



**Dorset Climate Change Adaptation Framework
Workshop
18 June 2019
Report**

Supported by



Introduction

This report gives a summary of the Climate Change Adaptation Workshop held on 18 June 2019.

Thanks go to the members of the Working Group for giving their time to support this work; Dorset AONB for their contribution to Dorset LNP through their Sustainable Development Grant; Chapman Lily Planning who sponsored the event; and Kingston Maurward College who hosted the event.

Background

Following the publication of the UK Climate Projections 2018 (UKCP18), published in November 2018 by the Met Office, Dorset LNP and Dorset LEP have worked together to investigate if there is an appetite for developing a framework for climate change adaptation across Dorset and if so, to develop a strategic direction. More collaborative working has been undertaken on climate change mitigation within Dorset than has been undertaken on adaptation, for example through the Dorset, Bournemouth and Poole Renewable Energy and Energy Efficiency Strategies and the joint Local Transport Plans.

In 2017 Dorset LNP published Position Papers on Climate Change Mitigation¹ and Climate Change Adaptation². The Dorset LNP *Climate Change Adaptation Position Paper* set out the following vision: *'Dorset LNP wants 'Dorset to adapt to inevitable climate change by making timely, far sighted and well-informed decisions to address the risks and opportunities posed by a changing climate and ensure the natural environment, local economy, infrastructure and communities are resilient to such change'.*

Through its vision Horizon 2038³, Dorset LEP aims to realise the ambition for Dorset to become a leading low-carbon energy economy, driving efforts to deliver affordable energy productivity and clean growth while protecting its natural environment.

A Working Group with members from Dorset LNP, Dorset LEP, BCP Council, Dorset Council, Environment Agency, and Dorset AONB formed to investigate developing an adaption framework for Dorset and planned a workshop session to begin the process.

The purpose of the workshop was to bring together stakeholders from range of sectors to discuss climate change risks for Dorset, understand the UKCP18 projections and investigate the interest for collaborative working. The specific aims of the workshop were:

- To raise the profile of the need for collaborative climate change adaptation working in Dorset
- To engage stakeholders in developing collaborative working on climate change adaptation

A call for evidence on previous, current and planned climate change adaptation work within the area was issued to Dorset LNP and Dorset LEP members via newsletters and social media.

Attendance

The event was held on 18 June and was attended by over 80 people from the public, private and voluntary sector. The Leaders and the Portfolio holder / Cabinet members of both the local authorities attended along with senior officers demonstrating political leadership – both councils have now declared a climate emergency. Senior and operation staff attended from NGOs and other organisations were also in attendance. There was a good mix of attendees although there were fewer business representatives than we had hoped for. A full list of attendees is included in Appendix 1.

¹ www.dorsetlnp.org.uk/wp-content/uploads/2019/01/Climate-Change-Mitigation-Position-Paper2.pdf

² www.dorsetlnp.org.uk/wp-content/uploads/2019/01/Climate-Change-Adaptation-Position-Paper1.pdf

³ www.dorsetlep.s3.amazonaws.com/Horizon%202038%20final/Dorset_Horizon2038_Nov2018_FINAL.pdf



Presentations

The full agenda is available at: www.dorsetlnp.org.uk/cc-adaptation-workshop-june-2019

Session 1: The impacts and risks of climate change

Session 1 of the event focused on looking at the impacts and risks of climate change to set the context and raise awareness of the need to collaborative work within Dorset.

Welcome and Introduction

Luke Rake (Dorset LEP) and Simon Cripps (Dorset LNP) welcomed delegates to the event setting out why the Dorset LEP and Dorset LNP were working together (as set out in the Background section).

The UK Climate Projections 2018 Scenarios: Introduction and Overview

Antony Littlechild (Dorset Council) gave a summary of the latest UK climate predictions (UKCP18) published by the MET Office and an overview of the tools and information available as part of UKCP18. It focused on a summary of the key findings from latest climate model predictions for future precipitation, temperature and sea level rise in the UK over the next century based on different Green House Gas Emission scenarios.

It noted that the key predictions of the UK are increased temperature, hotter drier summers and wetter warmer winters, sea level rise and increased likelihood of extreme events. The presentation highlighted that the extent of change will depend of the future greenhouse gas emission scenarios, but that change is already happening, and we need to plan for adaptation to the impacts & risks of current and future climate change. The UKCP18 is a useful tool and will be further refined in 2019.

Presentation available at: www.dorsetlnp.org.uk/wp-content/uploads/2019/07/Antony-Littlechild-UKCP18.pdf

Committee on Climate Change: UK Climate Change Risk Assessment 2017 Evidence Report

Maria Clarke (Dorset LNP) set out a summary of the *UK Risk Assessment 2017 Evidence Report* published by the Committee on Climate Change. The Evidence Report focused on five key themes: natural environment and natural assets; infrastructure; people and the built environment; business and industry and international dimensions. The Report highlights seven key risks across the themes: flooding and coastal change; risks to health from high temperatures; shortage of public water supply; risks to natural capital; risks to food production and trade; and pests / diseases and invasive species.

Presentation available at: www.dorsetlnp.org.uk/wp-content/uploads/2019/07/Maria-Clarke-Climate-Change-Risk-Assessment.pdf

United Nations Framework Convention on Climate Change: Resilience Frontiers - An international perspective to adaptation

Chris Skelly's (Public Health Dorset) presentation highlighted details from a 5-day conference on Transformative and Regenerative Climate-Resilient Futures in Songdo, South Korea in April 2019. The conference set out three objectives:

- i. Foster a 'Nature First' Culture: to ensure environmental stewardship
- ii. Retool Global Cooperation: to effectively respond to future climate risks
- iii. Transforming sectoral approaches: to sustain long-term regenerative resilience

Presentation available at: www.dorsetlnp.org.uk/wp-content/uploads/2019/07/Chris-Skelly-Resilience-Frontiers.pdf



Session 2: Adaptation in Dorset past, present and future

Session 2 of the event focused on existing and planned adaptation work undertaken within Dorset and how we could take this further in collaboration.

Summary of previous/current climate change adaptation work within Dorset

Rebecca Landman (BCP Council) highlighted some of the submissions to the call for evidence issued prior to the workshop demonstrating that we are not starting from a blank sheet of paper on adaptation work. Examples include the Dorset (county and district/borough councils) Comprehensive Climate Change Risk assessment; Poole's Core Strategy addressing sea level rise; Public Health Dorset's study into coping with extreme temperatures; and a workshop for tourism business on climate change adaptation in Bournemouth. The full details of the call for evidence are being collated into a separate document.

Dorset case studies

The case studies aimed to give detail to a few examples of existing adaptation work.

Wild Purbeck

Tom Munro's (Dorset AONB) presentation explained the relevant work of the Wild Purbeck Partnership namely the Climate Change Adaptation Strategy and Wild Fire Management Plan elements. The processes and products were summarised. Advice sheets for climate change adaptation were created by the partnership for arable and grassland farming systems as well as heathlands, wetlands and woodlands. Details are available at: www.dorsetaonb.org.uk/project/wild-purbeck.

Presentation available at: www.dorsetlnp.org.uk/wp-content/uploads/2019/07/Tom-Munro-Wild-Purbeck.pdf

Highway Assets: Managing and Adapting for Climate Change

Anthony Kirby (BCP Council) highlighted the work of the South West Highways Initiative, developed after the winter damages from storm events of late 2013/early 2014. As part of this the Highways Infrastructure Resilience Assessment Modelling tool has been developed to improve resilience on the network.

Presentation available at: www.dorsetlnp.org.uk/wp-content/uploads/2019/07/Anthony-Kirby-Highways-Assets.pdf

BU Marineff project: Vertipools

Jess Bone's (Bournemouth University) presentation set out a multidisciplinary EU Interreg Project running between 2018- 2022 to design, implement/deploy and monitor Biomimetic Marine Infrastructure (ecological enhancement). One element of the project artificial rockpools known as Vertipools, which will create 'hotspots' of biodiversity on the otherwise plain, smooth walls of sea defences.

Presentation available at: www.dorsetlnp.org.uk/wp-content/uploads/2019/07/Jess-Bone-Vertipools.pdf

Q&A – Chaired by Simon Cripps

Simon Cripps chaired a panel Q&A session of the speakers.

What are we doing to harness water?

Using water as a resource is more for generation and mitigation than adaptation. We are working with Wessex Water to understand what their plans are. As well as other opportunities for harnessing natural resources for electricity generation.

Migration, what happens with more people coming to Dorset?



This is not a problem isolated to Dorset, with people moving around the country there is a need to understand how that will impact on the environment of Dorset.

Including building resilience to our transport network and encouraging people to travel in a sustainable way. Dorset LEP is working in partnership with Dorset Council and BCP Council to develop a South East Dorset Urban Mobility Strategy which will consider all current and emerging policy, data, innovation and technological developments, emerging trends in transport and make use of the latest tools and best practice in the industry.

The refresh will carry out rigorous assessment of potential transport interventions that reflect current best practice, new technology and emerging 'smart' approaches to sustainable city planning. It will set out an evidence based strategy with the range of transport interventions required over the next 15/20 years to facilitate planned growth, deliver widespread health and social benefits and ensures the South East Dorset area remains a world class place to live, work and do business.

What technology is needed for Climate Change Adaptation?

Use of current technology such as digital is needed to respond to Climate Change Adaptation, as well as innovation in this area. This is highlighted in the South West Rural Commission report, October 2017 and the South West LEPs are working on delivering this in partnership with businesses and education institutions.

How do we bring people with us?

There is a need for further engagement in Climate Change Adaptation, and often end up preaching to the converted. How do we engage with other people? The next generation is going to make the difference, and there needs to be enhanced engagement with them. As well as the possibility of establishing a Citizen Assembly pulling people together to represent the population.

Workshop Session Summary

The workshop session divided attendees into eight groups and looked at four of the themes as set out in the UK Climate Change Risk Assessment 2017: natural environment and natural assets; infrastructure; people and the built environment; business and industry (two groups on each theme).

Each group was asked to look at the following questions related to their theme:

Q1: What are the key risks relevant to the topic area and what impacts/opportunities could we expect?

Q2: What do we need to do, who needs to be involved and are there any existing groups/forums/structures which could be utilised or is a new working group required?

Q3: Is there interest in working collaboratively to develop a joint adaptation framework, and if so, how does this group prefer to communicate?

The key points from the discussions were:

Q1: What are the key risks relevant to the topic area and what impacts/opportunities could we expect?

- | | |
|-------------------------------------|----------------------------------|
| ▪ Resilient road network / movement | ▪ Health |
| ▪ Sea level rise | ▪ Water shortage |
| ▪ Coastal erosion | ▪ Human migration / displacement |
| ▪ Flooding | ▪ Political inaction |
| ▪ Drought | ▪ Habitat / biodiversity loss |
| ▪ Heat / cold | ▪ Invasive species |
| ▪ Fire | ▪ Pests and diseases |
| ▪ Congestion | ▪ Energy |
| ▪ Energy / power | ▪ Food security |



Q2: What do we need to do, who needs to be involved and are there any existing groups/forums/structures which could be utilised or is a new working group required?

- Catchment Partnerships
- Dorset LNP
- Dorset LEP
- Health and Wellbeing Boards
- Dorset Local Access Forum
- Dorset Coast Forum
- Dorset AONB
- Flood Warden
- Chambers of Trade
- Haulage Associations
- Local Authorities
- Farmers and Landowners
- SW Highways Alliance

Q3: Is there interest in working collaboratively to develop a joint adaptation framework, and if so, how does this group prefer to communicate?

There was a general consensus for further discussion / engagement. The preferred communications methods were email, teleconferencing and meetings.

The full write up of the workshop session is available in Appendix 2 (separate document).

Event evaluation

Following the workshop all delegates were sent an online survey.

The feedback from the event was generally positive with an average satisfaction rate of 71%. This did range from 1%-100% from the feedback gained from 17 of the 80 attendees, approximately a 21% feedback rate. There were a number of things that people wanted to get out of the Climate Change Adaptation event.

These could broadly be aggregated to:

- Broader understanding of the issues
- Raise profile of the issues
- Clearer view on strategic and political position
- What could be/needs to be done to change policy as a result of the information provided
- Networking

63% of the attendees completing the questionnaire felt that we had achieved what they wanted.

Attendees felt that the most interesting sections of the event were:

- Workshop session
- Networking
- Presentation on United Nations Framework Convention on Climate Change
- Presentation on The UK Climate Projections 2018 Scenarios: Introduction and Overview

Attendees were asked if there was anything else they would like to add to the discussions?

- There needs to be better: building design and advice (involvement of Building Research Establishment) and legislation at central government level (NPPF) that can then be transposed to Local Plan Policy
- Health impact of climate change and what is needed to adapt

Attendees were asked who else they thought should be involved in discussions in the future?

- Council politicians and senior officers
- Community Groups
- Town & Parish Councils



Attendees were asked to give any additional feedback

- Workshop session was good, would have preferred more time for this and potentially mixing up the stakeholders fostering wider understanding/debate of the issues. Also, stronger facilitation of some of the workshop tables.
- Need to look at what leading countries/cities/regions are doing, on top of taking advice from local experts.
- Preaching to the converted, events would be better as training/ education workshops for the unconverted.
- Clear political decision is needed from Councils to help with further work is needed to influence planners, procurement leader, policy makers and operational managers.
- Less time on presentations as they seemed a bit dis-jointed and more time for networking
- Thanks to the organisers for all your hard work

We thought it would be useful at this event, to offer the opportunity for people to car share. Of those attendees who provided feedback 10 (of the 17) came by car share, 4 were drivers and 6 were passengers.

Next Steps

The workshop was a positive experience in bringing partners together and there was consensus for ongoing work.

It is a key time to continue this work. Both councils have declared a Climate Emergency. There is increased public concern⁴ about climate change including the Friday Schools Strikes lead by Swedish activist Greta Thunberg, protests by Extinction Rebellion in April, and the #TimeIsNow mass lobby in June. In July the Committee on Climate Change published a report⁵ highlighting that not enough work is being done on adapting to climate change.

Proposed future work in Dorset includes:

- 1) Further discussion sessions with existing groups – potential groups include:
 - Dorset Coast Forum
 - Catchment Partnerships
 - DAPTC and individual parish and town councils
 - Local Access Forum
 - Business groups
 - Resilience Forum (longer term aim as their focus is on emergency planning)
 - Health – hospitals, CCG, PHD, health and wellbeing boards
 - Utilities companies
 - Education (longer term aim as the initial focus is about moving to action)
 - Local authority – climate emergency groups (i.e. those taking leading the climate emergency work)
- 2) Developing an overarching strategy or collaboration statement on climate change adaptation for Dorset.
- 3) Potential development for sector or issue action plans if there is enough interest and buy in.

⁴ An Ipsos MORI survey in July 2019 showed 85 per cent of adults are now concerned about global warming, the highest figure since the pollster started asking the question in 2005 (www.standard.co.uk/news/uk/climate-change-fears-gripping-britain-poll-reveals-85-are-worried-about-warming-the-highest-figure-a4218251.html)

⁵ www.theccc.org.uk/publication/progress-in-preparing-for-climate-change-2019-progress-report-to-parliament/



More Information

If you would like more information about the workshop, please contact info@dorsetlnp.org.uk



Appendix 1

First Name	Surname	Job Title	Organisation
Larry	Austin	Director of Environment	BCP Council
Julie	Bagwell	Councillor	BCP Council
Bridget	Betts	Environmental Advice Manager	Dorset Council
Max	Bishop	Energy Officer	Dorset Council
Will	Bond	LNP Board Member	Dorset LNP
Jess	Bone	Research Assistant	Bournemouth University
Zak	Bourn	Engineer	WSP (representing BCP Council)
Laura	Brewer	Public Health Manager	Dorset Council
Mike	Brooke	Councillor	BCP Council
Ray	Bryan	Councillor - Portfolio holder Highways, Travel and Environment	Dorset Council
Ken	Buchan	Coast & Countryside Service Manager	Dorset Council
Simon	Bull	Councillor	BCP Council
Katherine	Burt	Planning Specialist	Environment Agency
Richard	Burton	Councillor	BCP
Alexander	Butler	Advisor	FWAG SW
Elena	Cantarello		Bournemouth University
Hilly	Chittenden	Chairman	East Dorset Environment Partnership
Maria	Clarke	LNP Manager	Dorset LNP
Stuart	Clarke	Countryside Manager	Dorset Council
Kelvin	Clayton	Councillor	Dorset Council
Richard	Conway	Environment	Dorset Council
Simon	Cripps	LNP Chair / CEO	Dorset LNP / Dorset Wildlife Trust
Carl	Dallison	Outdoor Services manager	Dorchester Town Council
Imogen	Davenport	Director of Conservation Policy	Dorset Wildlife Trust
Rachel	Elford	Environmental Health Officer	Dorset Council
Luciana	Esteves		Bournemouth University
Sam	Evers	Lead Project Manager	Dorset Council
Spencer	Flower	Councillor Leader	Dorset Council
Adam	Hackett	Head of Sustainability and Energy	Aster Group
Alice	Hall	Postdoctoral Researcher	Bournemouth University
Michael	Hancock	Director	Community Alliances
Tara	Hansford	Countryside Project Development Officer	Dorset Council
Martina	Hanulova	Strategy Development Manager	Dorset LEP
Renny	Henderson	Conservation Officer	RSPB
Mark	Holloway	Parks Funding & Projects Manager	BCP Council
Nicola	Hopkins	Catchment Coordinator	Wessex Water / Catchment Partnership
Rob	Hughes	Councillor	Dorset Council
Nick	Ireland	Dorset Councillor for Crossways Ward	Dorset Council



Pete	Jackson	Principal Research Officer	Dorset Council
Helen	Jackson	Transport Policy Manager	Dorset Council
Stella	Jones	Councillor	Dorset council
Roxanne	King	Sustainability Manager	BCP Council
Sally	King	Visitor Tourism & Access Manager	Dorset AONB
Anthony	Kirby	Engineering & Major Contracts Manager	BCP Council
Rebecca	Landman	Planning Officer – Strategic Planning	BCP Council
David	Lewis	Project Manager	SW Energy Hub
Antony	Littlechild	Low Carbon Dorset Manager	Dorset Council
Rupert	Lloyd	Project Manager	Public Health Dorset
Emma	Macdonald	Senior Planning Officer	Dorset Council
Toby	Marden	Development Manager	Morgan Sindall Investments
Katherine	May	Programme Manager / Clean Growth Lead	Dorset LEP
Sandra	Moore	Councillor	BCP Council
Tom	Munro	Manager	Dorset AONB
Giles	Nicholson	Countryside Services Team Leader	Dorset Council
Lisa	Nothover	Councillor	BCP Council
Rachel	Partridge	Assistant Director of Public Health	Public Health Dorset
Angela	Pooley	LNP Board Member	Dorset LNP, Sustain, FOE ED
James	Potten	Communications Officer	Dorset Council
Natalie	Poulter	Dorset Coast Forum Co-ordinator	Dorset Coast Forum
Karyn	Punchard	Corporate Director for Place Services	Dorset Council
Alice	Quinney	Biodiversity Technical Officer	Dorset Council
Luke	Rake	Principal / Board Member	Kingston Maurward College, LEP Board, LNP Board
Phillip	Reese	Senior Planning Policy Officer	Dorset Council
Oliver	Rendle	Environmental Assessment Officer	Dorset Council
Felicity	Rice	BCP Councillor cabinet member	BCP council
Brian	Richards	Flood Risk Manager	Dorset Council
Maria	Roe	Councillor	Dorset Council
Michael	Rowland	Head of Parks Development	BCP Council
Neil	Short	Sustainability Manager	BCP Council
Chris	Skelly	Head of Programmes (Research & Intelligence)	Public Health Dorset
Vikki	Slade	Council Leader	BCP Council
Brett	Spiller	Director	Chapman Lily Planning Ltd
Richard	Stafford	Professor of Marine Biology and Conservation	Bournemouth University
Andrew	Starr	Dorset Councillor	Dorset Council
Emma	Sumner	Catchment Coordinator Technician	Wessex Water / Catchment Partnerships
Kate	Tobin	Local Partnership Advisor	Forestry Commission
Kate	Tunks	Transport	Dorset Council
Daryl	Turner	Councillor	Dorset Council



Alison	Turnock	Natural Heritage and Tourism Manager	Dorset Council
Peter	Wharf	Deputy Leader	Dorset Council
Sarah	Williams	Biodiversity and Wetlands Program Manager	Wessex Water
John	Worth	Councillor	Dorset Council
Jane	Wright	Team Leader	Natural England

