Climate Metropole +
Lessons Learned

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Liverpool City Region is located in the North West of England on the banks of the River Mersey.

Liverpool City Region Combined Authority covers Six local authority areas of:
- Liverpool
- Halton
- Knowsley
- Sefton
- St Helens
- Wirral
Climate Risks in Liverpool City Region

• Every five years the UK Government must carry out an assessment of the current and future risks to the country from climate change. The next assessment is due in January 2017

• An independent evidence report of the risks and opportunities to the UK from climate change.

• Four research projects commissioned to inform the CCRA evidence report:
  
  • Project A – Projections of future flood risk in the UK
  • Project B – Updated projections for water availability for the UK
  • Project C – Aggregate assessment of climate change impacts on the goods and services provided by the UK’s natural assets
  • Project D – Developing H++ scenarios
Climate Risks and Impacts for Liverpool City Region – some examples

• Flood risks – fluvial, tidal and surface water flooding
• Number of properties exposed to frequent flooding increases by approximately 20% under the 2°C climate change projection
• Southport is listed as one of top 10 locations in England and Wales by number of properties affected by a future 1:200 year coastal surge
• Increase in rainfall intensity increases the risk of flash flooding and sewer overflow discharges - particularly in urban areas without Sustainable Urban Drainage systems
• Heavy rains combined with strong winds cause significant disruption to individuals, businesses and infrastructure
• Disparity of vulnerability across Liverpool City Region to impacts of climate change e.g. thermal discomfort
Strategies and Plans

2009

Climate Impacts and Vulnerabilities Framework for Liverpool City

2011

Green Infrastructure to Combat Climate Change
A Framework for Action in Cheshire, Cumbria, Greater Manchester, Lancashire, and Merseyside

2012

The impact of Climate Change upon Health and Health Inequalities in the North West of England

2011-2015

2014-2017

Low Carbon Economy Action Plan

2015

Green Infrastructure in the Liverpool City Region
A pipeline of commissionable projects
LIVERPOOL GREEN INFRASTRUCTURE STRATEGY

WHAT AND WHERE: EXAMPLES OF ACTION LOCATIONS

- Encourage the use of SUDS, using swales and de-watering of water courses
- Create water bodies and water courses
- Encourage walking and cycling through the provision of attractive and safe walkways and cycle lanes
- Improve accessibility to spaces such as gardens, orchards and allotments
- Protected areas of existing ecological value
- Street trees and green roofs

[Images of Liverpool green infrastructure examples]
ACHIEVEMENTS: What has been achieved, from your point of view, during the Climate Metropole + initiative?

• Working collaboratively with other cities on a shared agenda – discussing shared challenges, good practice examples and future priority interventions;

• No Regrets Charter provided a holistic view of adaptation, showing links with economic models, culture and governance... an opportunity for Liverpool City Region to collate information on current climate data, plans and activities in a structured way;

• Engagement and re-invigoration of local stakeholders – raising the profile of climate adaptation locally;
GOOD PRACTICE: What are the good practice examples that were visited during the workshops of the Climate Metropole + initiative and why?

- **Lyon Confluence**: Regeneration of land between the rivers Rhone and Saone...balancing addressing environmental requirements with anticipated needs of future users... parallels with Wirral Waters regeneration scheme in Liverpool City Region:
  - creating green infrastructure network
  - developing public transport and increase connectivity
  - Urban blending with existing neighbourhoods

- **Modelling the impacts of Climate Change at a local scale** – examples from Catalonia meteorological office and Lyon Observatory (sensors) ...collecting and analysing data to increase understanding of localised trends and issues;

- **Lyon Parc Kaplan** - use of rainwater and the strategy of a “permeable city” - multifunctional solutions, which integrate rainwater management with uses of public space;
IMPACT: How will the results of the Climate Metropole + be taken on board in your case?

• The project reinforces the need to build a clear business case to demonstrate links between climate resilience and wider benefits to the economy, society and the environment;

• Improve the identification and integration of climate adaptation initiatives across Liverpool City Region, working closely with stakeholders to increase awareness;

• Opportunity to continue to work collaboratively with other Climate Metropole partners – development of emerging project ideas;