

Welcome

The webinar will start shortly after 2.30pm



ses
WATER

south east water



from
Southern
Water. 

Housekeeping

- **Please keep microphones and cameras off**
- **Please use the Teams Q&A function to submit questions for our presenters**
- **If we don't get to your question, please submit it via the relevant water company's consultation web-pages**
- **We're recording the session and will share it with you, along with the presentation slides.**

Agenda

- **Welcome**
- **The regional context**
- **Q&A**
- **Overview of company areas and challenges**
- **Company proposals for 2025-35**
- **Company proposals for longer term**
- **Q&A**
- **Next steps / How to have your say.**

Our draft Regional Plan

Meyrick Gough, Technical Director, Water Resources South East (WRSE)

WRSE is an alliance of the 6 water companies in South East England.

Together they supply **6 billion litres** of water each day.

We're planning **50 years** ahead to provide enough water for the future through a regional plan.

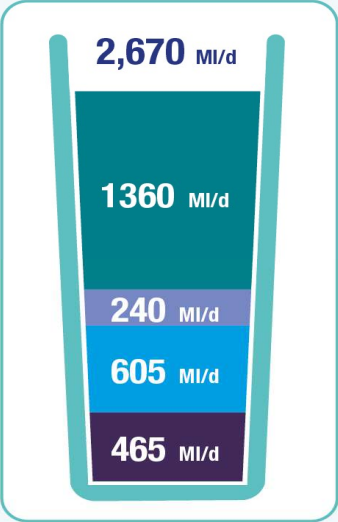
We're also planning for the needs of other sectors such as agriculture, industry and power.

If we do nothing, we could face a shortfall of nearly 2.7 billion litres of water per day by 2075.

More water is needed to:

- Improve the environment by leaving more water in rivers, streams and underground sources
- Address the impact of climate change
- Supply a growing population
- Make our water supplies more resilient to droughts

The future is uncertain, so our regional plan can adapt, depending on what might happen.



Our draft regional plan shows how resilient and sustainable water supplies could be provided for the future.*

Reduce leakage by at least **50%** and lower water use by **40 litres** per person per day (on average) by 2050.

Between 2025 and 2035 we need to:

- Complete the construction of **1** new reservoir in Hampshire and start building **3** more in Oxfordshire, Kent and West Sussex
- Use the Grand Union Canal to transfer water from the Midlands to South East England
- Develop **6** water recycling schemes in Kent, Sussex, London, Hampshire and the Isle of Wight to supplement our water supplies
- Build **1** desalination plant on the Sussex coast
- Develop new transfers so we can move up to **600 million litres** of water per day around the South East and between other regions

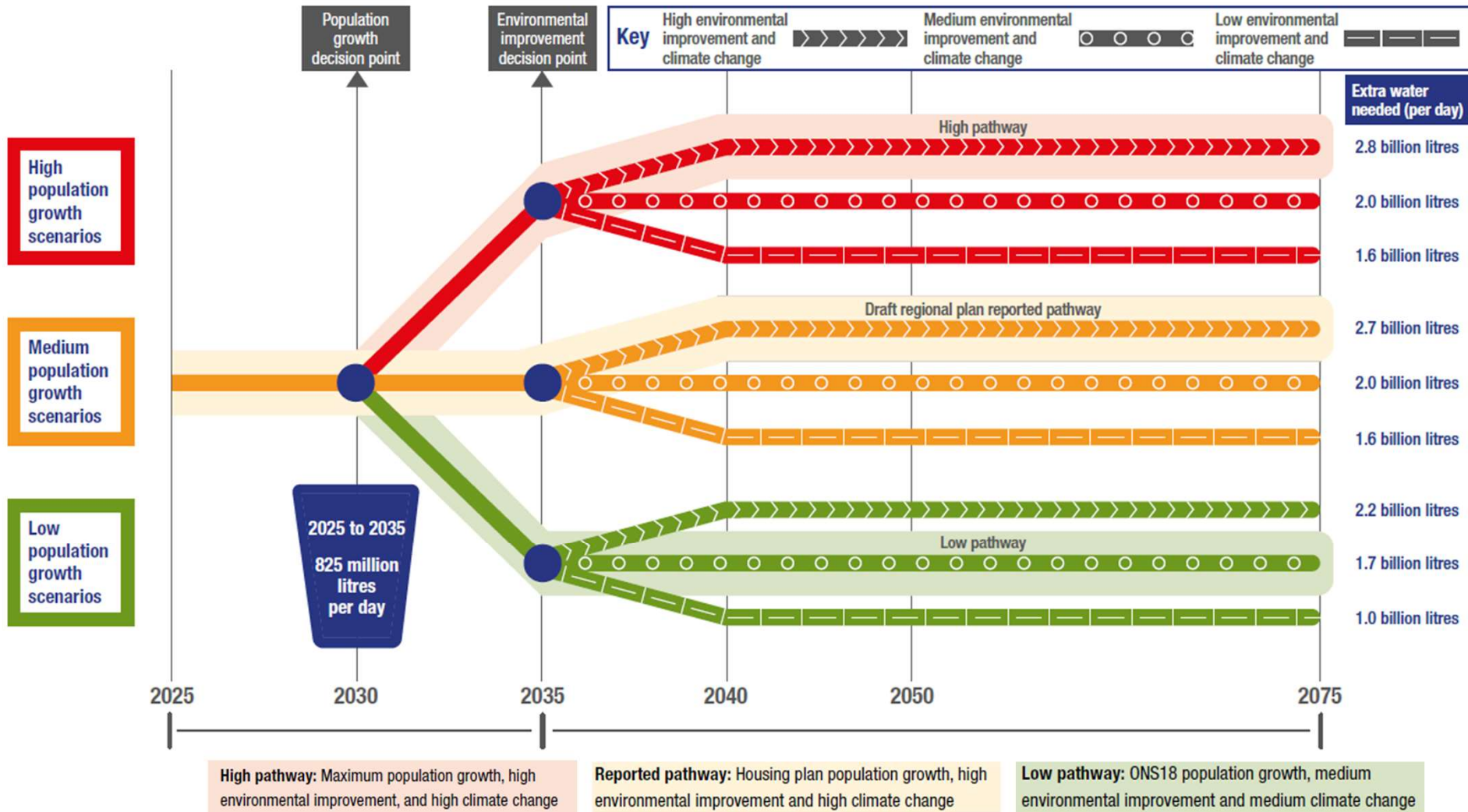
Between 2035 and 2075 we could need to:

- Develop a further **6** water recycling schemes across the region
- Transfer more water from the Midlands and the North West using the River Severn and the River Thames
- Build desalination plants at a further **5** locations in Kent
- Build **1** new reservoir in East Sussex
- Store extra water underground at **3 sites**
- Develop new transfers so we can move up to **1,400 million litres** of water per day around the South East and between other regions.

Our regional plan could cost £15.6 billion to deliver by 2075.

*Schemes shown are based on the reported pathway of our draft best value plan

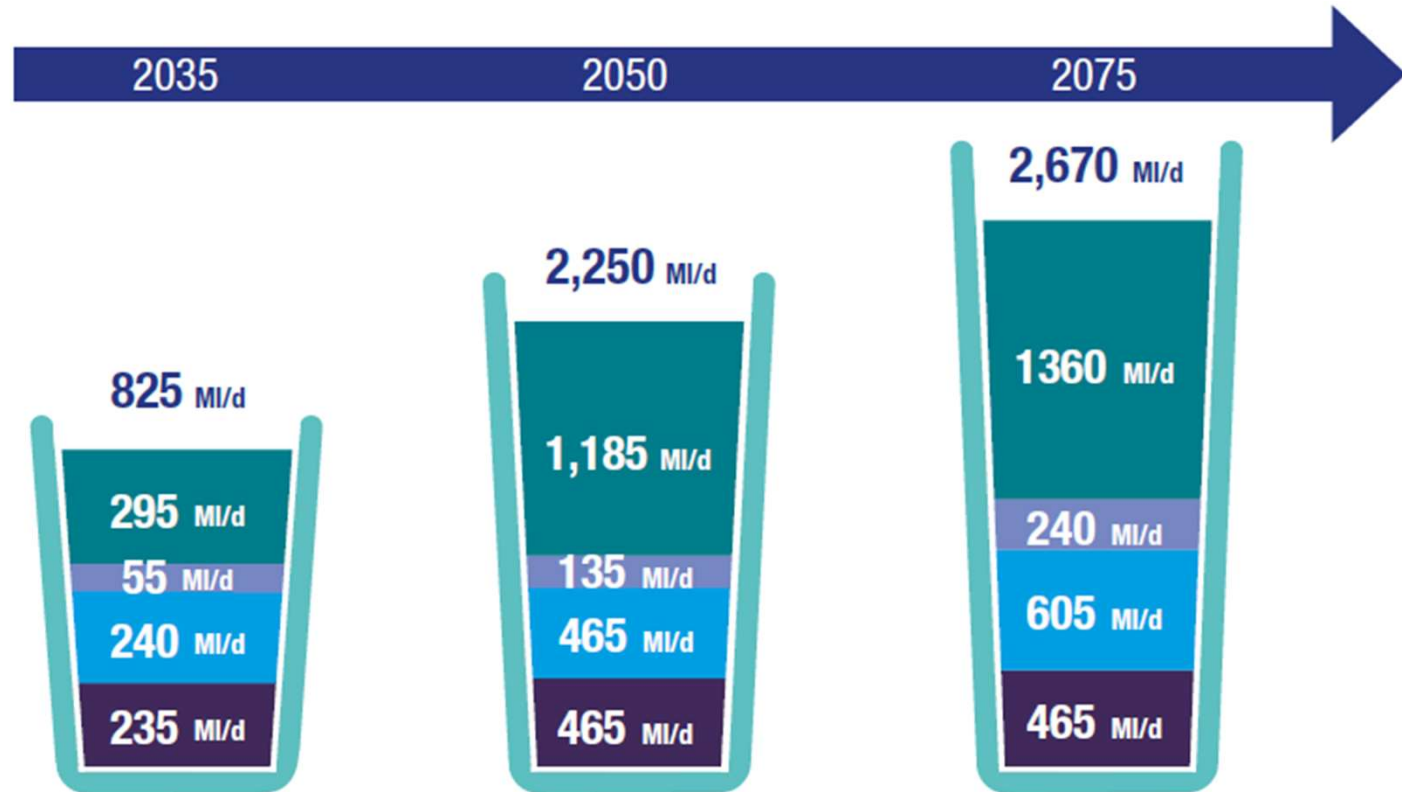
Planning for uncertainty



Mind the gap

Key

-  Environmental improvement (through abstraction reduction)
-  Climate change*
-  Population growth
-  Drought resilience (includes replacing environmental drought orders and permits after 2040)



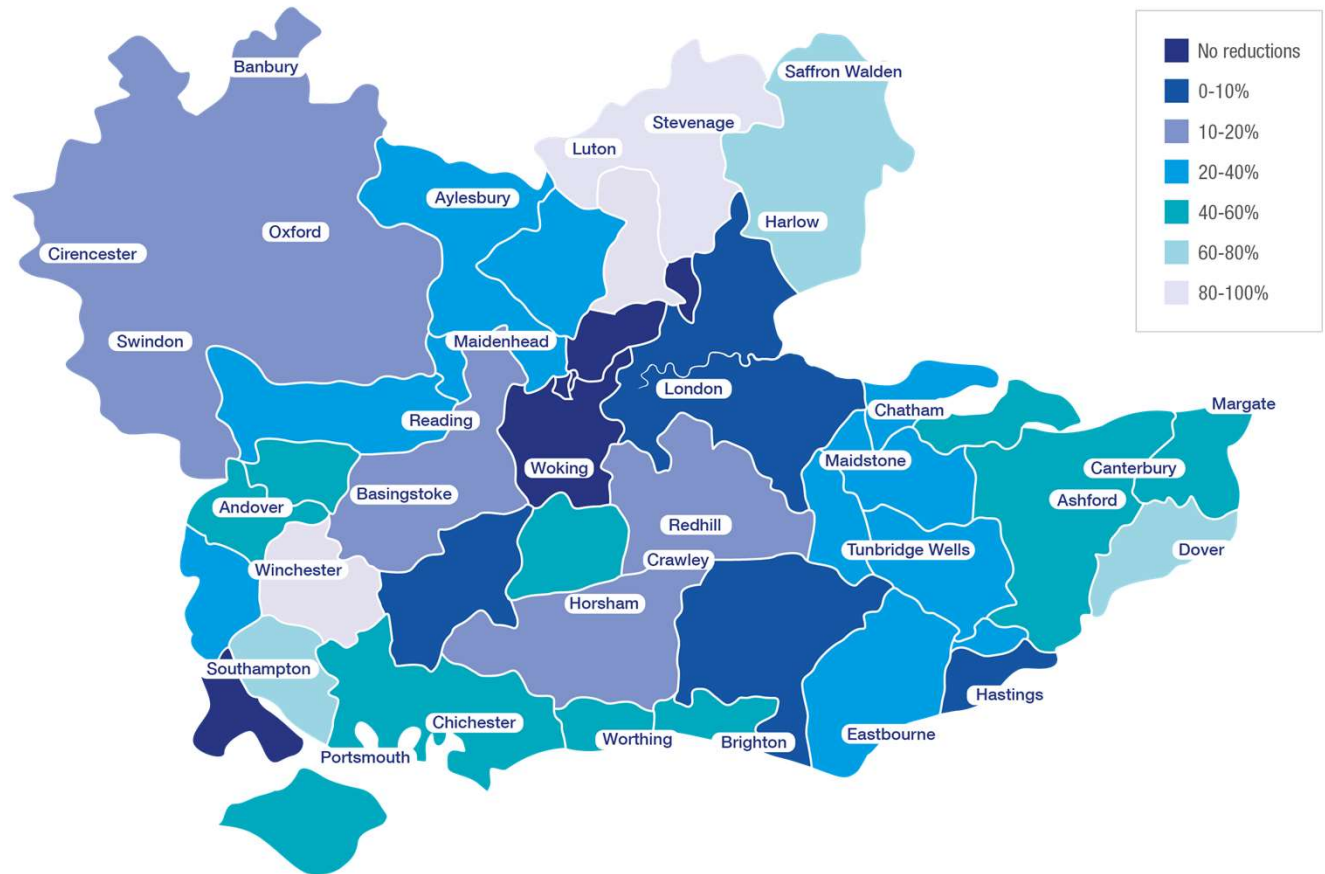
*Climate change represents how much water will no longer be available from our existing water sources. The impacts of climate change are also included in the three other areas.

Reducing abstraction to improve the environment

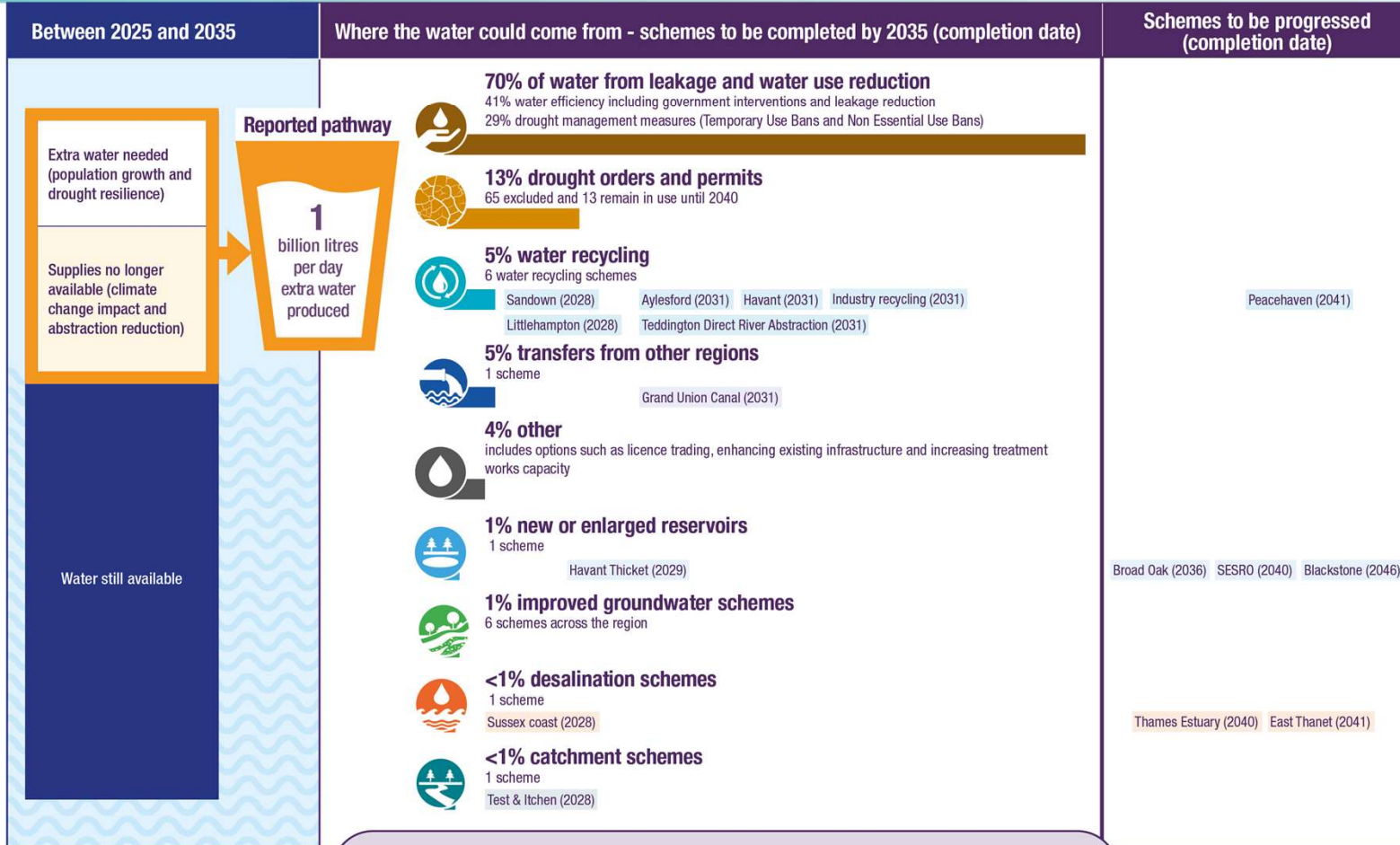
Reducing abstraction is a priority for customers and stakeholders. They wanted us to include a long-term sustainability reductions program.

We are working with regulators and stakeholders to develop a framework to prioritise where abstraction should be reduced.

Investigations carried out by water companies over the next 10 years will provide the evidence base for future reductions in abstraction.



Our plan – 2025 to 2035

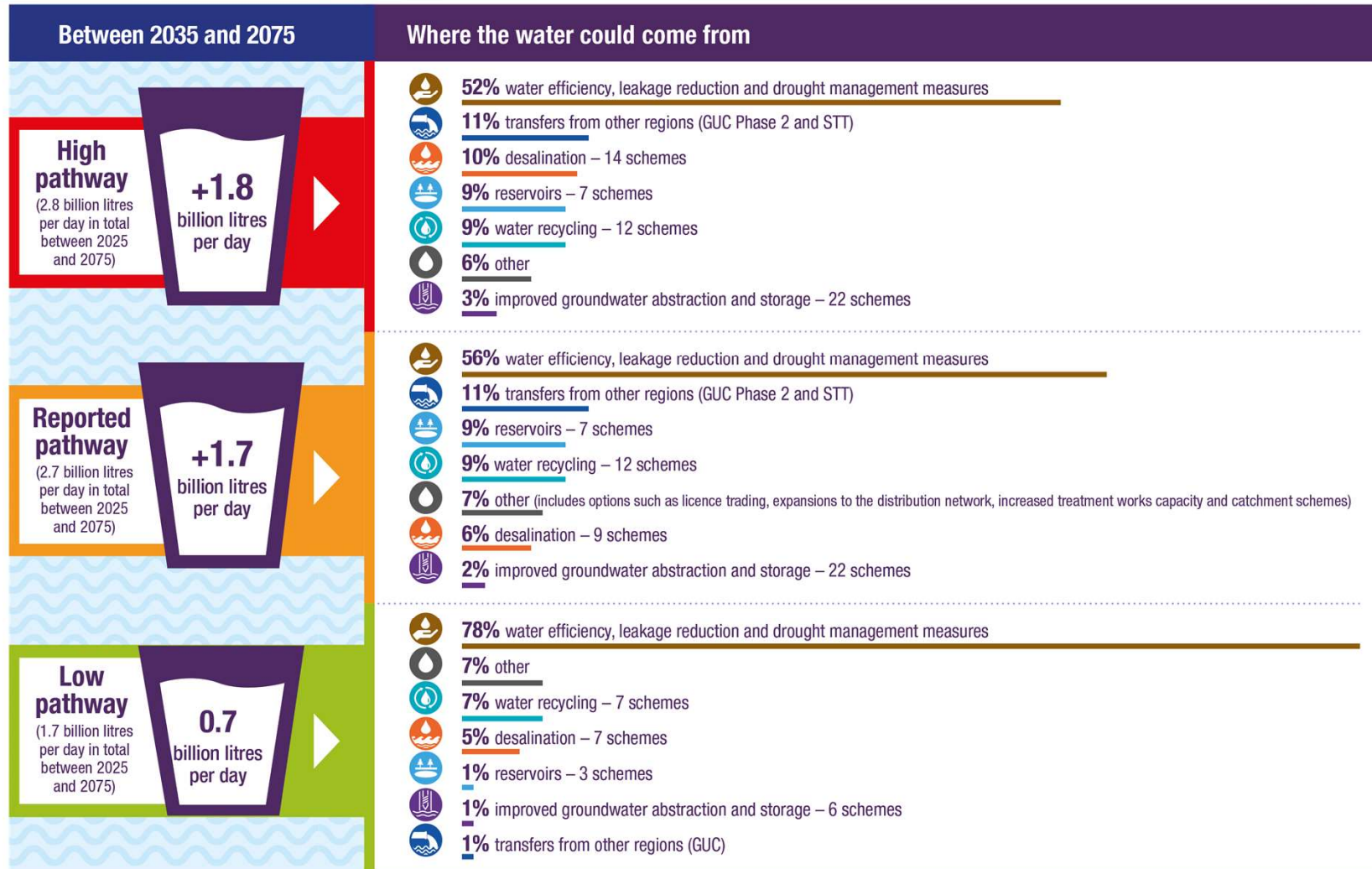


600 million litres of water per day



could be moved around the WRSE region and between other regions

Our plan – 2035 to 2075



Overview of company areas and local challenges

The area we serve



- **Water supplied to 745,000 people in parts of Surrey, West Sussex, Kent and south London**
- **Most of the water comes from underground sources**
- **Typically, 160 million litres of water put into supply each day – up to 260 million litres on a hot summer's day.**

Balancing demand & supply



Demand

By 2075, demand for water in our area is expected to go up by:



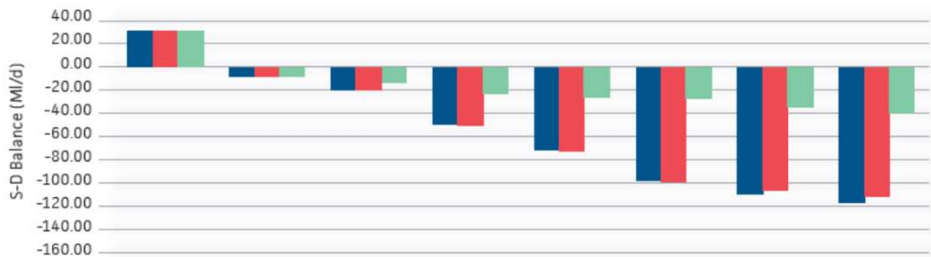
Supply

If we were to do nothing, by 2075, there could be a shortfall in water supplies for customers of:

47 million litres a day,
or **26%** of what would be needed.

South East Water challenges

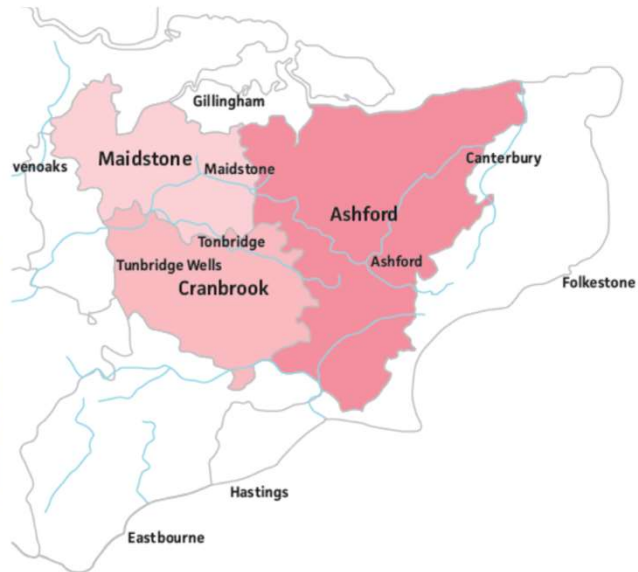
Kent region supply demand balance: 1 in 500 Dry Year Annual Average



	2025/26	2030/31	2035/36	2040/41	2045/46	2050/51	2060/61	2075/76
Situation 1	27.40	-6.74	-19.59	-48.12	-72.36	-98.54	-108.73	-118.60
Situation 4	27.40	-6.74	-19.59	-49.33	-73.26	-99.33	-108.03	-115.40
Situation 9	27.40	-6.74	-12.82	-22.89	-25.13	-29.05	-35.85	-40.37



River Stour



south east water

Sussex region supply demand balance: 1 in 500 Dry Year Annual Average



	2025/26	2030/31	2035/36	2040/41	2045/46	2050/51	2060/61	2075/76
Situation 1	8.13	-4.58	-16.25	-31.26	-41.17	-49.57	-62.15	-74.00
Situation 4	8.13	-4.58	-16.25	-25.54	-34.83	-43.16	-53.54	-61.80
Situation 9	8.13	-4.58	-10.68	-19.42	-21.74	-22.67	-30.75	-35.45

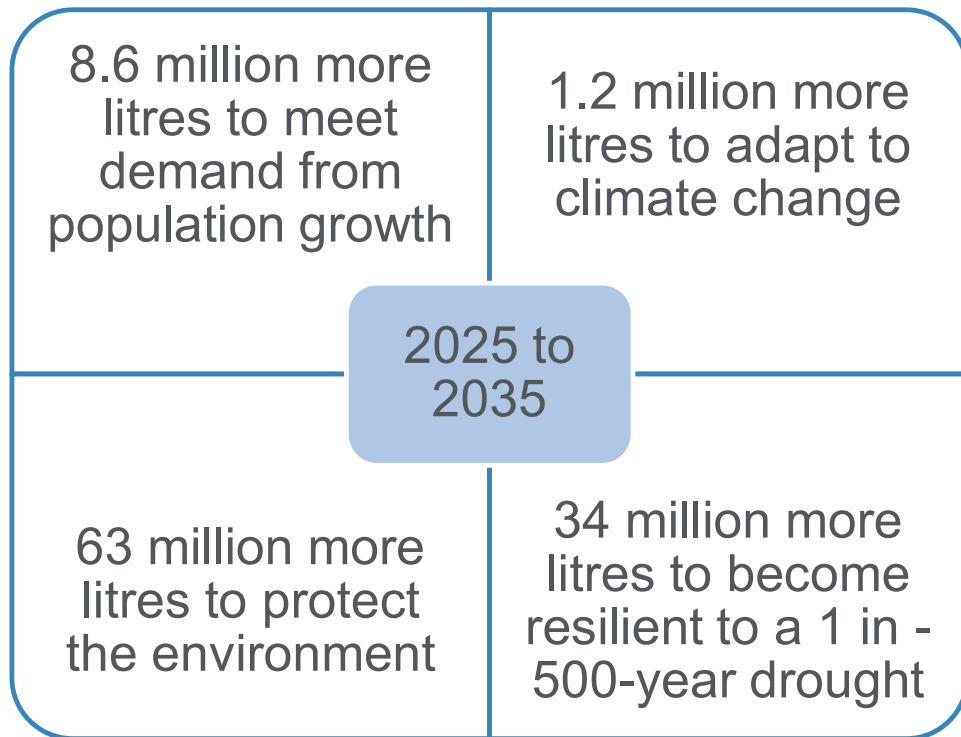


River Ouse



Pure know_{h2}ow

Our challenge



- Climate change and population growth mean we need to find more water
- The biggest challenge we face is leaving more in the environment to protect and improve it
- If we do nothing, we could face a shortfall of 569 million litres per day by 2070

Company proposals for 2025-35

Proposed actions for 2025-35



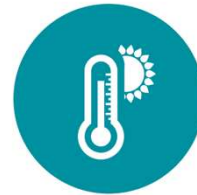
Reducing leakage by at least 24 per cent by 2030



Working with the Government



Introducing smart water meters



Taking measures to deal with drought, if needed.

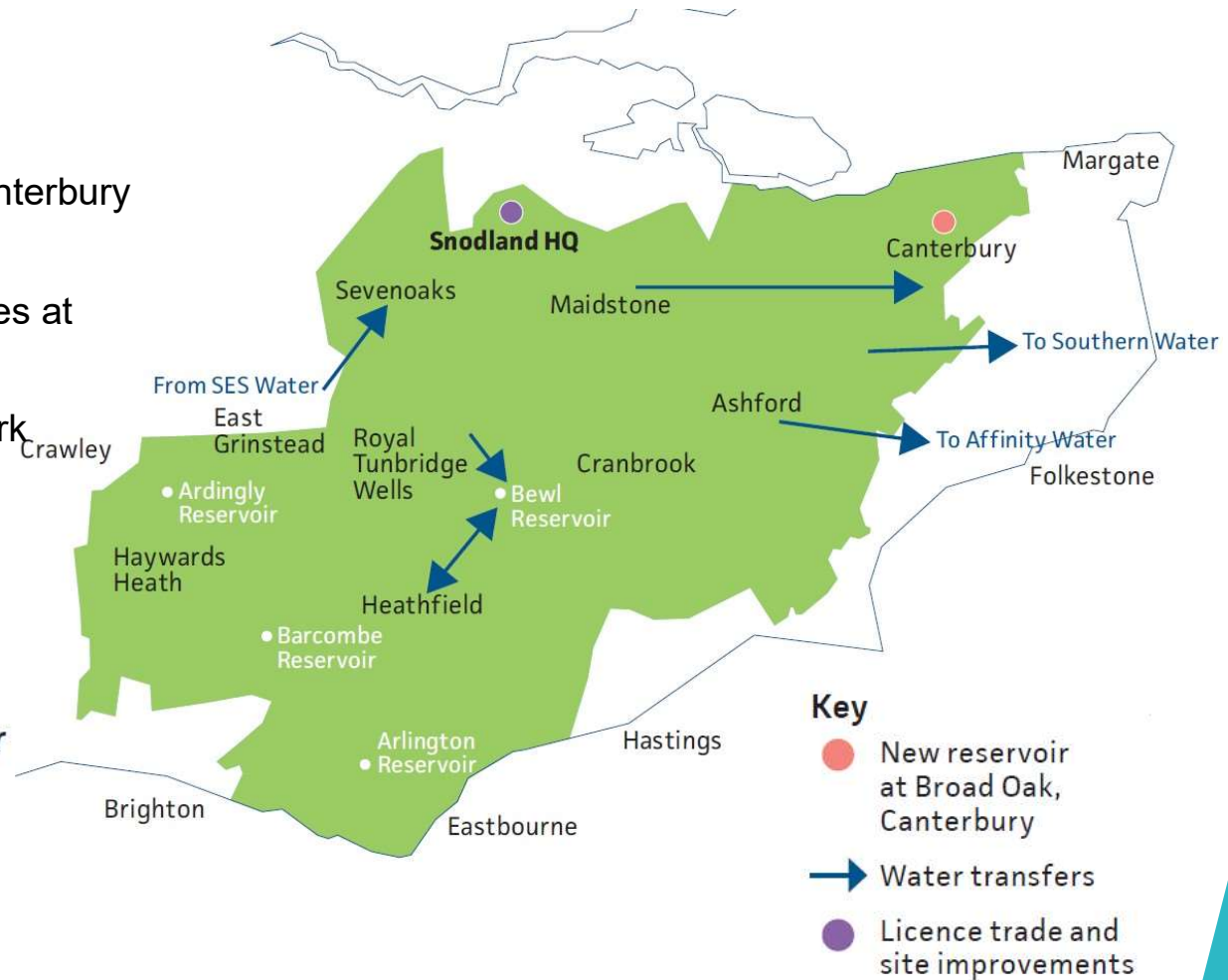


Helping households and businesses use less water

South East Water options 2025 to 2040

Options include:

- New water transfers
- Building a reservoir at Broad Oak, Canterbury by 2033 or 2036
- Developing a new groundwater sources at Maidstone through a licence trade
- Sub-zonal schemes to improve network connectivity




Reducing leakage
 by 36% by 2040*

*% Reduction
 (from 2017/18 levels)


Reducing customer demand
 to 124 litres a day
 by 2040

Our strategy for 2025–35

17. Build a desalination plant (or alternative source) on the Sussex coast

18. Import water from another water company

19. Reduce leaks

20. Help customers use less water

21. Apply for a drought permit/order on the River Medway to continue abstracting water during dry weather

22. Catchment schemes to address nitrates and pesticides and improve the resilience of our water sources

23. Recycle water from a water recycling plant near the River Medway and release it into a storage reservoir near our Rochester supply works

24. Work with a large industrial water user to provide them with recycled wastewater and enable us to use their existing groundwater sources



Company proposals for
the longer term

Longer term proposals



After 2030 Share more water with neighbouring companies



We already provide water to our neighbouring water companies. In future, in line with the regional plan for the South East of England, we could supply more to Southern Water, South East Water and Thames Water, to help make water supplies across our region more resilient by making the best use of the water we have across the area.

After 2040 Move more water around our supply area



We could increase the amount of water we can pump from our Woodmansterne Treatment Works in Surrey to elsewhere in our supply area.

After 2050 Increase how much water we can store



This would be by increasing the capacity of our Bough Beech Reservoir in Kent, so it could be used to store more water for when we, or neighbouring water companies, need it.



**Our plan would cost
£272 million
over the next 50 years.**

**Up to 2050, that represents a
yearly cost of £24,
as part of a typical annual
water bill**

**Our average annual bill for
2022/23 is £193,
with £19 of this going towards
securing water supplies.**

South East Water options 2041 to 2075

Options include:

- New water transfers
- A water recycling scheme between Peacehaven Wastewater Treatment Works and Arlington Reservoir, East Sussex by 2041
- Desalination at Reculver, Kent by 2046
- A new reservoir at Arlington or Broyle Place, East Sussex by 2075
- Water pipe connectivity improvements

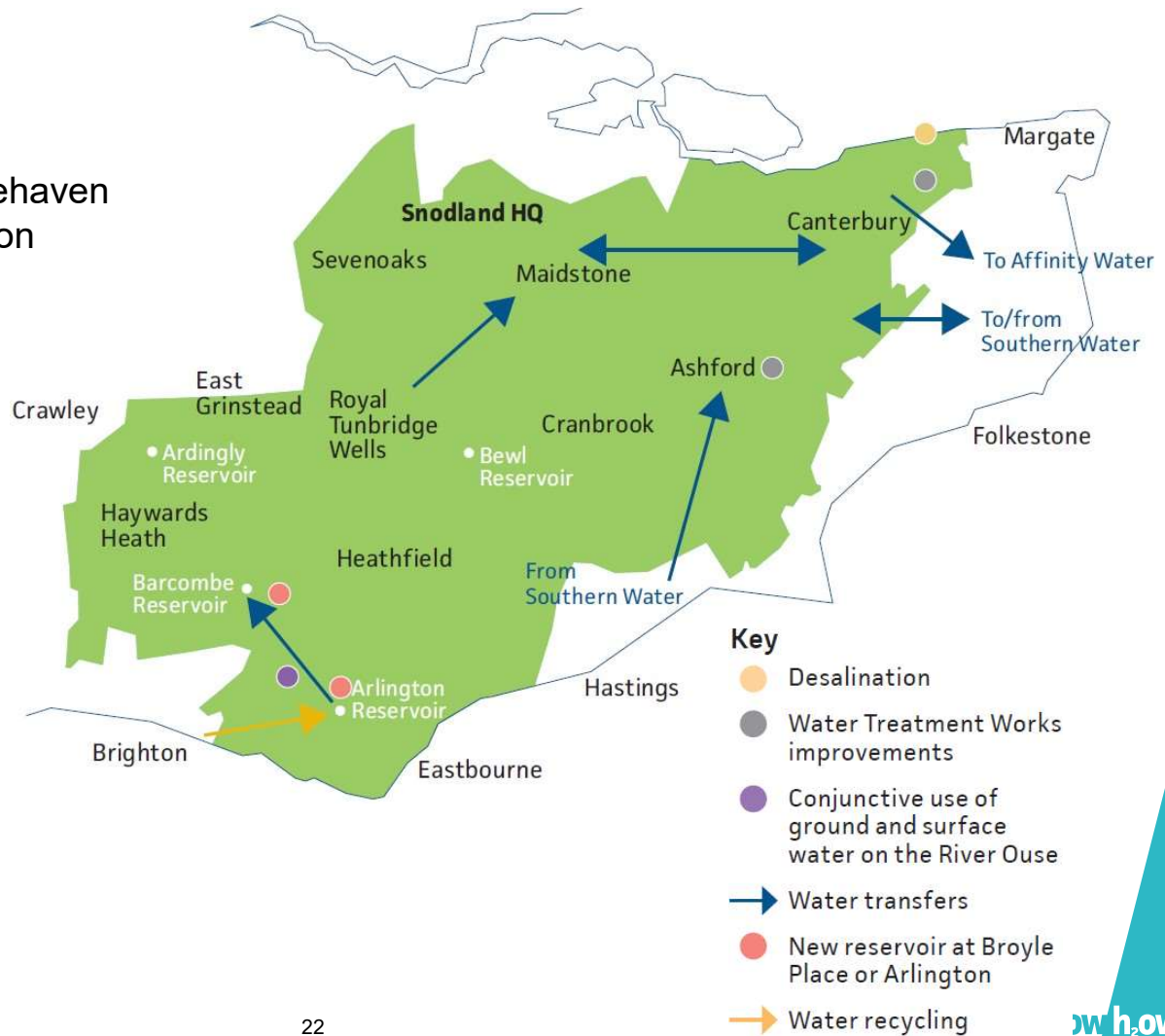


Reducing leakage
by 50% by 2050,
then 56% by 2075*

*% Reduction
(from 2017/18 levels)



Reducing customer demand
to 112 litres a day
by 2050



The cost of our plan

Our dWRMP24 sets out what investment is needed between 2025 and 2075 to secure drinking water supplies into the future. We plan to tackle current pressures and future challenges by investing:

- **£2.2 billion** over the next 50 years to build large-scale infrastructure projects such as reservoirs, water recycling plants and desalination schemes.
- **£2.1 billion** by 2050 to drive down leaks and reduce water use.

The table below sets out indicative increases in customer bills as a result of the schemes and interventions identified by the regional plan and our own company dWRMP24.

Bill Impact Scenario	2025 to 2030	2030 to 2035	2035 to 2040	2040 to 2045	2045 to 2050
WRSE Regional Schemes	£12.46	£38.02	£70.36	£98.88	£106.39
SEW Additional Schemes	£16.58	£15.80	£12.43	£8.29	£8.29
Total	£29.04	£53.83	£82.79	£107.17	£114.68

Our strategy for 2035 – 70

12. Build a new reservoir in Sussex to store water from the River Adur

16. Recycle water near Hastings and store it in Darwell reservoir before treating it at a nearby water supply works

17. Reduce leaks

18. Help customers use less water

19. Improve an existing groundwater source near Gravesend

20. Catchment schemes to address nitrates and pesticides and improve the resilience of our water sources

21. Desalination plants on the Thames Estuary, Thanet coast and the Isle of Sheppey

22. Increase the size of Bewl Water reservoir.



What this means for customers' bills

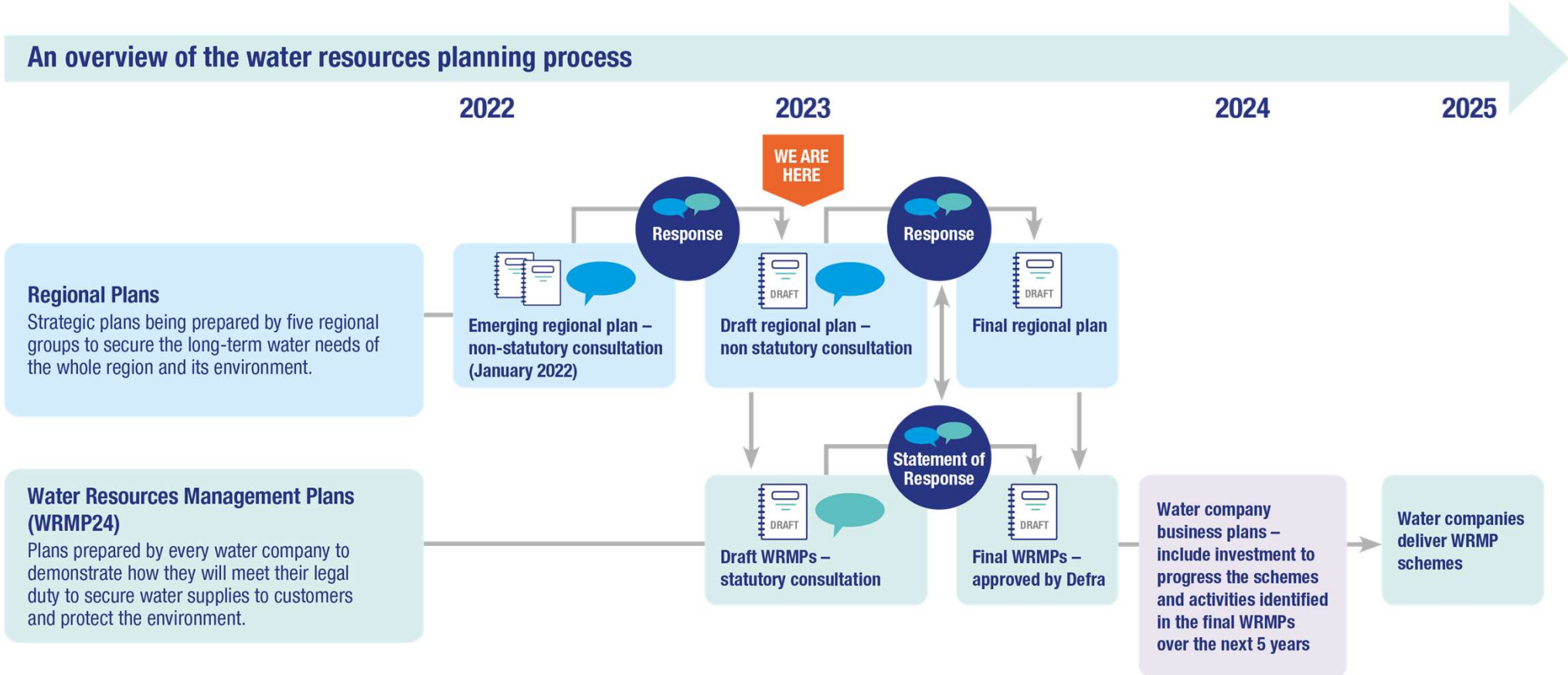
The total cost of our plan is **£1.5 billion** over the first five years. This means customers' bills will increase by around **£85** compared to average bills in 2019 / 20.

Between 2035 and 2040, we expect to invest just over **£2 billion**. This means customers' bills will increase by around **£180** compared to average bills in 2019 / 20.

	AMP 8 (2025 - 30)	AMP9 (2030 - 35)	AMP10 (2035 - 40)
Total cost*	£1,529m	£561m	£2,064m
Average increase from customers' bills in 19/20	£84.57	£110.91	£178.14

Next steps

An overview of the water resources planning process



How to get involved

- WRSE draft regional plan: <https://wrse.uk.engagementhq.com/>
- SES Water: <https://seswater.uk.engagementhq.com/draft-wrmp>
- South East Water:
<https://getinvolvedsoutheastwater.uk.engagementhq.com/wrmp24>
- Southern Water: <https://www.southernwater.co.uk/our-story/water-resources-management-plan>