

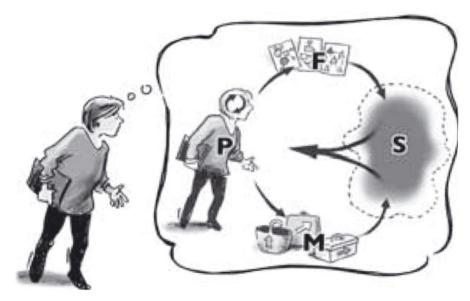


Towards systemic governance?

Partnerships for action in river basin planning and catchment governance

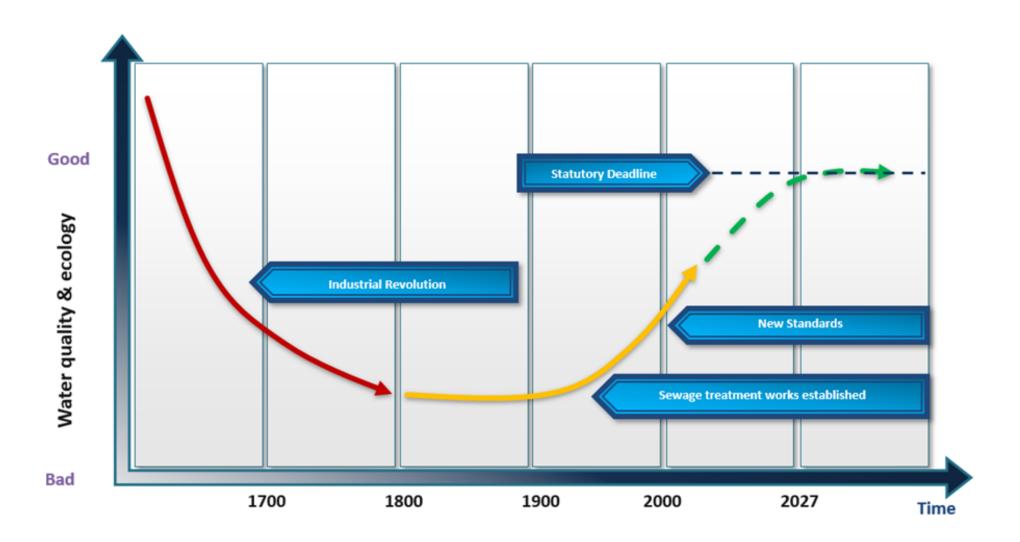
Contents

- Background and context for river basin and catchment governance in England
- Conceptual framework for action
- Methods of action
- Catchments = situation(s) for action
- So what...?
- What next...?



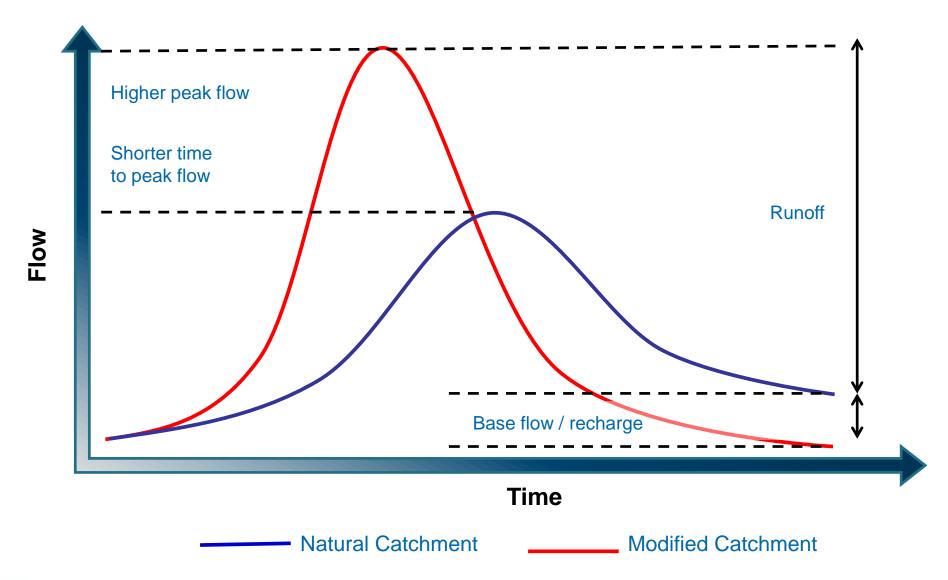
Source: Ison (2010)

State of the Water Environment



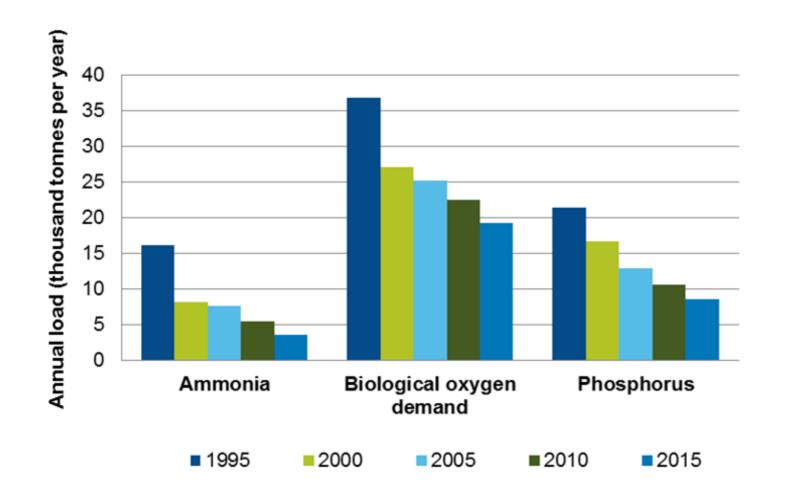


Hydrology



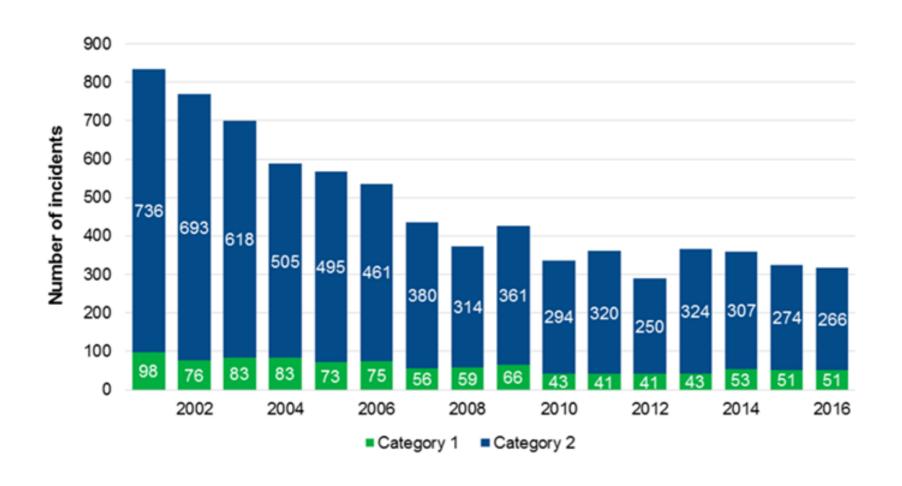


Pollutant loads to roads rivers from the water industry 1995 - 2015



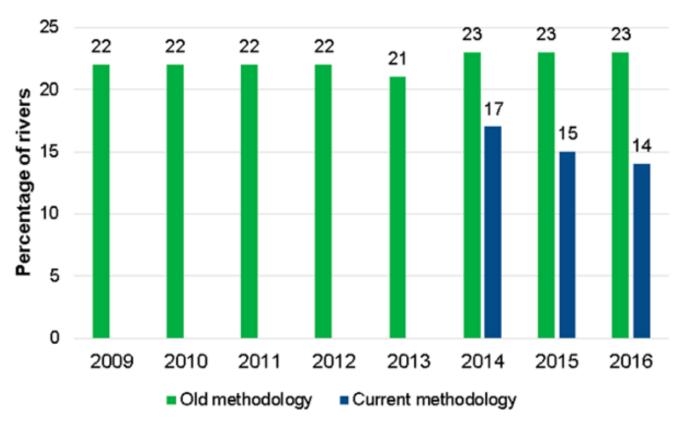


Serious water pollution incidents 2001 - 2016





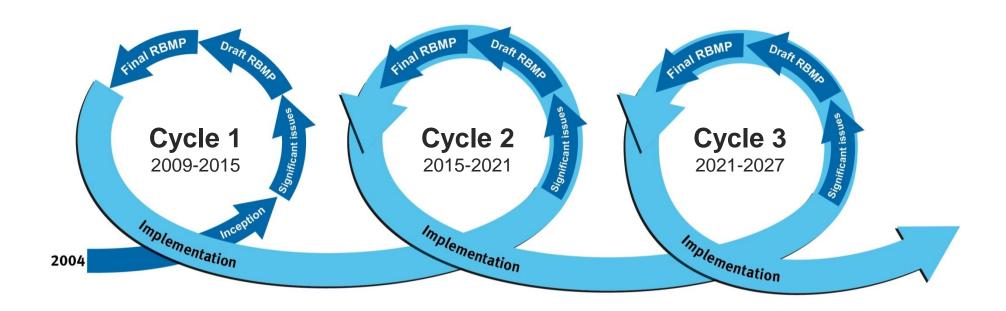
Rivers achieving good or better biological status 2009 - 2016



Note: Assessment methodology changed in 2014

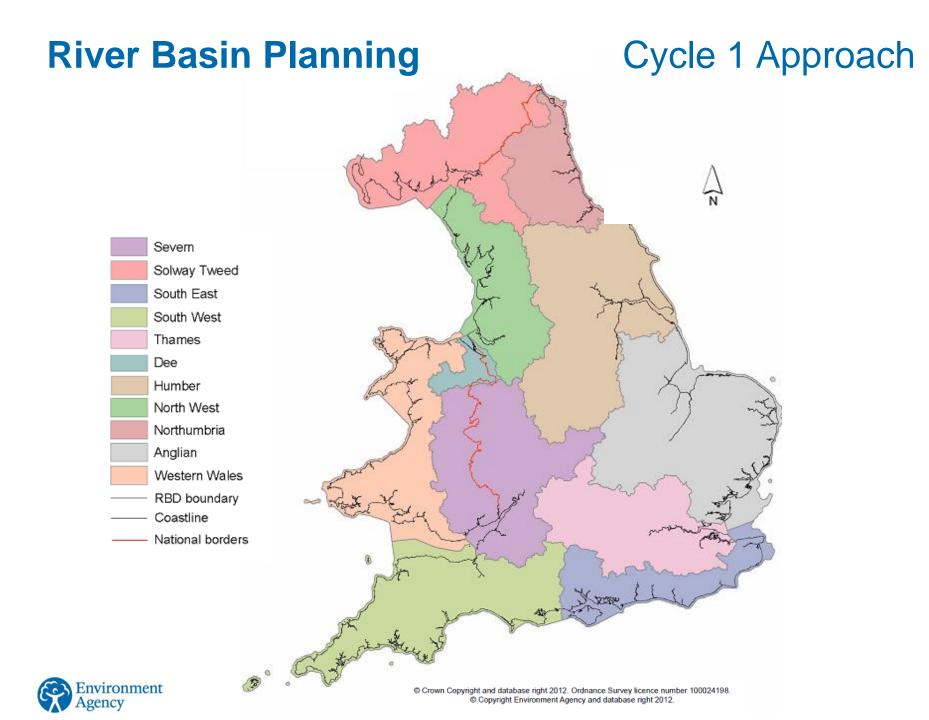


River Basin Planning



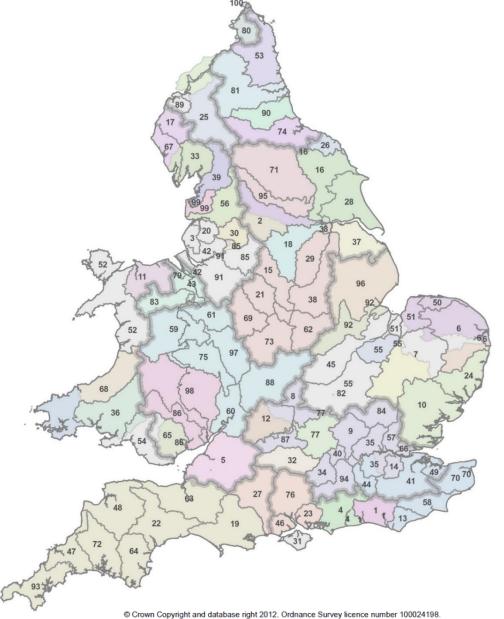
Statutory Framework: Plan-Do-Check-Review





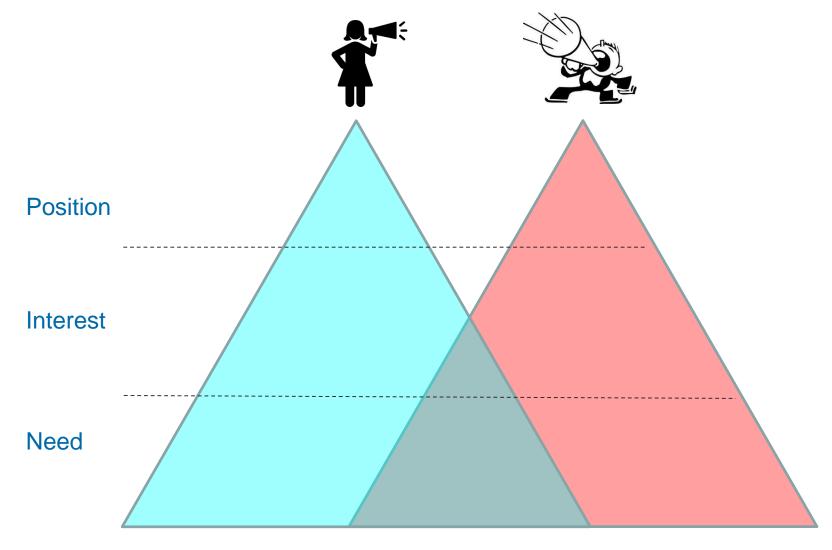
River Basin Planning

Cycle 2 Transition





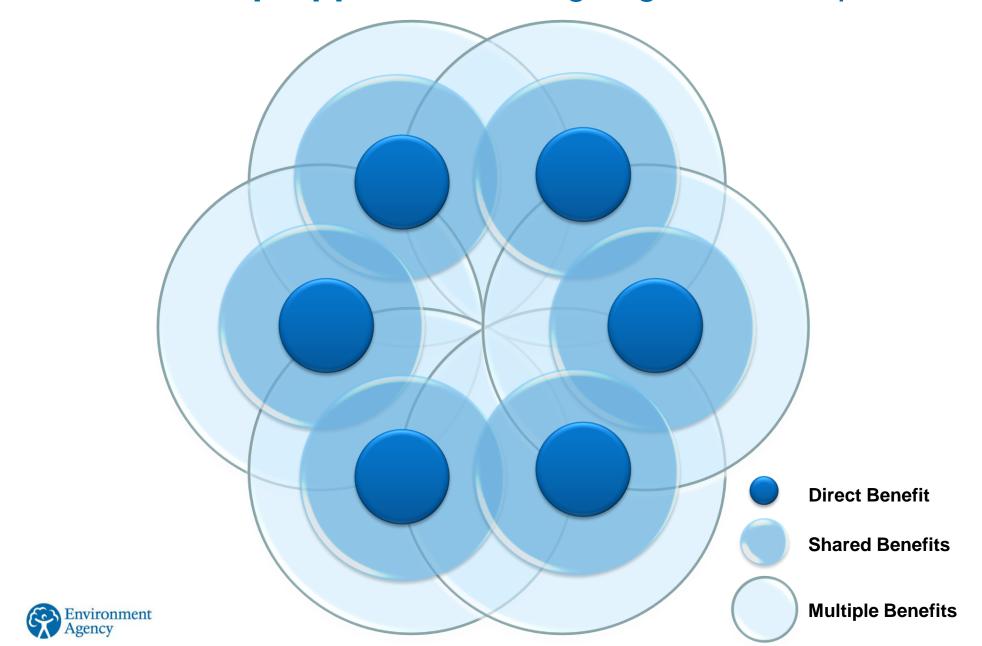
A Partnership Approach - Defining the Concept



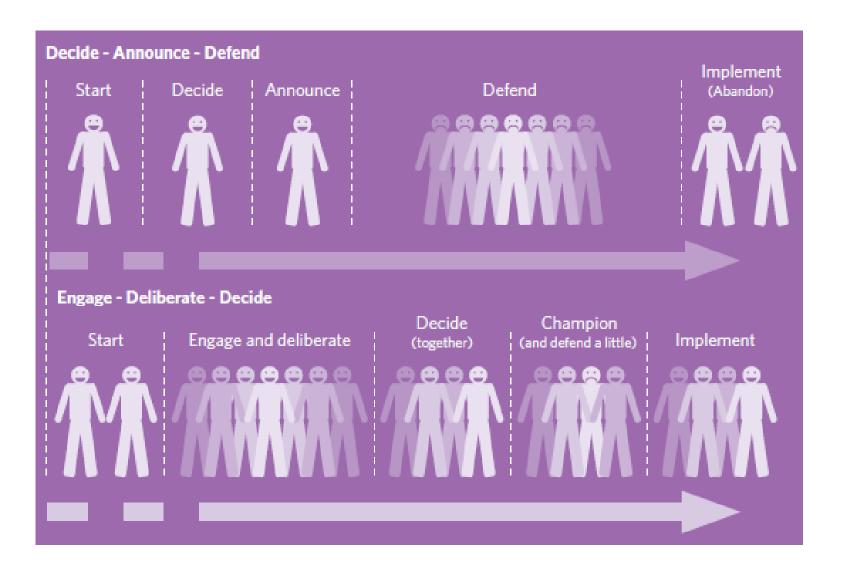
For a wise outcome reconcile interests and needs rather than positions



A Partnership Approach - Designing the Concept



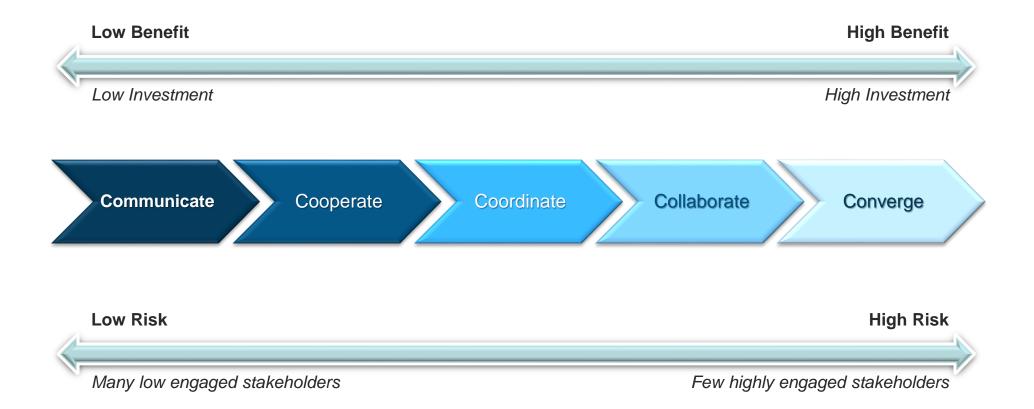
A Partnership Approach - Developing the Concept





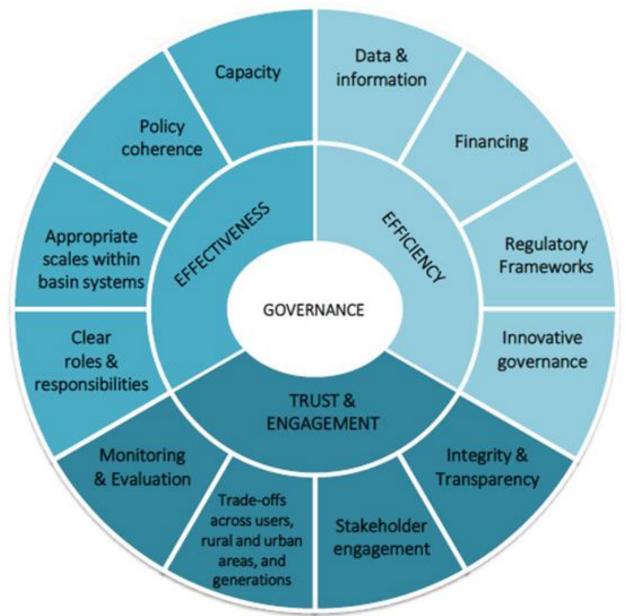
Source: Walker (2009)

A Partnership Approach - Delivering the Concept





Governance - Principles





Source: OECD (2015)

Catchment Data Explorer

Home Useful Links Help Glossary Contact us



Use the catchment data explorer to navigate to catchments and water bodies, view catchment summaries and download data. This site supports the consultation on the updates to the river basin management plans. You can get involved here. Show more »

Search by:	Place name:	
Place name	▼ E.g. Severn	Search

River Basin Districts

To get started select a River Basin District on the map or use the searches above.



Legend

River Basin District



Use the catchment data explorer to navi This site supports the consultation on th Show more »

Search by:	- 0	Place
Place name	•	E.g.

River Basin Districts

To get started select a River Basin Distr



Legend



Catchment Data Explorer

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arch by:		Place name:			
Place name	•	E.g. Severn		Search	

Severn

River Basin District

The Severn River Basin District has a varied landscape from the uplands of Wales, down through valleys and rolling hills, to the lowlands and the Severn Estuary. As well as the River Severn and its main tributaries, the Warwickshire Avon, and the Teme, the river basin district includes the rivers of South East Wales, including the Wye, Usk and Taff, and those of the South West, including the Bristol Avon, that drain directly into the Severn Estuary

The district is home to more than 5.3 million people, and includes the major urban centres of Bristol, Cardiff and Coventry. Much of the river basin is rural in character, with around 80% of the land managed for agriculture and forestry. This includes extensive beef and sheep farming, large dairy units, conifer plantations and some arable and specialist horticulture. While agriculture dominates the landscape it only makes up a small part of the economy, the main sectors being related to business, transport, health and industry.

The natural environment of the River Basin District is also valued for its navigational and recreation uses and is an attraction for the people who live and work here, in addition to the many visiting tourists. The district includes many important habitat and wildlife areas of national and International Importance. Most significantly, the unique environment of the Severn Estuary and its surrounding area are protected for their bird populations, habitats and migratory fish such as Atlantic salmon, lamprey and eel.

Photo credit: Nick Stewart





Management Catchments



Operational Catchments

Show	10	entries	Search:	
Name				÷
Arrow	Lugg and	Frome		
Avon	- Midlands	West		
Avon	Rural			
Avon	Urban			
Avons	mouth Mer	cla Mudstone		
Bath (Colife			
Bristo	Airport -	Carboniferous	Limestone	

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Place name	▼ E.g.

River Basin Districts

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Legend



Environment Agency

Search by:	Place name:		
Place name	▼ E.g. Severn		

Severn

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O

Photo credit: Nick Stewart



Management Catchments

Show 10 ▼	entries	Search:	
Name			-
Avon Bristol and	North Somerse	et Streams	
Avon Warwickshi	re		
Severn Middle St	ropshire		
Severn Middle W	orcestershire		
Severn Uplands			
Severn Vale			
South East Valle	75		

Catchment Data Explorer

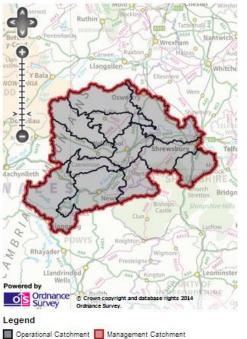
nks Help Glossary Contact us



Summary

Search by:		Place name:			
Place name	•	E.g. Severn			Search
Severn ▶ Severn Upl	ands				
Severn Upland	ds				
Management Catchi	ment		anowst o	Buthin Buckley	The Priester W

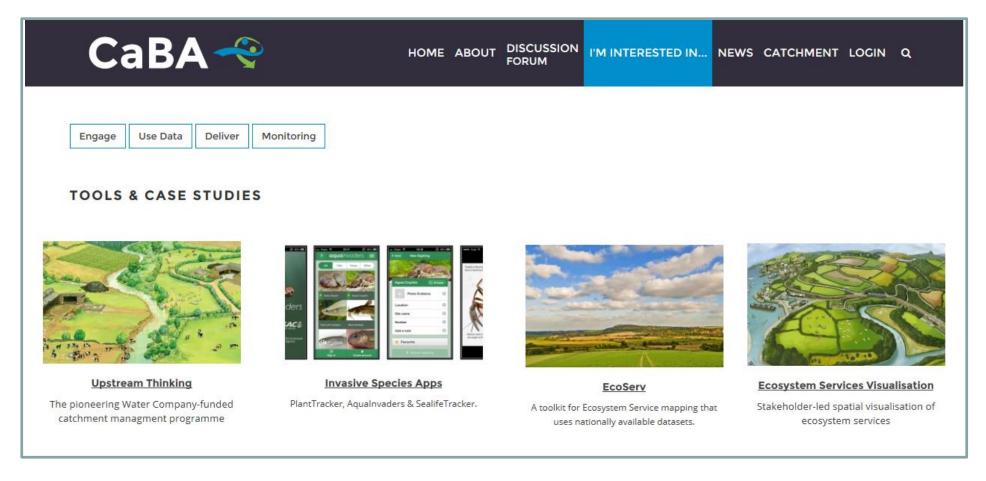




Operational Catchments

Show 10 ▼ entries	Search:
Name	*
Cound Brook	
Montgomery Canal	
Morda and Severn North Shropshire	
Rea Brook	
Severn Un Trannon Clywedon	

Building Capacity and Capability



https://www.catchmentbasedapproach.org/resources/tools-and-casestudies



Opportunities for Collaboration: PR19

Managing pollution and enhancing water quality, river flows and biodiversity and habitats.

Improving resilience of water company assets where they are at risk of flooding, coastal erosion and water outages.



Reducing flooding where the public sewer network is part of the source or pathway.

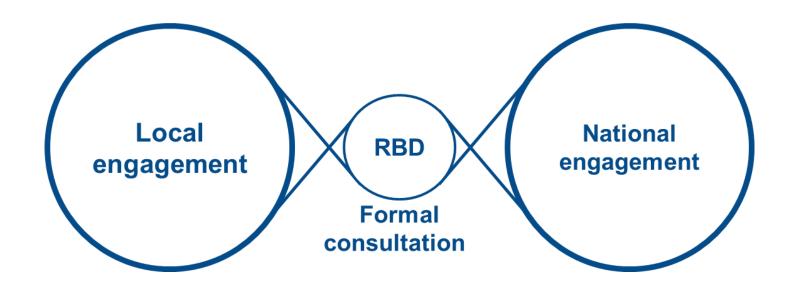
Creating capacity within water and wastewater networks and improving water efficiency to accommodate future development.



River Basin Management Plans

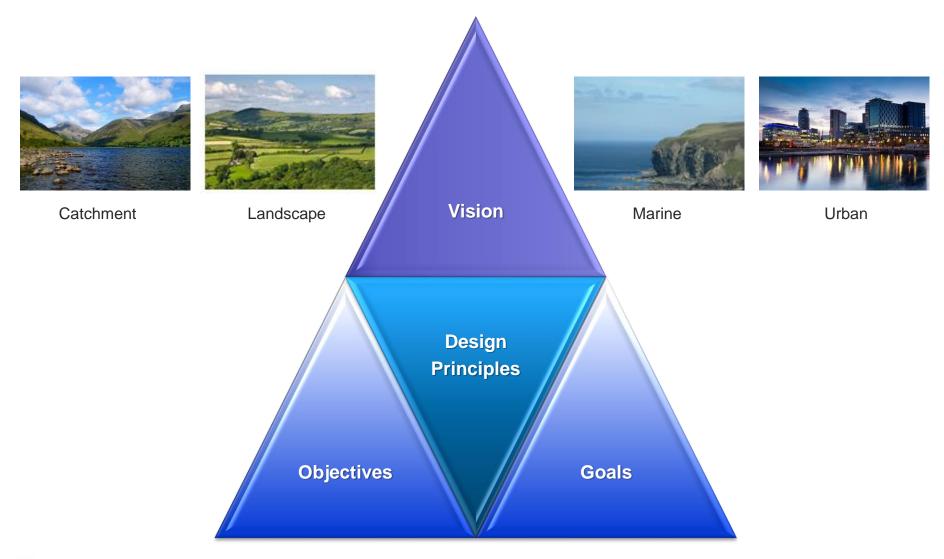
Review and update by 2021

Emphasis on engagement - increased role for catchment partnerships





Governance - Environment Pioneers

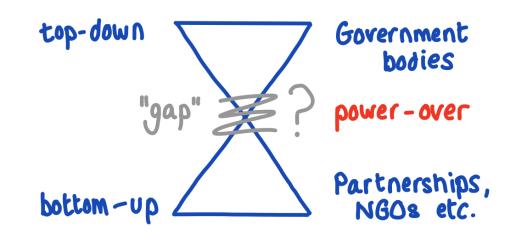




events CADWAGO governance learning



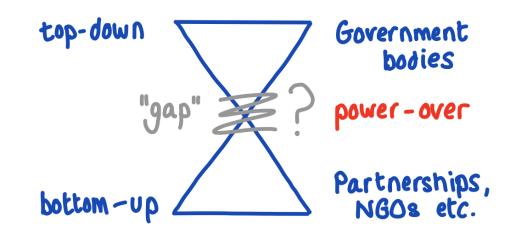
Current situation — "Mind the gap!"



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

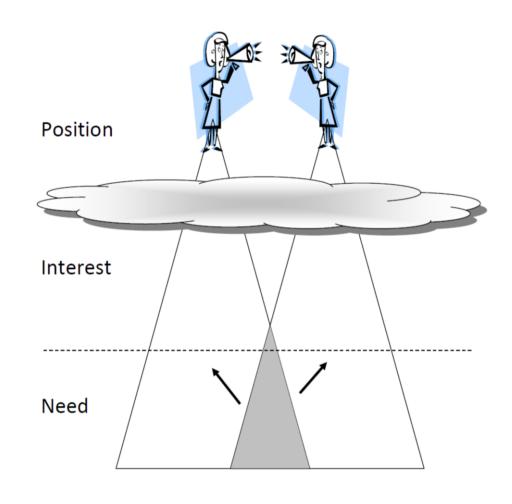
POSITION-BASED GOVERNANCE MODEL

Current situation



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

POSITION-BASED GOVERNANCE MODEL



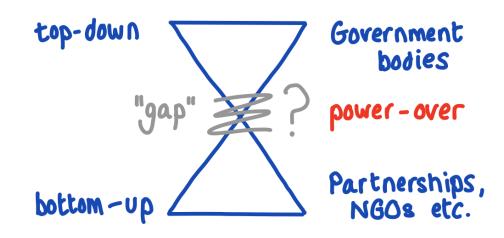
"For a wise outcome, reconcile interests, not positions."

Source: InterAct Networks (2012)

Current

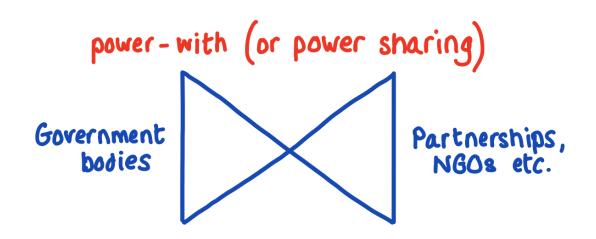
turn the model sideways

Future?



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

POSITION-BASED GOVERNANCE MODEL



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)

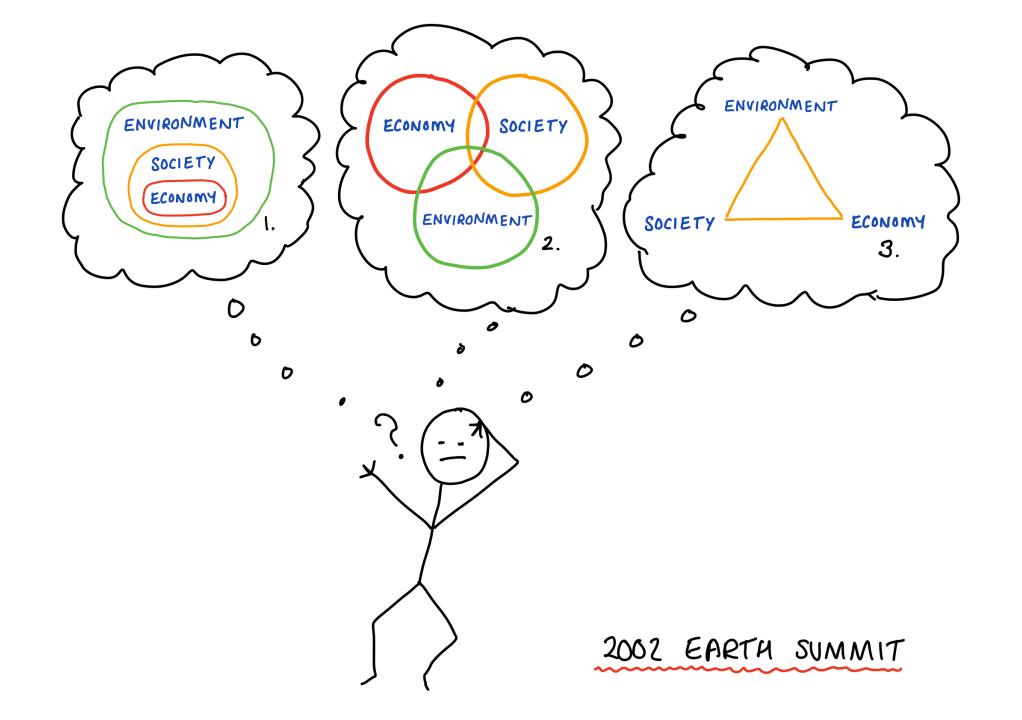
Conceptual framework for action

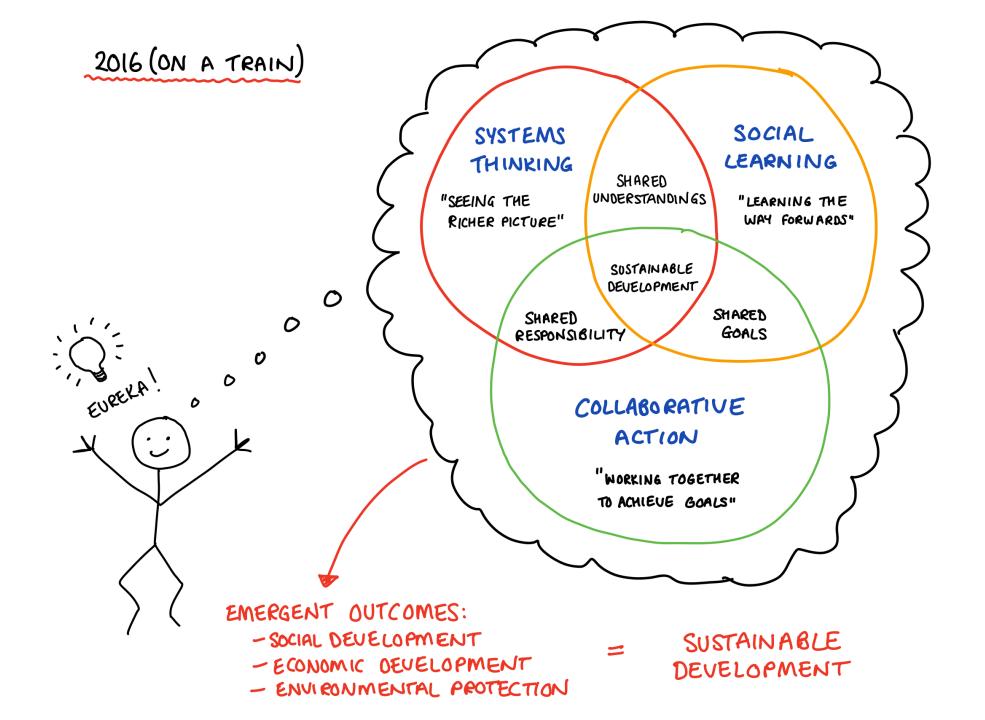


- Interest-based dialogue rather than position-based negotiation
- Need to begin by working out the must does, should does and could does...
- ...then how we can achieve them in the most efficient way (by sharing knowledge, skills, experiences etc.)
- Measures of performance should incorporate all of the above, not just environmental objectives (above and beyond GES!)

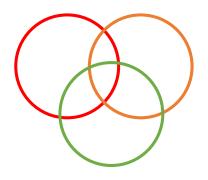
Re-defining the pillars of sustainable development

- Pillars of sustainable development set at 2002 world summit, but more than fifteen years later, there is still much to be done to achieve SD
- So what is the problem...?
- The scope of sustainable development is so great that it can not be achieved by any one individual or organization
- Requires working together across all scales and levels of governance
- Need to focus on the process of sustainable development (systems thinking, social learning, collaborative action) rather than the outcomes (social development, economic development, environmental protection)
- Sustainable development emerges from shared understandings, shared responsibilities and shared goals





Methods of action



• `doing' systems thinking, social learning and collaborative action in a partnership/forum-type context

• use diagrams, models, etc. as heuristics to learn the way forwards

need to integrate new and existing measures, e.g. Love Where You Live,
CaBA, primary/secondary/higher education with CaBA

Local integrated delivery emerges from the process ("doing more for less")

Pilot catchments = case studies

1. Identify catchments in NW River Basin District to work with (just one for now, expanding to more catchments in phase 2)

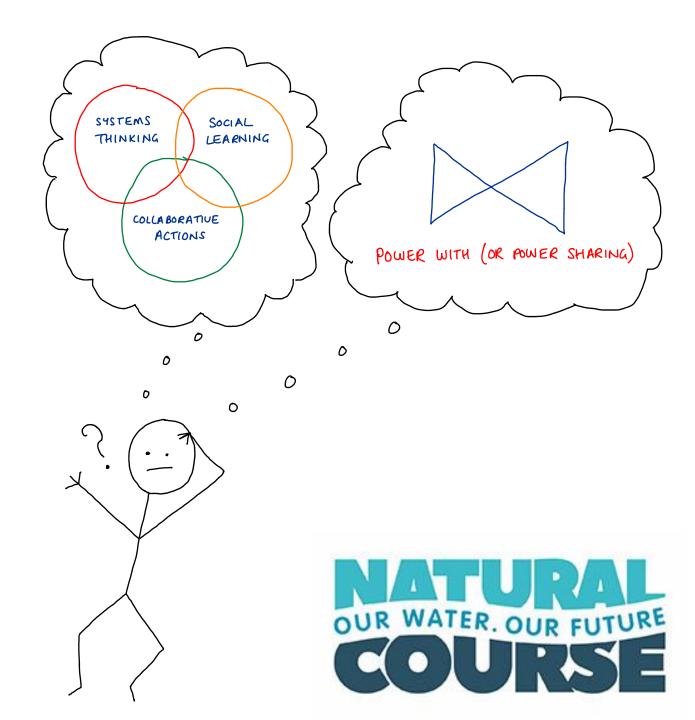
2. Compare current governance arrangements with conceptual framework and prepare recommendations

3. Develop phase 2 (putting recommendations into practice)



So what?

- Systems thinking
- Social learning
- Collaborative actions
- Governance structure

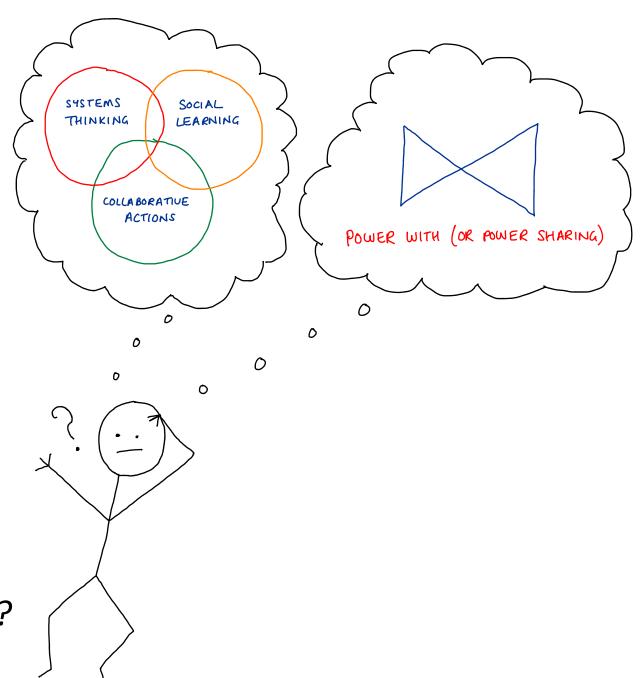


What next?

1. To what extent are you doing systems thinking, social learning and collaborative actions?

2. And in what context and governance structure?

3. How can you **better engage** with people in your catchment?



Thank You

Damian Crilly, Environment Agency



Natalie Foster, The Open University

