



The Norfolk Water Strategy Stakeholder Workshop – 25th February 2021

Welcome and Introduction

Henry Cator OBE

Independent Chair

Water Resources East

Councillor Andrew Jamieson

Cabinet Member for Finance

Norfolk County Council

Our agenda for today



14.30: Welcome and opening words

Henry Cator, WRE Chairman, Cllr Andrew Jamieson, Norfolk County Council

14.45: How does this programme fit with WRE's overall activities? - Robin Price, Managing Director, WRE

15.00: An introduction to Water Funds and collective action mechanisms for water security

Sophie Trémolet, Europe Water Sector Director

Justus Raeppe, Conservation Finance Lead, The Nature Conservancy

15.20: Water management issues and opportunities for the county of Norfolk - Philippa Cross, Environmental Scientist, Infrastructure, Atkins

15.35: Q&A with the audience (Robin Price to facilitate)

15.50: 10-minute break

16.00: Collective action mechanisms for water security from around the world

Partnership to address water scarcity issues: Upper San Pedro Partnership Arizona – Brooke Bushman, TNC Arizona Water Projects Coordinator

Partnership to address water quality issues: Chesapeake Bay – Mark Bryer, TNC Director of Chesapeake Bay Program

Cuenca Verde Water Fund in Medellin – Felipe Guerrero Palacio, Cuenca Verde Director

16.30 Q&A with the audience (Sophie Trémolet to facilitate)

16.50 Initiatives featuring nature-based solutions in the county (identified to date) Rachel Dyson, Head of Engagement and Communications, WRE

17:05 What happens next: Overview of proposed governance arrangements - Robin Price

Overview of workplan and associated workstreams – Sophie Trémolet

17:20 Thank you and closing remarks - Steve Moncaster, Technical Director, WRE and Henry Cator, WRE Chairman



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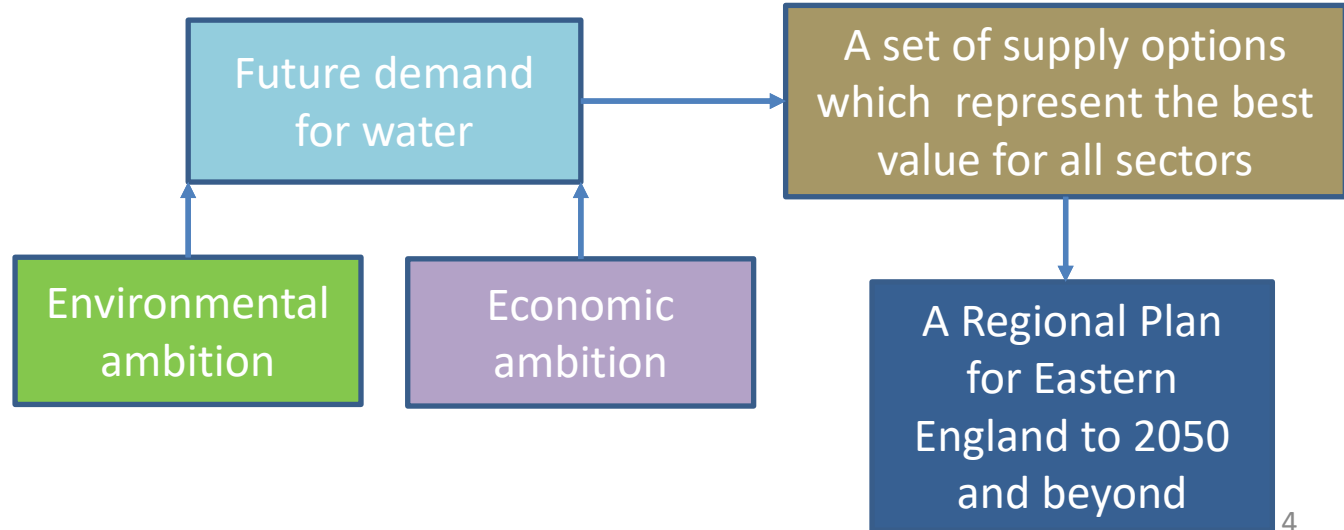
Dr Robin Price

Managing Director

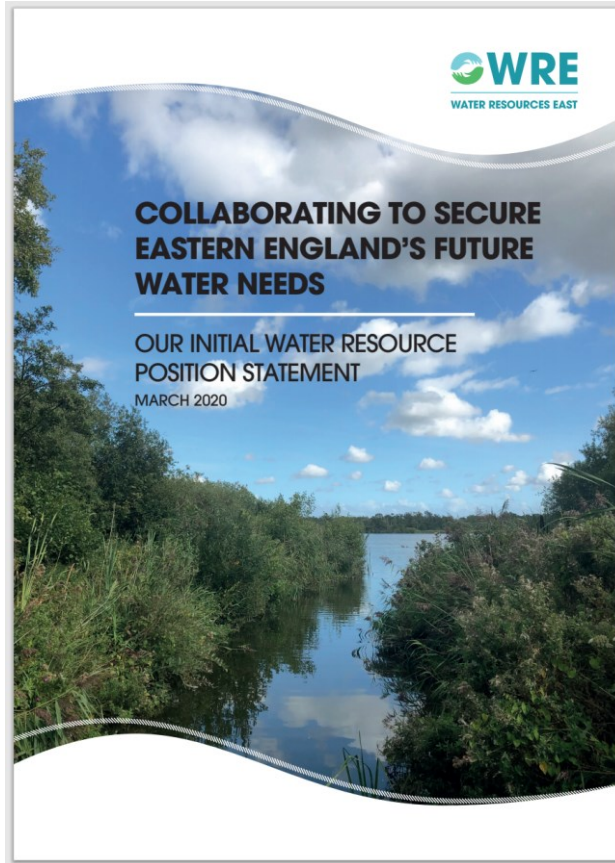
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Regional Water Resources Planning

Meeting our Future Water Needs:
a National Framework for
Water Resources

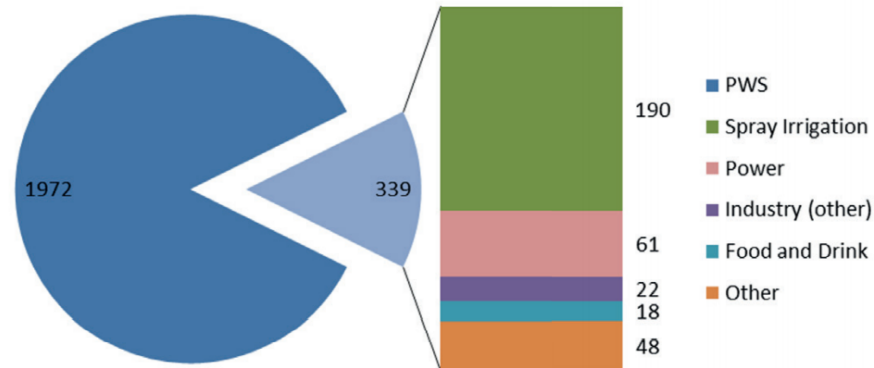


What is the problem we're trying to solve?



BASELINE (2020/21):

On an average day, in a dry year, the total consumptive demand for water in the WRE region is equivalent to 2,311 million litres (megalitres) per day. Most of this water (85%) is used for public water supply (PWS). Most of the rest is used for spray irrigation (8%), power generation (3%) and in the manufacturing, food and drink sectors (2%). A breakdown in megalitres per day (ML/d) is given below:



Eastern England in the 2050s.....

Sector	Pressure	Dry Year Annual Average Estimated Impact (Ml/d)		Comment
		Lower	Upper	
Public Water Supply	Climate Change	54	180	Includes range of possible high/low climate change impacts - mostly on reservoir yields
	Sustainability Reductions	139	500	Upper limit accounts for indicative levels of enhanced environmental ambition
	Growth (population)	159	408	Upper limit accounts for maximum possible build-out rates in OxCam Arc and failure to make significant progress with planned demand management measures
	Drought resilience	88	88	Note: methodology uncertainties which are subject to work in progress
	Regional exports	(-)	(-)	Unknown at this stage, although 100 Ml/d export is currently assumed for work on the South Lincolnshire Reservoir scheme
Power	Decarbonisation	17	192	Assumes rapid transition to Hydrogen economy with 20% of the national production in WRE region
Agriculture	Growth (irrigation)	74	288	Based on range of plausible growth factors for spray irrigation in the WRE region
Total		531	1,656	



WRE's 3 Year Business Plan – published June 2020

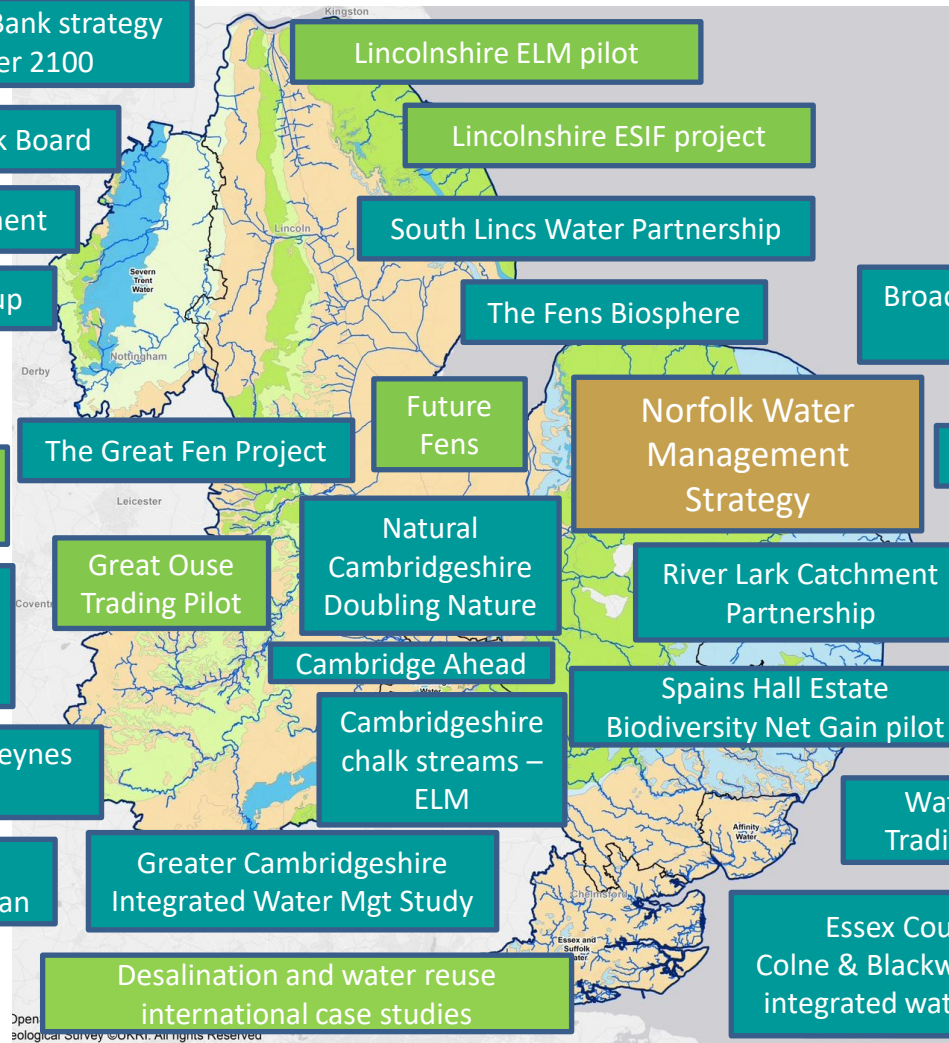
BUSINESS PLAN 2020 -2023

WRE VISION

WRE's vision is for Eastern England to have sufficient water resources to support a flourishing economy, a thriving environment and the needs of its population, and for the region to be seen as an international exemplar for collaborative integrated water resource management.

WRE'S OVERARCHING REGIONAL STRATEGY FOR EASTERN ENGLAND

- 1 Work with all water users in Eastern England to identify ways in which they can become as water efficient as they can be.
- 2 Promote the need for additional storage of water within the landscape, increasing resilience for all water users and seeking to identify multi-sector opportunities to link water scarcity with flood risk management solutions.
- 3 Transfer water from areas of surplus to areas of deficit, increasing connectivity using both open water channels as well as pipelines.
- 4 Link land and water management more effectively, increasing resilience and restoring and enhancing the natural systems and resources on which all abstractors depend.
- 5 Understand where abstraction is having a detrimental impact on the environment, and develop options which restore and enhance it whilst ensuring sustainable economic development, for example around agriculture and food production.
- 6 Actively explore other potential sources of water for our region, for example desalination and water re-use.
- 7 Contribute to low carbon strategies and plans, helping the region to meet a net zero ambition.



South Humber Bank strategy
and Humber 2100

Lincolnshire ELM pilot

North Lincolnshire Flood Risk Board

Lincolnshire ESIF project

Idle and Torne Priority Catchment

South Lincs Water Partnership

River Trent Working Group

The Fens Biosphere

Multi Objective Robust
Decision Making

Integrated Environmental
assessment

The Great Fen Project

Future
Fens

Norfolk Water
Management
Strategy

Broadland Catchment
Partnership

Hydrogen East

‘Water For
Tomorrow’
The Broads
East Suffolk
Rivers
CamEO

Golf and wider leisure
sector demand
management

Great Ouse
Trading Pilot

Natural
Cambridgeshire
Doubling Nature

River Lark Catchment
Partnership

Suffolk Holistic
Water
Management

East Suffolk
Catchment
Partnership

The Bedford Milton Keynes
Waterway Park

Cambridge Ahead

Cambridgeshire
chalk streams –
ELM

Spains Hall Estate
Biodiversity Net Gain pilot

Water Source
Trading Platform

Systematic
Conservation
Planning

Ox Cam Arc
Natural Capital Plan

Greater Cambridgeshire
Integrated Water Mgt Study

Essex County Council
Colne & Blackwater catchments
integrated water management

Exemplary Water
Communities

HR Wallingford
research programme

Desalination and water reuse
international case studies



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WRE

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Next steps.....

Dr Robin Price

Managing Director

Water Resources East

Sophie Tremolet

Europe Water Security Director

The Nature Conservancy



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Draft governance structure



3 'layers' proposed:

- Core Programme Partnership Group
- Steering Committee
- Advisory Group

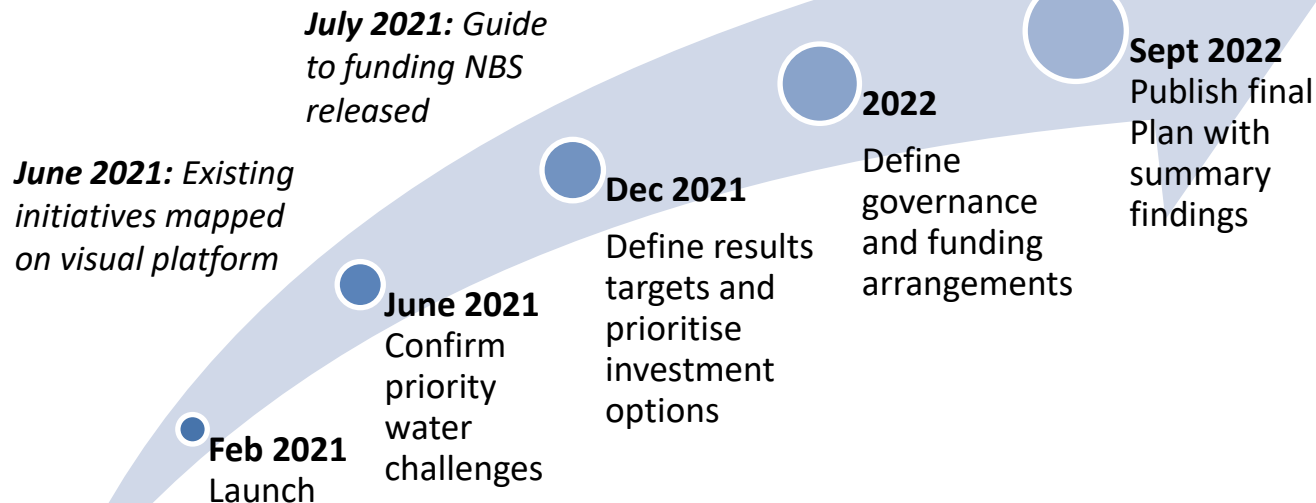
Terms of Reference for each group are being prepared.

The first Steering Committee meeting will be held in March.

The next Advisory Group meeting - tbc



Key dates going forward



Governance and funding platform established

IMPLEMENTATION



Workstreams





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Closing remarks

Dr Steve Moncaster

Technical Director

Water Resources East

Henry Cator OBE

Independent Chair

Water Resources East