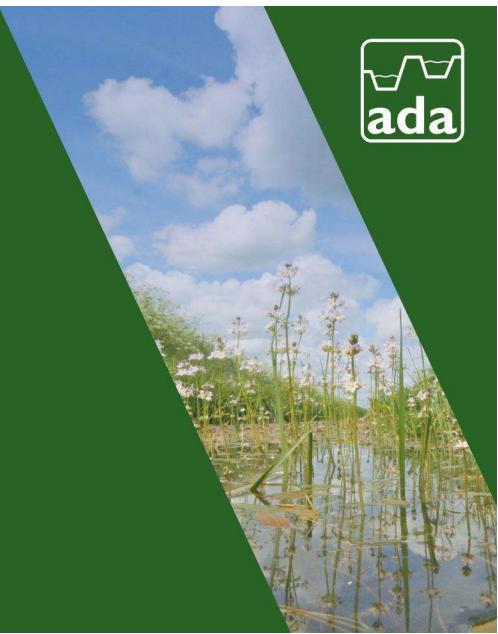


ENVIRONMENT DAY 2026



FENS 2100+
Amy Shaw
Fens Flood Risk Manager
Environment Agency

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Fens 2100+

Enabling partnership investment
in critical coastal, flood and water
management infrastructure



Environment Agency **ARUP** RIVELIN BRIDGE



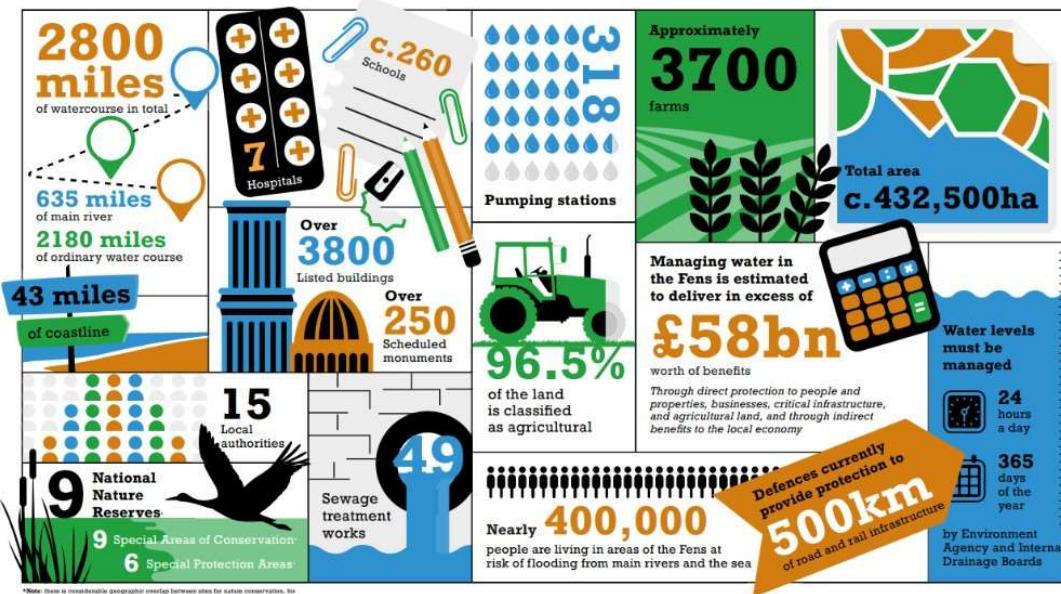
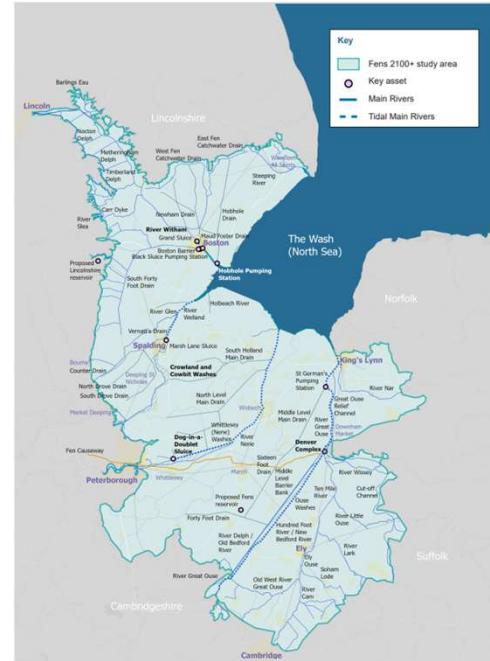
The Fens 2100+ Partnership

- Environment Agency
- Association of Drainage Authorities (ADA)
- Internal Drainage Boards (IDBs) - represented by MLC, BlackSluice, Well.&Deepings
- NFU
- Natural England
- Anglian Water
- Lincolnshire County Council
- Norfolk County Council
- Cambridgeshire County Council
- Cambridgeshire & Peterborough Combined Authority
- Anglian Northern & Great Ouse RFCCs

National Flood & Coastal Erosion Risk Management Strategy

Climate Resilient Places measure 1.5.4:

“By 2025 the Environment Agency will work with farmers, land managers, water companies, internal drainage boards and other partners to develop a long-term plan for managing future flood risk in the Fens.”



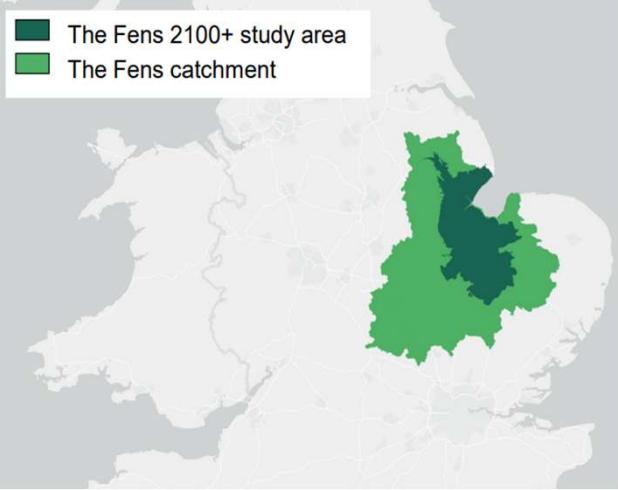
For more information about the Fens 2100+ Programme contact Fens2100+@environment-agency.gov.uk

Our premise



...The following is not questionable and not negotiable:

- The Fens are a **valuable landscape** both nationally and regionally
- The FCERM assets that underpin the fens **are critical** in securing its value
- But **sustaining them** is getting more and more **challenging**
- There is a need to **act now (urgency)** to ensure we maintain this valuable landscape
- **No single organisation** can solve this challenge alone

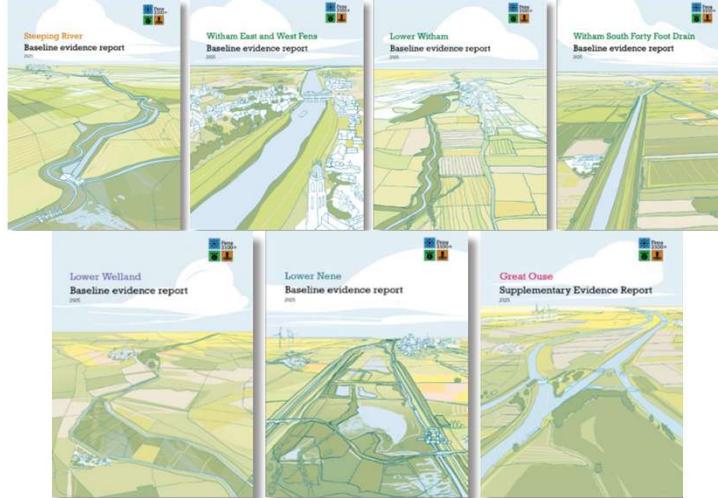


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Our journey to date Building the Case for Change



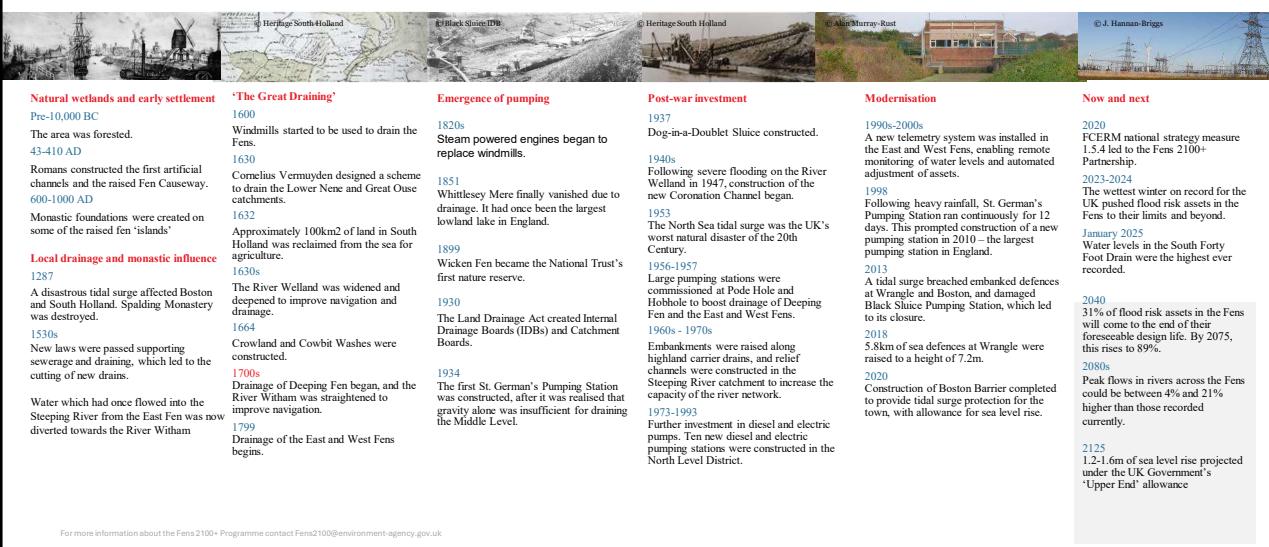
Catchment Baselines



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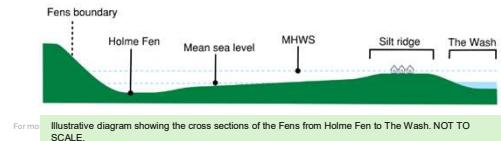
Catchment Context and History
Current and Future Flood Risk
Flood Risk Management Assets
Environmental and Agricultural
Natural Capital
Flood Economic Damage
Economic Damages
Benefits of Flood Protection

History of the Fens

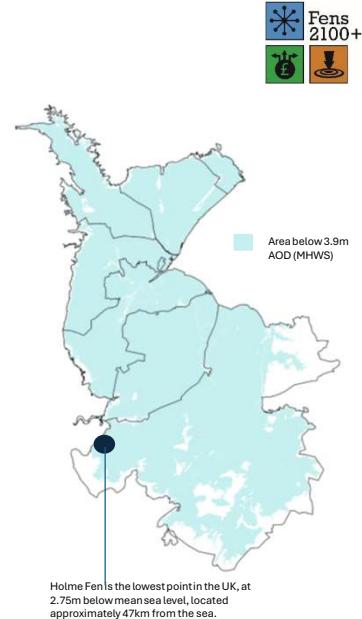


The Role of Critical Infrastructure

- Without critical flood risk management assets, the Fens would quickly flood and become uninhabitable.
- The flood risk management system we have today was inherited from previous generations and made possible by substantial investment.
- Many of the largest drainage features such as channels and embankments were dug by hand, at huge financial and human cost.
- Projects of this scale are unlikely to be feasible under current conditions; at the time, they required several Acts of Parliament to proceed
- In today's terms, replicating a similar system from nothing would cost in excess of £25 billion.



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Flood risk asset system

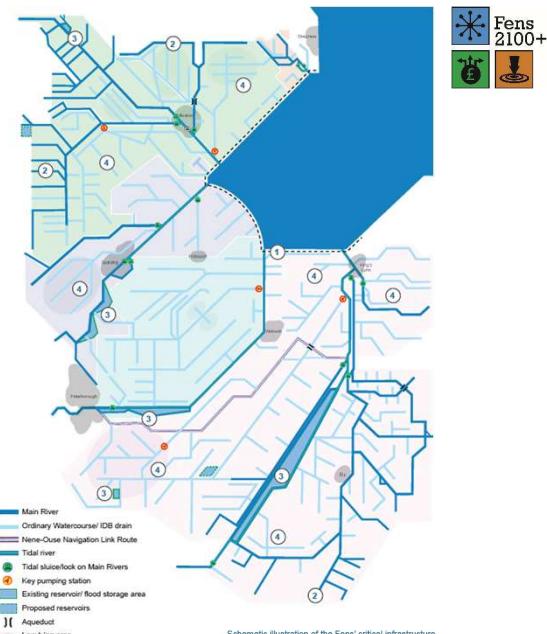
This schematisation illustrates key flood risk management assets which protect the Fens from flooding:

1. Coastal defences
 2. Main River defences
 3. Flood storage areas
 4. Pumped and gravity drainage systems
- Plus dual-purpose assets

Thousands more assets exist to support flood risk reduction, navigation and the maintenance of water resources.

Responsibilities for different assets are split across multiple organisations with varying priorities. This adds further complexity to the system.

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Asset understanding



- The asset system is complex
- People and skills are vital
- Assets are ageing
- Pumped systems are at capacity
- Gravity discharge is becoming more difficult
- Embankments are vulnerable
- Better data about asset condition is needed
- Strategic coordination and governance is essential
- Assets are carbon intensive
- Climate change will exacerbate asset vulnerability
- There are gaps in investment
- Multifunctional assets present an operational challenge



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Considerations from each catchment



The **Steeping and East & West Fens** risk of tidal flooding will increase ten-fold and seventeen-fold respectively under climate change.



300km of embankment assets have medium to high risk of failure, with 7% at very high risk in the **Lower Witham** catchment.



In the **South Forty Foot Drain** there is potential to rationalise the number of pumping stations to reduce the number of assets which need to be inspected and maintained.



The Crowland and Cowbit Washes in **Lower Welland** are currently under-utilised. There is potential to unlock greater volumes of flood storage to alleviate fluvial flood risk.

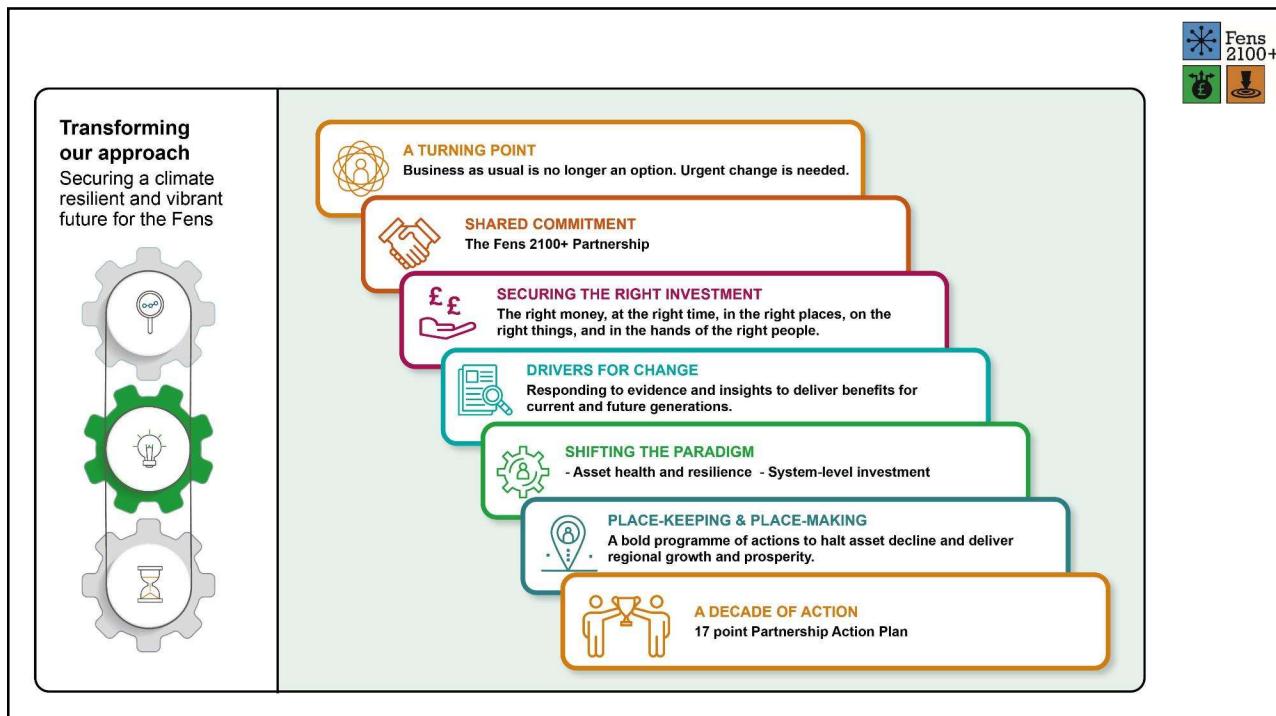
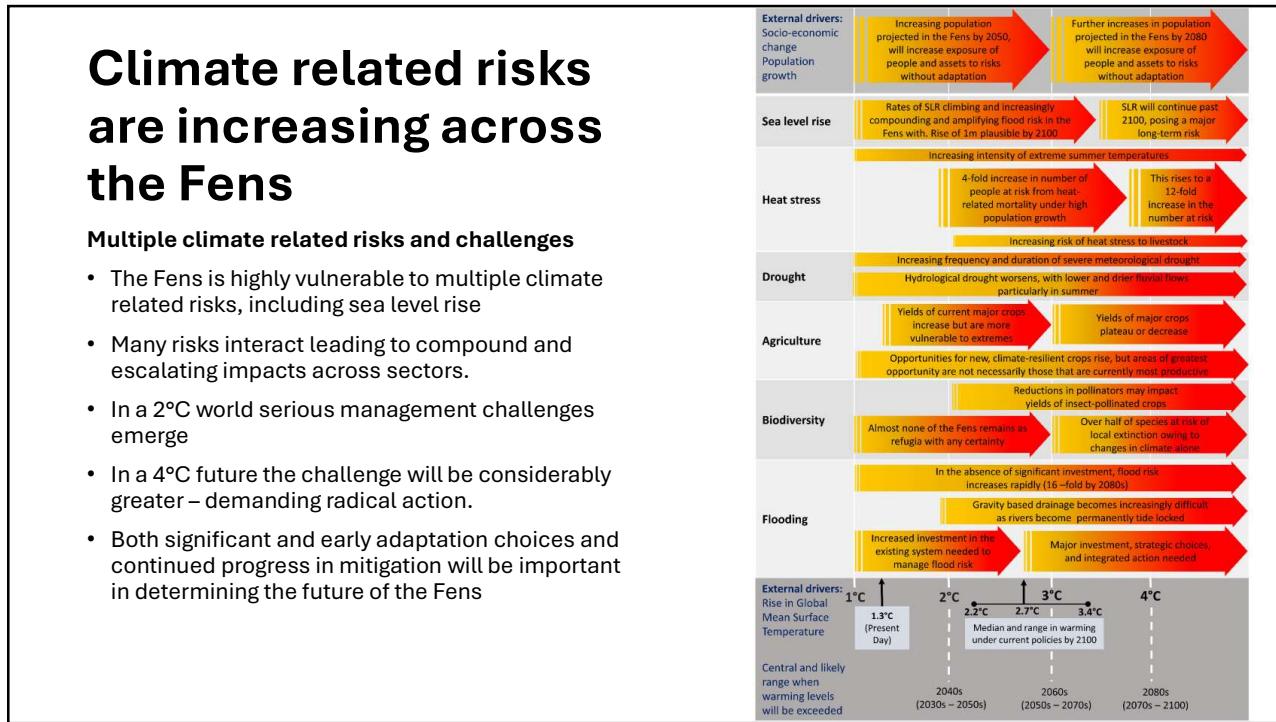


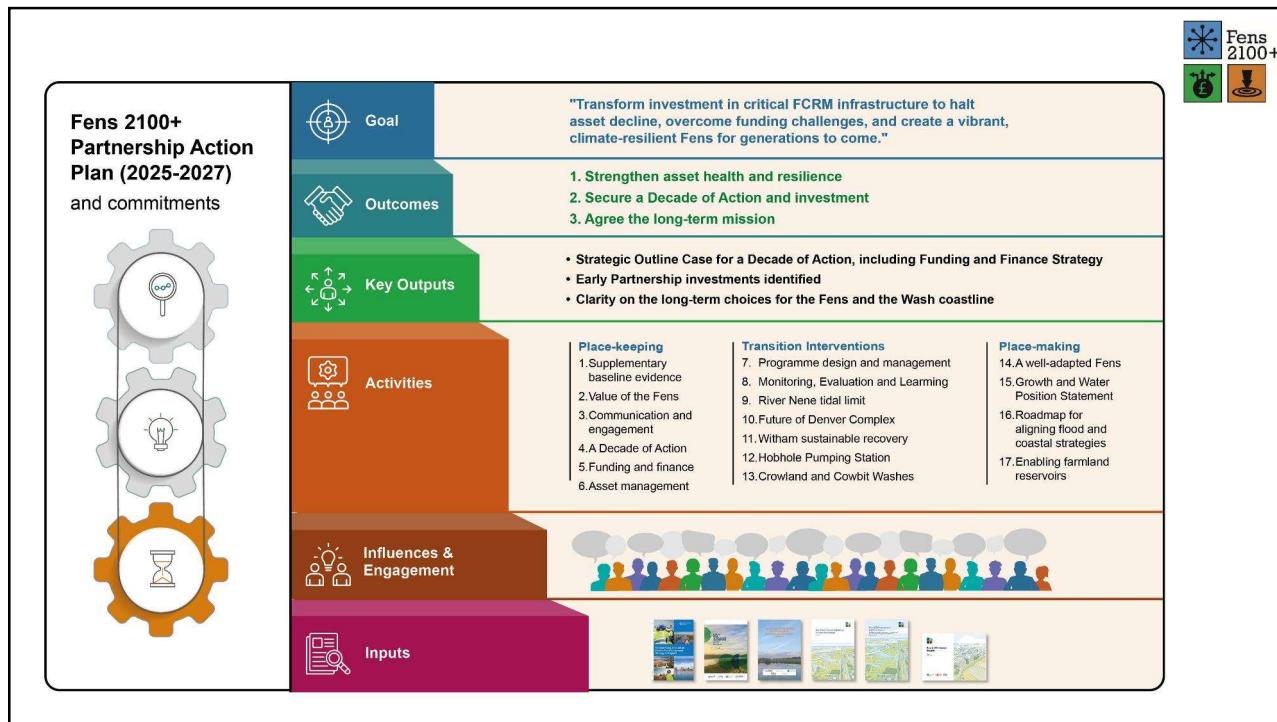
A decision about the future of Dog-in-a-Doublet Sluice is required now. The choice of location for the tidal limit of the **Lower Nene** will affect the wider asset system.



The Denver Sluice complex in the **Great Ouse** is critical for controlling water across the catchment and affects the security of King's Lynn. All structures at the site need to be modernised, with better capability to monitor what is happening across the catchment in real time.

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Find out more

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Keep in touch and sign up for our Fens newsletter

Find out more about us on our Fens 2100+ Project Page

Read the Fens Climate Change Risk Assessment

Fens 2100+ Partnership Action Plan (2025-2027) and commitments

"Transform investment in critical FCRM infrastructure to halt asset decline, overcome funding challenges, and create a vibrant, climate-resilient Fens for generations to come."

Outcomes

1. Strengthen asset health and resilience
2. Secure a Decade of Action and investment
3. Agree the long-term mission

Key Outputs

- Strategic Outline Case for a Decade of Action, including Funding and Finance Strategy
- Early Partnership investments identified
- Clarity on the long-term choices for the Fens and the Wash coastline

Activities

Place-keeping

1. Supplementary baseline evidence
2. Value of the Fens
3. Communication and engagement
4. A Decade of Action
5. Funding and finance
6. Asset management

Transition Interventions

7. Programme design and management
8. Monitoring, Evaluation and Learning
9. River Nene tidal limit
10. Future of Denver Complex
11. Within sustainable recovery
12. Hobhole Pumping Station
13. Crowland and Cowbit Washes

Place-making

14. A well-adapted Fens
15. Growth and Water Position Statement
16. Roadmap for aligning flood and coastal strategies
17. Enabling farmland reservoirs

Influences & Engagement

Inputs