

Adaptation to floods: Sustainability through flexibility

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2007 FLOODS IN HULL

- 55000 properties flooded across the UK
- 8600 in Hull (over 15%)

- 6300 people in temporary accommodation in Hull
- Over 1400 people in caravans in Hull

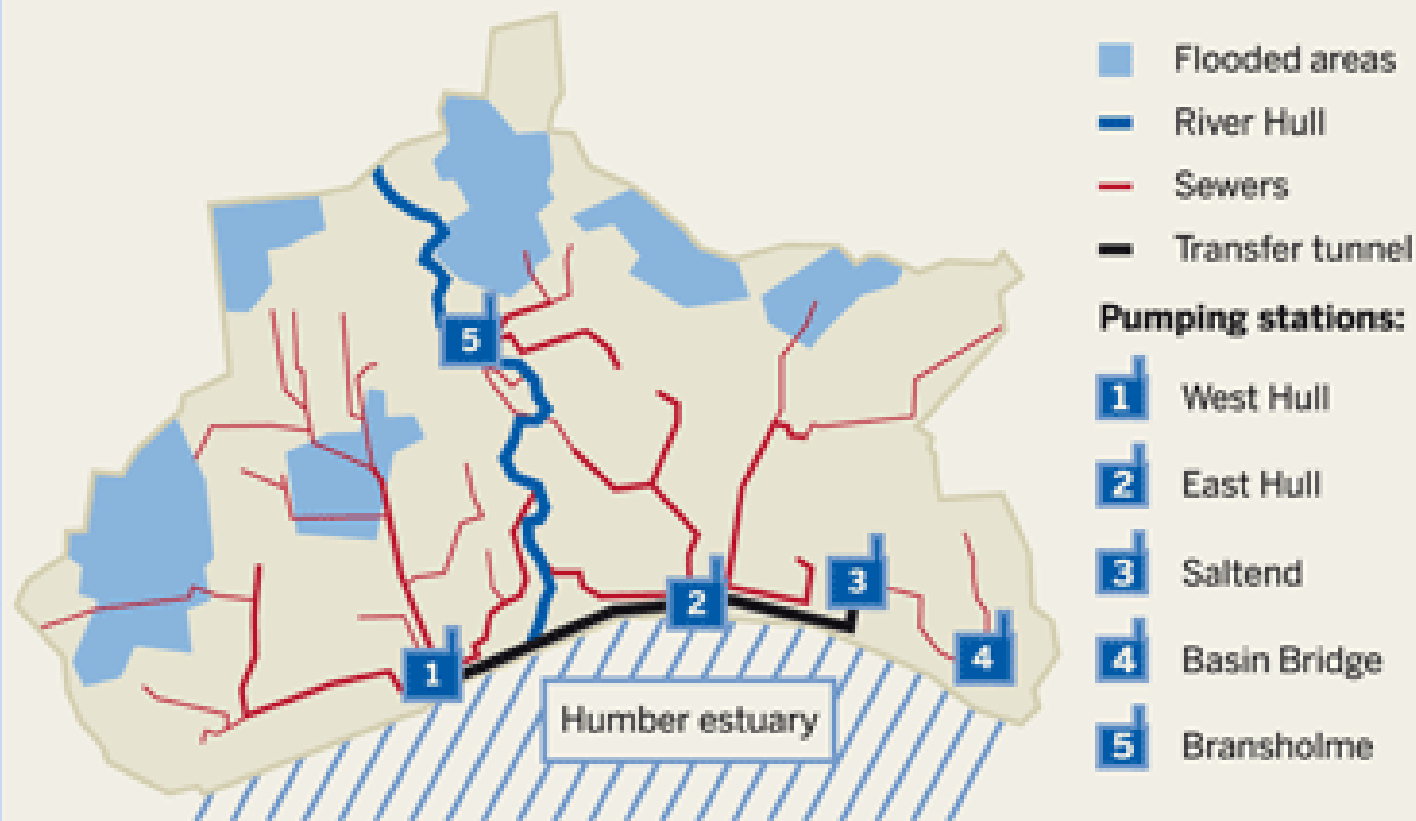
- 91 of 99 schools in Hull closed

(Pitt, 2008; Coulthard *et al.*, 2007)

2007 FLOODS IN HULL

FLOODING IN HULL, JUNE 2007


Flooding resulted from heavy rainfall overloading the pumped sewerage network

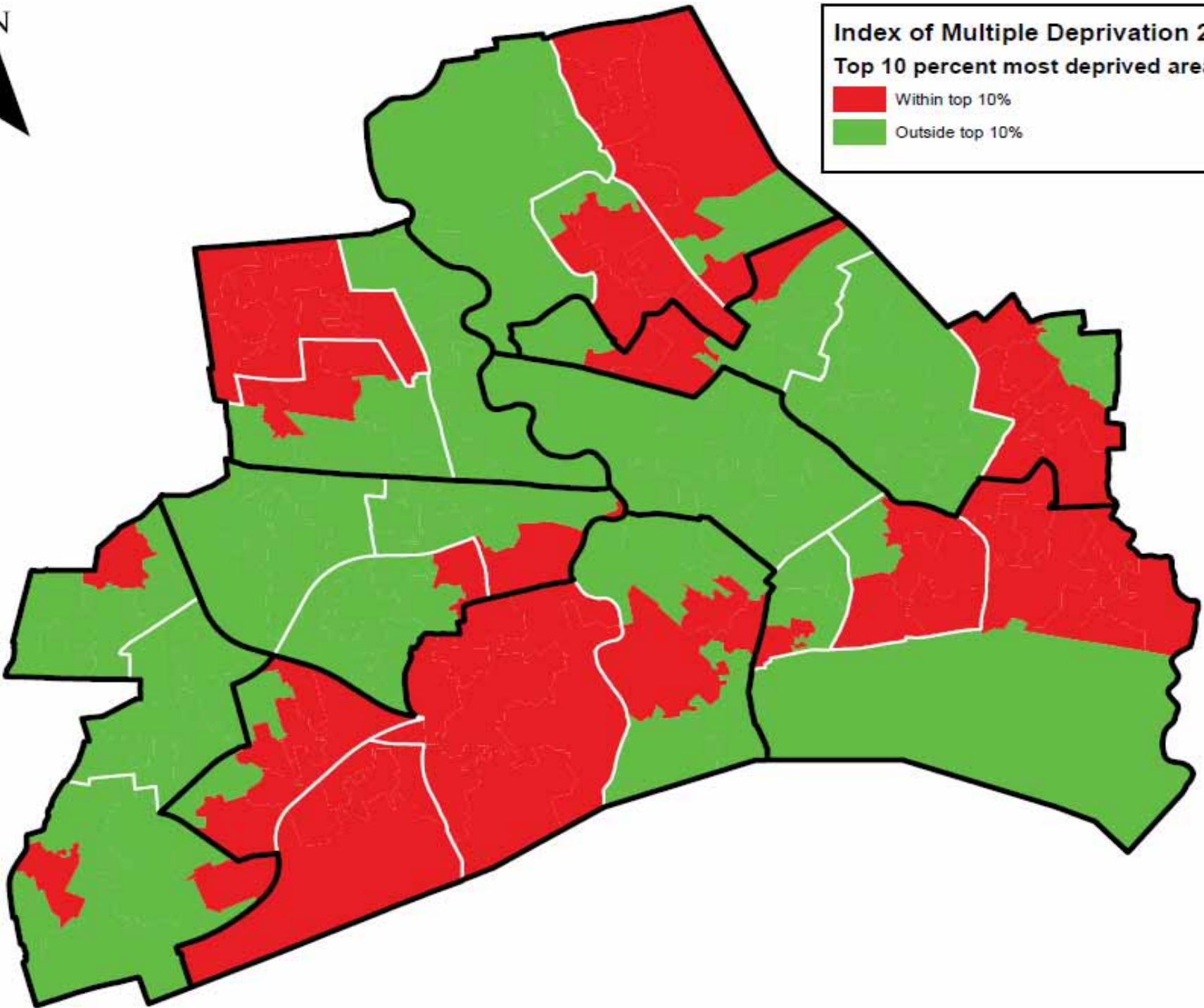


Source: Independent Review Body




Index of Multiple Deprivation 2007
Top 10 percent most deprived areas

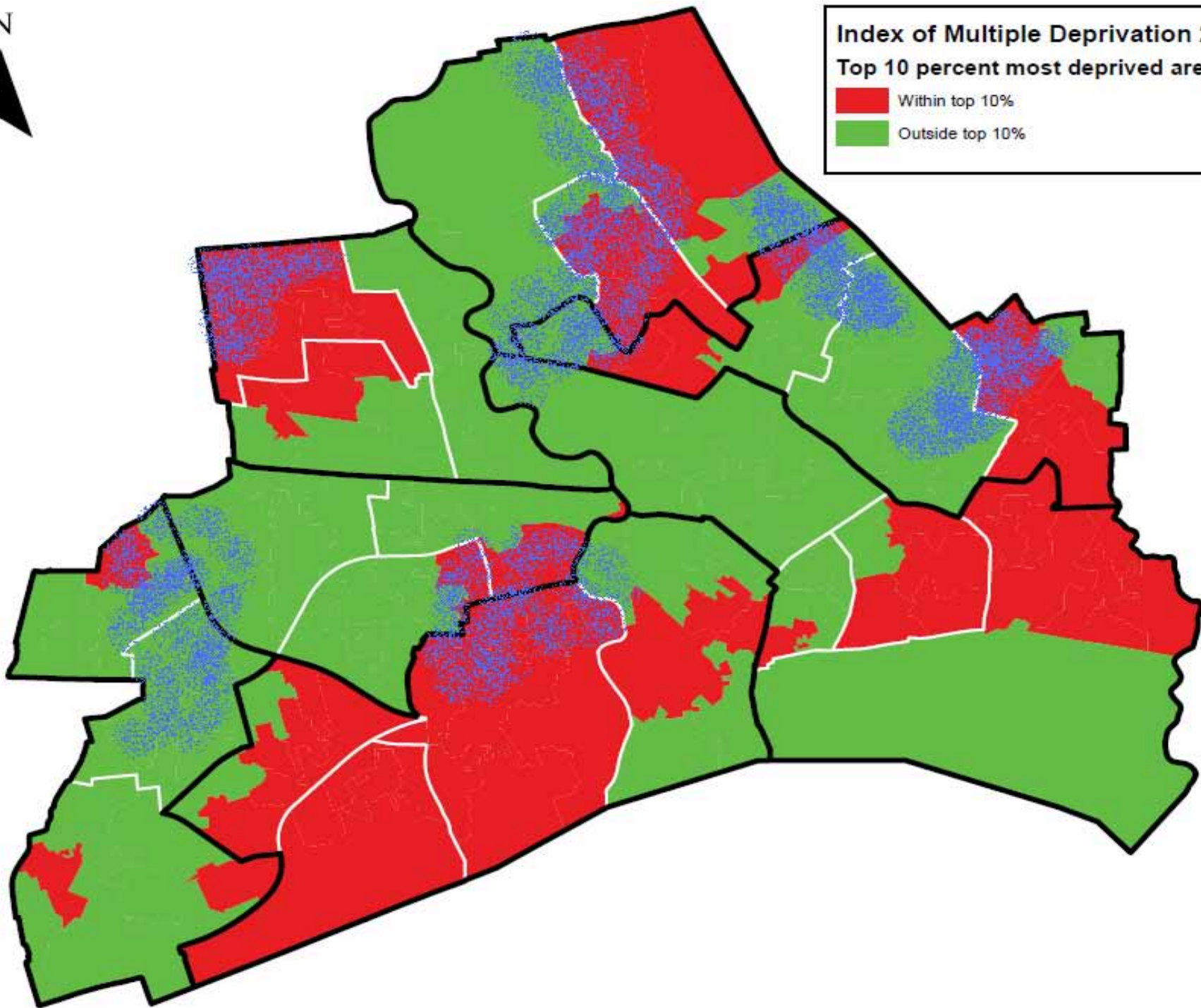
	Within top 10%
	Outside top 10%





Index of Multiple Deprivation 2007
Top 10 percent most deprived areas

	Within top 10%
	Outside top 10%



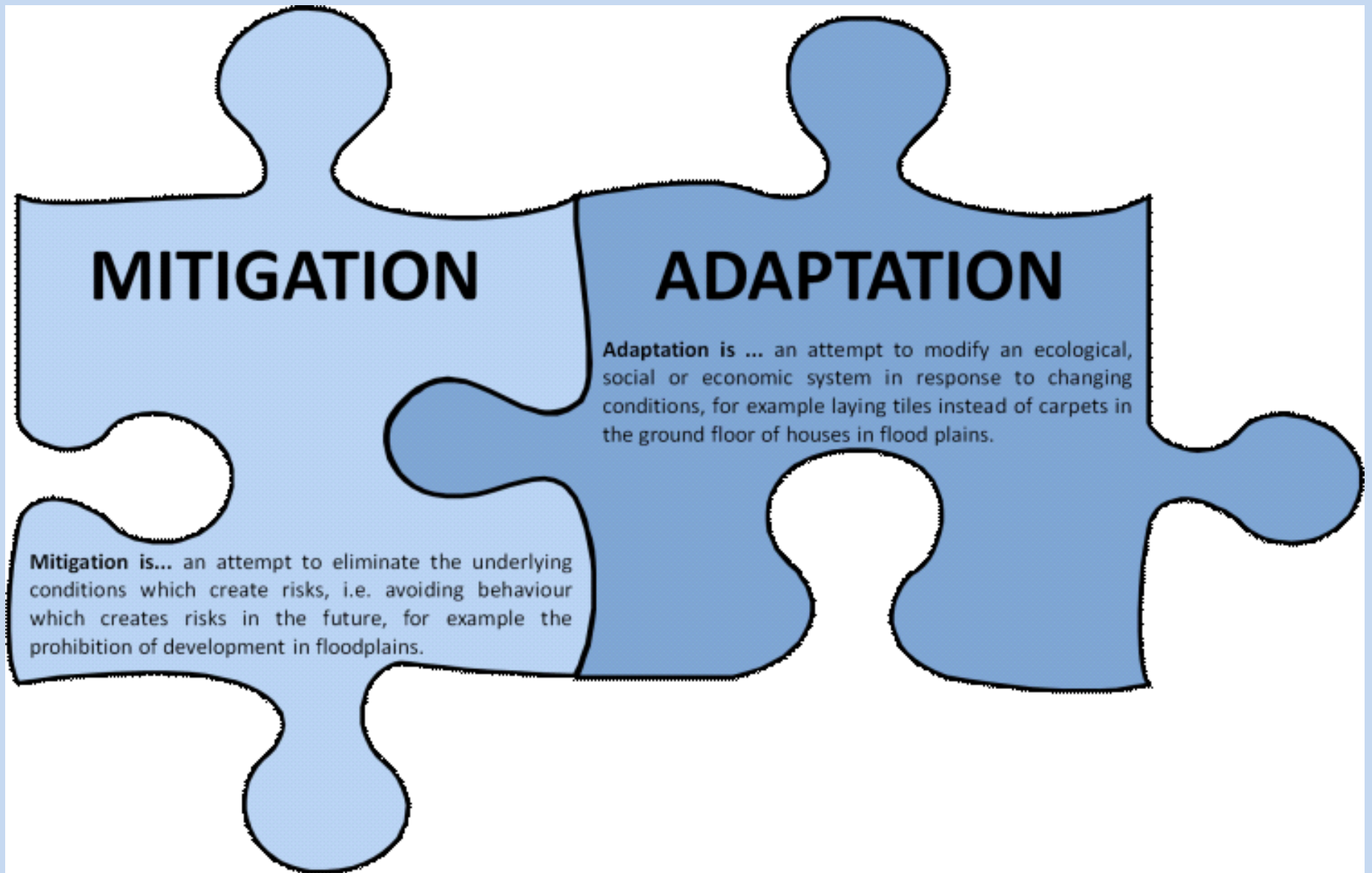
New risks?

In the past, Hull has been affected by several types of flood risk:

- estuarine flooding from the Humber
- storm surges from the North Sea
- fluvial flooding from the River Hull

The floods in 2007 were **pluvial** (rainfall) – a hazard that had not previously affected Hull.

THE FLOOD RISK MANAGEMENT PUZZLE



MITIGATION



Flood Defences in Hull:
The River Hull Tidal Barrier

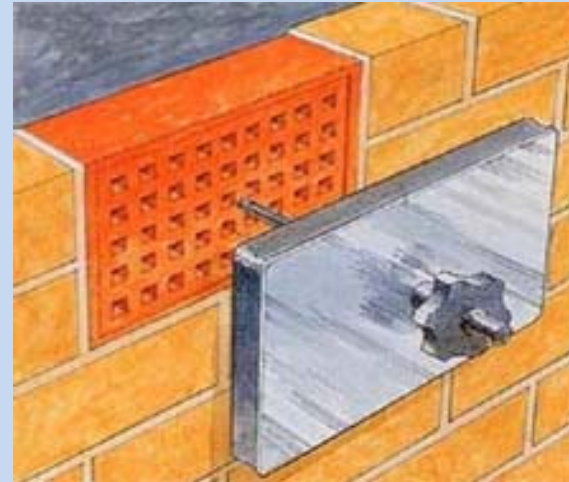


Drainage System in Hull:
Bransholme Pumping Station

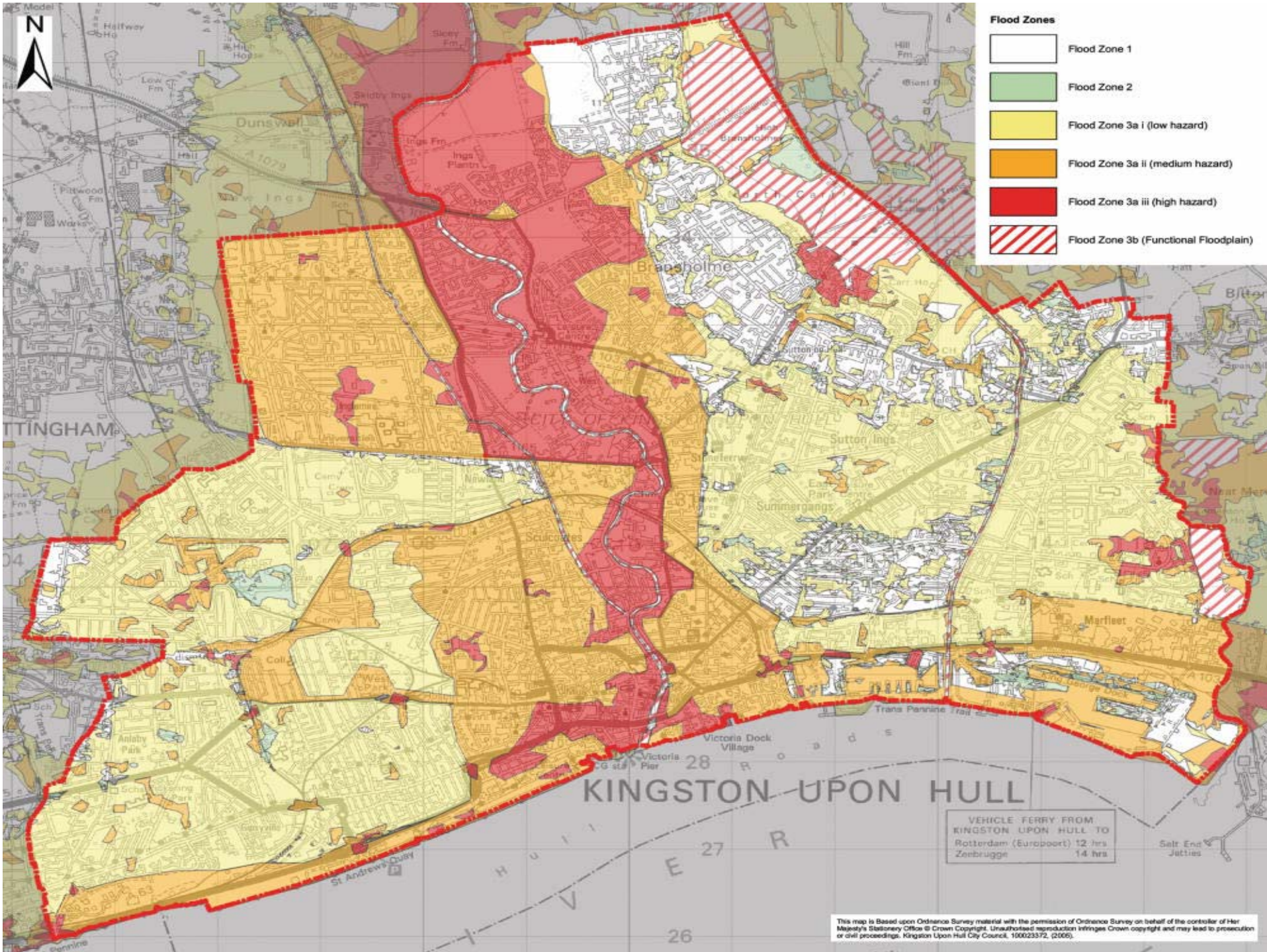
ADAPTATION



Flood Pathway Management:
Temporary Flood Barriers



Flood Resistant Building Materials:
Airbrick Plugs



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This research...

- How flood governance changes over time
- Hull's flood governance policies before and after 2007 flood
- Adoption of adaptation strategies

Methodological Challenges

- Collaborative partner's interests
- Multiple stakeholders
- Sensitivity of information
- Live debate

Any Questions?

This PhD is being undertaken by **Alexia Rogers-Wright** in the University of Hull Geography Department.
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