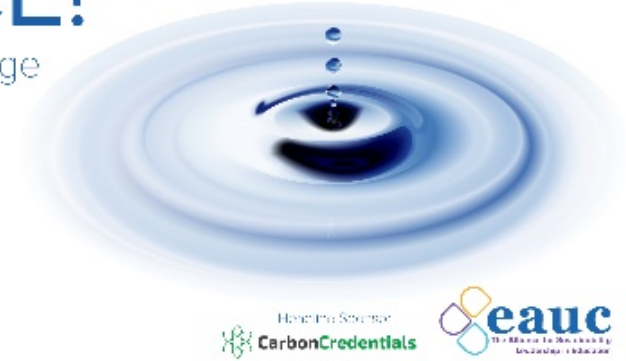


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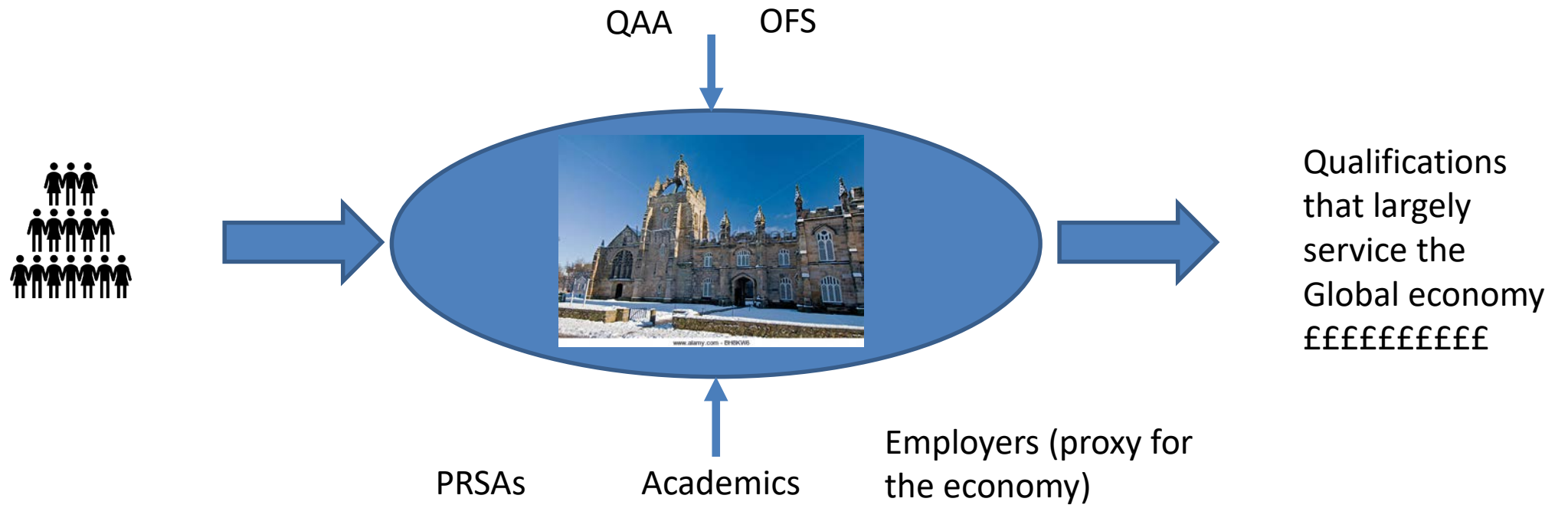
Dr Alison Green,
National Director, Scientists Warning

Influential Disruption

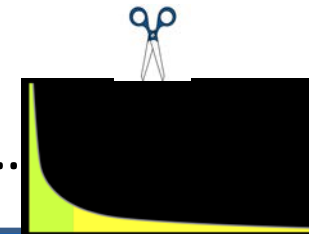
What are FE and HE for?



FE and HE arguably focused on the economy:



There is great pressure to cut 'under-performing' curriculum.....



.....

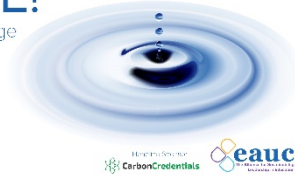


Most popular UK course subjects

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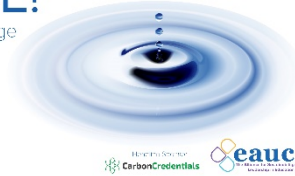
Most searched for courses were:

- Physiotherapy
- Law
- Make-up
- Psychology
- Actuarial science
- Paramedical science
- Computer science
- Sports psychology
- Medicine and surgery
- Marine biology

(Based on 100,000 courses at more than 700 UK universities and colleges

<https://www.thecompleteuniversityguide.co.uk/courses/top-ten-most-popular-courses-in-the-uk/?entry=4>)

Climate Breakdown and Ecological Collapse



- What does the future likely hold for us?

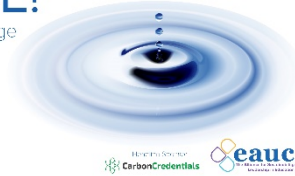
	Active – Requires Energy & Hierarchy	Passive – Energy Minimal/ Minimal Infrastructure
Water Management	Centralised and pressurised mains supply – fully treated. Delivered anywhere.	Localized treatment and reservoir management. Community managed. Sewage treatment localised.
Heating & cooling	Currently fossil fuel dependent with move to electric/ aerothermal solutions.	Dwelling design focused on maximising heat capture and cooling. Smaller rooms. Leverage sources from manufacturing, cooking,
Cooking & Lighting	Electric/ Gas etc	Local electricity generation & Fossil fuels
Transport	Air, Automobiles etc etc	Walk, bike, sails & dirigibles?
Communications	Fibre, Copper, synchronised, could	Radio, local cloud/ kiosk, libraries are back.
Food sourcing	Supply chains deliver anything	Buy and eat local. GIY and KIY?
Governance	Global / Regional	Local

What unavoidably must be done?

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Global net emissions should be zero around 2050 – in Europe and the US by around 2040. (Rockström et al. 2017). This means:

- **Energy** - Massively reduce energy consumption – renewables cannot meet current or growing energy needs (lower EROI)
- **Transport** – Shift from private to public, lower overall rates of transport
- **Food** – Shift to plant-based, locally sourced food. International food trade to be a key component of food security rather than commodity market .
- **Housing and buildings** – shift away from concrete and steel towards wooden constructions.

***** **Business as usual cannot continue** *****

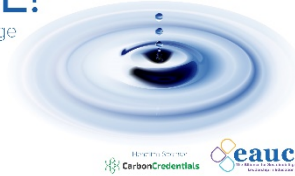
(Source - Global Sustainable Development Report 2019 drafted by the Group of independent scientists https://bios.fi/bios-governance_of_economic_transition.pdf?fbclid=IwAR2cs9ICVFdJ_SsuuJMp1QDR-XTkbpZ9d1FOE-FVrka5YJKHTVeYRhrFUo8)



Influential disruption – Activist responses

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- Extinction Rebellion – 3 key demands 
- Youth Strike for Climate – several key demands
- Sunrise movement, Scientists Warning 



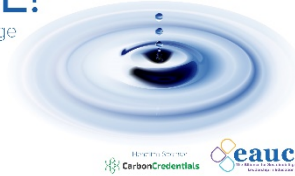
- Declarations of Climate Emergency – from UK councils, then Bristol University, others following.

Effecting Change

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- Young people will inherit a spent planet
- Curriculum has to radically shift – reform is not enough
- The university sector can lead by virtue of being the intellectual home to key disciplines

Thank you!

