Securing Water Supplies for the Future.

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February 2025

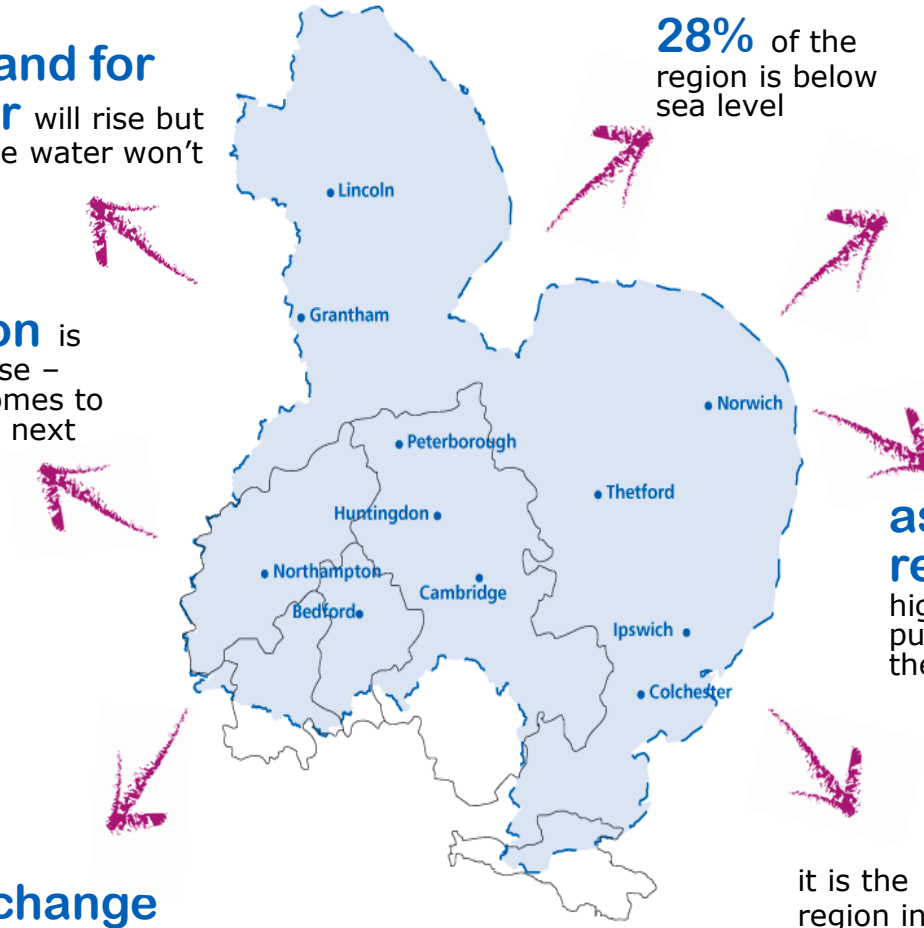
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Our challenges

demand for water will rise but available water won't

population is expected to rise – around 1m homes to be built in the next 25 years

climate change impacts and uncertainty



28% of the region is below sea level

25% of the nation's cereal crop is grown here in East Anglia and **75%** of the nation's shellfish industry is located on the East Coast

as a low-lying region there is a high use of energy to pump water around the region

it is the **driest** region in the UK

Our 25-year Water Resources Management Plan (WRMP)

- Climate change
- Growth
- Environmental protection
- Resilience to drought

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What are we doing?



- We’re building a series of interconnecting pipelines to **improve our water network**.
- They will also enable us to reduce the amount of water we take from the environment and **strengthen resilience** by reducing the number of homes and businesses which rely on a single water source.
- The network will be built in stages, including a **68km pipeline** from Bury St Edmunds to Colchester.

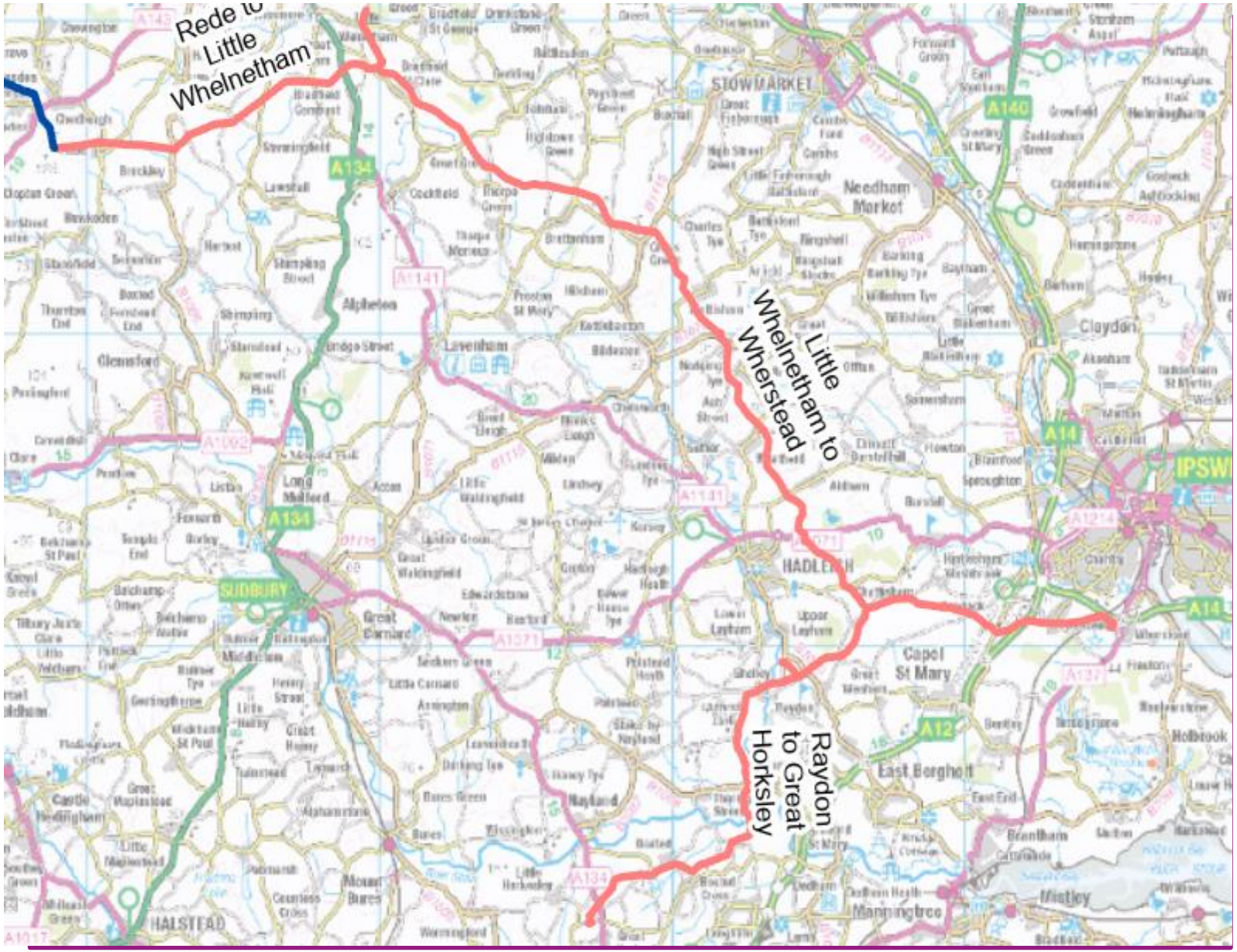
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Progress update?

- **200km** of pipe lay in the ground to date across the project.
- **60km** of pipe laid across Bury St Edmunds to Colchester
- **A number of** HDD's completed across the project.



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Bury St Edmunds to Colchester

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Bradfield St Clare





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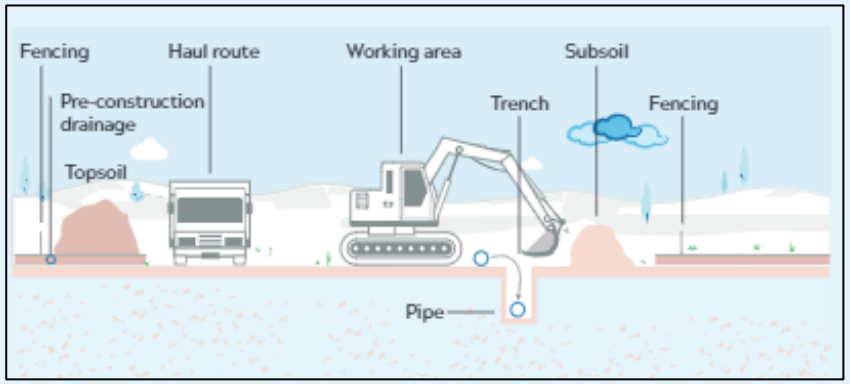
Construction Programme



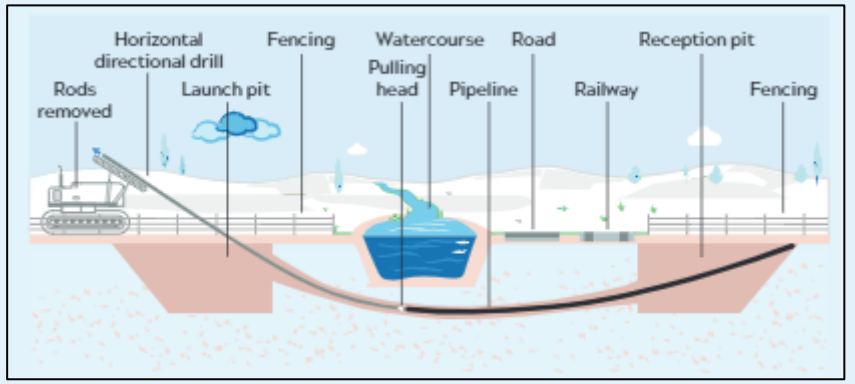
- **Main construction works** **until June 2025.**
- **Testing and commissioning** works are expected to commence in **late 2027**
- **Reinstatement works** (such as replacing topsoil, reseeding, replanting hedgerows and trees) to commence in **May 2024 until Late 2028**.
- The whole pipeline is expected to be **reinstated, tested and commissioned** by **Late 2028**

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General Construction Methodology



Larger Diameter pipes, 630mm & 560mm PE, installed using traditional opencut methods.
Working easement is 30 meters.



Trenchless Crossings, typically A class roads, railways, rivers, canals and larger IDB's. Horizontal Directional Drilling

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Working Width - Photos

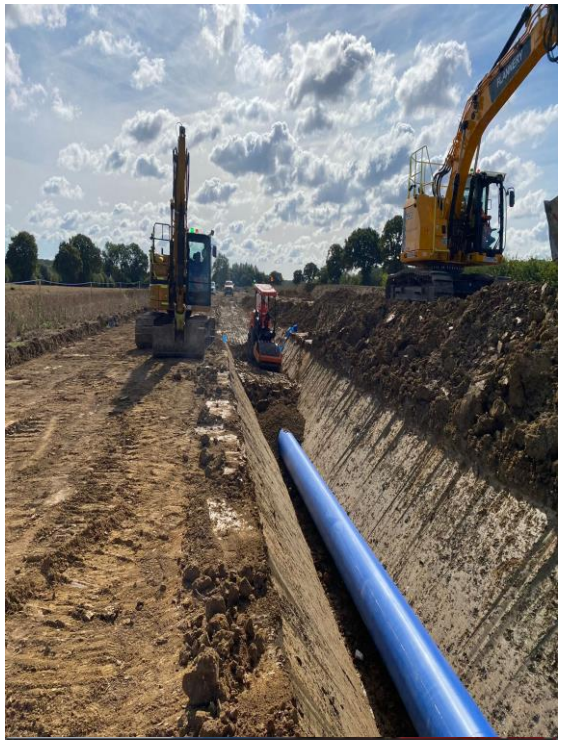
1 - Topsoil stripping



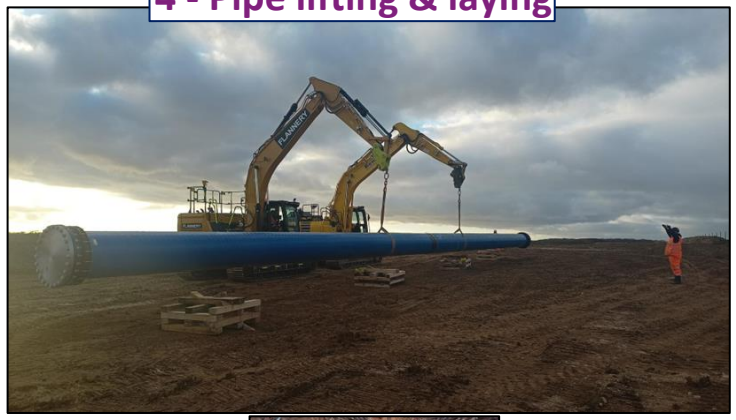


2 - Pipe stringing & welding

3 - Pipe excavating



4 - Pipe lifting & laying

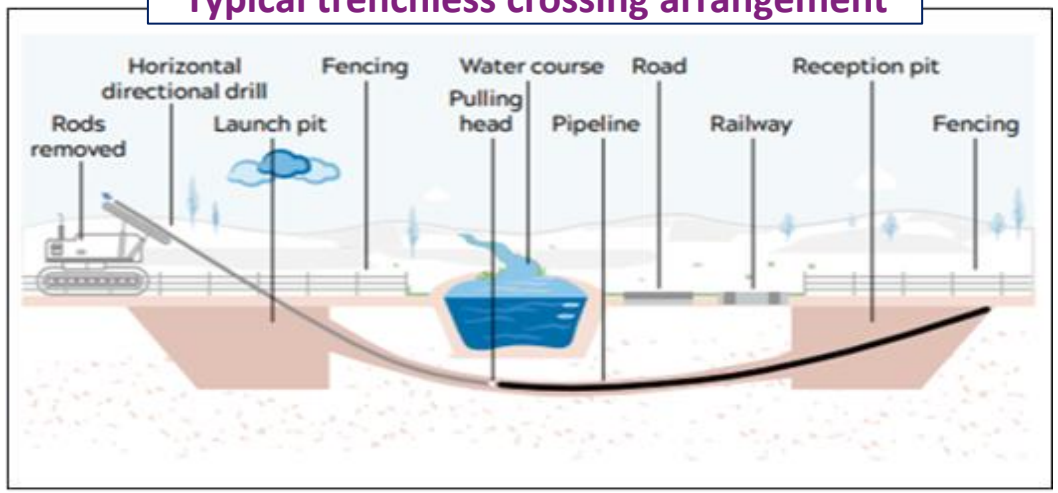




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Trenchless Crossing

Typical trenchless crossing arrangement



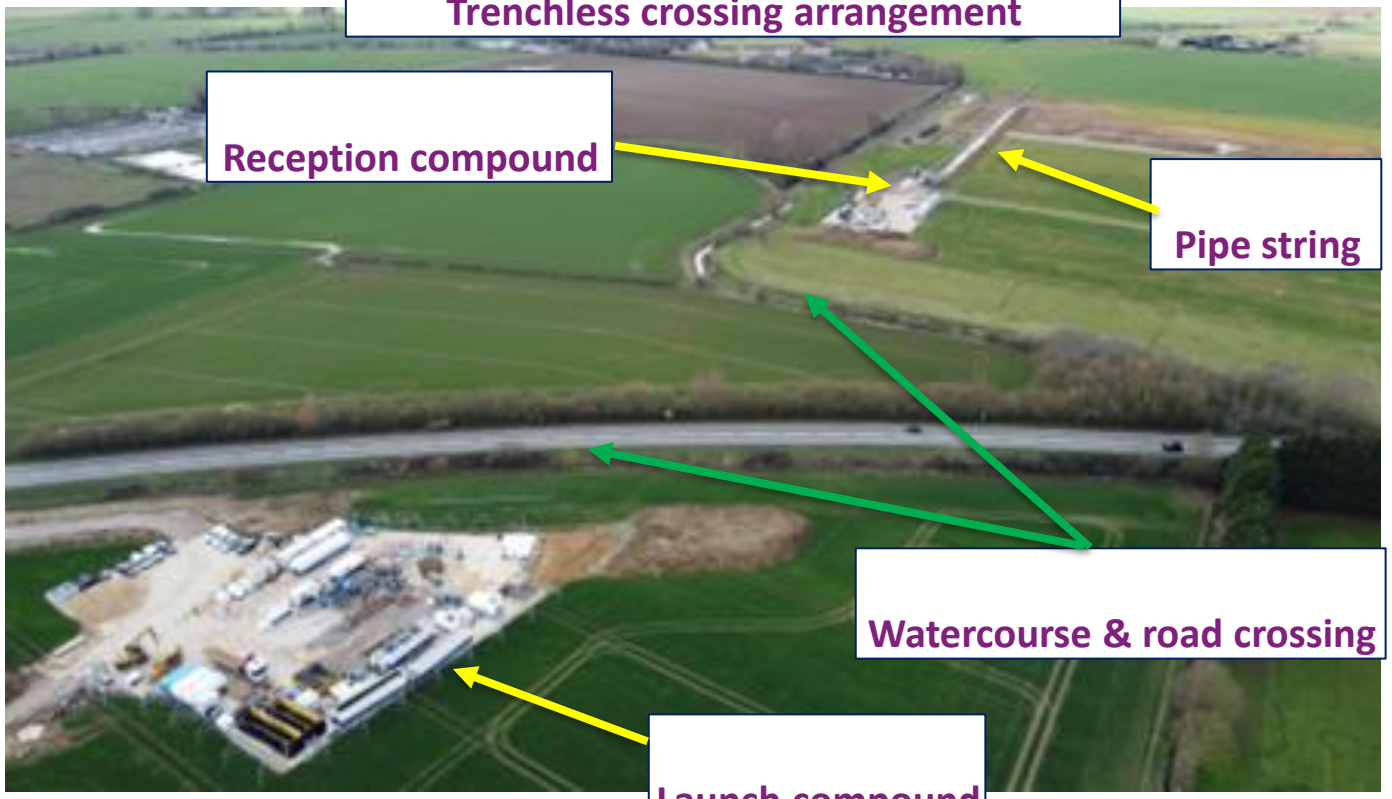


Launch compound



Pipe string

Trenchless crossing arrangement



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Cool Stuff





Using drones and thermal imaging for nesting birds

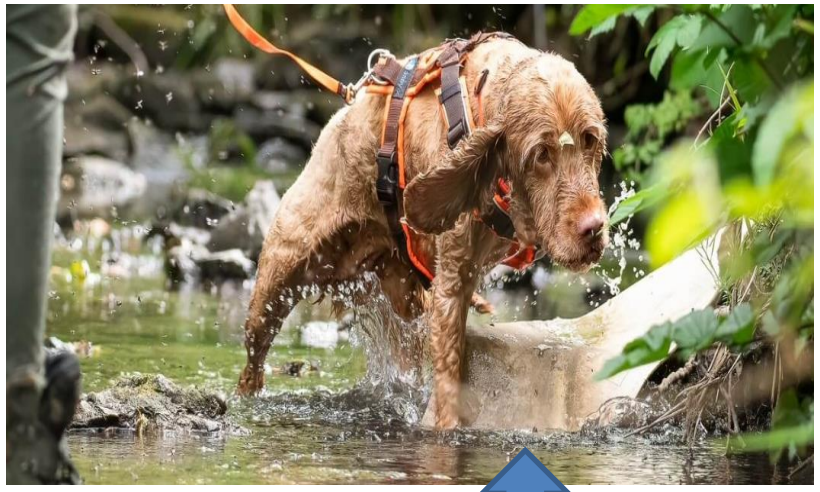


Artificial fences for bats



Partnership with Bookmark

Bookmark
Change a child's story



'Sherlock Bones'- sniffing out water voles, one of the protected species we look out for.



Providing barn owl and bat boxes- above a 'little owl' which we have seen.



Working with wildlife- watervoles!



Building tiny houses for protected species such as the dormouse.

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Sustainability

Carbon

Our Wherstead to Great Horkesley section is currently on track to reduce its capital carbon footprint by 55% compared to its baseline. Saving over 5,000 tonnes of CO2e.

Environment

Committed to delivering a minimum of 10% biodiversity net gain on Anglian Water sites along with legacy projects across the route. While safeguarding protected species from our works.

Resilience

This project will help meet our targets to reduce the amount of water we take from the environment by 84 million litres a day, the same as 34 Olympic size swimming pools!

Community

Leaving a long-lasting legacy in the communities we serve, from offering apprenticeships to supporting our local schools with reading, school presentations. Over last year we have supported 13 primary schools and over 1500 children.

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Community involvement

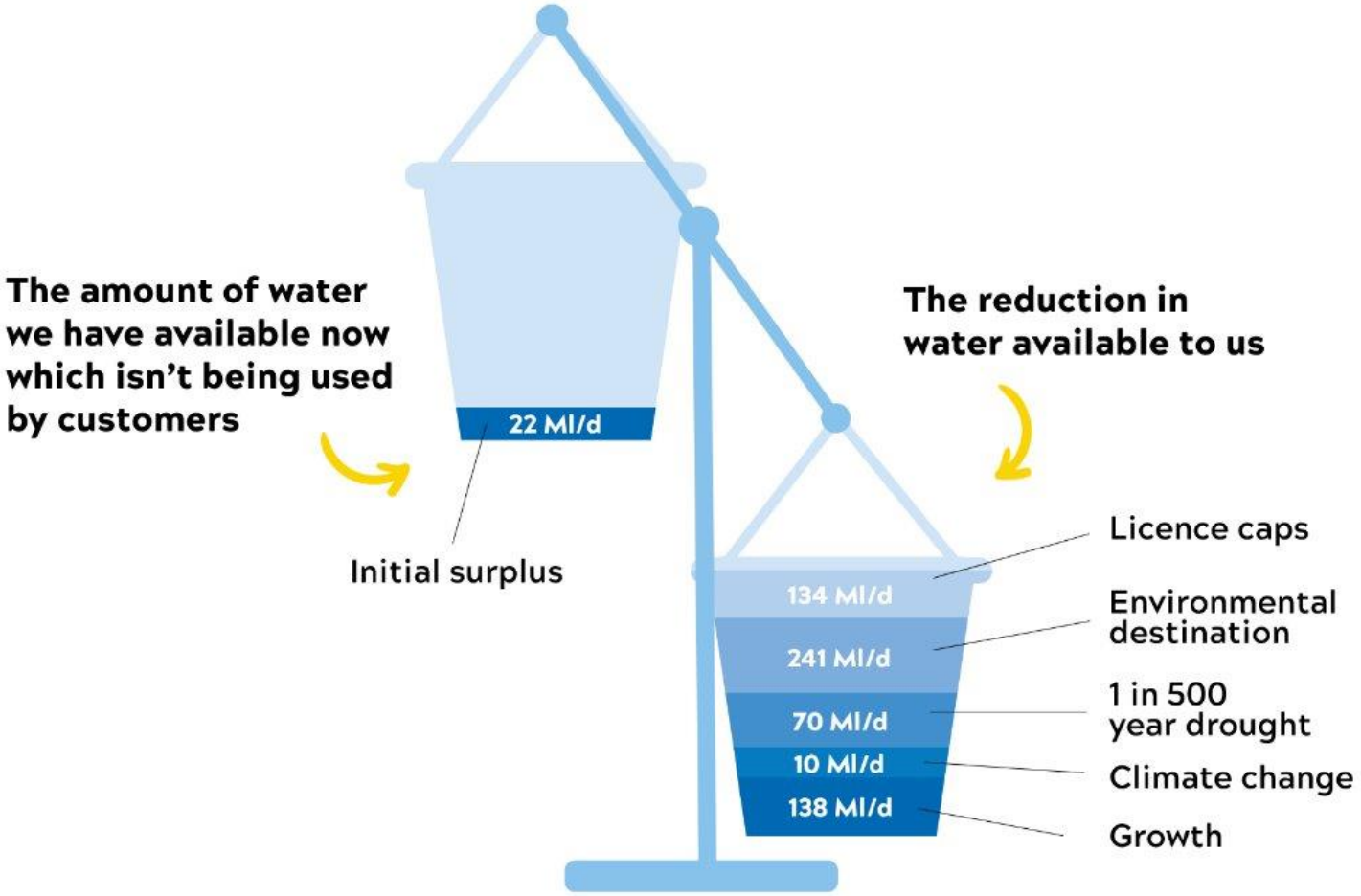
- Recently helped the residents of Brockley in upgrading a footpath, that kept flooding.
- Wildflower and spring bulb planting across the whole project.
- Planting of 2,000 trees at Elsham WTW.

- Several school assemblies held which are ongoing.
- Various parish council meetings, LPA meetings as well as industry specific meetings and talks for example Institute of Civil Engineering.

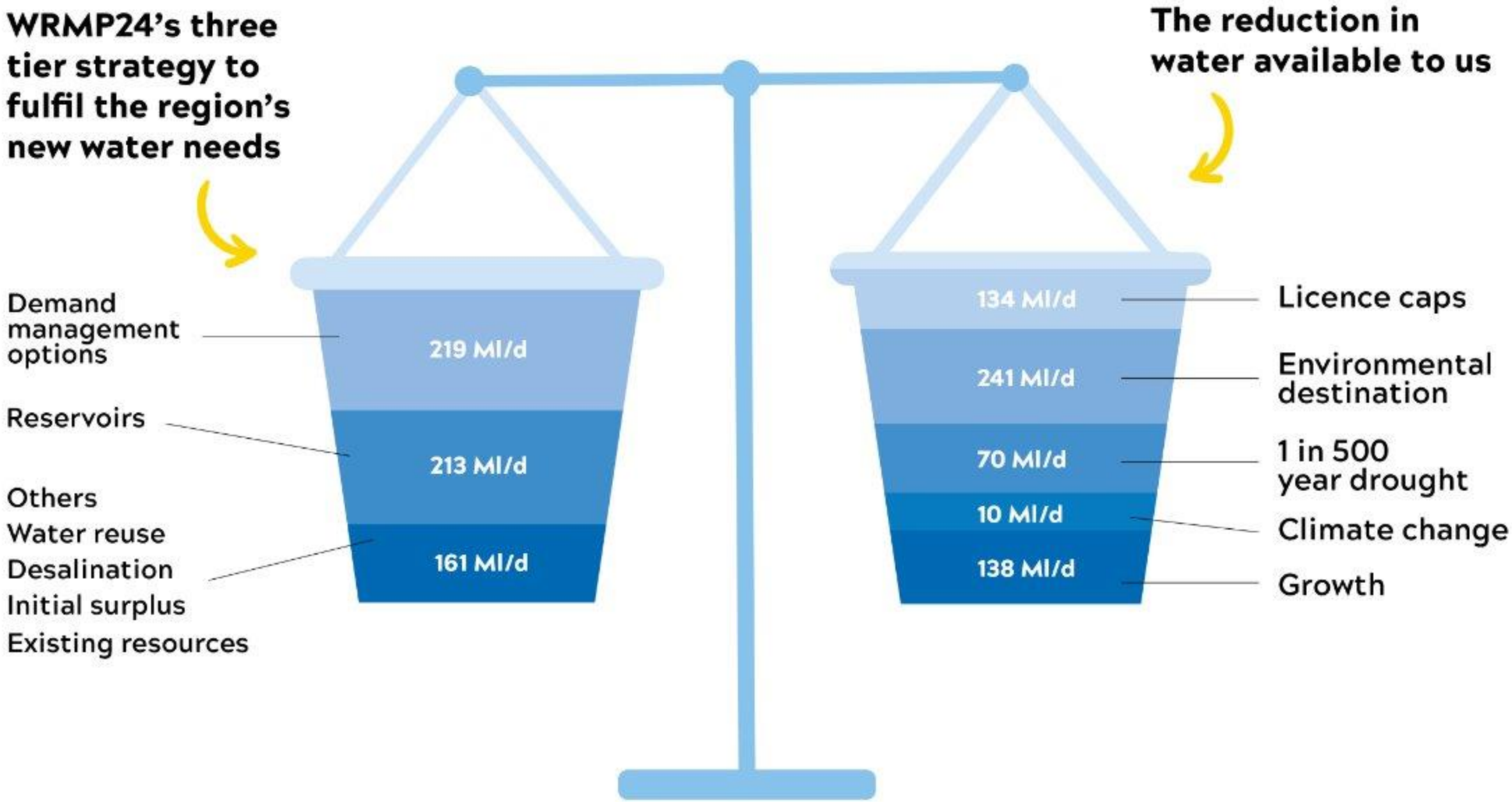
- Large donations of books and educational resources across the project.
- Partnership with bookmark programme- helping children to improve their literacy skills.

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Supply and demand

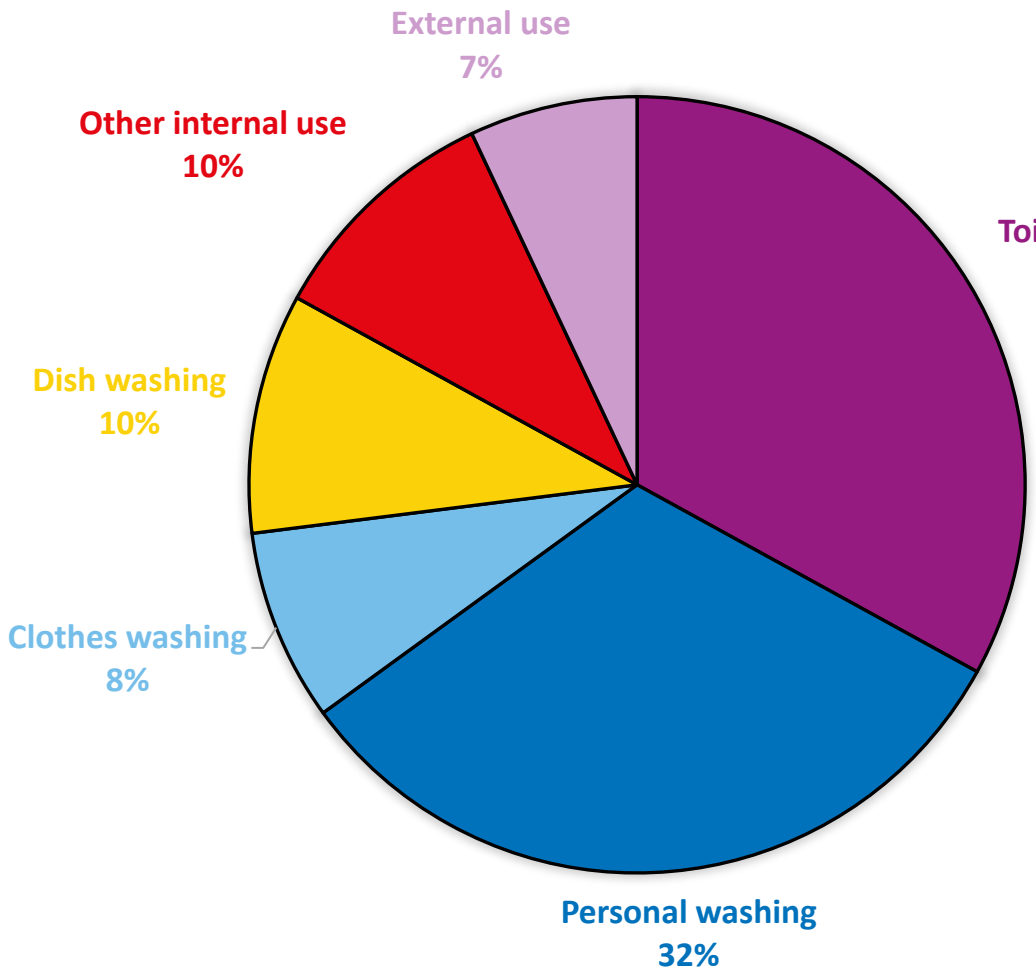


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WRMP24's three tier strategy to fulfil the region's new water needs
The reduction in water available to us
Demand management options
Reservoirs
Others
Water reuse
Desalination
Initial surplus
Existing resources
219 Ml/d
213 Ml/d
161 Ml/d
134 Ml/d
241 Ml/d
70 Ml/d
10 Ml/d
138 Ml/d
Licence caps
Environmental destination
1 in 500 year drought
Climate change
Growth

How much water do we use?

Anglian Water customers' average daily water consumption



Total Average Consumption:
133 litres per person per day

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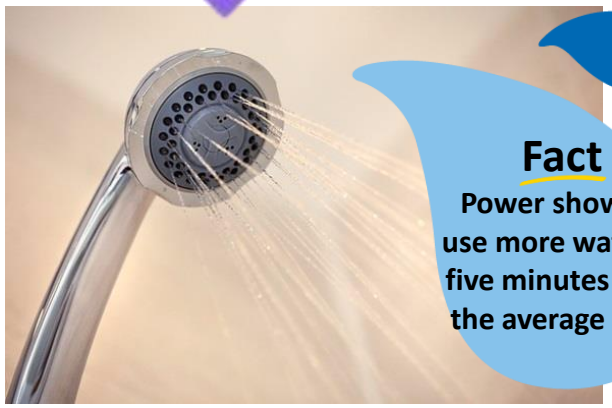
What can you do?

In the bathroom

DROP 25 — Try filling your bath only two-thirds full, instead of to the rim.

DROP 12 — Turn off the tap when brushing your teeth.

DROP 16 — Spend two minutes less in the shower.



Fact
Power showers use more water in five minutes than the average bath



Fact
Only using your washing machine when it's full will save water, energy and money

In the kitchen

DROP 12 — Instead of running the tap for two minutes, wash vegetables in a bowl.

DROP 15 — Wash the dishes by hand instead of half filling the dishwasher.



Outdoors



Fact
A standard butt can collect up to 5,000 litres of rainwater in one year

DROP 150 — Use a bucket and sponge to wash your car instead of a hose.

DROP 150 — Use a watering can instead of sprinklers for your plants.

DROP 200 — Install a water butt to collect rain water for watering your garden.

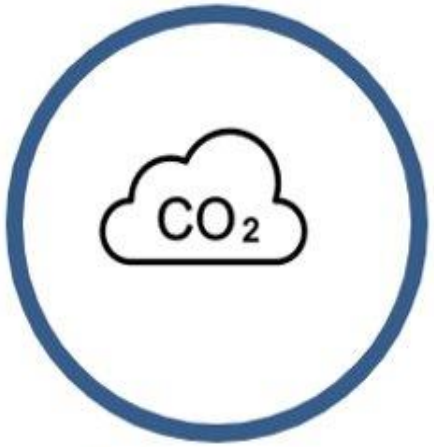
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Our legacy



Make the East of England resilient



Deliver a low carbon solution



Enhance biodiversity



Have a positive impact on communities

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Any questions?

Website: www.anglianwater.co.uk/spa
Email us: strategicpipelines@anglianwater.co.uk

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