

# Landscape scale approach to biodiversity

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# Climate Change & Biodiversity in the West Midlands

- The Potential Impacts of climate change in the West Midlands
- Coping with the impacts of climate change

## Likely impacts:

- Changes in distribution of species
- Changes in species composition of habitats
- Effects of drier/hotter summers
- Effects of wetter/warmer winters
- Effects of seasonal/phenological changes
- Land use changes

# Impacts on key species & habitats

- Great crested newts
- Pearl - bordered fritillary butterflies
- Wet woodland

# Adaptation 1: Develop ecologically resilient landscapes

- Conserve and enhance variation within the landscape
- Make space for the natural development of rivers
- Establish ecological networks

## **Adaptation 2: Conserve the habitat & species baseline**

- Conserve protected areas
- Conserve range & ecological variability of habitats and species

# Adaptation 3: Reduce sources of harm not linked to climate

- Site specific pressures

## **Adaptation 4: Make sound decisions based on analysis**

- Analyse causes of change
- Set up and implement monitoring systems
- Use adaptive conservation targets and priorities

# Adaptation 5: Communication issues

- Awareness-raising amongst policy makers & the public

# Climate change benefits from biodiversity

- Mitigation
  - carbon sink
- Adaptation
  - managing heat stress
  - open space for increased leisure and tourism