



## **Future Fens Flood Risk Management**

Duncan Campbell, PSO Team Leader

Vicky Eade, Fenland Partnerships Advisor

# How we have got here:

- Formation of the Technical Group (TG)(March 2018)
- Elevator Pitch
- Phase 1 of FRM for the Fens awarded to Capita (March 2019)
- Presentation at TG meetings (13 Feb, 11 June, 3 Dec 2019 and 12 March 2020, and consultation with TG in August 2020)



- Summary Leaflet
- Visualisation
- Modelling
- Inception Report



## Phase 2

(Alongside Phase 1 investigation work are the Tactical Plans).

Baseline Report  
Appendix A – Economics Appraisal Report  
Appendix B – Survey Review  
Appendix C – Literature Review  
Appendix D – Gauging Review





Old Bedford Counter Drain



Tail Sluice

The Great Ouse Fens covers 2,184km<sup>2</sup> of Cambridgeshire and Norfolk.

It comprises of 185,000 hectares of agricultural land. 131,000 households and 13, 200 industrial and commercial properties.

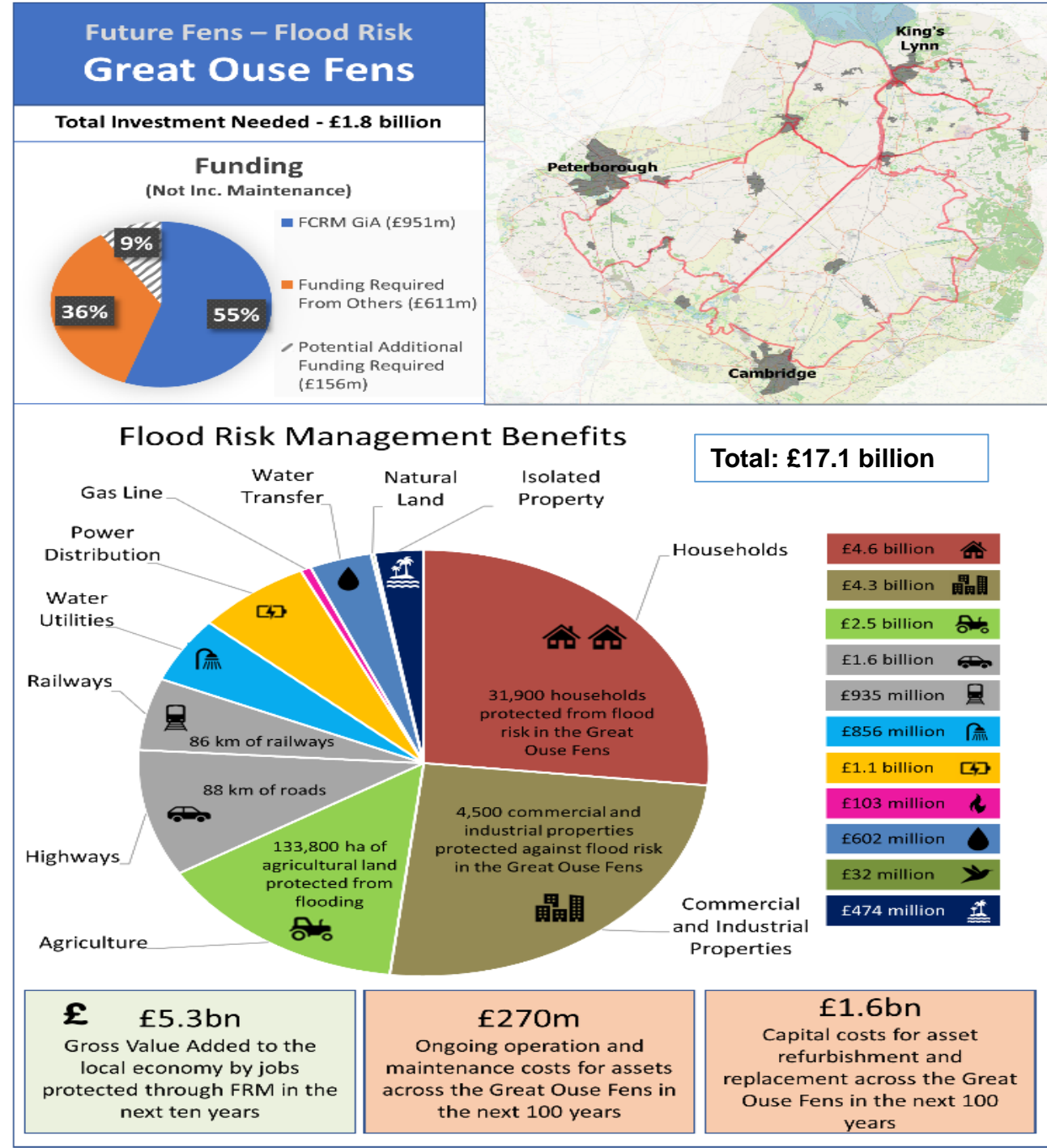
Flood risk is managed through an extensive network of assets including 138 pumping stations, 24 sets of sluice gates, 95km of coastal defences and 405km of fluvial embankments

Phase 1 identified £17.1 billion worth of benefits from the current flood risk management regime with a further £5.3 billion of benefits to the local economy.

The total investment required figure is to **Sustain the current Standard of Service**, it does not include any future asset improvements.

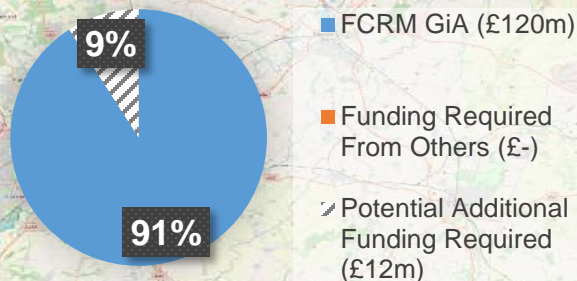


Middle Level Barrier Bank

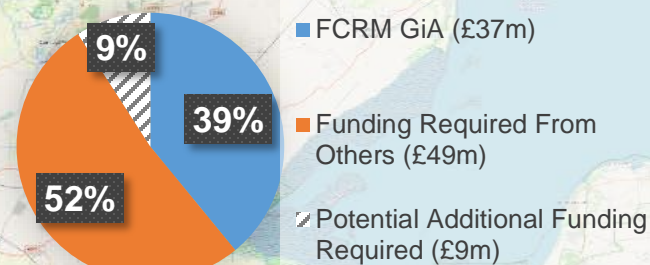




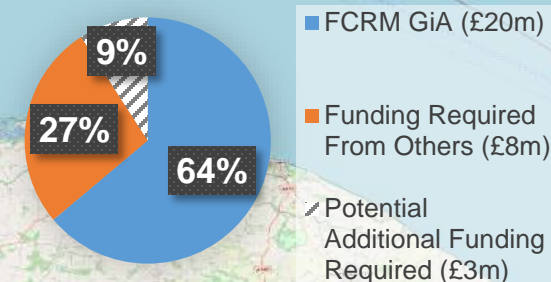
## West of Ouse Funding



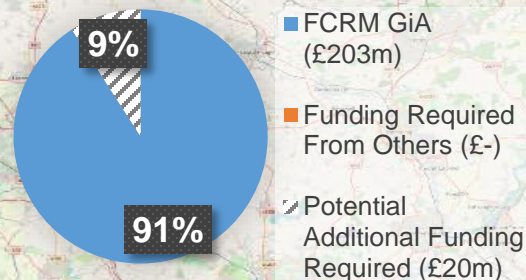
## King's Lynn Funding



## East of Ouse Funding



## Middle Level Funding



Peterborough

Middle Level

Cambridge

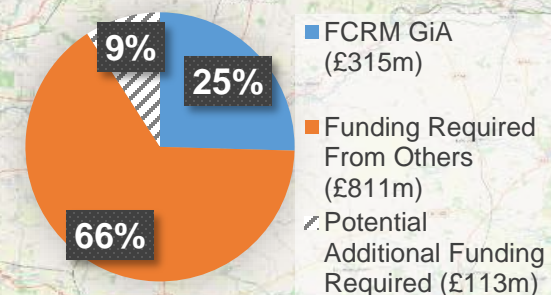
King's  
Lynn

King's Lynn

East of Ouse

South Level

## South Level Funding



£5.3bn

Gross Value Added to the local economy by jobs protected through FRM in the next ten years

£270m

Ongoing operation and maintenance costs for assets across the Great Ouse Fens in the next 100 years

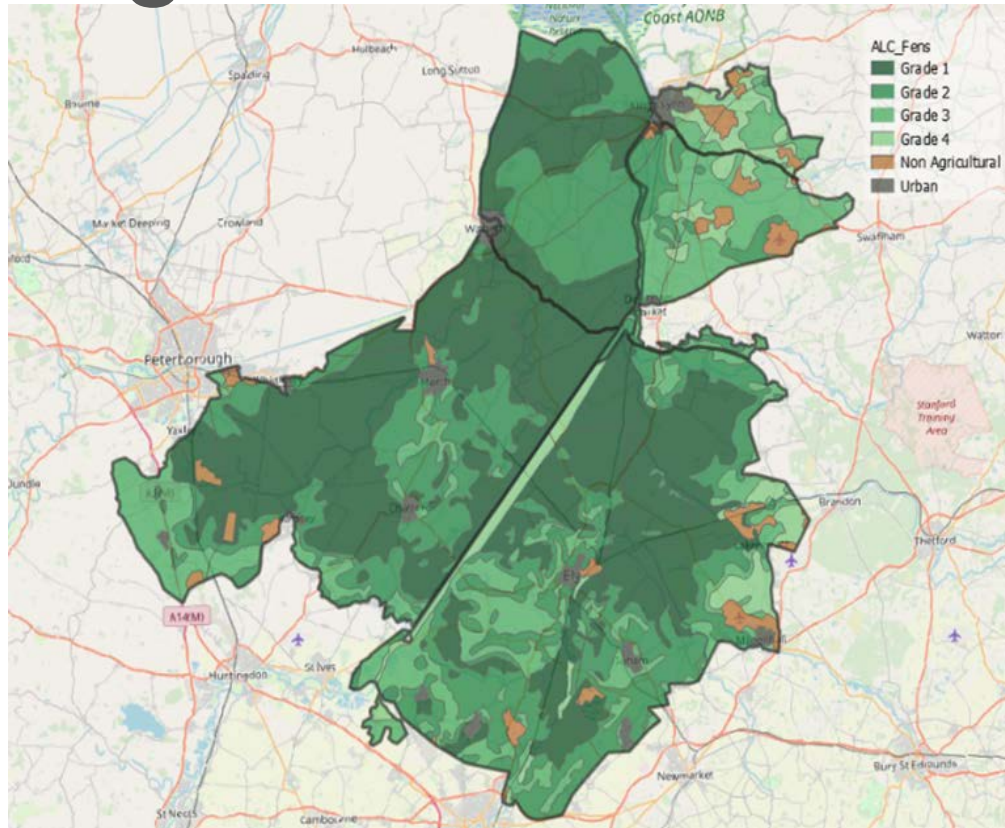
£1.6bn

Capital costs for asset refurbishment and replacement across the Great Ouse Fens in the next 100 years

- The figures reported here are discounted to **Present Value (PV)**. Full details
- The investment needs reported here are those required to **sustain the current Standard of Service** of flood risk management assets only, and does not account for any future improvement in protection.
- The figures used in the pie charts are for **capital works only**, and do not include ongoing operation and maintenance Costs – further details around total investment needs are included in the main Baseline Report document.



# Agricultural benefits



Estimated Scale of Economic Contributions of Agriculture to the Local Economy

Stage of chain	Employees*	GVA (£m)*
Agriculture	7,512	242
Agricultural supply industry	1,662	95
Professional services	721	27
Food processing & packing	14,582	915
Retail and consumption	20,160	448
<b>Total</b>	<b>44,637</b>	<b>1,727</b>

Figures extrapolated from NFU reports with original data analysis provided by Collison & Associates using published government data.

**Table 5-25: Comparison of Estimated Total Present Value Agricultural Damages using Agricultural Market Prices and Land Use and Crop Damage Estimates (£k)**

Scenario	Agricultural Land Valuation and ALC Grade	Land Use Data and Crop Damages
Do Minimum	61,496	98,884
Do Nothing – 1.42m AOD	2,057,538	2,572,176
Do Nothing – 2.0m AOD	2,301,001	2,572,605
Do Nothing – 2.5m AOD	2,465,321	2,572,576



# Key conclusions