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Global Goals for Tomorrow's Education, Today **19TH ~ 21ST JUNE 2018 KEELE UNIVERSITY**



Getting Climate Change Adaptation on your Institution's Agenda

Headline Sponsor







MitigationReducing greenhouse gas emissions in order to
slow or stop global climate change (i.e. using the
car less, flying less, buying local food)

Adaptation Adjusting to the impacts of climate change to reduce the negative impacts and exploit any opportunities (*i.e. building sea walls, removing carpets from buildings at risk of flooding*)

Adapting to Present Climate Change

In the UK:

- Average sea level rising by 3 mm per year
- Earlier onset of spring and summer is affecting plants and animals
- Winter rainfall is arriving in more intense bursts
- Reduction in the number of frost and snow cover days
- Average temperatures 0.5°C-1°C higher than 1970s in England









supporting climate change resilience

Expected Impacts in UK





- Weather will remain variable, it may become more variable
- Typical summer is hotter and drier
- Typical winter / autumn is milder and wetter
- Sea level rise
- Increase in summer heat waves, extreme temperatures and drought
- Increased frequency and intensity of extreme precipitation events
- Reduced occurrence of frost and snowfall

Expected Impacts on UK Systems





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Expected Impacts on UK Systems





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Climate Change Adaptation Project



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"Further and Higher Education" organisations will be equipped to make timely, well-informed decisions around the consequences of climate change, putting in place appropriate plans to mitigate risks and realise opportunities"



How has severe weather (e.g. floods, storms, cold snaps, heatwaves) impacted your institution in the past?

- Consider individually (1 minute)
- Each participant shares their best example (20 minutes)
 - What happened?
 - What were the business impacts? Consider the categories on the template
 - How could the climate projections shared exacerbate the risk in future?
- Quick report back from group
 - What were the most common impacts?
 - Was there anything surprising?







Adaptation to Climate Change at University of St Andrews









Scottish Government Public Sector Climate Change Duties Annual Report

- Has the University assessed current and future climate-related risks?
- What arrangements does the University have in place to manage climate-related risks?
- What action has the University taken to adapt to climate change?

Case Study





- What progress has the University made in delivering the policies in the Scottish Climate Change Adaptation Programme
- What arrangements does the University have in place to review current and future climate risks?
- What arrangements does the University have in place to monitor and evaluate the impact of the adaptation actions?
- What are the University's top 5 priorities for the year ahead in relation to climate change adaptation?







University of Cambridge Climate Risk and Resilience Scoping Study



Kieran Power







A complex mix of assets...

- Operational estate 340 buildings, gross area ~640,000m²
- Significant historic assets
 - 74% built before 2000
 - 16% built before 1914)
 - 49 listed buildings
 - Heritage conservation areas
- Complex, power-dependent laboratories; specialised equipment
- University farm...



Case Study





Drivers for the study

- Climate risk considered for NE Cambridge development but no structured approach for operational estate
- Establishing EMS
- Preparing 20-30 year spatial strategy – the time is now!











Project approach and status

- Understand impacts of past severe weather events
 - Available data
 - Interviews
- Screen sites for exposure/vulnerability to climate hazards – quickly narrow down priorities



- Understand risk to 'critical functions' and how this may change (2020s, 2050s, 2080s)
- Preliminary adaptation options
- High risks/uncertainties potentially requiring more analysis







Are you taking any form of action at your institution around adapting to climate change?

Climate Change Adaptation Project

Project timescales: Expected to be completed Autumn 2018

Get involved: Email Rebecca – <u>rpetford@eauc.org.uk</u>

Look out for details of project outputs within eNews and on the EAUC website – they will be made available to all.







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Thank you!



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