

Welcome

River Wensum Past Present & Future

8th Oct 2019

Cass Singleton



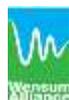
Domestics

Fire Alarm

Toilets

Breaks

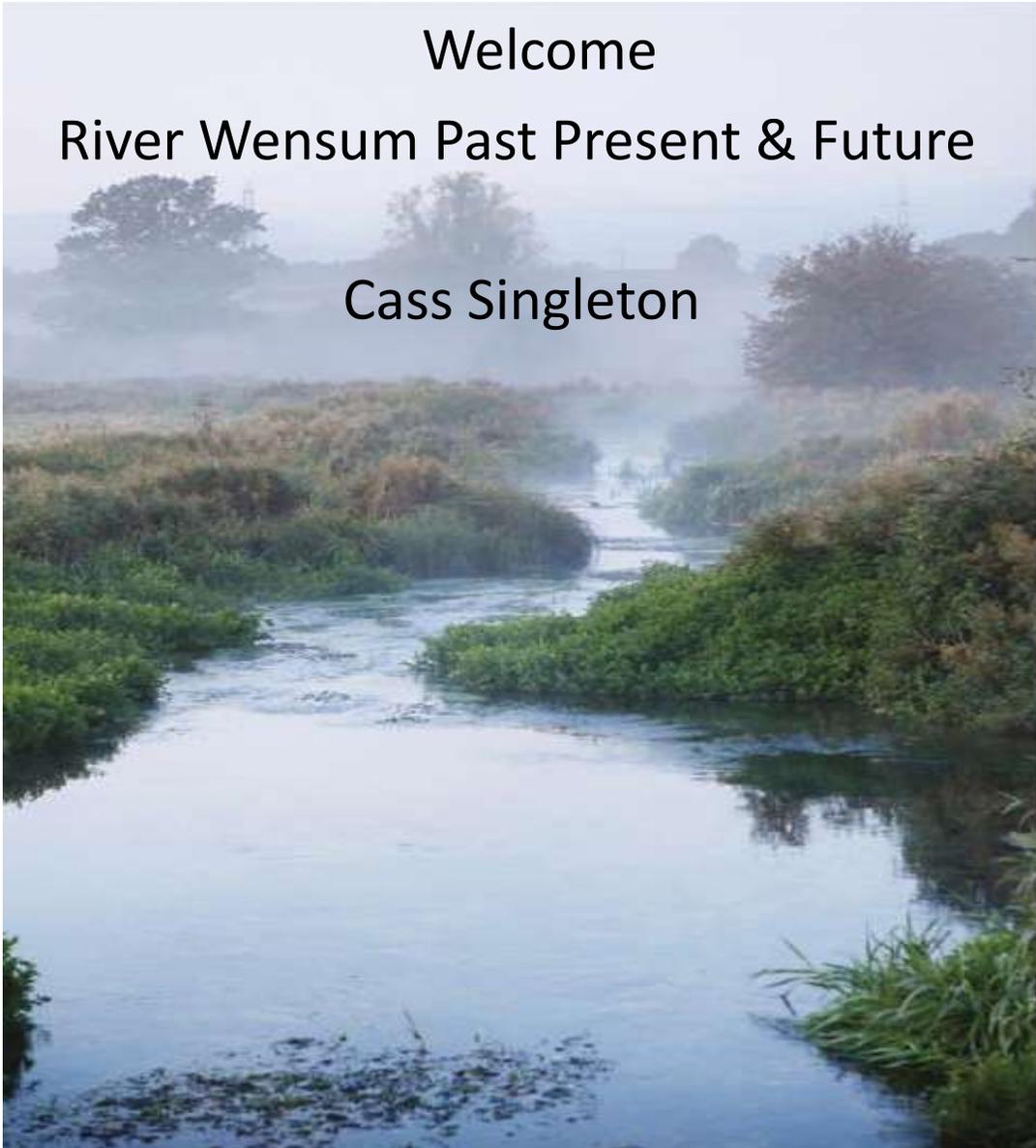
Q/A



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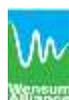


Introductions to the Day

Agree Catchment Based Approach and formal adoption methodology.

Identify Members from stakeholder community to participate as new management Organisation.

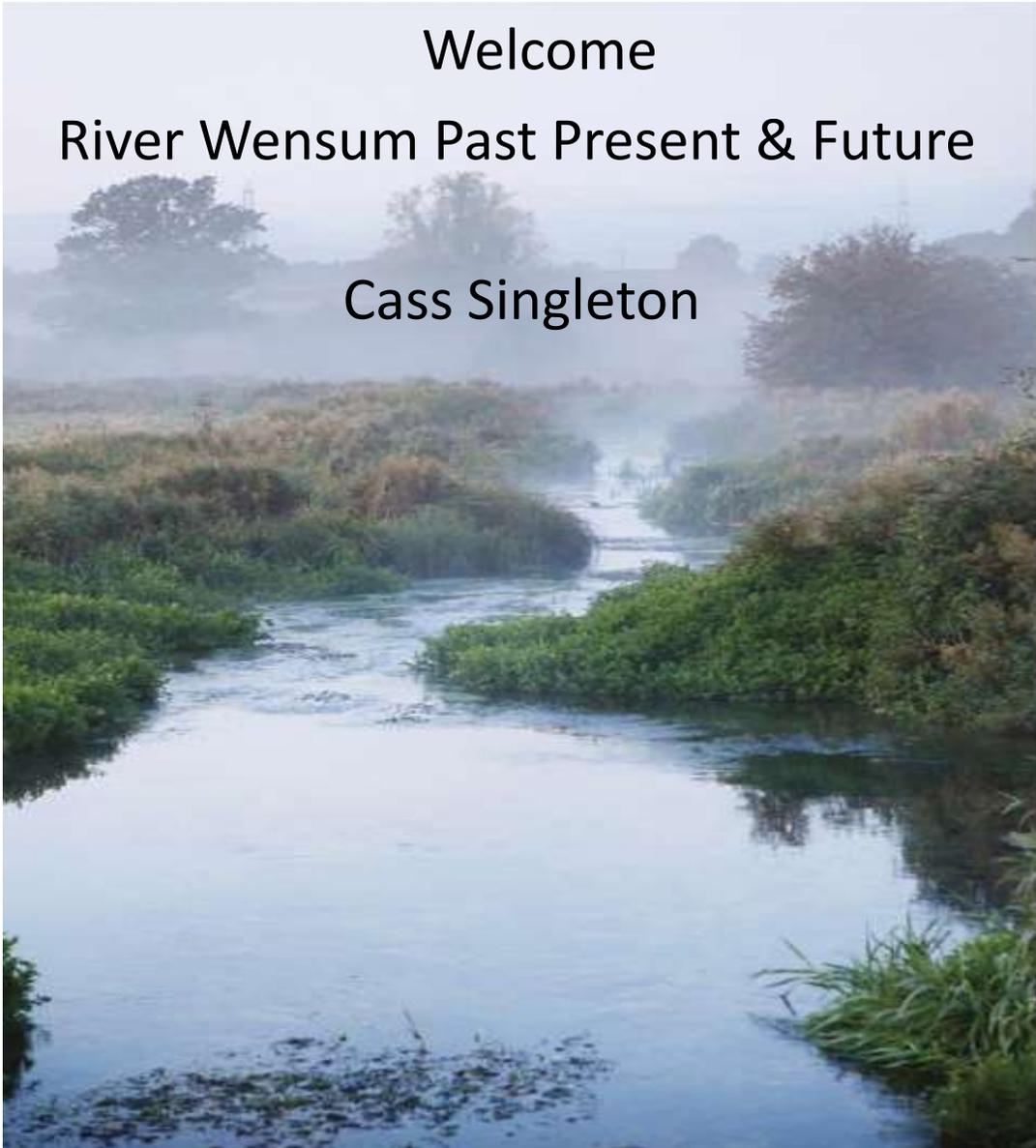
Agree Reinvigoration of River Wensum Restoration Strategy (Investigate how existing Key Stakeholder plans could support this approach).



Welcome

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Key Objectives:

Morphology – erosion, transportation, sedimentation.

Pollution – Domestic to Industrial.

Ecology - Plants, Bugs

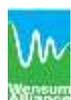
Sustainment – Industrial User/Volunteer/Citizen

Science Engagement for ongoing river monitoring.

Syndicates to Identify:

Strengths, Weaknesses Opportunities and Threats to new way of working, noting this is a key opportunity for better future river management.

Performance Management, Planning and Monitoring Procedures to sustain improvements.



River Wensum Past Present & Future

Today's Agenda

10:30 – 16:30	Wensum Past Present & Future exhibition	Activities Room	
11:30	Introductions & Objectives of the Day	Main Hall	Cass Singleton
11:45	Catchment based approach	Main Hall	Kelvin Allen
12:00	Wensum Partnerships & Governance	Main Hall	Kelvin Allen
12:30	Q/A	Main Hall	Paul Allen
13:00	Lunch		
3:30	Syndicate introduction	Main Hall	Paul Allen
13:40	Syndicate 1 – Objectives	Main Hall	Paul Allen
14:10	Syndicate 2 - Outcomes	Main Hall	Paul Allen
14:40	Syndicate 3 - Governance	Main Hall	Paul Allen
15:00	Syndicates 1- 3 – Group Feedback	Main Hall	All - Paul Allen
15:50	Close	Main Hall	Rory Sanderson
16:00 – 16:30	Wensum Past Present & Future Expedition	Activities Room	

Who are We

A strong presence and passion along the river.
28 kms of active fishing rights

Wensum FAP dissolved in 2013
Reinvigorated in 2016 by the Angling Trust
Formation of the Wensum Working Group
Incorporated in the BASG CIC in 2018

Kelvin Allen



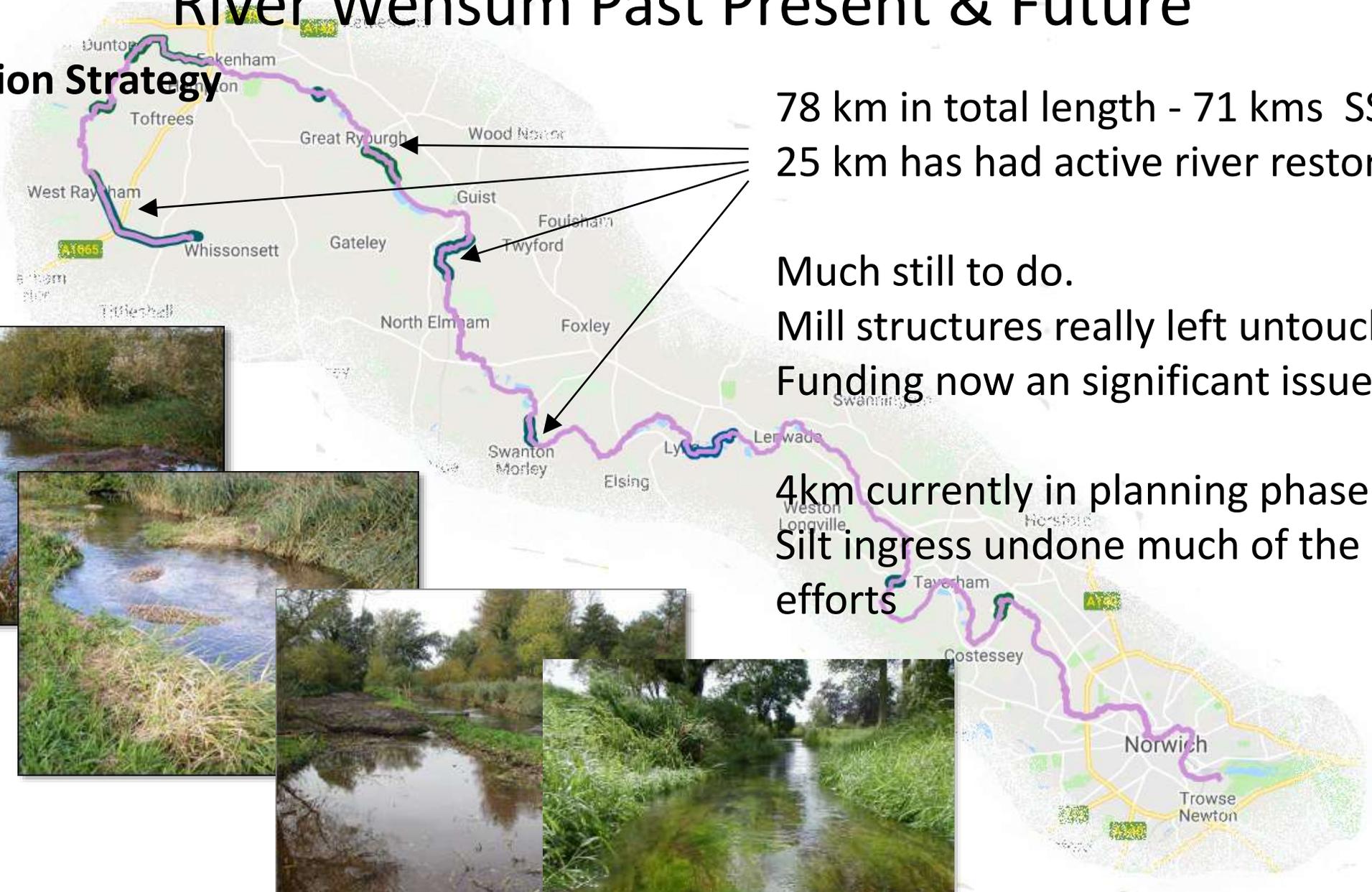
BASG

Wensum Working Group



River Wensum Past Present & Future

Restoration Strategy



78 km in total length - 71 kms SSSI/SAC
25 km has had active river restoration

Much still to do.
Mill structures really left untouched
Funding now an significant issue

4km currently in planning phase
Silt ingress undone much of the previous efforts



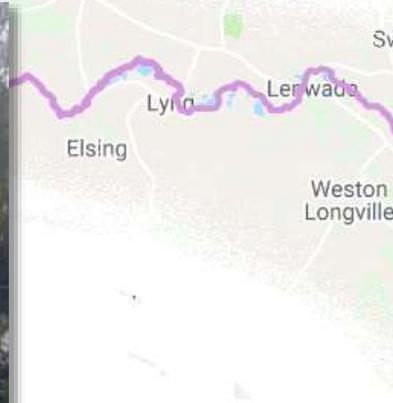
River Wensum Past Present & Future

Restoration Strategy - DWP



Lyng 2018

What has been happening in recent years?
Lots of studies and previous papers
Seemingly with poor outcomes
Seemingly still loads to do, with little Government aid



Lyng 2019



Anglers can't resolve this in a Chalk Stream River!

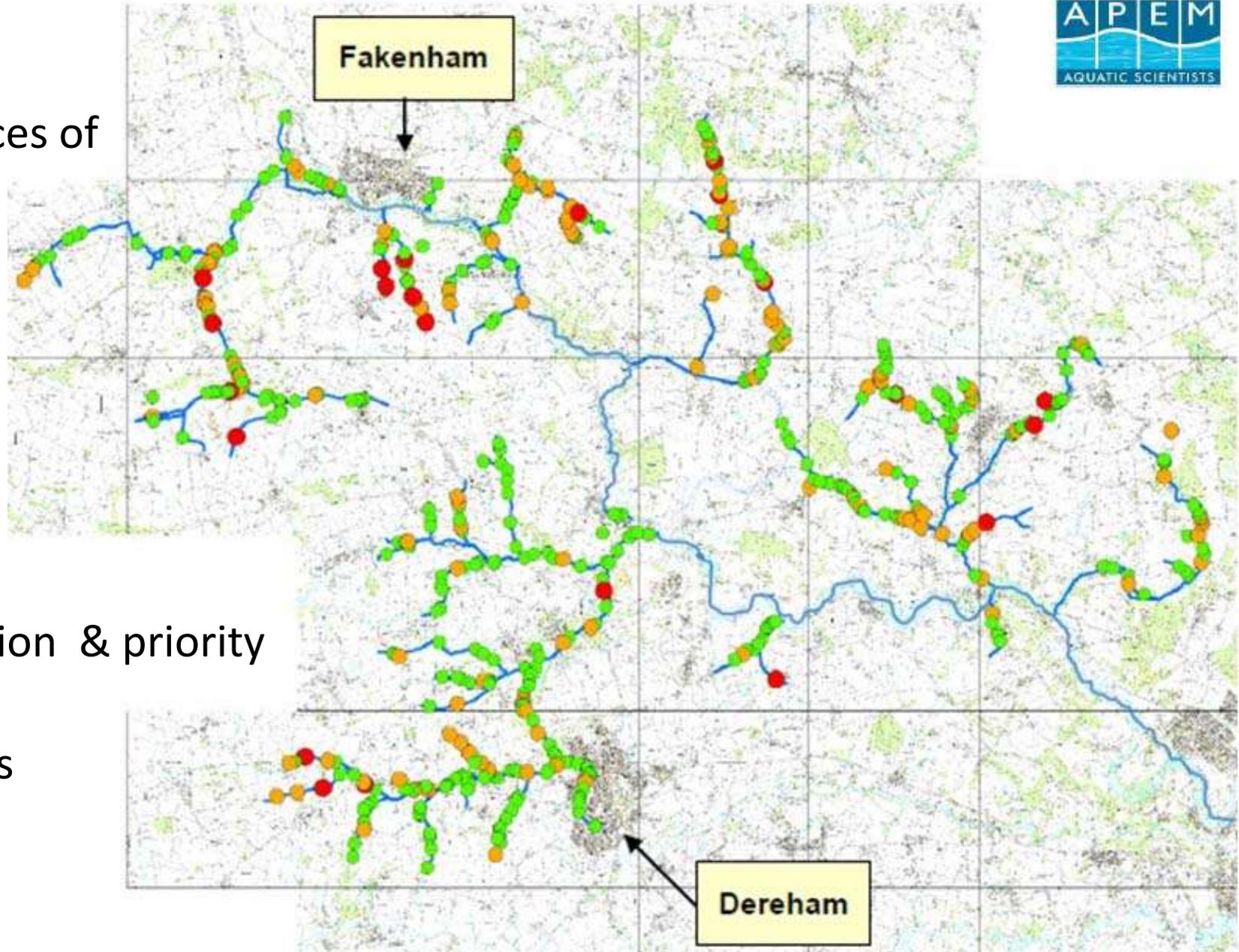
River Wensum Past Present & Future

Restoration Strategy - DWP

Volume of fine sediment sources of each grade recorded in the Wensum catchment 2009.

Grade	Volume
1	20
2	140
3	393

Needs some overall co-ordination & priority
Bring people together
Silt still the key issue to address
Resultant impact on:
Invertebrates , Fish & Ecology



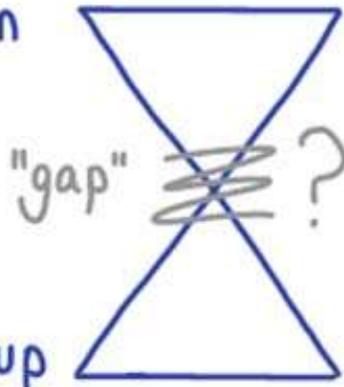
Partnerships for action in river catchment governance. A case study in the Irwell, UK

Current

turn the model sideways

Future?

top-down



Government bodies

power-over

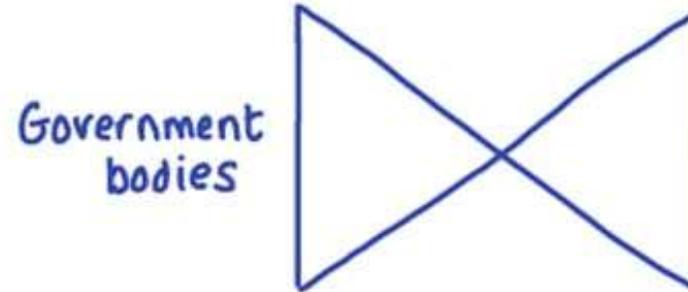
Partnerships, NGOs etc.

bottom-up

POSITION-BASED GOVERNANCE MODEL

- discussions and negotiations based mainly on what stakeholders are allowed or permitted to do by those with power

power-with (or power sharing)



Government bodies

Partnerships, NGOs etc.

INTEREST-BASED GOVERNANCE MODEL

- discussions and negotiations focused on each stakeholder's need to meet their own obligations and interests (e.g. legal, financial, moral)

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

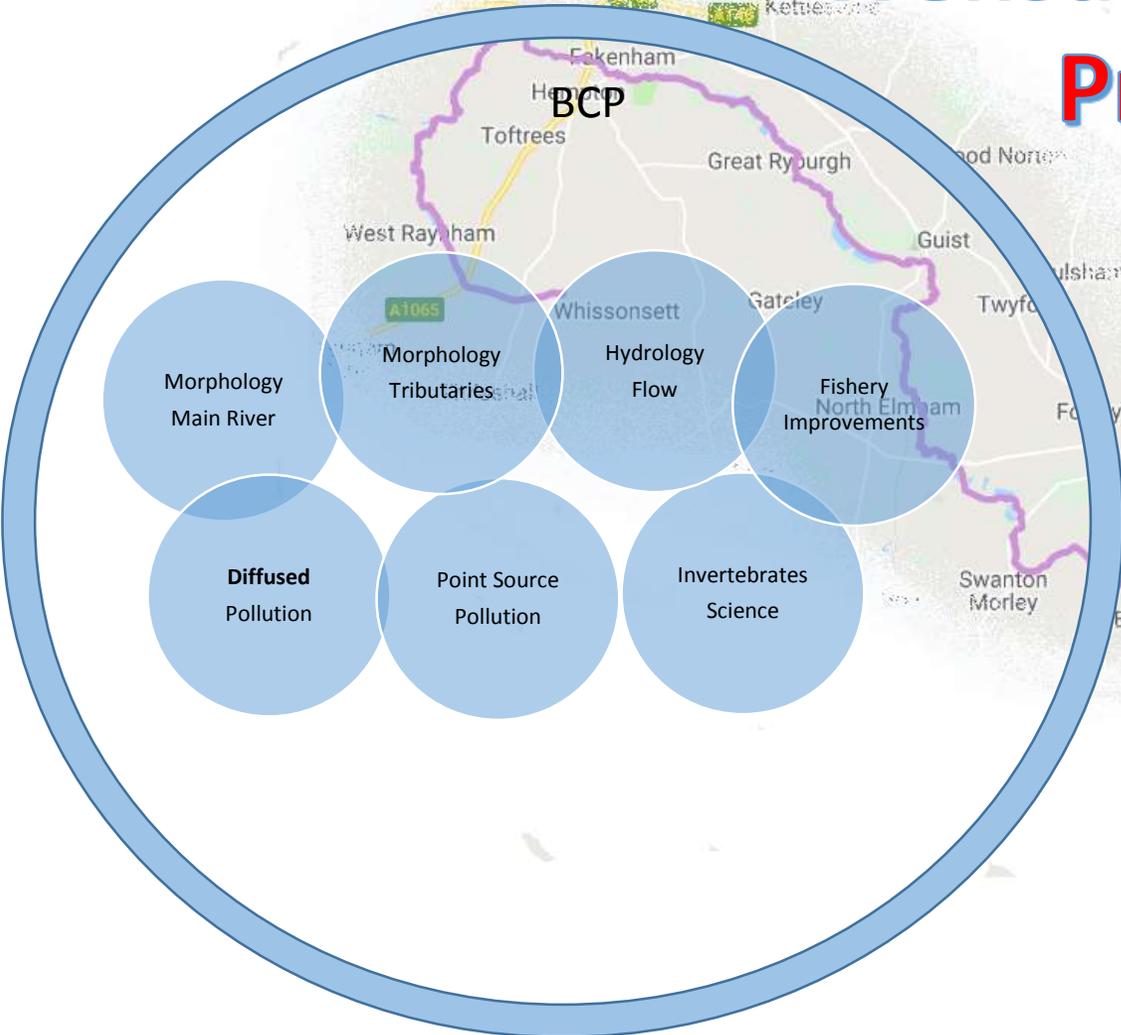


River Wensum Abstraction Regime



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

Wensum Governance Proposals



Current Model – Silo Approach



Proposed Model – Partnership Approach



Wensum Governance Proposal

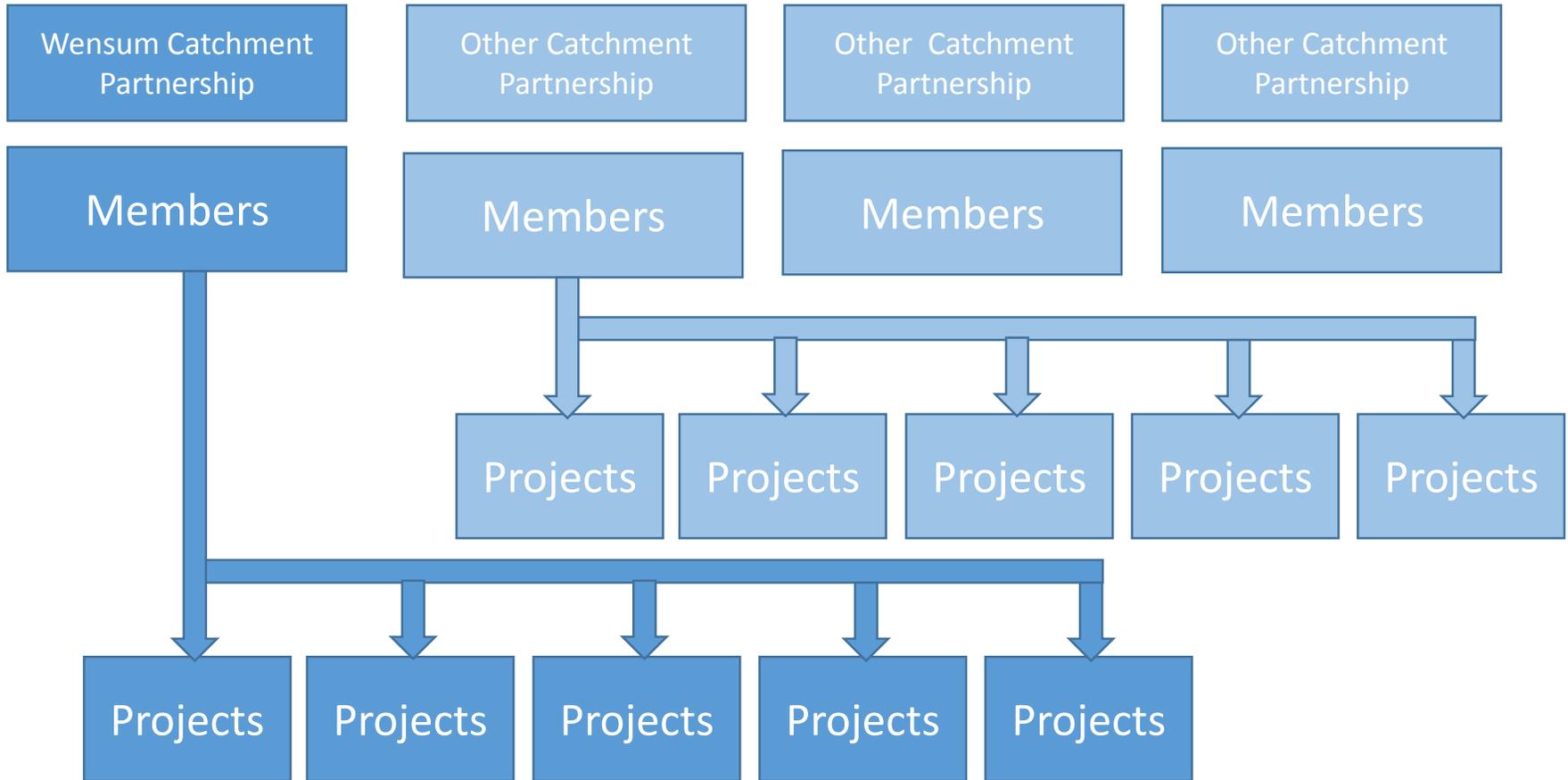
Broads Catchment Partnership

Management Catchment

Operation Catchment

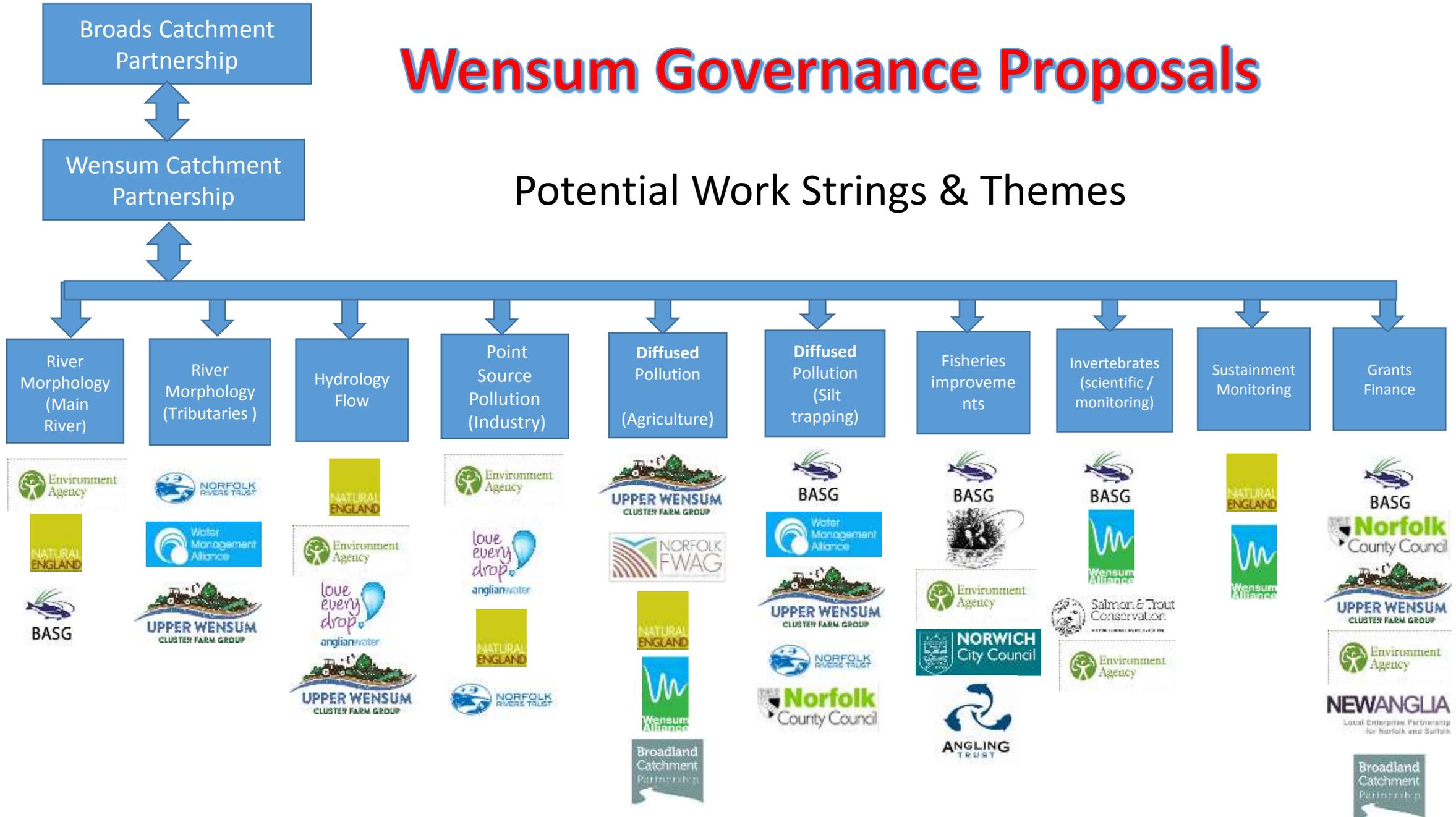
Delivery Partners

Work Streams



Wensum Governance Proposals

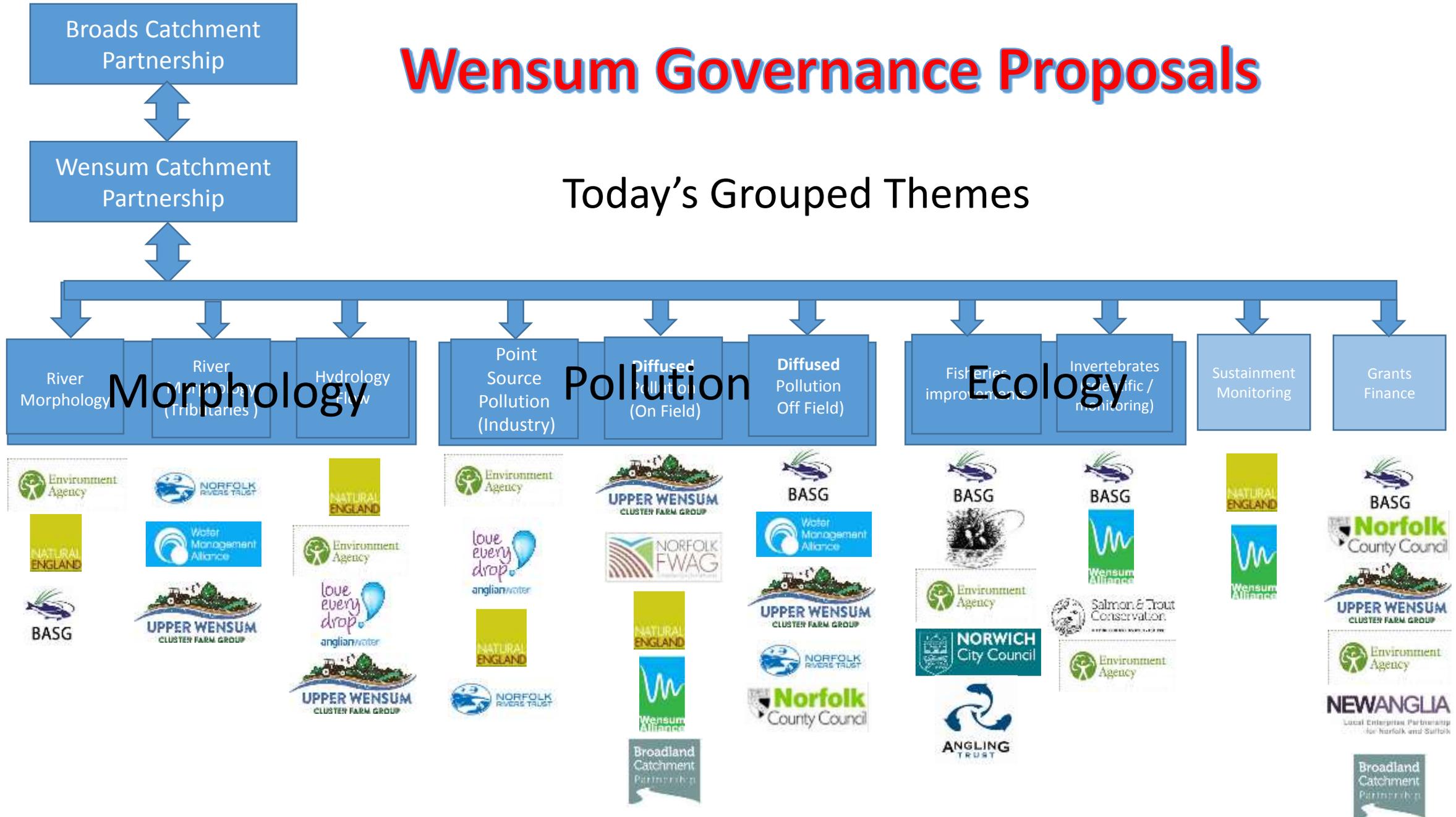
Potential Work Strings & Themes



Potential Membership

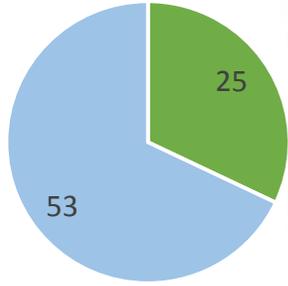
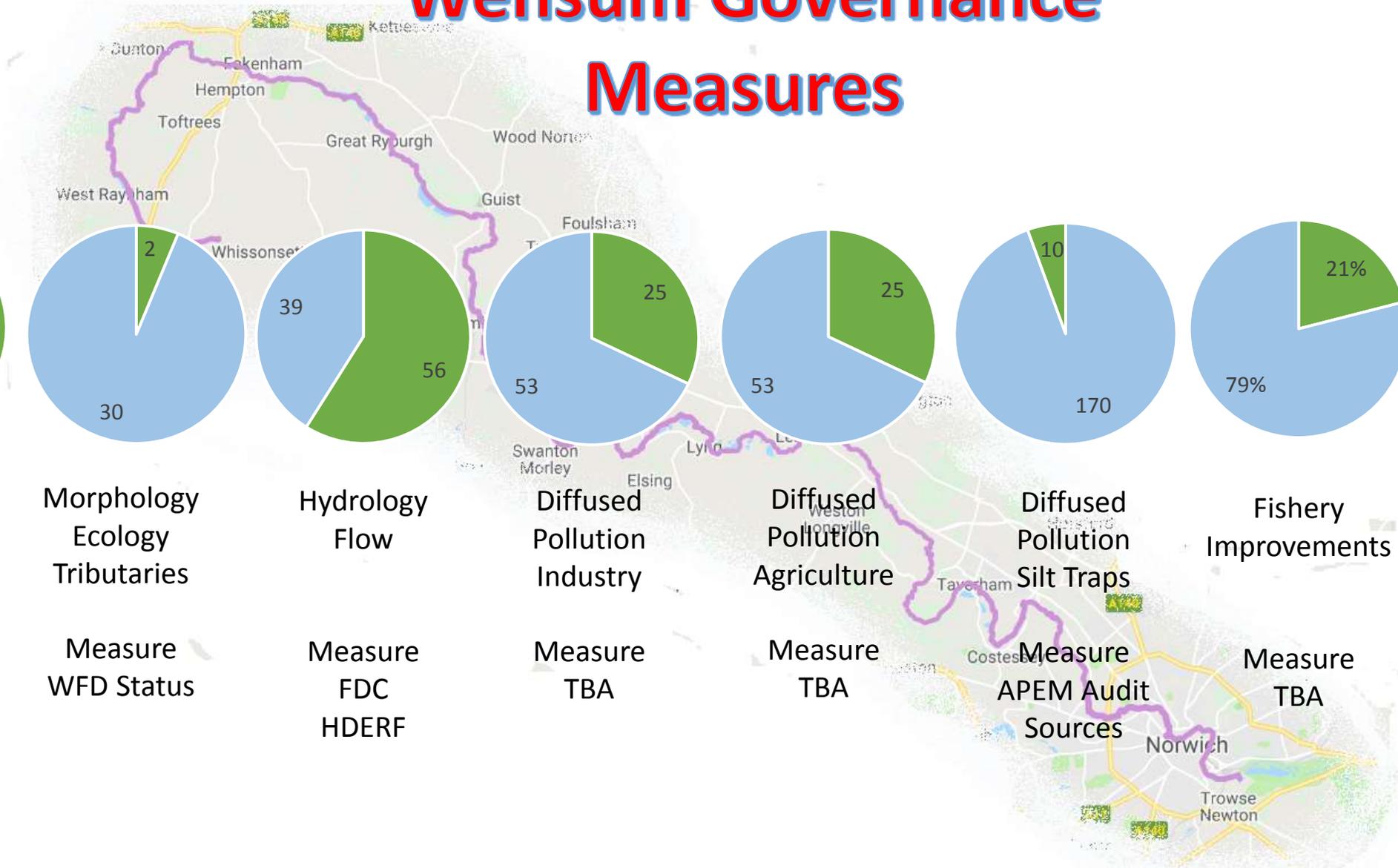
Wensum Governance Proposals

Today's Grouped Themes



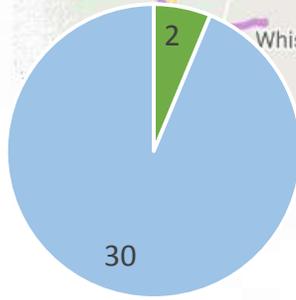
Potential Membership

Wensum Governance Measures



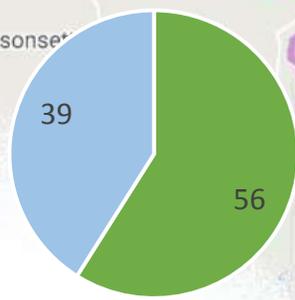
Morphology
Wensum
Main River

Measure
Length of
Restoration



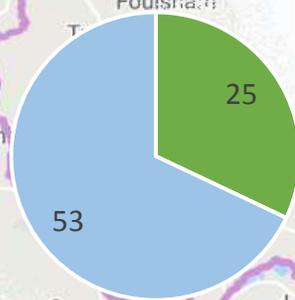
Morphology
Ecology
Tributaries

Measure
WFD Status



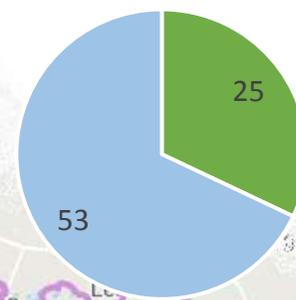
Hydrology
Flow

Measure
FDC
HDERF



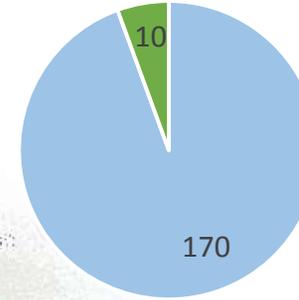
Diffused
Pollution
Industry

Measure
TBA



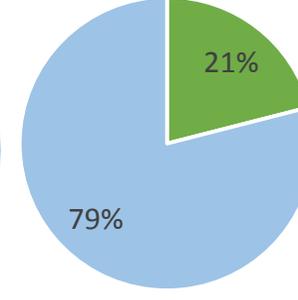
Diffused
Pollution
Agriculture

Measure
TBA



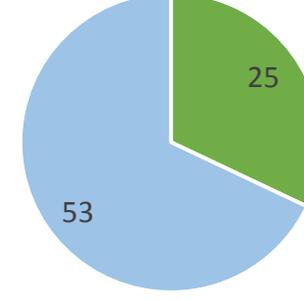
Diffused
Pollution
Silt Traps

Measure
APEM Audit
Sources



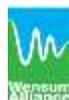
Fishery
Improvements

Measure
TBA



Invertebrates
Science

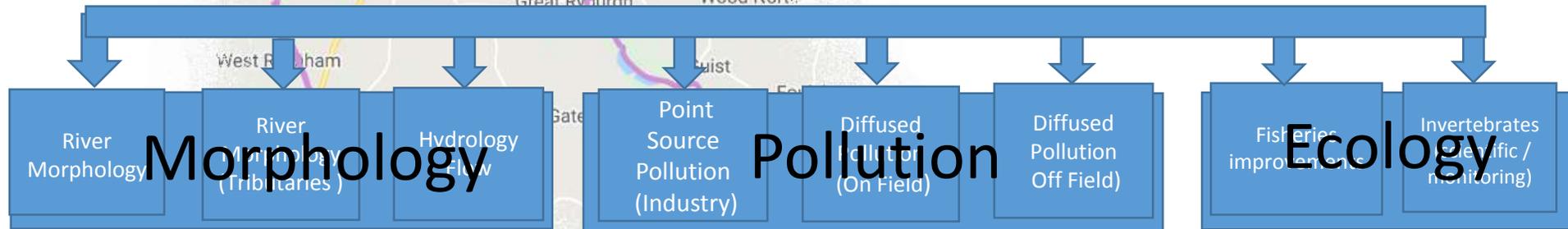
Measure
TBA



Thank You

**Paul Allen our facilitator will now host
Q/A**

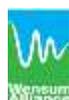
Syndicate Groups Themed Around



Transportation
Erosion
Flow

Sedimentation
Agriculture
Domestic
Industrial.

Plants
Bugs
Habitat
Fish

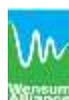


Syndicate 1 - Themed Objectives

Provide a group view on the top 5 achievable objectives
With any barriers to achieving these

Identify Strengths, Weaknesses Opportunities and Threats to new way of working, noting this is a key opportunity for better future river management.

Noting Performance Management, Planning and Monitoring Procedures to sustain improvements.



Syndicate 2 - Themed Measureable Outcomes

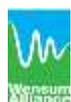
Provide a group view on the top 5 measureable Outcomes

To include both target and stretch components

Any Issues and Concerns in achieving these

Identify Strengths, Weaknesses Opportunities and Threats to new way of working, noting this is a key opportunity for better future river management.

Noting Performance Management, Planning and Monitoring Procedures to sustain improvements.

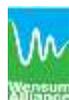


Syndicate 3 - Themed Governance

Agree Catchment Based Approach and formal adoption methodology.

Identify Members from the stakeholder community to participate as a new management Organisation.

Agree Reinvigoration of River Wensum Restoration Strategy
(Investigate how existing Key Stakeholder plans could support this approach).



Group Feedback

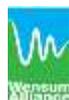
10 minutes from each themed group on what they have created

Objectives

Outcomes

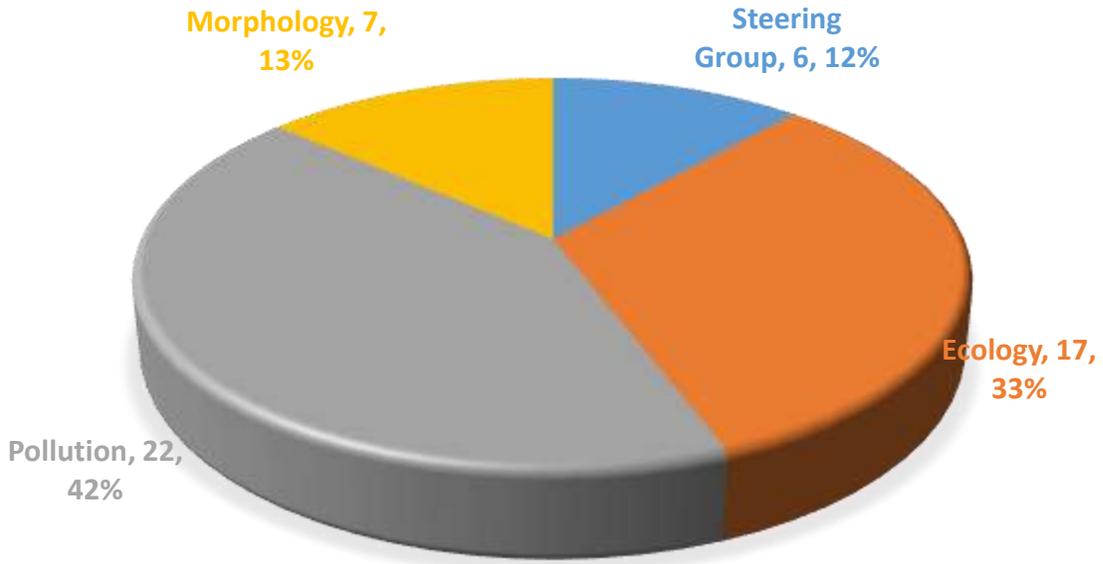
Governance

Strengths, Weaknesses Opportunities and Threats



Resultant Outcomes and Activities

WENSUM PARTNERSHIP TASK VOLUMES



Serial No	Title	Action	Defra DWP Task No	Owner	Lead	Target Date
STG-001	Group Communications	Implement a group wide media solution to promote activities of the group		WCP	Kelvin Allen	Apr-20
STG-002	Officer Business Case	Create business case for funding for additional officer to implement and deliver the WCP plan	W-DWP011	WCP	Neil Punchard	Mar-20 Annually
STG-003	Financial Support	Explore grant structures and potential funding streams		WCP	Kelvin Allen	Apr-20
STG-004	WCP Governance	Agree Governance and financial model structures		WCP	Kelvin Allen	Apr-20
STG-005	WCP Measurement of Outcomes	Create a set of SMART measures to ensure all outcomes are measured and sustained		WCP	Cass Singleton	Jul-20
STG-006	Community Engagement	Scope the introduction of a river warden scheme with Parish Councils	W-DWP008 W-DWP011 W-DWP018	WCP	John Flowerdew	Aug-20

Serial No	Title	Action	Defra DWP Task No	Owner	Lead	Target Date
ECO-001	Invertebrate Base Status	Report on the gap analysis between the respective bodies reporting on Invertebrate status		WWG	David Harper	Apr-20
ECO-002	Invertebrate Base Reasons	Identify the reasons for variance and agree a way forward on measures for the river Wensum		WWG	Geoff Phillips	Apr-20
ECO-003	Invertebrate Monitoring Scope	Define and quantify the scale of a riverfly monitoring scheme for the river Wensum		WWG	Geoff Phillips	Apr-20
ECO-004	Invertebrate Monitoring Definition	Define a riverfly monitoring scheme for the river Wensum and agree volunteer engagement and training		WWG	Dennis Willis	Apr-20
ECO-005	Invertebrate Monitoring	Implement a riverfly monitoring scheme for the river Wensum		WWG	Dennis Willis	May-20
ECO-006	Habitat	Understanding the diversity of Habitats'		WWG	David Harper	Jun-20
ECO-007	Habitat Middle Reaches	Provision of 150 SqM of additional off channel habitat and refuge annually (Middle and Lower Reaches)	W-DWP-019	WWG	Jez Wood	Annually
ECO-008	Habitat Upper Reaches	Provision of 100 SqM of additional off channel habitat and refuge annually (Upper Reaches)	W-DWP-019	WWG	Jez Wood	Annually
ECO-009	Habitat Macrohytes	Summarise the SSSI designations and understanding of macrophytes (plants) across all reaches of the Wensum, building on the 6 year Natural England assessment period.		WWG	David Harper	Aug-20
ECO-010	Fish Densities	Understand all fish species to enable the identification of any aspect of ecology, pollution or morphology that has a detrimental effect on the health and welfare of River Wensum fish populations		WWG	Kelvin Allen Julia Stansfield	Jun-20

Serial No	Title	Action	Defra DWP Task No	Owner	Lead	Target Date
ECO-011	Fish Limnophilic	Identify any adverse conditions that undermine ...(habitat, pathway etc)... and make recommendations to the River Wensum catchment Partnership for rectification/referral of the issue as required		WWG	?	Dec-20
ECO-012	Fish Rheophilic	Identify any adverse conditions that undermine ...(habitat, pathway etc)... and make recommendations to the River Wensum catchment Partnership for rectification/referral of the issue as required		WWG	?	Dec-20
ECO-013	Fish Migratory	Identify any adverse conditions that undermine ...(habitat, pathway etc)... and make recommendations to the River Wensum catchment Partnership for rectification/referral of the issue as required		WWG	Jex Wood	Dec-20
ECO-014	Fish Predation	To introduce a plan on predation for the Wensum		WWG	Roger Gibbons	Dec-20
ECO-015	Non-Native Species Crayfish	Explore status and impact informed by other actions		WWG		Mar-21
ECO-016	Non-Native Species Balsam	Continue to co-ordinate Norfolk Non-Native Species Initiative to remove Himalayan balsam		NCC	Joe Kenworthy	Annually
ECO-017	Angling Access	Scope the provision of increasing sustainable angling provision		WWG		Apr-21

Serial No	Title	Action	Defra DWP Task No	Owner	Lead	Target Date	Funding Required
POL-001	Agriculture Diffuse pollution Cover Crops Long Term	Increase use of cover crops Aspirational aim: Green cover (including stubble and winter cash crops) across the whole catchment)	W-DWP005	WCP	Project Officer	2027	
POL-002	Agriculture Diffuse pollution Cover Crops Short Term	Increase use of cover crops Short term aim: additional 100 hectares (Needs Clarity)	W-DWP005	UWFCG	Lizzie Emmett	Nov-20	2500
POL-003	Agriculture Diffuse pollution Silttraps Long Term	Increase construction of in field silt traps including moving high risk field gateways (entrances) Aspirational aim: All high risk area identified by target date	W-DWP005	UWFCG	Project Officer	2027	
POL-004	Agriculture Diffuse pollution Silttraps Short Term	Increase construction of water interventions Short term aim: 2 new in-field silt traps in Upper Wensum Farm Cluster Group area	W-DWP005	UWFCG	Lizzie Emmett	Mar-21	
POL-004	Agriculture Diffuse pollution Silttraps Short Term	Increase construction of water interventions Short term aim: 2 new in-field silt traps outside the Upper Wensum Farm Cluster Group area	W-DWP005	WCP	Project Officer	Mar-21	
POL-006	Agriculture Diffuse pollution	Post-harvest cultivation Aspirational aim instigate mitigations options on high risk fields and demonstrate across the wider catchment	W-DWP005	UWFCG	Project Officer	2023	
POL-007	Agriculture Diffuse pollution Tramlining	Tramline and wheeling management Aspirational aim: Tramline and wheeling layout change and disruption across all arable land. Short term-aim: Tramline disruption on 100ha of winter cereals using free kit trials via WSF.	W-DWP005	NRT	Zak Brown	Dec-20	
POL-008	Agriculture Diffuse pollution Upskilling	Tramline and wheeling management Aspirational aim: Hold joint workshop in spring 2020 and promote use at 2019/2020 CSF and WSF workshops,	W-DWP006	NRT	Zak Brown	Dec-20	
POL-009	Agriculture Land Use Pilot	Scope a feasibility study on the implementation of change of land use using current and future farm payment schemes	W-DWP001 W-DWP004	WCCP	Andrew Alston?	Dec-20	
POL-010	Urban Pollution	Reduce urban pollution (industrial, commercial, residential areas) sources Visit commercial, industrial and residential premises and run educational campaigns To achieve 60% Reduced pollution from urban areas	W-DWP011	WCP	Project Officer	2027	

Serial No	Title	Action	Defra DWP Task No	Owner	Lead	Target Date	Funding Required
POL-012	Urban Pollution Assess Mapping	Undertake a risk mapping exercise using road network, slope and connectivity to water course to understand the relative risks from road run-off.	W-DWP009	WWG	Colin Howlett Tim Ellis Tim Venes	Mar-20	
POL-013	Urban Pollution Highways	Reduce pollution from Highways by 68% (acting as conduit/pathway for diffuse and urban pollution more than source)	W-DWP010	NCC		2027	
POL-014	Livestock Poaching Cattle	Reduce river bank and in-channel erosion caused by livestock trampling, invasive non-native species, and bad practice ditch maintenance a. Continue to promote fencing grants to landowners	W-DWP015	NRT	Zak Brown	2027	
POL-015	Livestock Outdoor Pigs	Reduce river encursion and run off caused by outdoor Pigs building on practice	W-DWP015	UWFCG		2027	
POL-016	STW P Removal	EA and Water Company to investigate reductions in phosphorus in wastewater discharges to meet long term limits. This will form part of the PR19 to review schemes to go into PR24 looking at options to reduce P coming out of wastewater discharges	W-DWP016	AWS	Rob Holland	2027	
POL-017	STW P Removal by Wetlands	Continue to do feasibility studies, landowner engagement and explore funding and (seasonal) consenting mechanisms for Constructed Wetlands from small water recycling centres (<1000? population equivalent)	W-DWP016	AWS	Rob Holland		
POL-018	Rural Pollution - Septic Tanks	Action on poor septic tank management/mis connections. Implement action on the findings of W_DWPP_007 Septic tank risk mapping,	W-DWP008	WCP	Project Officer	2023	
POL-019	Rural Pollution - Farming Practice	Investigate unconsented discharges from farms, for example specific farms with poor management practice e.g. Slurry pit/field corner management etc. when reported to Environment Agency or if officers identify issue during compliance or advisory visits or when identified during investigations into failing stretches. If the issue is significant then identify appropriate ways to tackle the issue.	W-DWP017	EA	Lisa Turner	2027	
POL-020	Rural Pollution - Unconsented urban discharges	Investigate and remedy unconsented discharges from the urban or industrial environment, for example e.g. misconnections etc when reported to Environment Agency or identified through investigations into failing stretches.	W-DWP018	EA	Lisa Turner	2027	
POL-021	Pollution Measures Correlation	Who is measuring what and where. Bring together all the measures into a single base to understand the gaps and additional needs		WCP	Project Officer	Mar-21	
POL-022	Rural Pollution - River Wardens	Engage with Parish Councils and local groups to build an urban pollution task force	W-DWP011	WCP	John Flowerdew	2023	