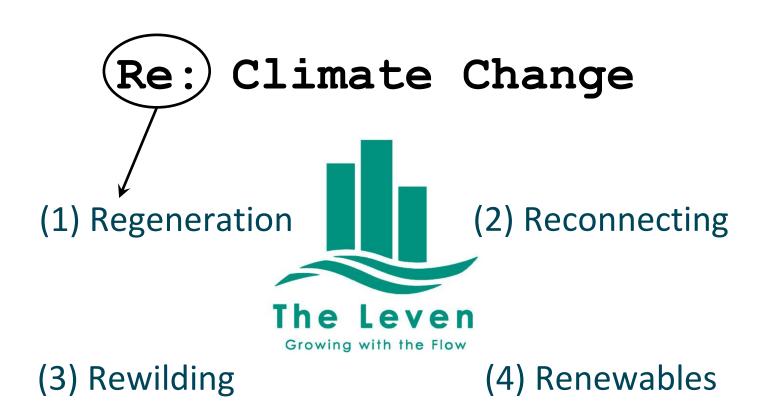


Re: Climate Change

— what's a local authority officer to do ?

Dr Donald Payne
20 October 2022







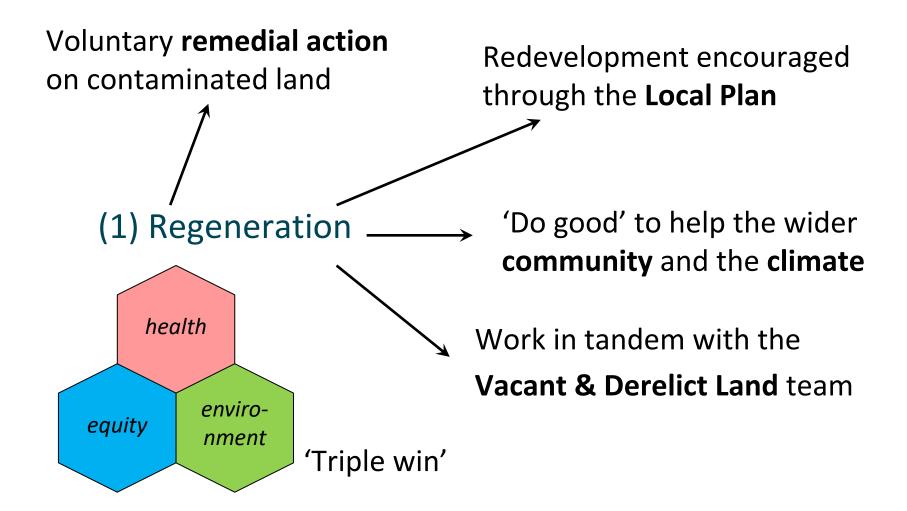
"seek to bring damaged land back into beneficial use"

Scottish Executive Circular 1/2000

"council declared a climate emergency in September 2019"

Fife Climate Action Plan 2020-2030



































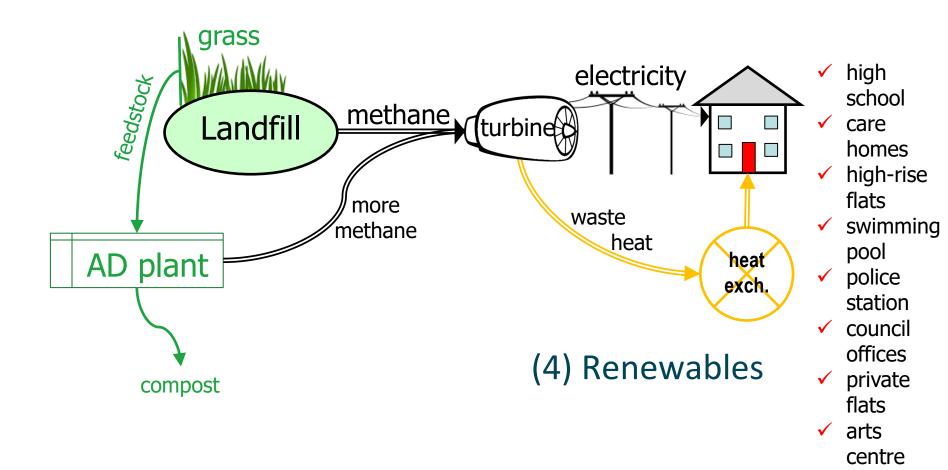




→ SSSI?



✓ superstore



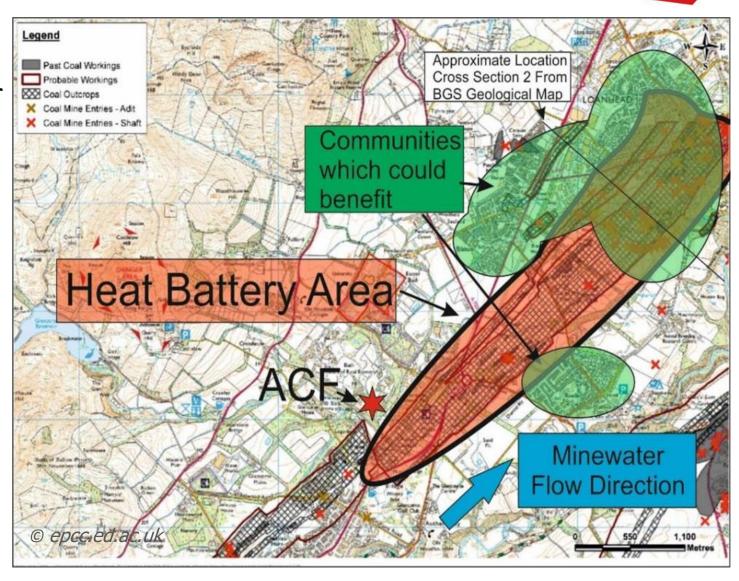


New UK
Exascale
Supercomputer

will be located at Edinburgh University

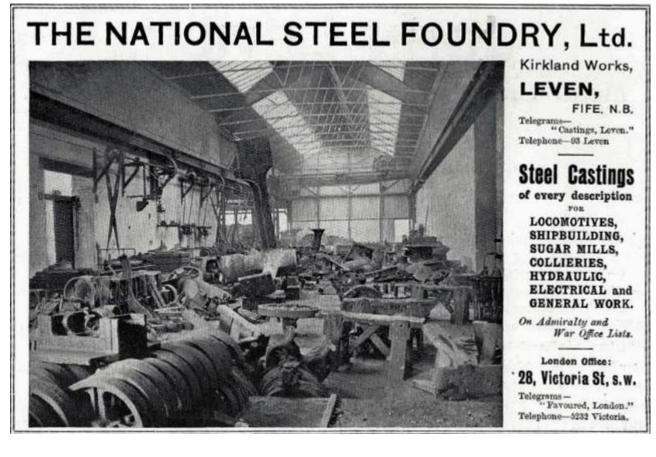
and consume 50 GWh/yr renewable electricity

and...





(across the river)



- sail cloth works
- iron foundry
- own gasworks
- and cyanide manufactory (for export)
- adj. coal bing
- raised landfill
- deprived area (low house prices)











Awards:









Case Study

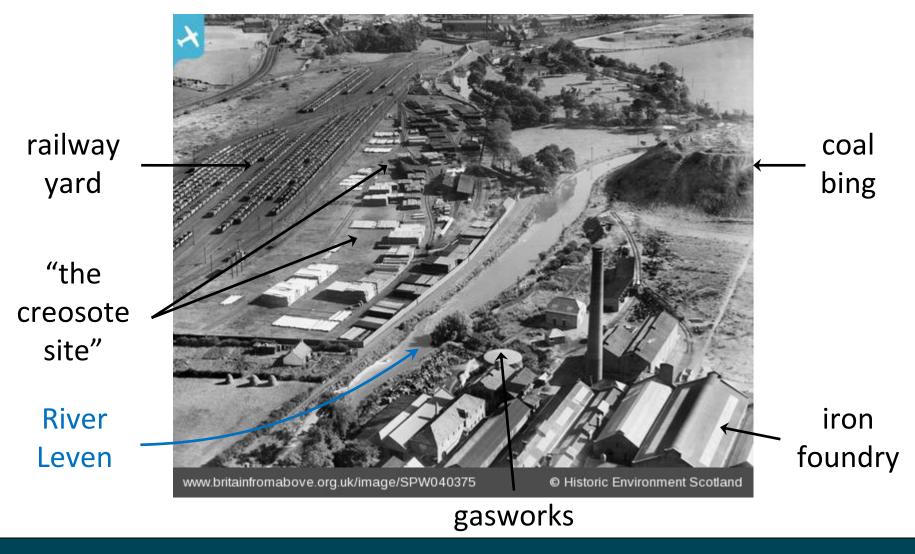
— Can local authority officers be proactive?

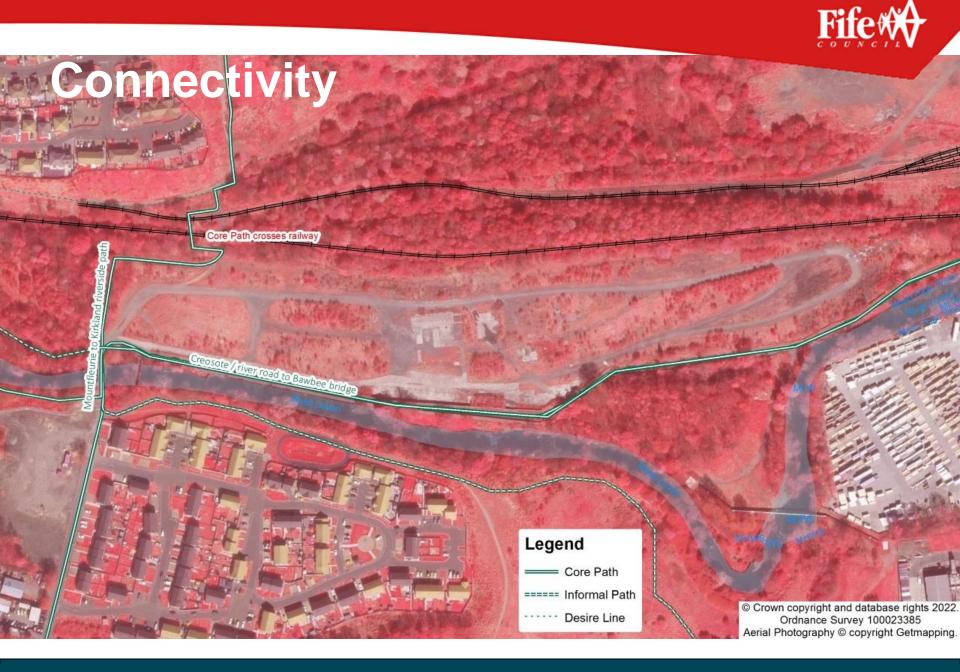
— Do electricity turbines slow down the wind ?

— Does hydrogen production compete for water ?



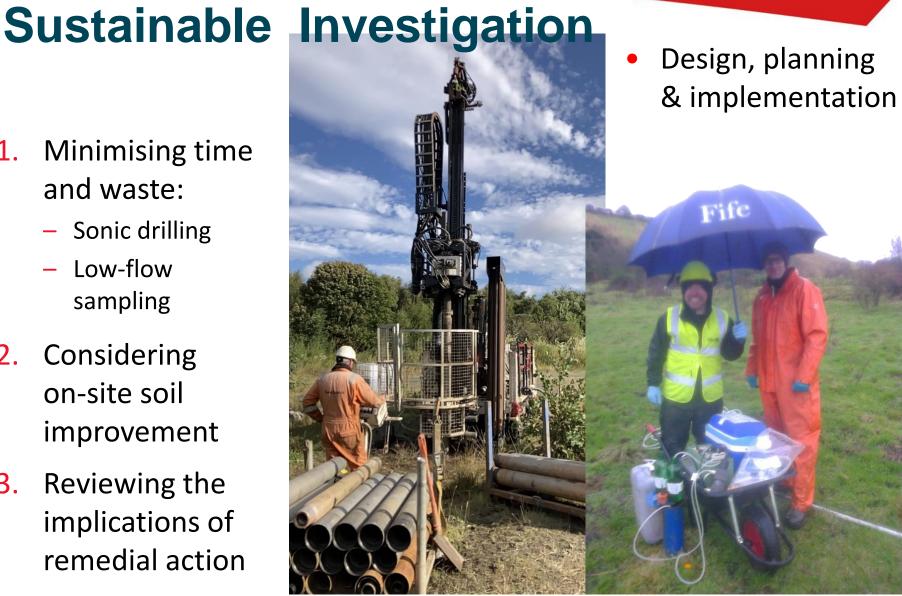
Case study site



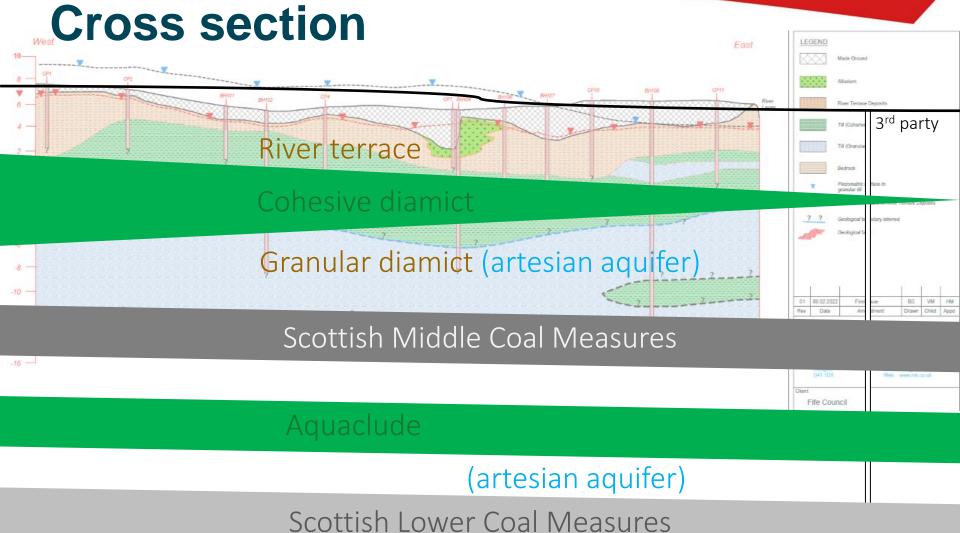




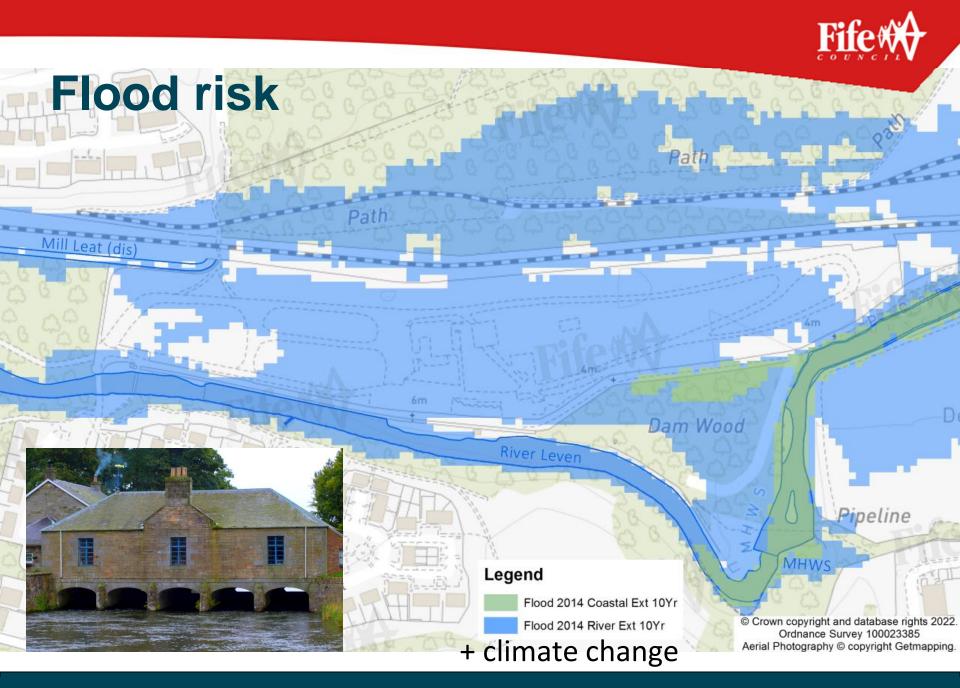
- Minimising time and waste:
 - Sonic drilling
 - Low-flow sampling
- Considering on-site soil improvement
- 3. Reviewing the implications of remedial action







mine water pumping →





Case study actions

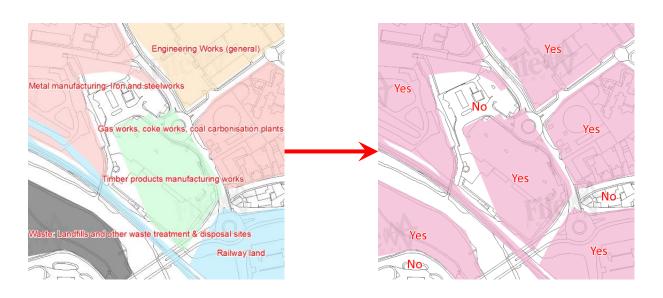
- 1. Need a decision on proposed end use(s) before proceeding to detailed quantitative risk assessment
- 2. But any proposals will have sustainability at the heart of the decision-making process, for example:
 - The design can be adjusted to place sensitive land uses in areas where little or no treatment would be required...
 - Soils can be improved onsite through the addition of eg. biochar and/or free compost sourced from the council's AD plant \odot
 - What's the point of breaking out perfectly good concrete hardstanding when some end uses would probably benefit?
- 3. Dereliction in the heart of the community: surely there is no better candidate for bringing land back into beneficial use.





Communicating...

"we've given you access to our data"



"too much info! consult yes, or no?"





Dr Donald Payne

donald.payne@fife.gov.uk

Land & Air Quality, Fife Council

www.fife.gov.uk/contaminatedland

03451 555555 ext. 440459



After the Renaissance,

"nature became a commodity and an obstacle to human progress"

People sometimes view nature with pity but always from the outside; indigenous people always see it from within:

"in [nature] I find my legs are also the path they walk upon"

- Eduardo Galeano, open letter, April 2010