

# River Wensum Past & Present

## River Wensum Restoration Strategy



## River Wensum SSSI Exemplar Diffuse Water Pollution Plan and Action Plan



## River Wensum Demonstration Test Catchment



## Upper Wensum Cluster Farm Group



NORFOLK RIVERS TRUST

## River Wensum strategy partnership



## River Wensum River fly Census



Salmon & Trout Conservation

KEEPING OUR WATERS WILD • EST 1903

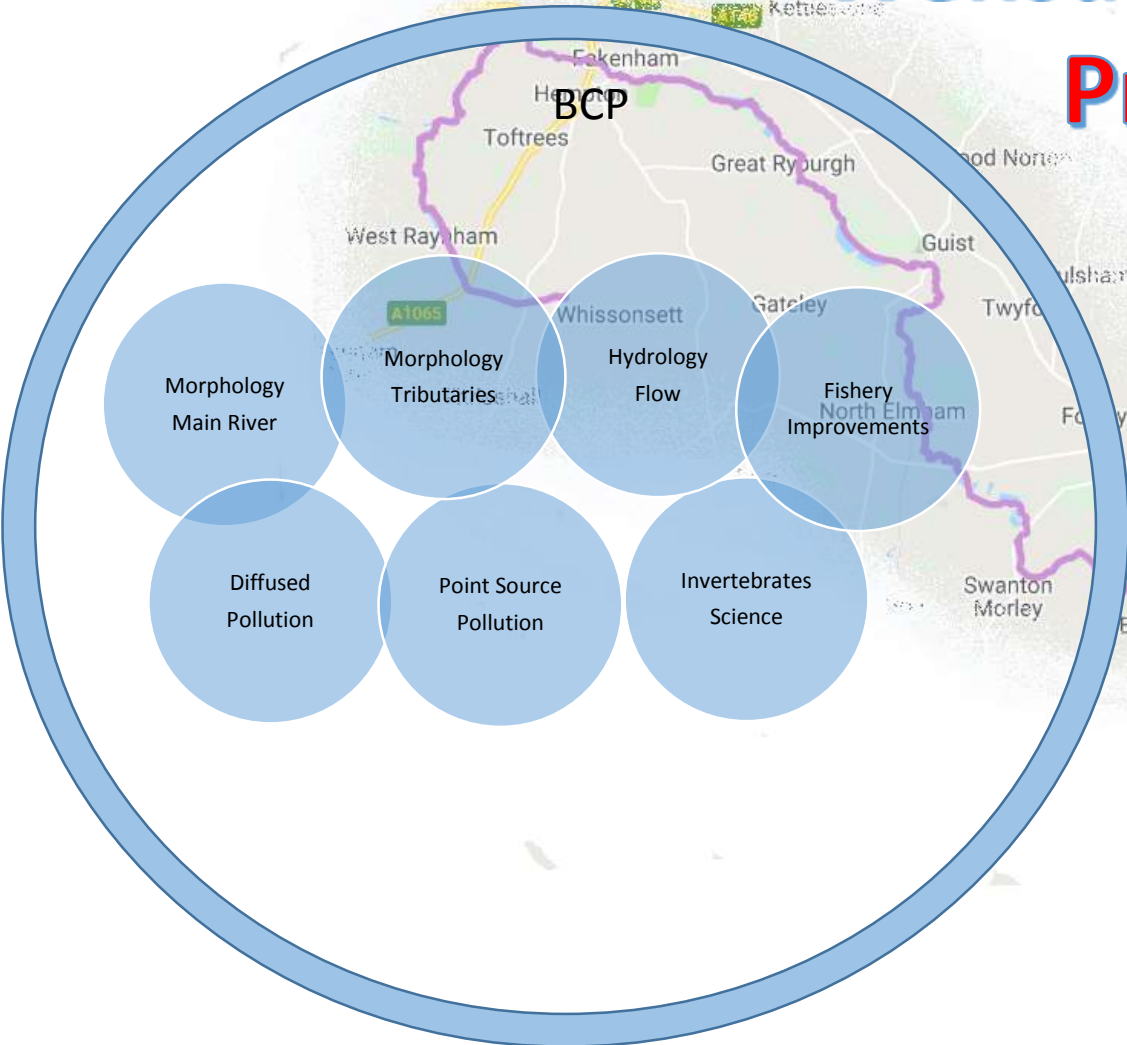


## River Wensum Abstraction Regime

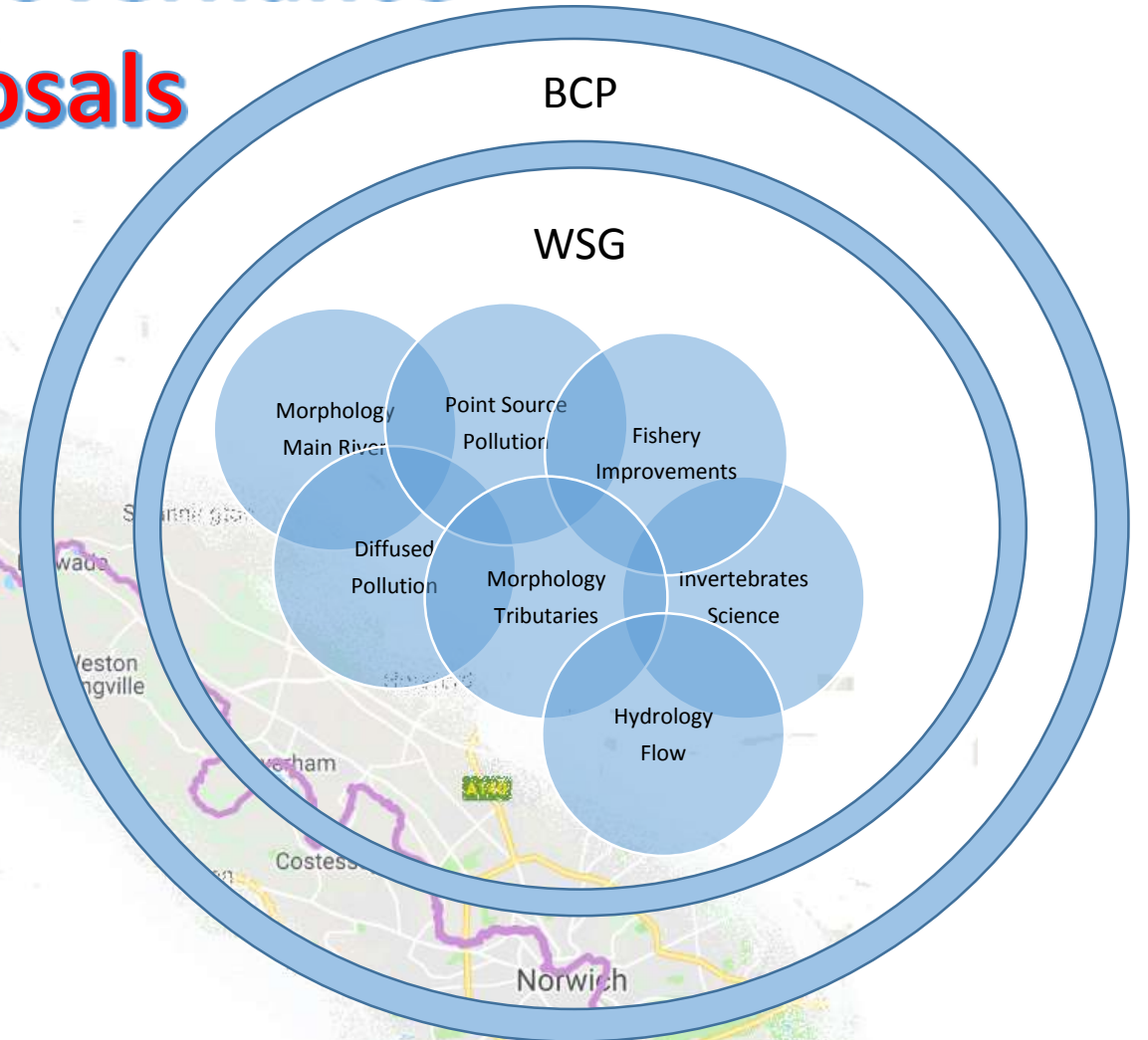


**River Wensum**  
**One of the UK most studied Rivers**  
**But.....**

# Wensum Governance Proposals



Current Model – Silo Approach

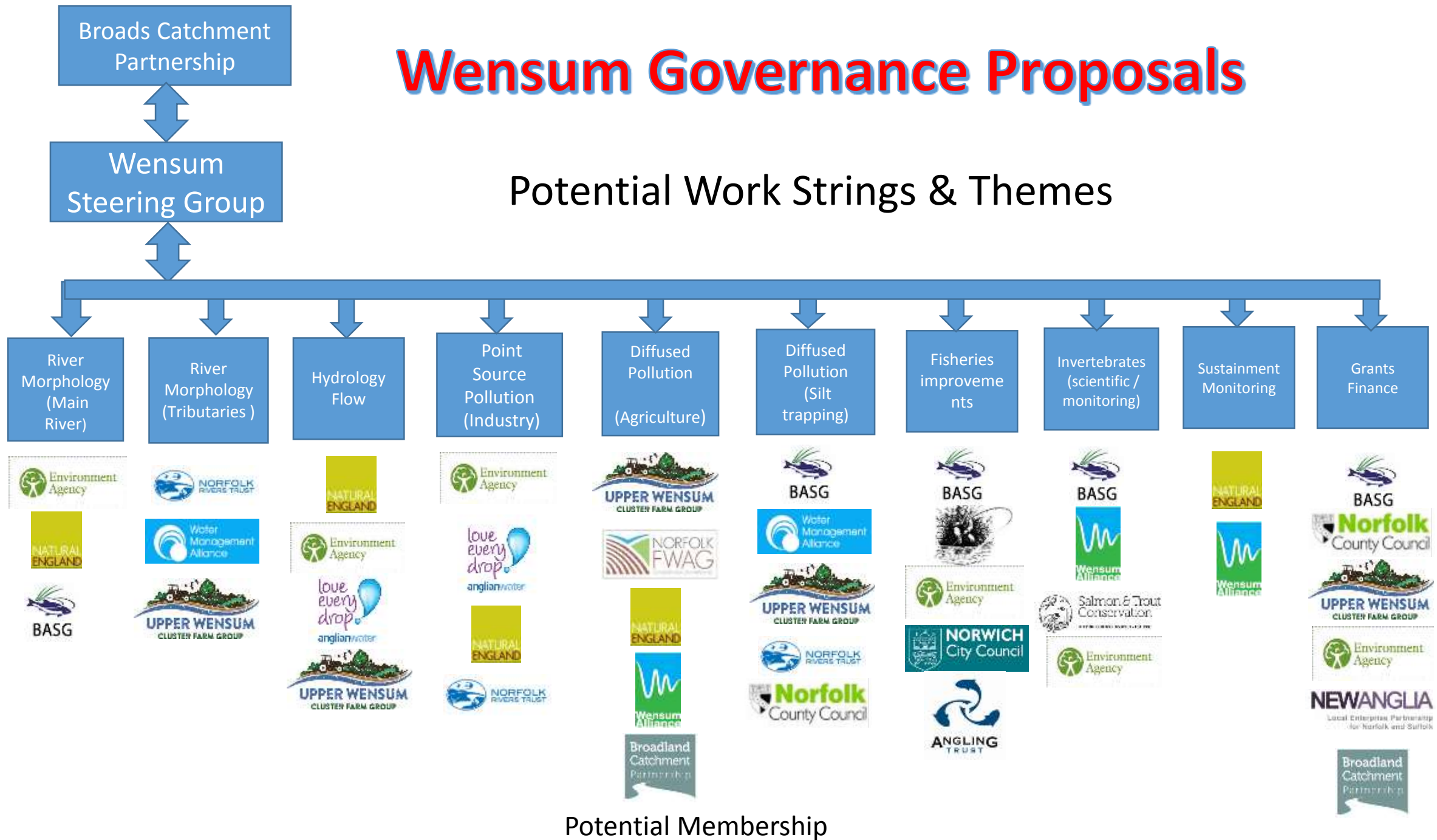


Proposed Model – Partnership Approach



# Wensum Governance Proposals

## Potential Work Strings & Themes



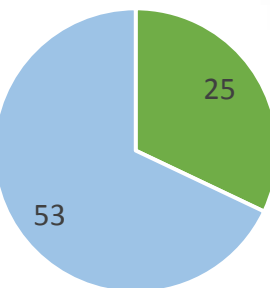
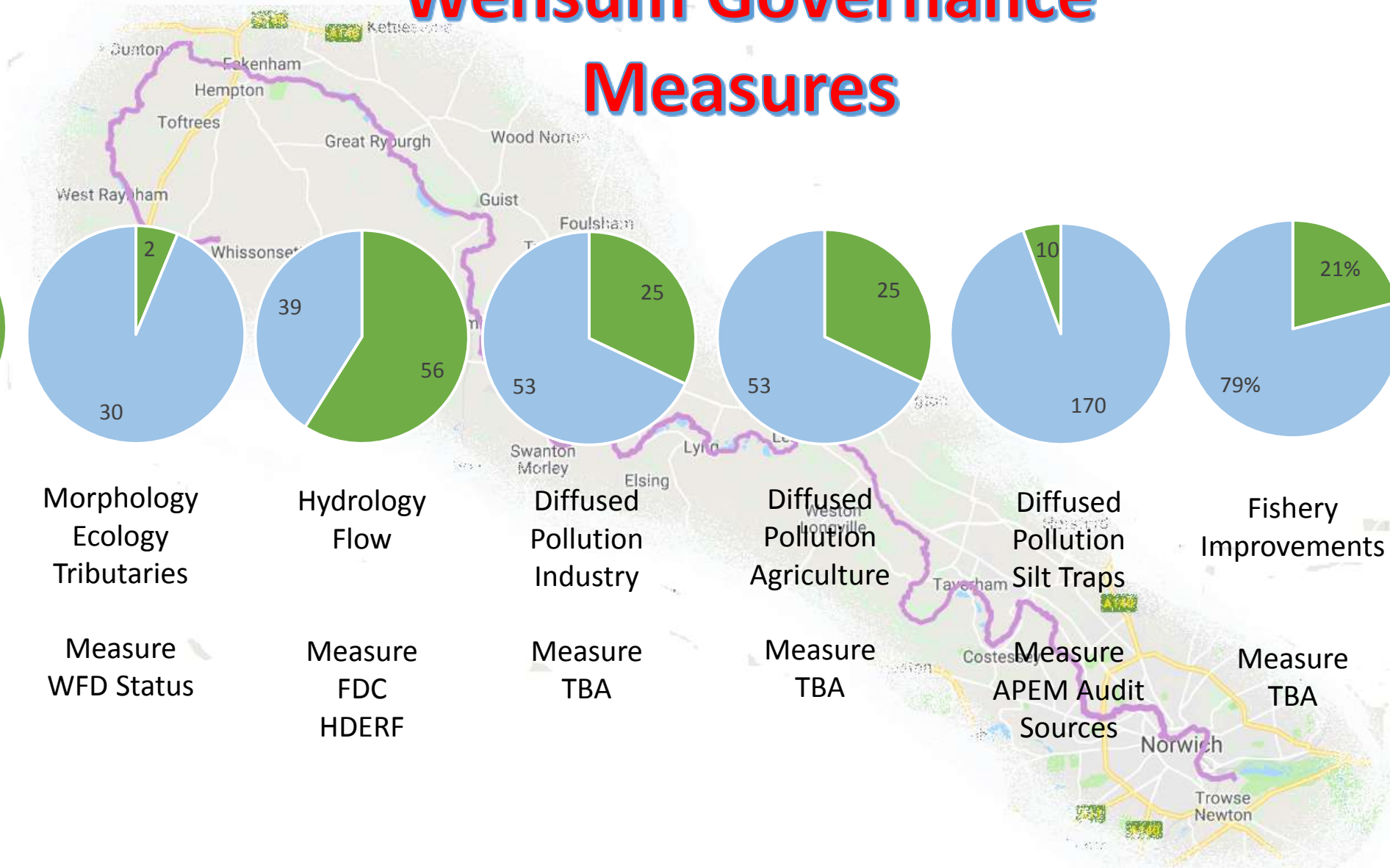


# Wensum Governance Proposals

## Today's Grouped Themes

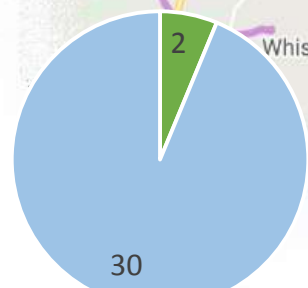


# Wensum Governance Measures



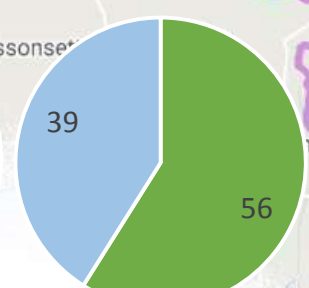
Morphology  
Wensum  
Main River

Measure  
Length of  
Restoration



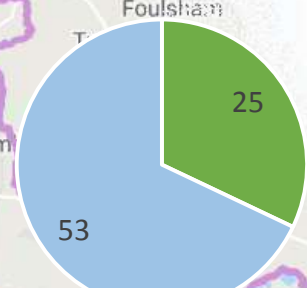
Morphology  
Ecology  
Tributaries

Measure  
WFD Status



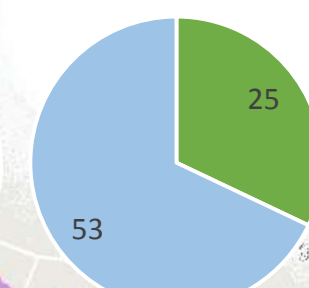
Hydrology  
Flow

Measure  
FDC  
HDERF



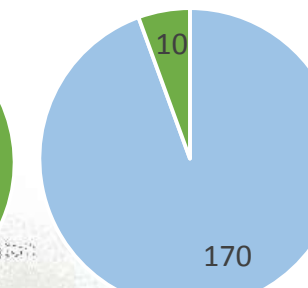
Diffused  
Pollution  
Industry

Measure  
TBA



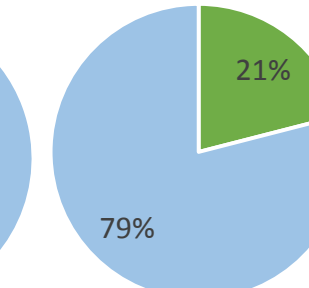
Diffused  
Pollution  
Agriculture

Measure  
TBA



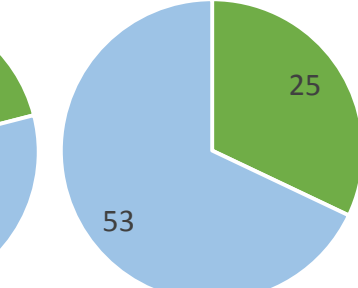
Diffused  
Pollution  
Silt Traps

Measure  
APEM Audit  
Sources



Fishery  
Improvements

Measure  
TBA

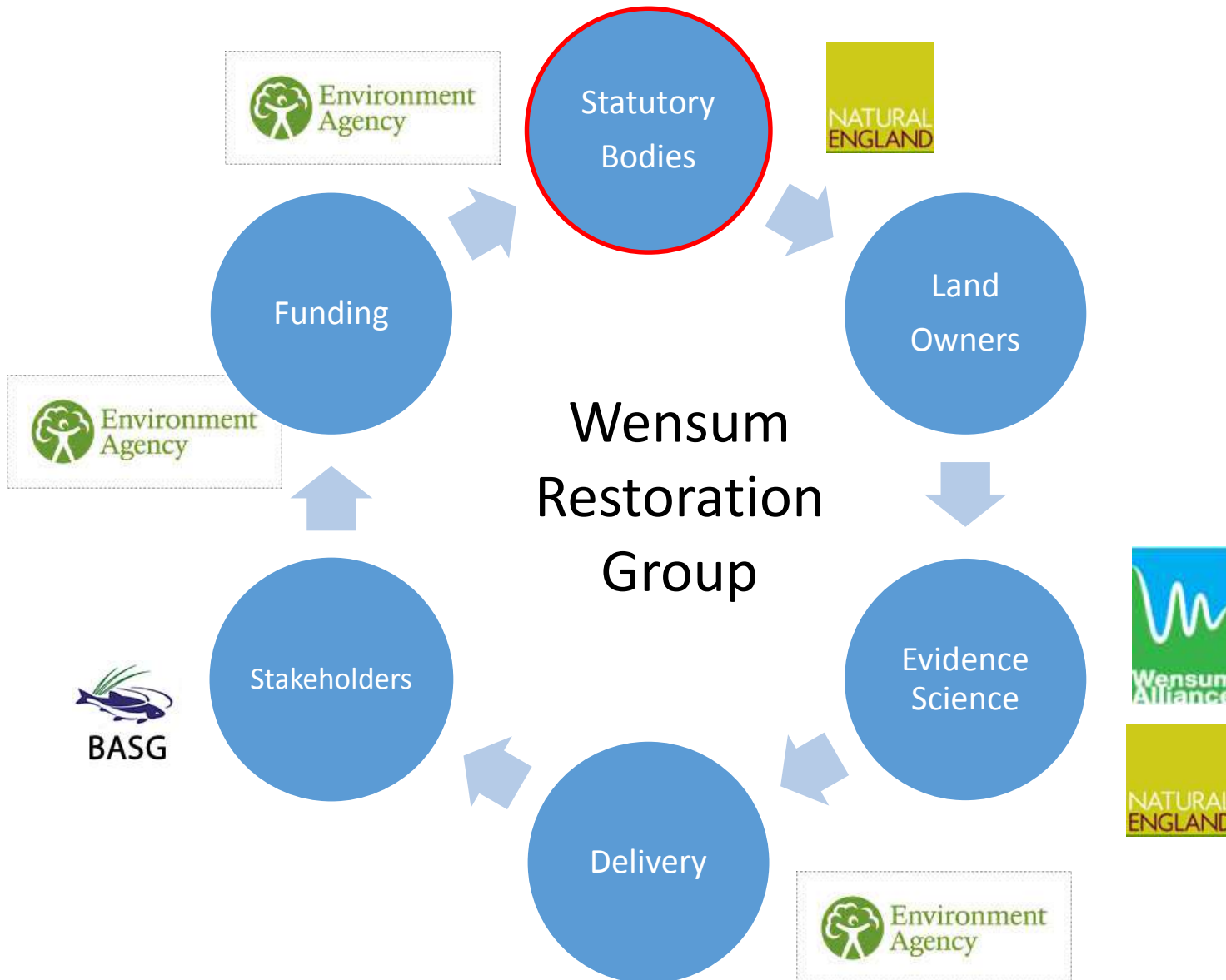


Invertebrates  
Science

Measure  
TBA



# River morphology (Main River) **Wensum Governance Proposals**



## Potential Model

Governance -Wensum Restoration Group  
Lead Body – Environment Agency

## Objectives

Implement RWRS recommendations  
Identification of multiple benefits  
Consultation with key stakeholders  
Secure new funding streams

## Outcomes

Scheduled planned delivery of RWRS  
Full stakeholder engagement

# River morphology (Tributaries)

## Wensum Governance Proposals



### Potential Model

Governance -Wensum Restoration Group  
Lead Body – Norfolk Rivers Trust

### Objectives

- Implement RWRS recommendations
- Restore WFD ecology status to Good
- Identification of multiple benefits
- Consultation with key stakeholders
- Secure new funding streams

### Outcomes

- Scheduled planned delivery
- Full stakeholder engagement
- Removal of 2016 Ecology poor by 2021



## Hydrology Flow

# Wensum Governance Proposals



## Potential Model

Governance – Wensum Restoration Group  
Lead Body – Environmental Agency

## Objectives

To ensure flow to meet environmental needs  
To ensure sustainable outcomes

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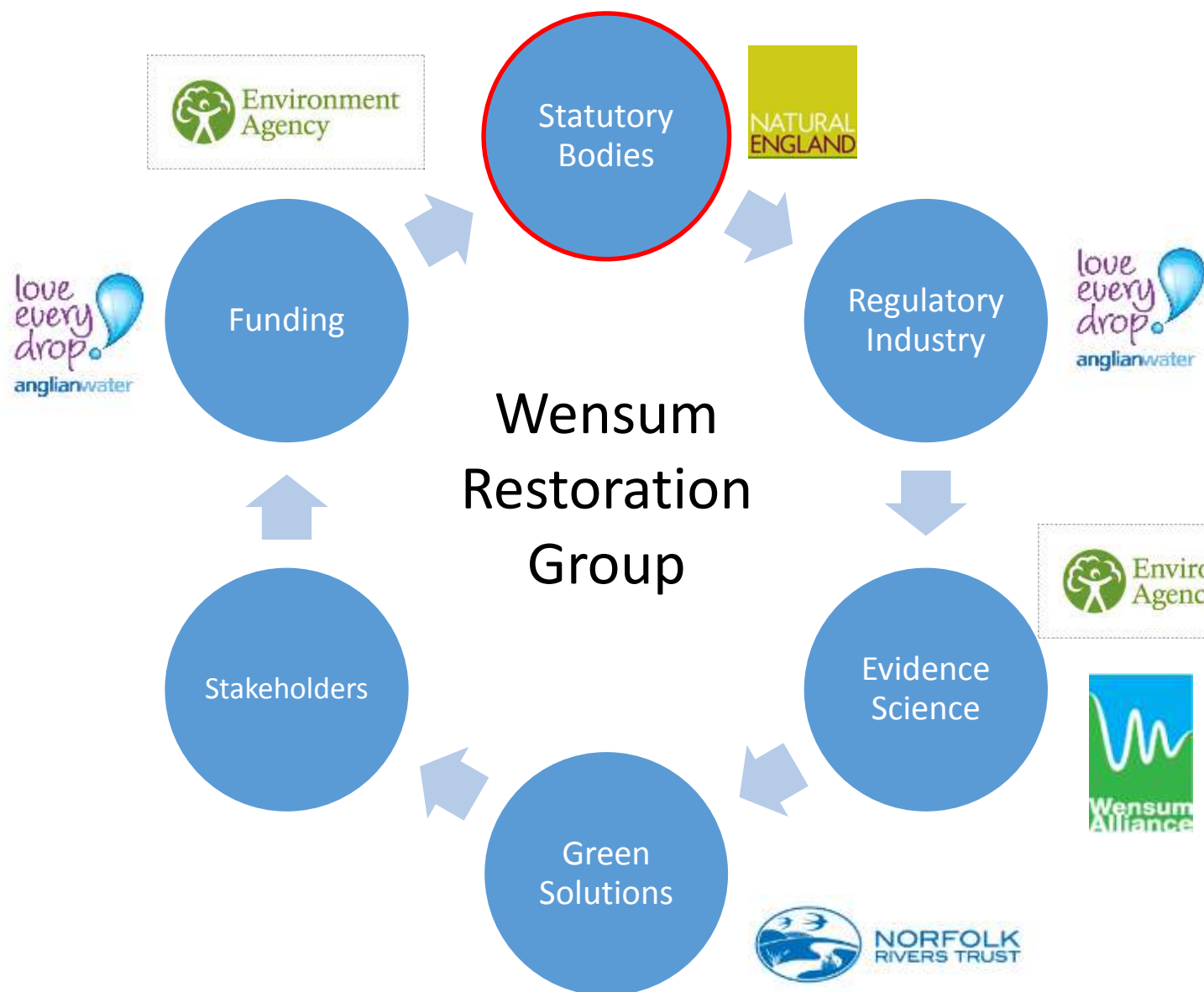
## Outcomes

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•  
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Point Source Pollution  
(STWs and industry)

# Wensum Governance Proposals



Potential Model

Governance -Wensum Restoration Group  
Lead Body – Environment Agency

Objectives

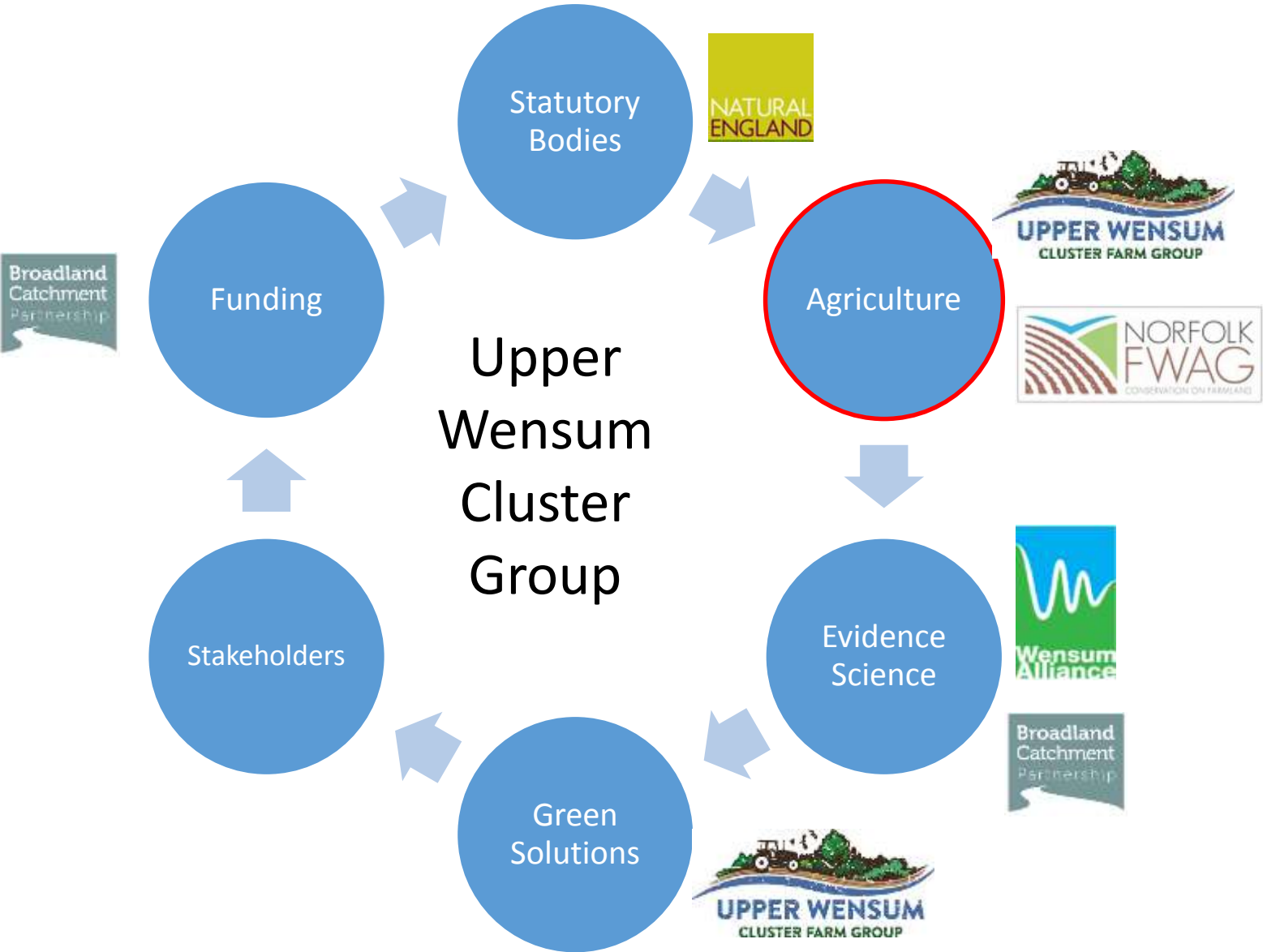
- Reduce Chemical Input from STW
- Identification of priority locations
- Identification of possible Green Solutions
- Definition of required budget for PR24

Outcomes

- Inclusion of Wensum in priority PR24 submission
- Inclusion of at least 2 natural capital solutions
- Definition of need to the public and SSSI

Diffused Pollution  
(On field measures)

Wensum Governance Proposals



Potential Model

Governance –Upper Farm Cluster Group  
Lead Body – Upper Farm Cluster Group

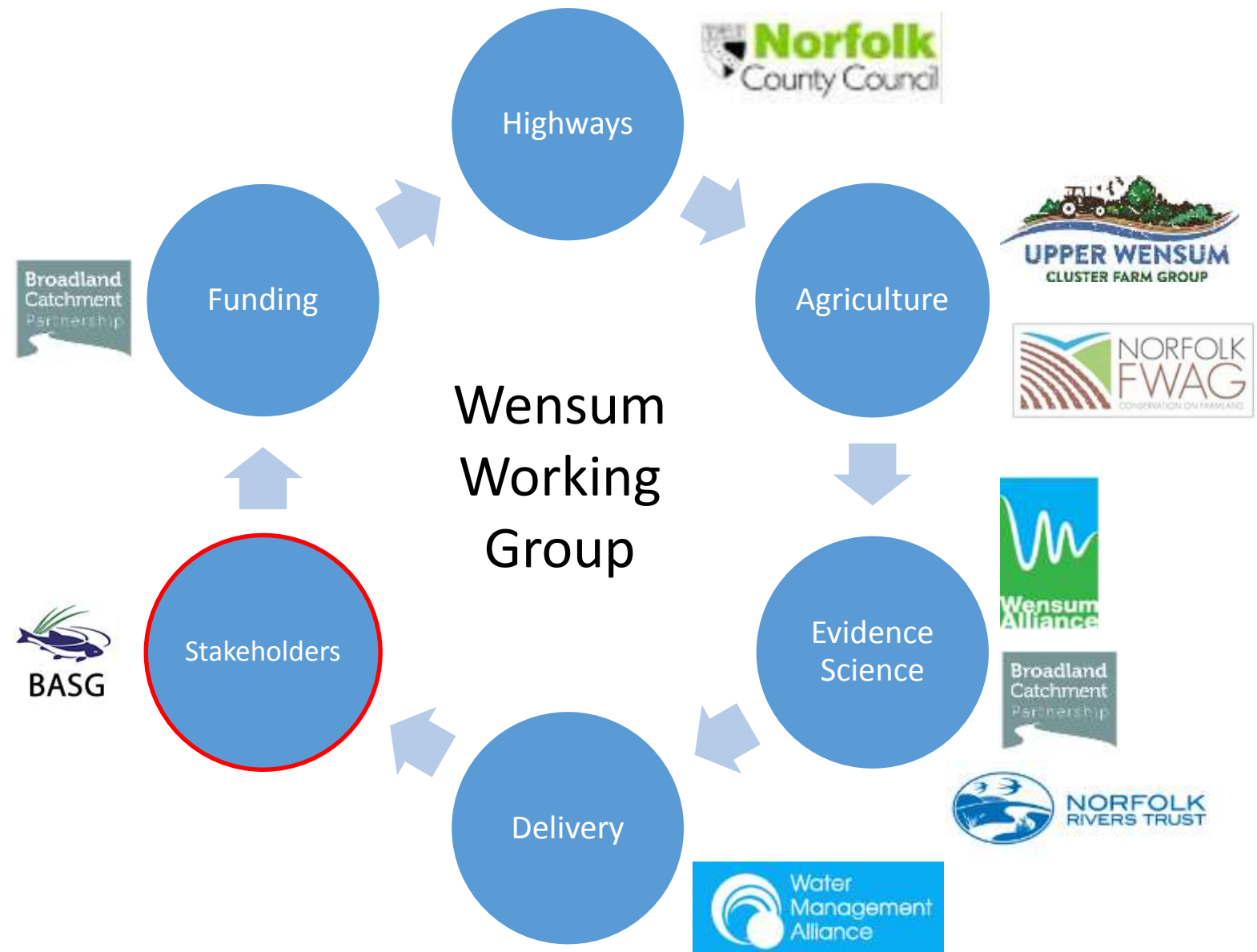
Objectives

- Identification of priority locations
- Drive change of farming field practice
- Keeping the soils within the field
- Use of field buffer strips

Outcomes

Diffused Pollution  
(Off Field Measures)

Wensum Governance Proposals



Potential Model

Governance -Wensum Working Group  
Lead Body – Water Management Alliance

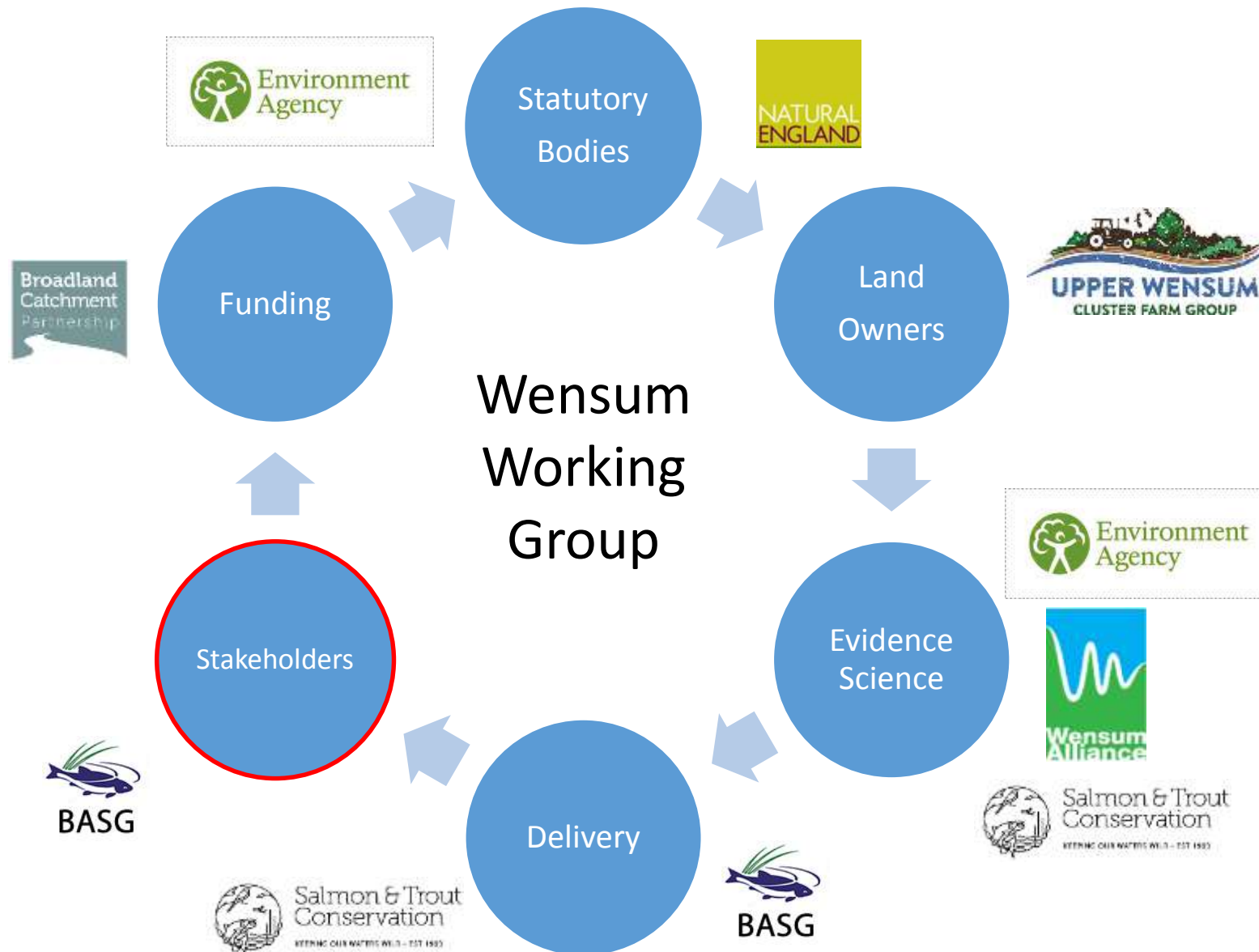
Objectives

Identification of priority locations  
Design and Build solutions (3 per year)  
Identify multiple habitat benefits

Outcomes

Delivery of 3 solutions per year  
Delivery of multiple benefits  
Quantify and Measure success

# Invertebrates (scientific / monitoring) **Wensum Governance Proposals**



## Potential Model

Governance - Wensum Working Group  
Lead Body – Wensum Working Group

## Objectives

- Introduce catchment wide monitoring
- Identification gaps in current knowledge
- Gain evidence on WFD status on Invertebrates
- Define scientific linkages to cause and effect

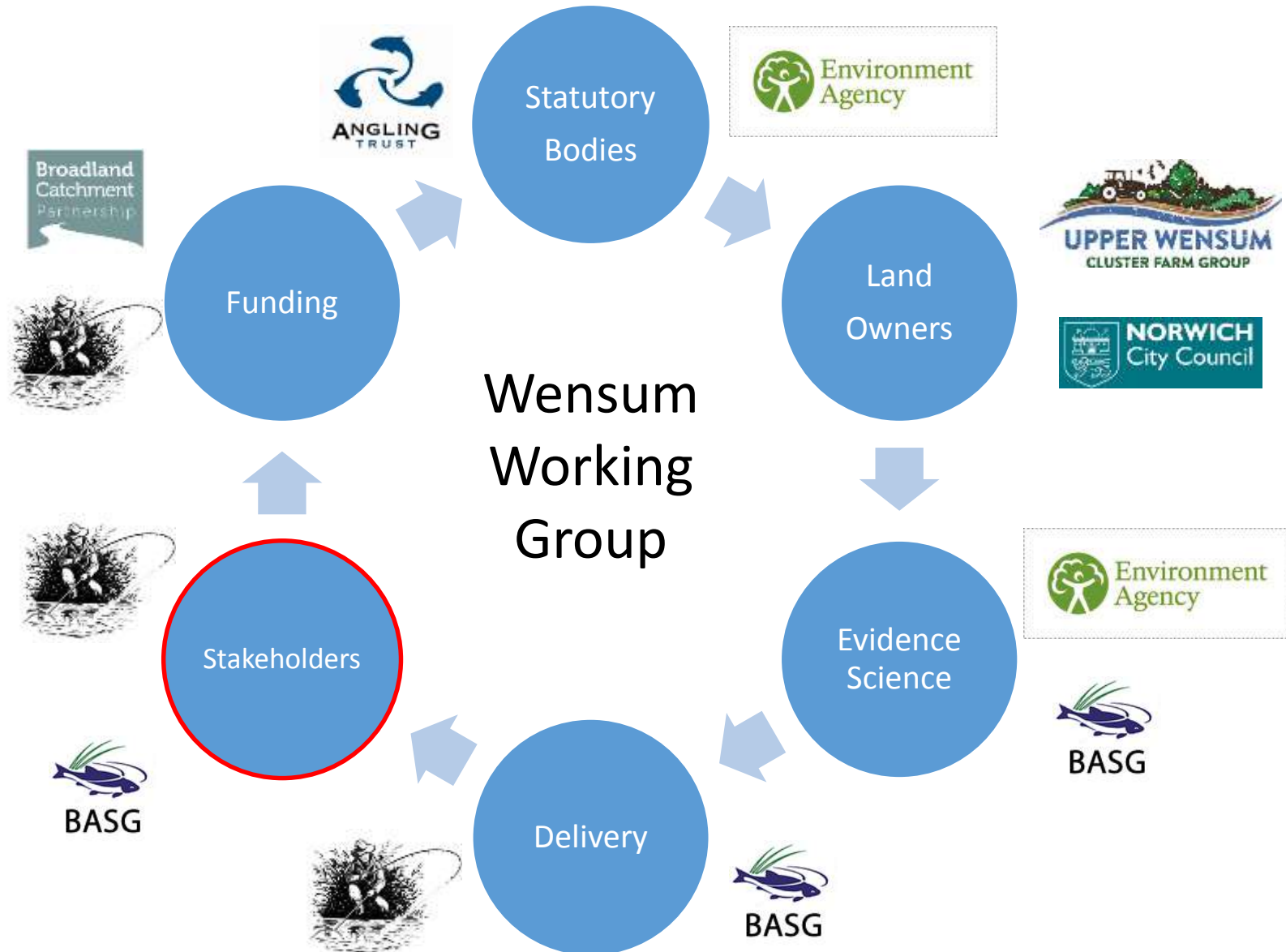
## Outcomes

- Introduce end to end SmartRiver monitoring
- Create a baseline measure in year 1
- Challenge current WFD Invertebrate status
- Obtain evidence of linkages cause and effect



# Wensum Governance Proposals

Fishery  
improvements



## Potential Model

Governance - Wensum Working Group  
Lead Body – Wensum Working Group

## Objectives

- Increase off channel refuge and habitat
- Confirm fish population densities
- Implement a Roach recruitment program
- Implement predation management measures
- Increase access to anglers

## Outcomes

- Provision of 150sqM off channel refuge per year
- Improved understanding of fish stock
- Define measures for Roach recruitment
- Implement a cormorant survey program
- Provision of additional cormorant licences
- Agreement for additional or improved access