

Water Resources East

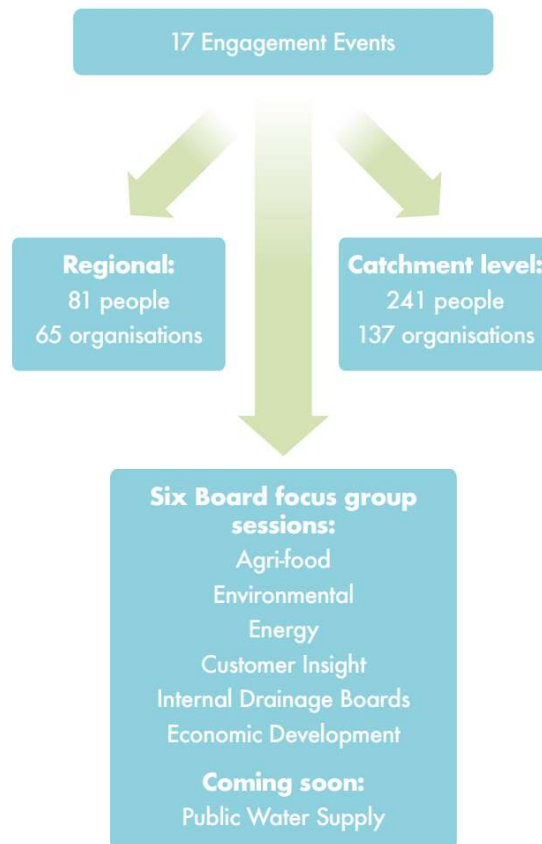
Emerging Water Resources Regional Plan

Daniel Johns, Managing Director

For Essex Flood Partnership Board

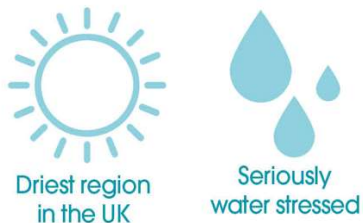
26 January 2022

Reminder of our process and engagement to date

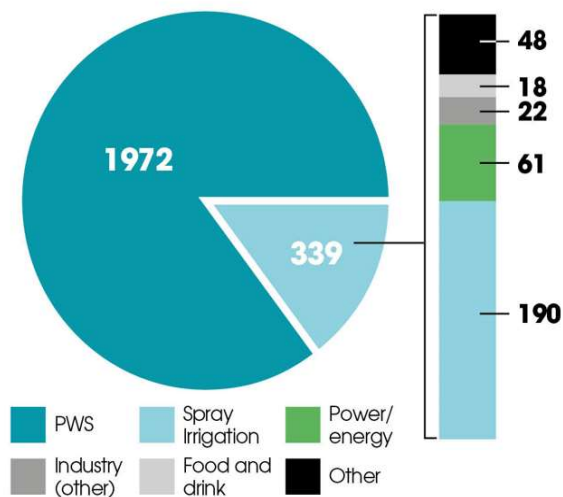


- **2x Board/Technical Delivery Group Planning Conferences**
- **2x Strategic Advisory Group member training sessions**
- **3x Regional Planning Conferences**
- **4x Local Focus Catchment Workshops**
- **6x Board Focus Group sessions**
- **New agriculture and energy technical focus groups being formed**

Eastern England is...



How water is used in Eastern England today

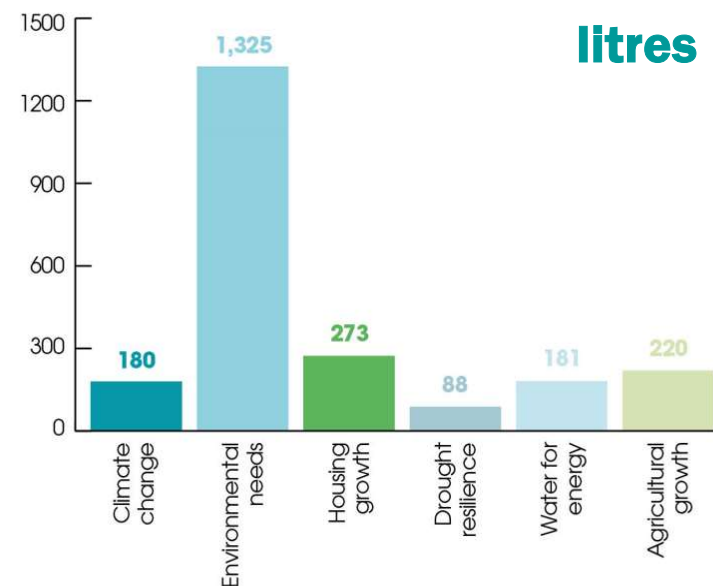


Average daily water consumption in our region is currently estimated at

2,311
million litres

Potential additional water needs in 2050

2,267
million
litres

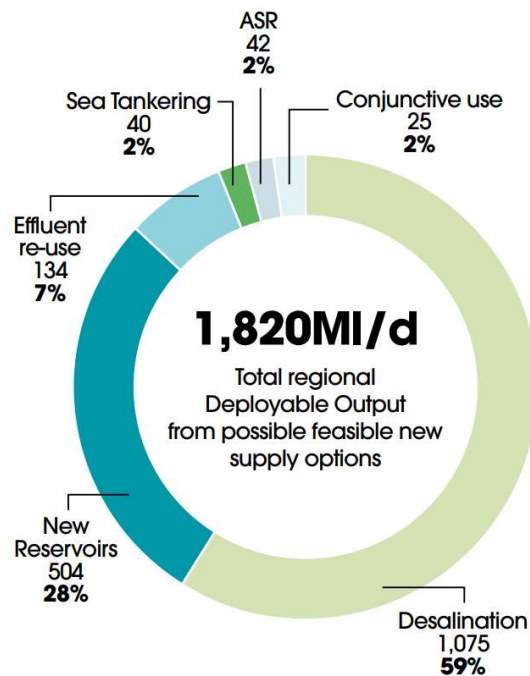


Demand management options:

296 MI/D by 2050:

- Assumes 50% reduction in leakage
- Per Capita Consumption (PCC) of 120 litres / p / d
- More multi-sector and non-household work needed!

Supply options:



368 MI/d

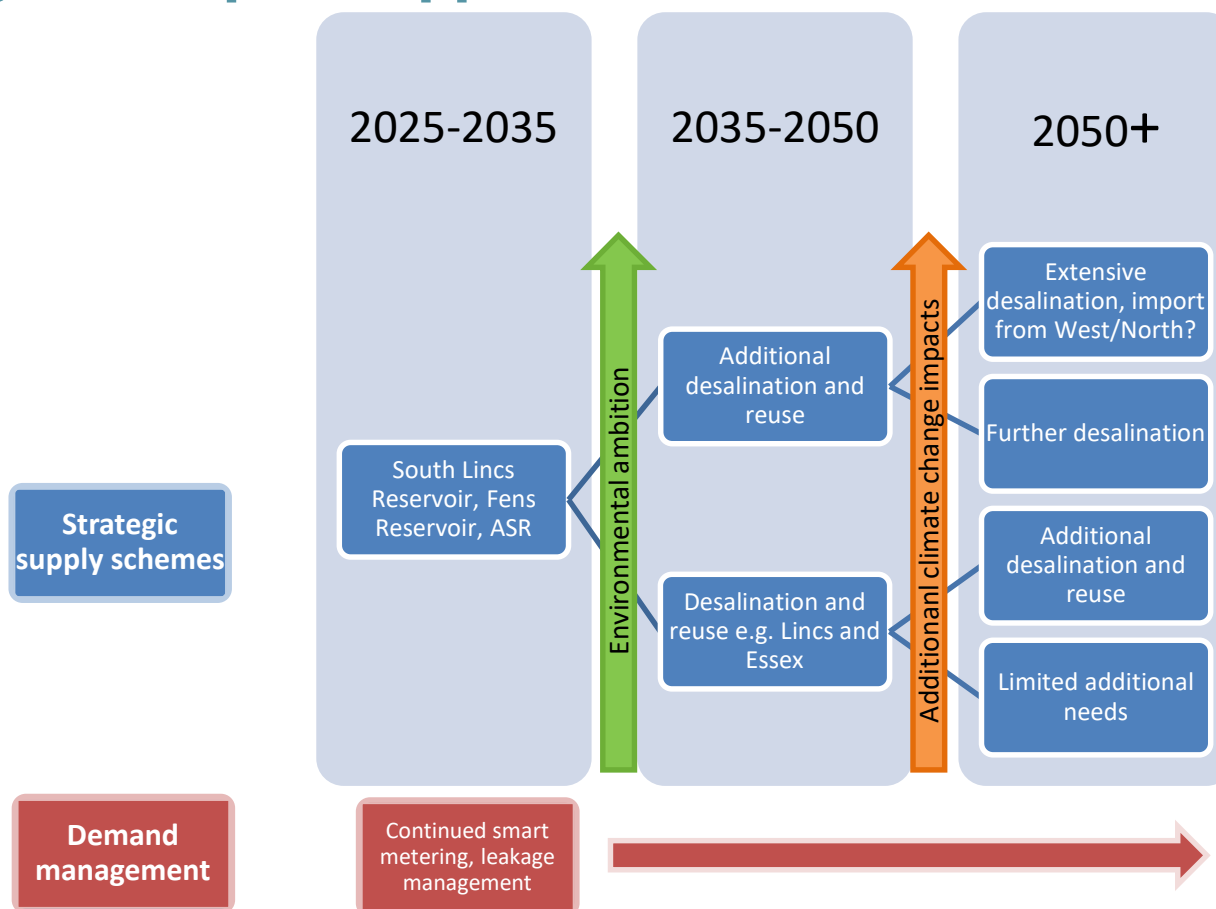
Supply-side options



'Low regret' options



Taking an adaptive approach

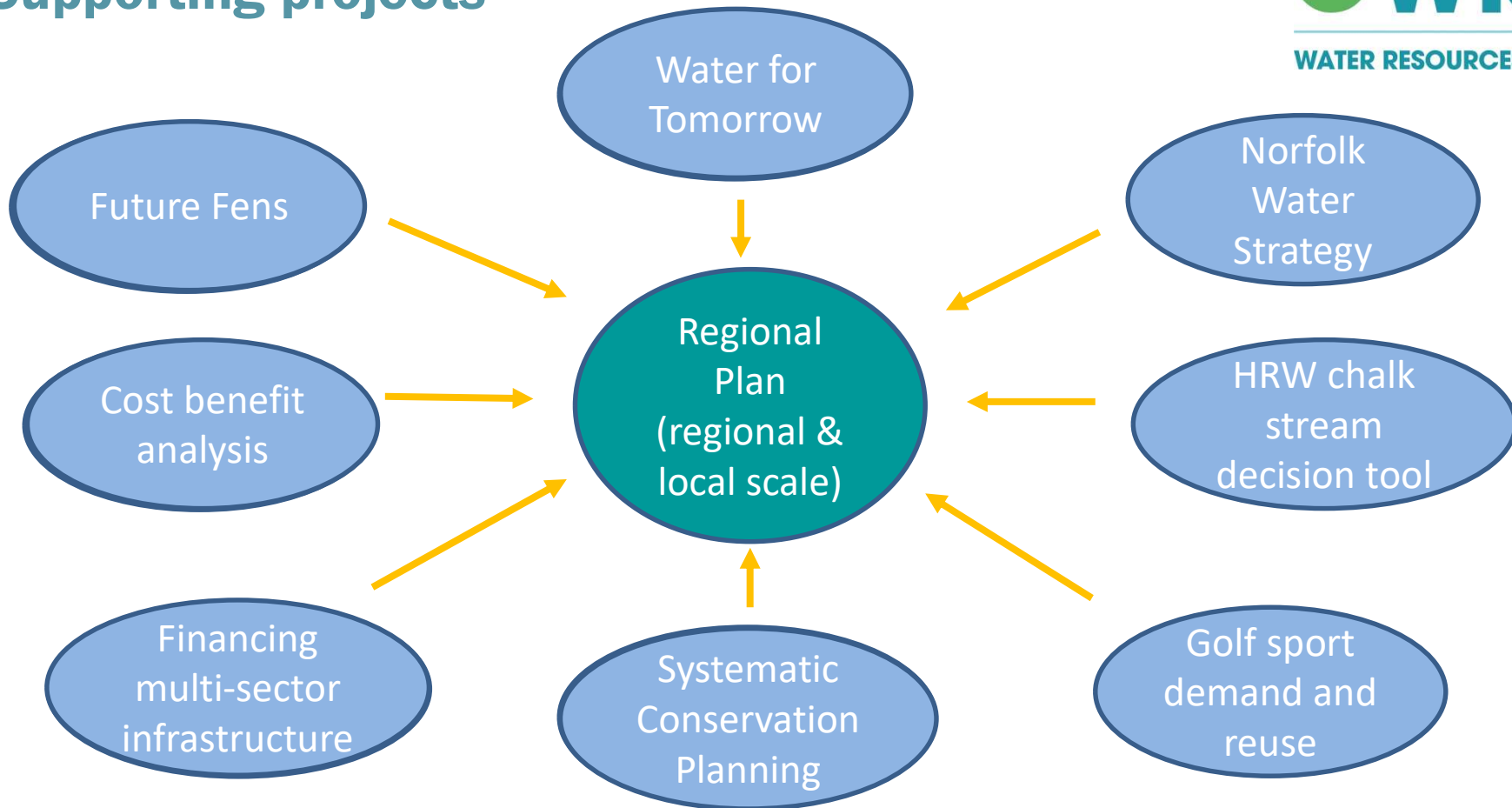


Further areas of clarification and understanding



- **Short-term water resource deficits in agricultural supply**
- **Need for environmental restoration, protection and enhancement**
- **Agri-food and energy sectors' water need forecasts**
- **Housing growth scenarios in a number of areas**
- **Emerging risks and challenges arising from licence abstraction and reform**
- **Local/catchment water needs/desires across sectors**
- **Innovative measures/pilots**

Supporting projects



Essex – a local water management study or pilot?



- **Early days but would be good to further develop local catchment approaches in Essex**
- **Scope need refining....!**
 - **Local flood risk management strategy**
 - **Demand management and efficiency?**
 - **Delivering large scale infrastructure - considering their impacts and delivery mechanisms**
 - **Climate change mitigation and adaption**
 - **Links to Local Nature Recovers Strategies and nature-based solutions**
- **Engagement with District Councils and Essex and Suffolk Water will be key**
- **Anglian Water to put in some funding but further funding likely to be needed**

Summary points of the emerging plan



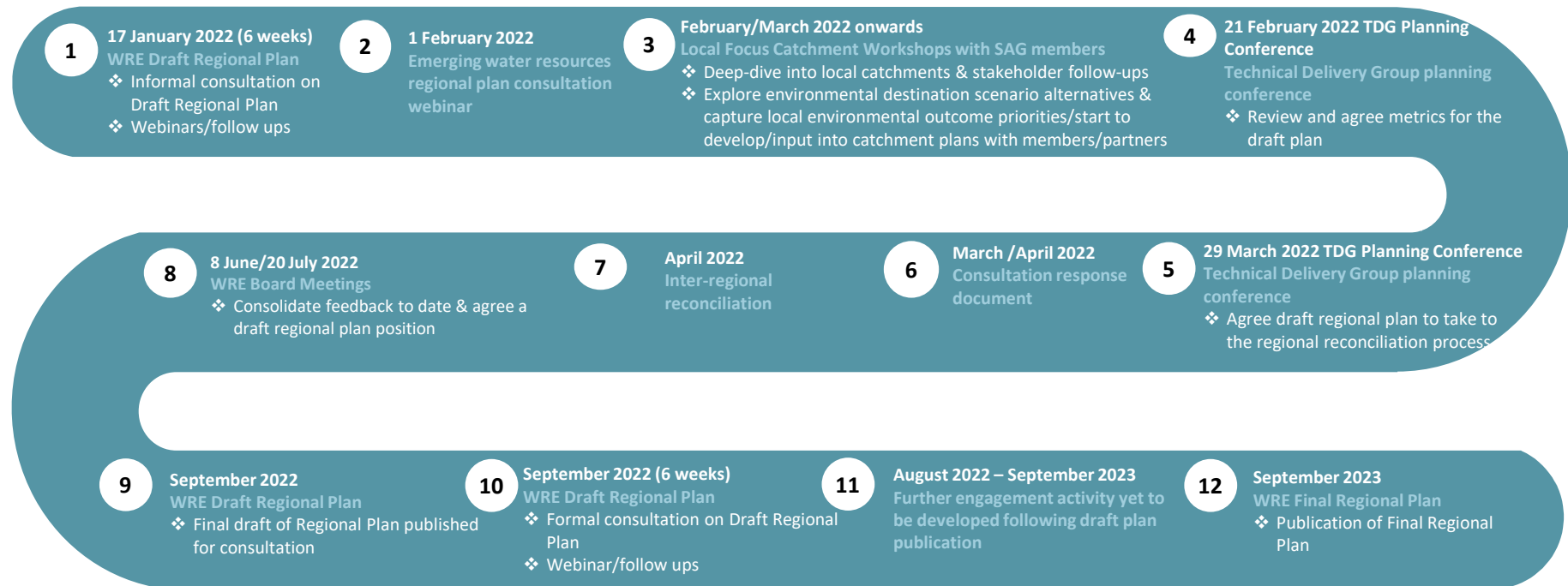
- **There is a water crisis today, it is short of water now and if nothing changes that shortage will get worse**
- **We are predicting that by 2050 the region could require around double the amount of water currently used today – additional 2,267 million litres per day**
- **This future demand for water cannot be met through water efficiency and demand management measures alone**
- **Significant new infrastructure will be required, we are progressing the no/low regret actions first eg South Lincs and Fens reservoirs**
- **Further work is needed through to the final plan in autumn 2023 to understand water needs/desires at a local/catchment level**

Our consultation questions



- **Have we gained a clear initial view of the problem of future water deficits across all sectors and the environment?**
- **Are we taking the right approach to identify potential solutions to mitigate the challenge?**
- **Does our emerging adaptive plan, including the immediate low-regret options such as reservoirs, look like it will help address the problem?**
- **Are the technical methodologies, processes and decision support tools we have used robust and appropriate for the task?**
- **Has our emerging regional plan been co-created in a fair, open and transparent process involving the right stakeholders and organisations?**
- **Are there any areas which you feel WRE should be considering which are not currently reflected in our plan? What have we missed?**

Forward timeline



How to respond to the consultation

Emerging regional plan:

<https://wre.org.uk/projects/the-regional-plan>

Survey response form or email us at contact@wre.org.uk

Deadline is 28th February 2022

Thank you