Our journey along the Blue-Green path to Urban Flood Resilience

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Our journey along the Blue-Green path to Urban Flood Resilience A Blue-Green City

brings together water management and green infrastructure to recreate a more natural water cycle.... generating economic, environmental, ecological, social and cultural benefits.





Blue-Green Cities Research

Model Existing Flood Risk Management Understand Citizens' Preferences

Evaluate Multiple Flood Risk Benefits City Authority and Community Communications

Options for Hard/Soft Measures

Newcastle upon Tyne

Newcastle helps lead the way in blue-green THE BLUE-GREEN DECLARATION cities move to combat flood risk

15:30, 19 FEB 2016 BY TONY HENDERSON

More water storage and greening spaces in Newcastle are the basis for the city conference pledge at the Life Science Centre

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Blue-Green Cities conference line up, left to right, Fula Ogunyoye, Haskoning DHV: David Wilkes, Arup: Marie Fallon, Environment Agency; Clare Rogers, Newcastle University; Richard Warneford, Northumbrian Water; Coun Ged Bell, Newcastle City Council

Blue and green could rival black and white as key colours in the Newcastle of the future.

18 March 2016



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Newcastle commits to Blue-Green Infrastructure plan

19/02/2016

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Newcastle City Council has committed to implementing large scale blue-green infrastructure measures such as sustainable drainage, following research that showed the potential gains of the approach.



L-R: Fola Ogunyoye (Haskoning DHV), David Wilkes (Arup), Marie Fallon (Environment Agency), Clare Rogers (Newcastle University), Richard Warneford (Northumbrian Water), Clir Ged Bell (Newcastle City Council).

The council has backed research from the Blue-Green Cities Consortium, led by the University of Nottingham, which found that increasing the amount of storage ponds, water channels, green roofs, green walls and green space (known as blue and green infrastructure) in Newcastle could make a significant contribution to reducing flood risk, as well as improving air quality and biodiversity.

It comes following estimates for the City Council which highlighted a £70m gap to keep flood risk on the Ouseburn and City Centre at current levels by

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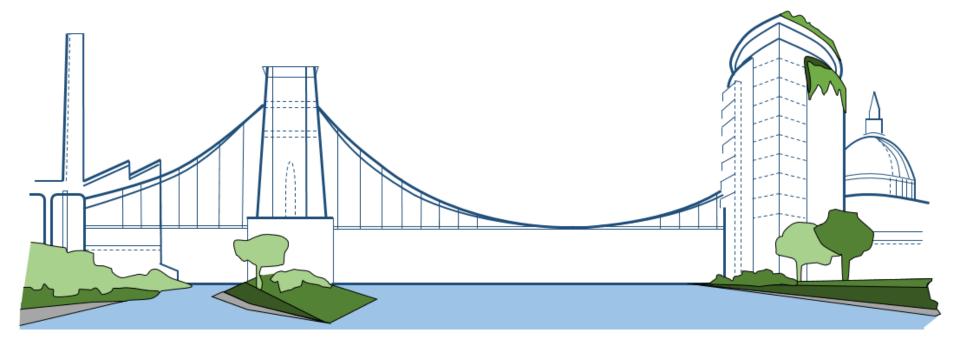
Newcastle commits to Blue-Green Infrastructure plan

Putting the focus on phosphorus

2030. accounting for growth, paving over open space.



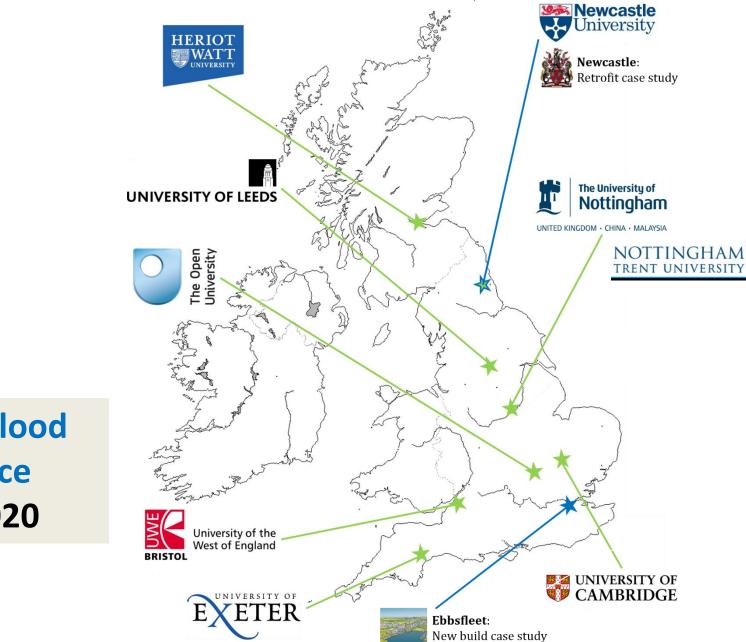
Achieving Urban Flood Resilience in an Uncertain Future



www.urbanfloodresilience.ac.uk

Urban Flood Resilience @BlueGreenCities





Urban Flood Resilience 2016-2020 Urban Flood Resilience a city's capacity to maintain future flood risk at acceptable levels by:

 preventing deaths and injuries
minimising damage and disruption during floods
recovering quickly after a flood
ensuring social equity in flood management
protecting the city's cultural identity and economic vitality.

Urban Flood Resilience Research Themes

- **Engineering Design** of the integrated Blue/Green and Grey **(B/G+G)** treatment trains that support resilient management of both water quantity and quality
- **Development** of flood and water management assets that function inter-operably with other urban systems: inc. transport, energy, land-use and natural systems

 Planning that puts UFRM at the heart of urban planning & focuses on interfaces between planners, developers, engineers and *beneficiary communities*

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