

# Sustainable Water Movement System Map

- legislation / Policy
- Strategies / Plans
- Projects / Initiatives
- Goals / Purpose
- Governance
- Knowledge
- Collaborative Organisations
- Business
- Community

	Rural Land Management			Flood Risk Management			Urban Land Management				Coastal
	Climate/Nature	Forestry	Farming	Reduce Flood Risk			Water / Sewage	Infrastructure	Development	Business	
<b>Reputations at Risk</b> Visibility & Popularity	Met Office, Natural England, Environment Agency	Forestry Commission	DEFRA	European Commission, Internal Drainage Boards, County / Unitary Councils, District Councils, Parish Councils	Cabinet Office, HM Treasury, Lead Local Flood Authorities, Regional Flood and Coastal Committees		OFWAT	Highways Agency, Department for Transport	SuDS Approving Bodies	DCLG	Regional Flood and Coastal Committees
<b>Governance</b> Effectiveness & Value for Money	Working with natural processes to reduce flood risk - EA			Local Flood Risk Research Framework, Reservoir Safety Research Strategy						Coastal Research, Development and Dissemination (CoRDD) research framework	
<b>Legislation / Policy</b> Clear & actionable	Wildlife & Countryside Act (1981), Environment Act (1995), Climate Change Act (2008)	Water Framework Directive (2003), The Natural Environment and Rural Communities Act (2006), Strategic Environmental Assessment Directive (2001), Conservation of Habitats and Species Regulations (2010)	Birds Directive, 1979, Habitats Directive, 1992, European Eel Regulation, 2007, Eel regulations, 2009	Land Drainage Act (1991), Floods Directive (2007), Flood Risk Regulations (2009), Flood & Water Management Act (2010)	Making Space for Water (2004), Pitt Review, Flood and Coastal Erosion Risk Management (FCERM) strategy, Strategic Flood Risk Assessments, The national flood and coastal erosion risk management strategy for England (2011)	Civil Contingencies Act (2004), Health Act (2009)	Reservoirs Act (1975), Water Industry Act (1991), Water Resources Act (1991)	Highways Act 1980	National Planning Policy Framework (2012), Building Act (1984)		Coastal erosion risk management authorities
<b>Strategies / Plans Reports</b>	UK Climate Risk Assessment, Biodiversity 2020, Making spaces for nature	Catchment Flood Management Plans, River Basin Management Plans, Water framework directive mitigation measures manual	Woodlands for Water (2011), Forestry & Woodland Statement								UK FCERM R&D Strategy, FCERM Strategy for England, FCERM Strategy for Wales, Shoreline Flood Management Plans
<b>Knowledge</b>	Geophysics, Cartography, Modelling	River catchment projects	Ag & Forestry Schools	STARFLOOD, FloodSite, Flood Hazard Research Centre	Universities, Economists			Drainage & highways engineers, Planners, Urban designers, Architects, Landscape architects			Media
<b>Collaborative Organisations</b>	UKCIP, UK Climate Impacts Programme, The Chartered Institution of Water and Environmental Management	CIWEM, The Chartered Institution of Water and Environmental Management	Institute of Chartered Foresters, Royal Forestry Society, Confederation of Forest Industries, Country Land & Business Association, National Farmers Union	The Association of Drainage Authorities	The National Flood Forum, Association of British Insurers, Insurers, Re-Insurers, Flood Re Scheme		UK Groundwater Forum	CRIA, SuDSsource, Susdrain	Town and Country Planning Association, Local Government Information Unit	Local Government Information Unit	Local Enterprise Partnerships
<b>Livelihoods at Risk</b> <b>Business</b> Economic Health, Housing supply	Outdoor Recreation & Tourism	Forestry	Farmers				Water / Sewer Companies	Railway Companies, Electric Utilities, Maintenance Contractors	Property Developers, Landlords		Banks & Finance, Local Businesses, Seaside Recreations & Tourism, Shipping Fishing Boating
<b>Amenities &amp; Quality of Life</b> Community Health & Cohesion, Wellbeing											
<b>Communities</b> People at Risk	Environment Organisations, RSPB, Wildfowl & Wetlands Trust, The Wildlife Trusts	Rural Communities & Community Groups	Livestock, Crops		General Public, Emergency Response (Police, Fire, Local Resilience Forums)		Consumer Council for Water		Housing Associations	Home Owners, Renters, Urban Communities & Community Groups	
<b>Assets at Risk</b> <b>Built Environment</b> Liveability	Facilities, Trails	Logging / Access Roads	Machinery, Farm buildings, Fencing		Critical Buildings - Hospitals, Public Safety, Power		Water System, Sewer System: Combined Separate	A-Roads, Local Roads, Railways, Bridges	Power Generation, Power Distribution	Houses, Flats	Business Facilities: Commercial, Industrial, Harbours, Ports
<b>Hard Technology</b>	A			Barriers - Levis, Channels, Retaining walls	Weirs, Sluices, Flow Directors, Pumping Stations		Sewage Treatment Systems			Building defences, Maintenance of existing structural measures, Property-level resistance and resilience	Coastal defences
<b>Sustainable Technology</b> Low-resource, Low-carbon, Multiple benefits	B	Rural sustainable drainage, Scrapes, swales and wetlands	Woods, Woody debris, Moorland grip-blocking, Field drain and under-drainage blocking, Land use change or buffer strips	Farming technology & practices: Soil management, Contour ploughing, Reduced stocking levels, Fencing/ stock access, Hedgerows	Flood storage areas, Floodplain woodlands, Floodplain reconnection, Vegetation & sediment management, Prevent blockages		Two-stage channels, River bed raising / riffles, Re-meandering straightened rivers or reconnecting historic meanders, Removing or re-engineer redundant in-stream structures that restrict flow	Living Machine' water treatment, Surface-foul water separation		SuDS: Sustainable Drainage Systems, Infiltration & Retention, Urban flood corridors	Protect natural estuarine and coastal defences, Managed realignment of walls or embankments that disrupt natural processes

Sustainability / Resilience / Multiple Benefits

