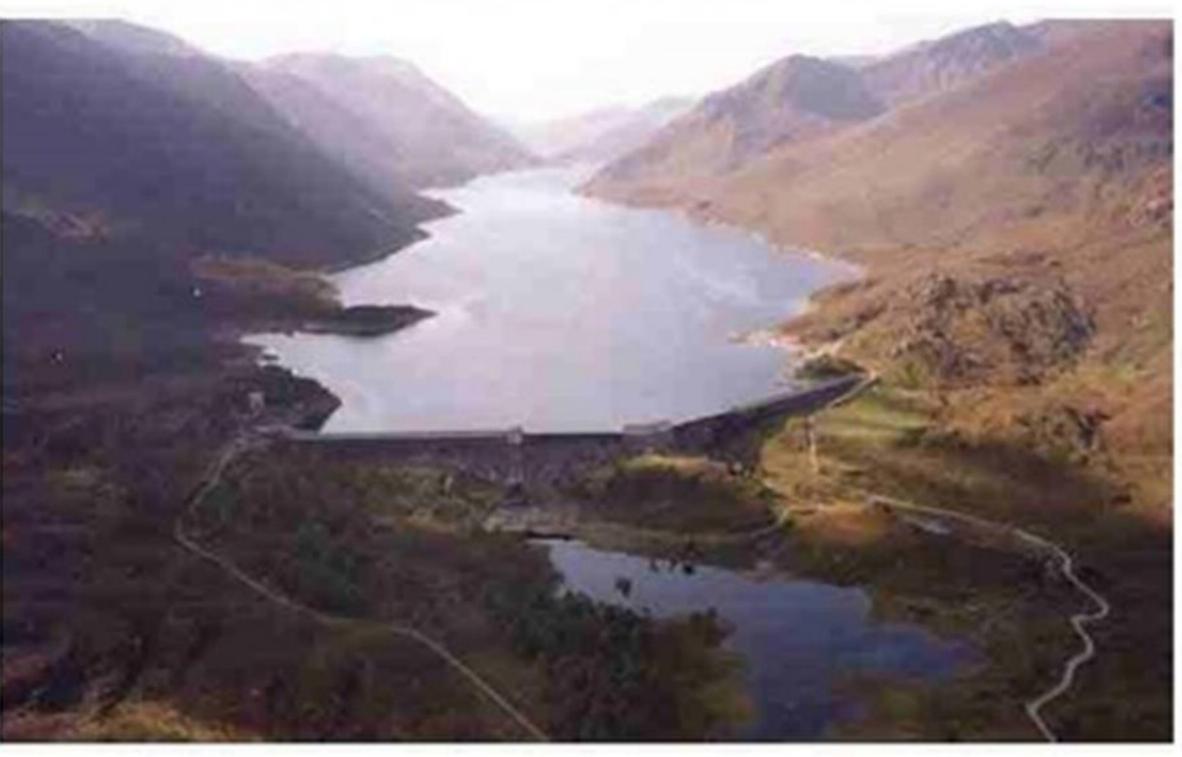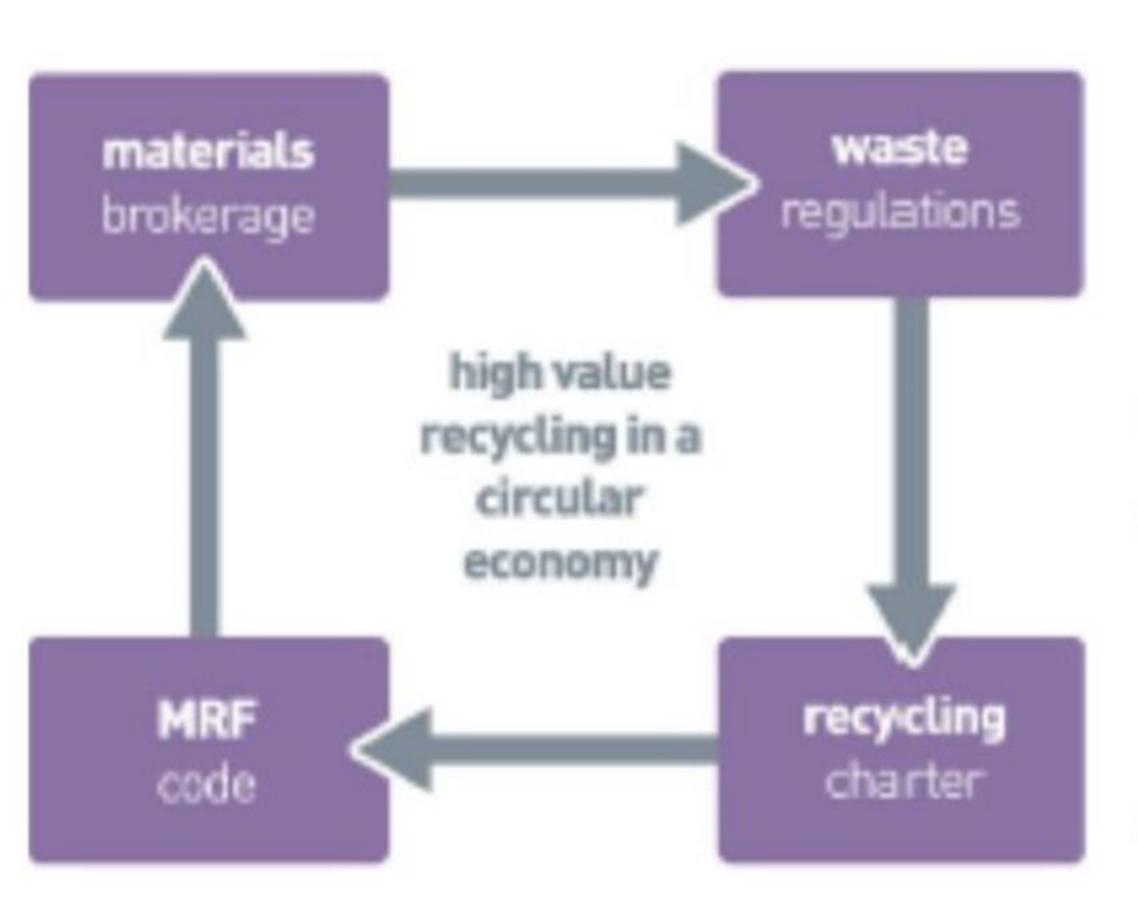- Reducing Scotland's greenhouse gas emissions by 66% by 2032

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# Our areas of work

Improving recycling performance

Accelerating a circular economy

Encouraging resource efficiency

Reducing litter and fly tipping

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# A Resource Grid

# Four 'pillar' approach

| | |
|---|---|
| **materials** brokerage → | **waste** regulations |
| ↑ high value recycling in a circular economy ↓ | |
| **MRF** code ← | **recycling** charter |

- Regulations – live from 2014
  - Food waste
  - Dry recycling
  - Landfill bans
  - EfW pre-treatment
- Charter – live from Feb 2016
- MRF Code of Practice – live from 2015
  - Standard approach to sampling
  - Standard approach to reporting
- Brokerage – live from October 2014
  - Residual (Summer 2016)
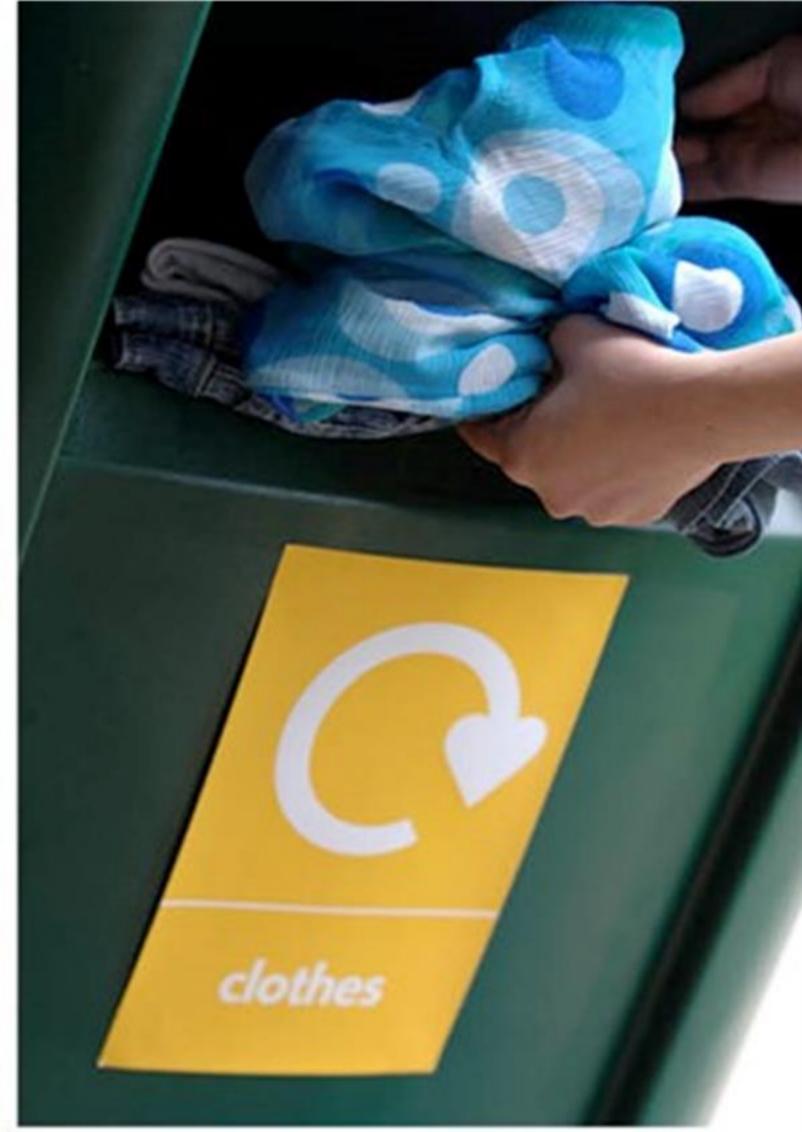  - Glass (2017)
  - Mixed Recyclates (2017)

11million tonnes
CO$^2$

# Policy context

**ZERO WASTE SCOTLAND**

**Making Things Last**

**A Circular Economy Strategy for Scotland**

natural scotland

- Launched in March 2016
- Builds on extensive research and evidence programme
- Identifies policy measures at each 'loop' of the circular economy as well as minimising leakage.
- Actions targeted at priority economic sectors
- Also recognises enabling opportunities:
  - Skills
  - Data
  - Education and awareness

Bioeconomy

Energy infrastructure

Construction

Manufacturing

Re-use and repair

**Designing** out non-renewable materials

**Returning** biological materials to the ecosystem

**Sharing** assets through peer-to-peer models

**Sourcing** energy from renewable sources

**Accessing** products as virtual services

**moving to a circular economy**

**Re-using** and re-making products as a norm
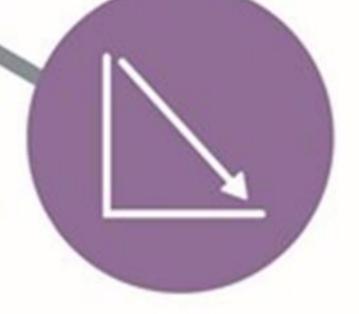
**Making** products that can be easily maintained and upgraded

**Tracking** assets through smart logistics and data

**Enabling** repair through skills, knowledge sharing and new technologies

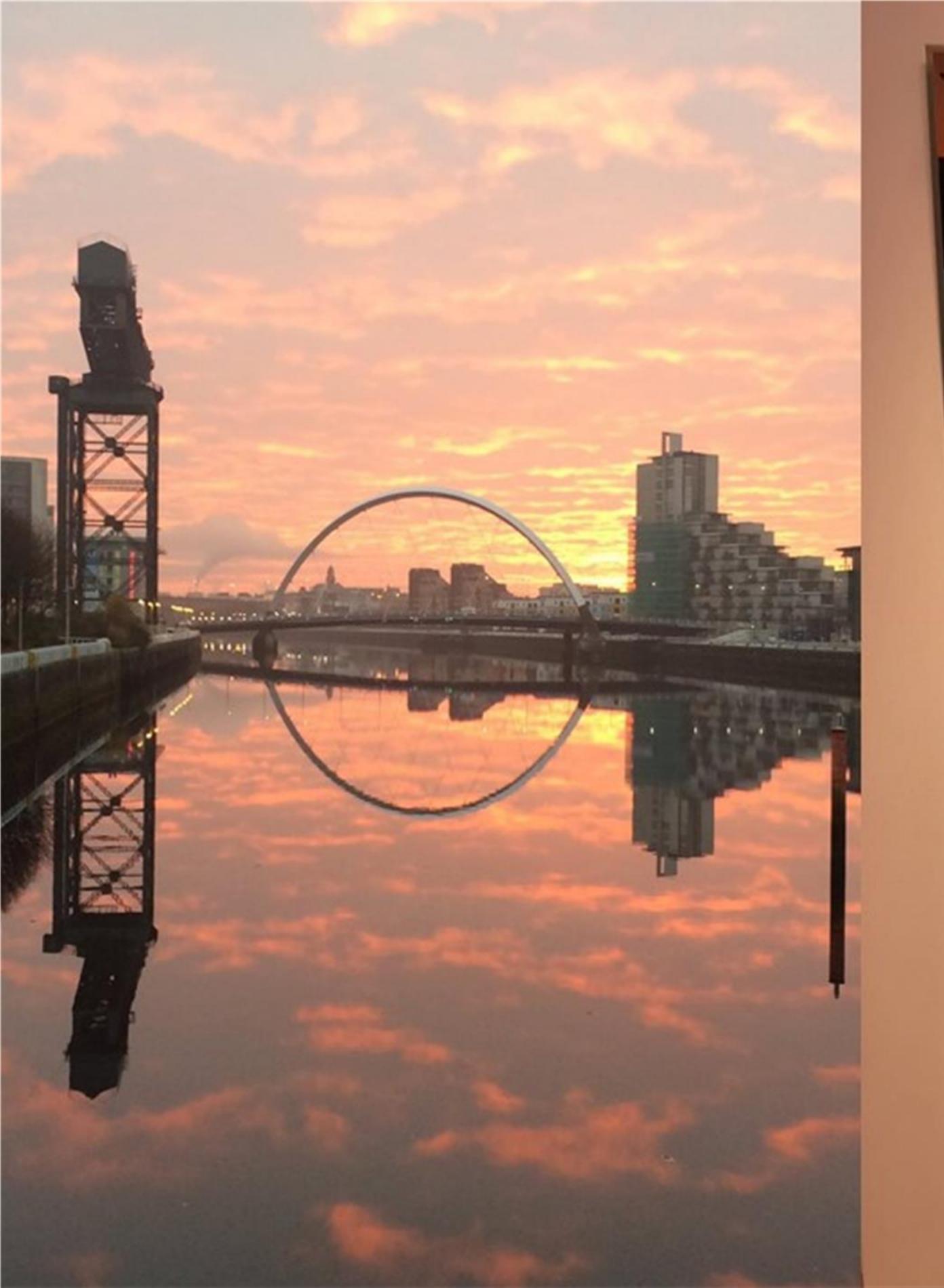**Minimising** waste in production and supply chains

# Accelerating a Circular Economy

**Our goal is to help speed up the transition to a more circular economy in Scotland**

- £18 million Investment Fund
- Dedicated 1-1 support service for businesses
- Business network to enhance peer to peer learning & collaboration
- Scottish Institute for Remanufacturing
- Reuse & Repair Infrastructure
- Development of a CE skills academy
- Procurement Training
- City and regional schemes

CIRCLE CITIES
From scan to action in four steps

CIRCLE ECONOMY

## CITY SCAN APPROACH

The Circle City Scan is a visual roadmap that identifies opportunities to foster a circular economy and aids in the creation of practical and scalable solutions to implement circular systems throughout a city. The Circle City Scan leads a city from ideas to implementation in four phases. The program commences with the application of our Circle Scan technique, illustrated in the steps below, and further uses the practical tools Circle Economy has developed to accelerate the transition to a circular economy.

1. SCAN
2. ANALYSIS
3. CIRCULAR IMPROVEMENTS
4. IMPLEMENTATION

## ABSTRACT

Approximately 50% of the world's population is living in urban areas and 70% is expected to live in cities by 2050. This increasing pressure on urban areas is sparking the need for more jobs, housing, transportation, energy, water, and food, which is leading to increased consumption and ultimately increased amounts of waste and greenhouse gas emissions.

These pressures makes cities an ideal hotbed and key inflection area for innovation and change. With circularity now on the agenda at the political, social and commercial level, future-proofing cities is the next step in creating sustainable solutions for our future.

The ability to identify and implement circular solutions at the city level can lead to, job creation, a cleaner environment, better air quality, new or rejuvenated industries, and competitiveness in global markets. This is why Circle Economy has developed the Circle City Scan, a visual roadmap that identifies opportunities to foster a circular economy and aids in the creation of practical and scalable solutions to implement circular systems throughout a city.

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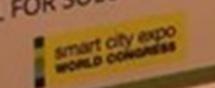
CALL FOR SOLUTIONS INITIATIVE POWERED BY:

smart city expo WORLD CONGRESS     Fira Barcelona

World Economic Forum
Circulars Award Winners 2017