SCOTTISH ENVIRONMENT PROTECTION AGENCY

Delivering One Planet Prosperity

Circular Economy Conducive Places



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THE SCALE OF THE CHALLENGE

If everyone lived as we do in Scotland, we would need three planets to sustain ourselves. Businesses, societies and nations which will thrive in the 21st century are those which have developed ways to prosper within our environmental capacity.

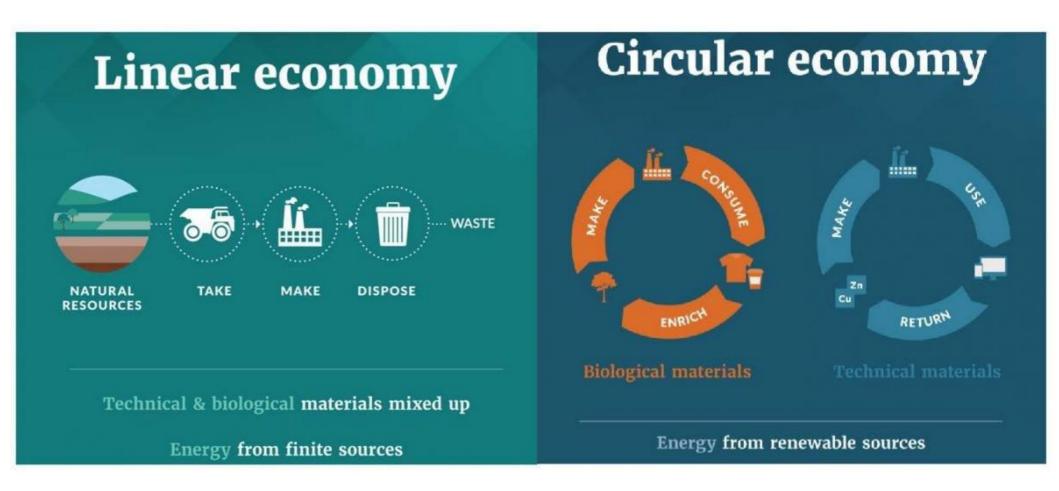


Resource scarcity issue?



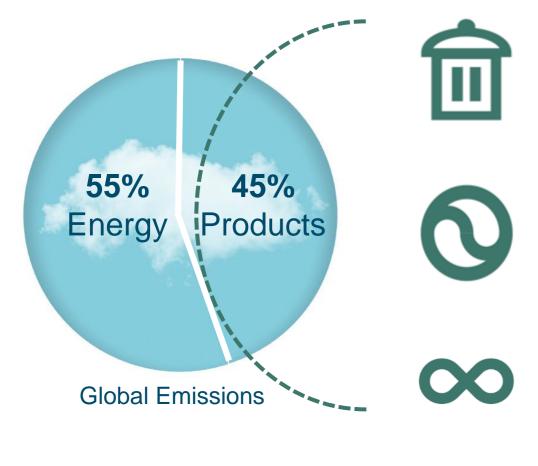
Abundance of materials and resources all around us - we just need to look in different places -







How does the circular economy help tackle climate change?



Design out waste and pollution

- reduces greenhouse gas emissions
- improves health of natural systems, increasing resilience to climate change

Keep assets and materials in use

- retains embodied energy that went into their production
- flexible design allows us to adapt assets (buildings/places) over time to the physical effects of climate change

Regenerate natural systems

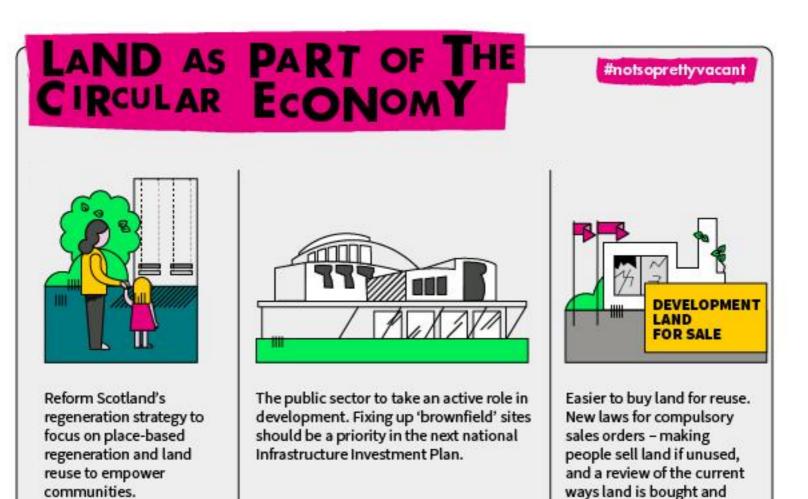
- sequesters carbon in soil and vegetation
- increases adaptation to the physical effects of climate change







sold by the public sector.





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Places

MATERIALS

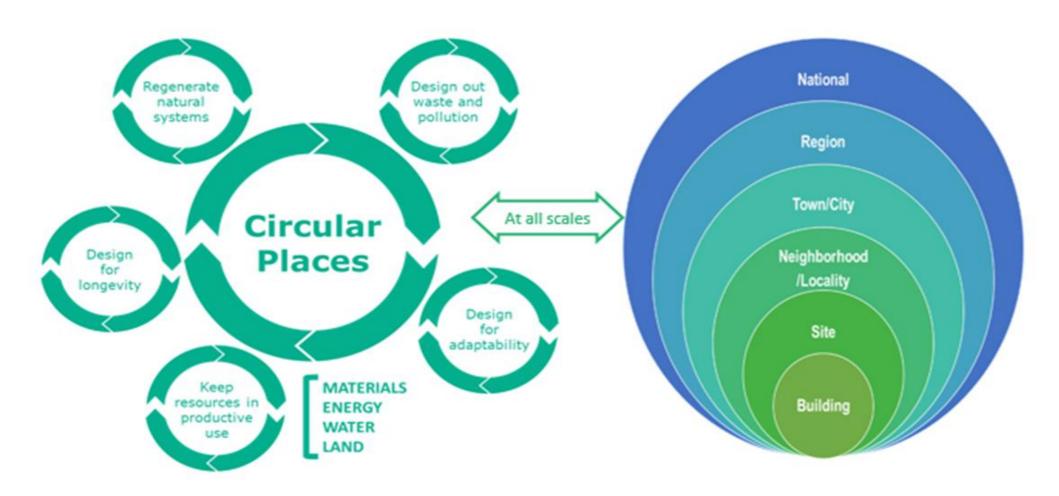
ENERGY

WATER LAND

NPF4 high level outcomes:

- Meeting the housing needs of people living in Scotland including, in particular, the housing
 needs for older people and disabled people
- Improving the health and well-being of people living in Scotland
- Increasing the population of rural areas of Scotland
- Improving equality and eliminating discrimination
- Meeting any targets relating to the reduction of emissions of greenhouse gases
- Securing positive effects for biodiversity







Planning for Circular Places

Reducing Resource Use

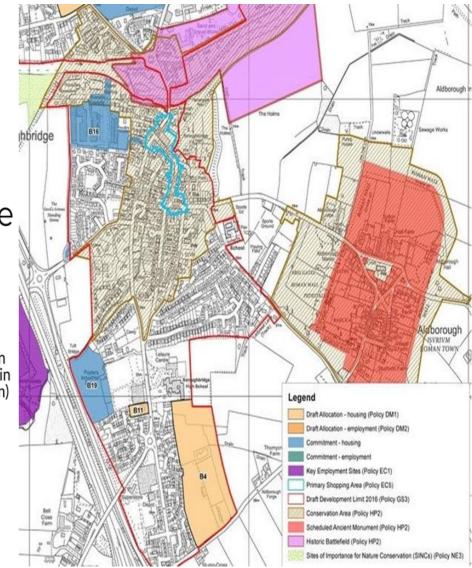
urban form and spatial structure are strongly related to resource use. Compact site development can:



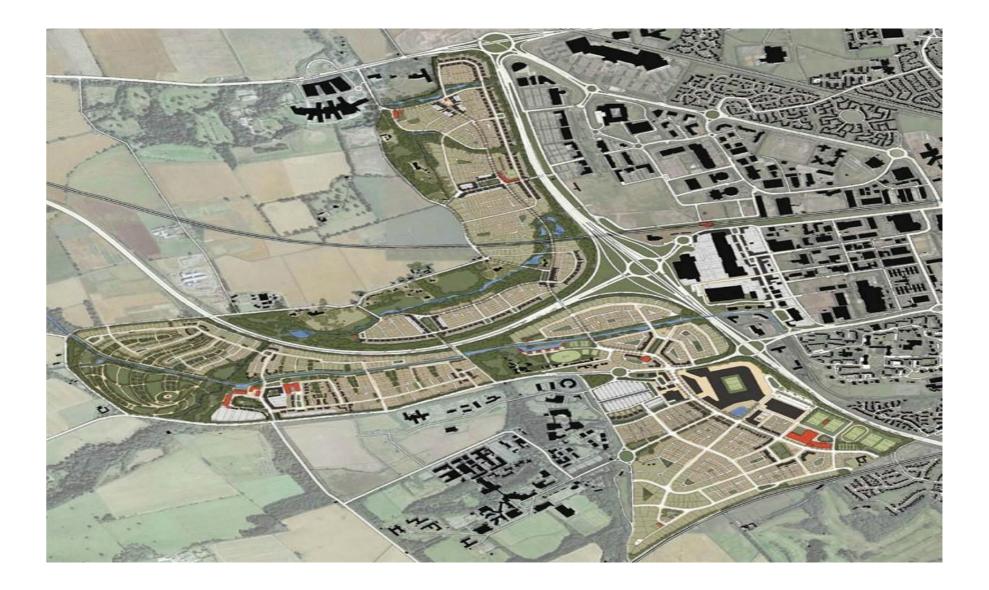
Reduce the (relative) need for new urban land



reduce energy use for transportation by reducing distances and encouraging use of public transport increase the efficiency of infrastructure and contribute to a reduction in resource consumption (eg in infrastructure construction)

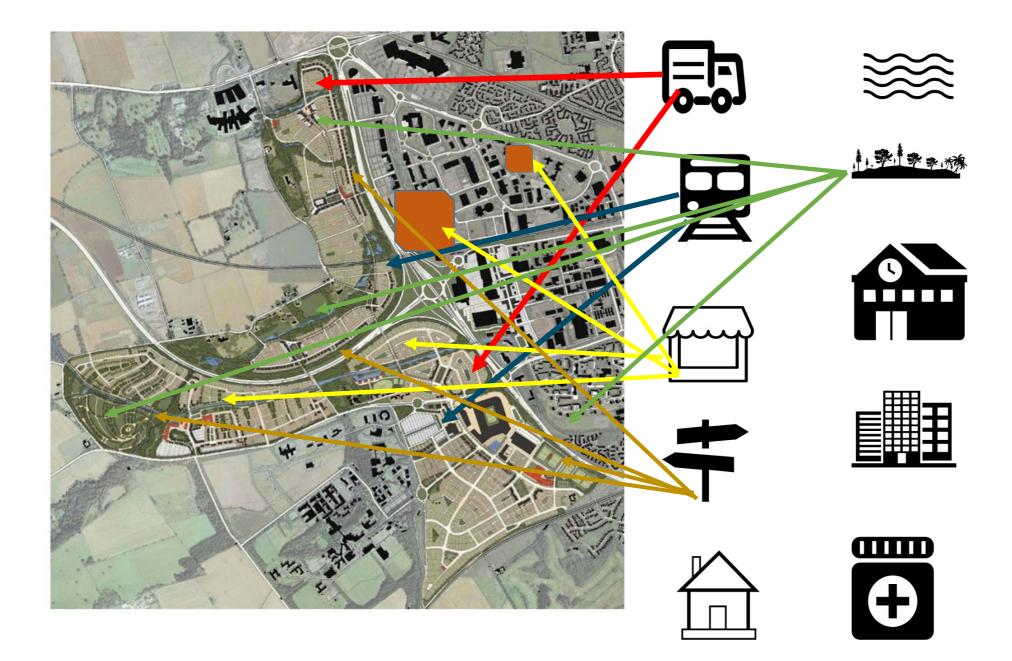






Partners in Planning: working with Climate Change in mind **Circular economy conducive places**







How SEPA can help?

Embedding the circular economy into our work

- Incorporating circular economy principles into our sector plans
- Provide support and information across SEPA work that uses circular economy principles to deliver One Planet Prosperity
- Early engagement through planning service refreshing our approach to be collaborative and place-based with focus on circular economy
- Sign-post information sources and help facilitate partnerships



