

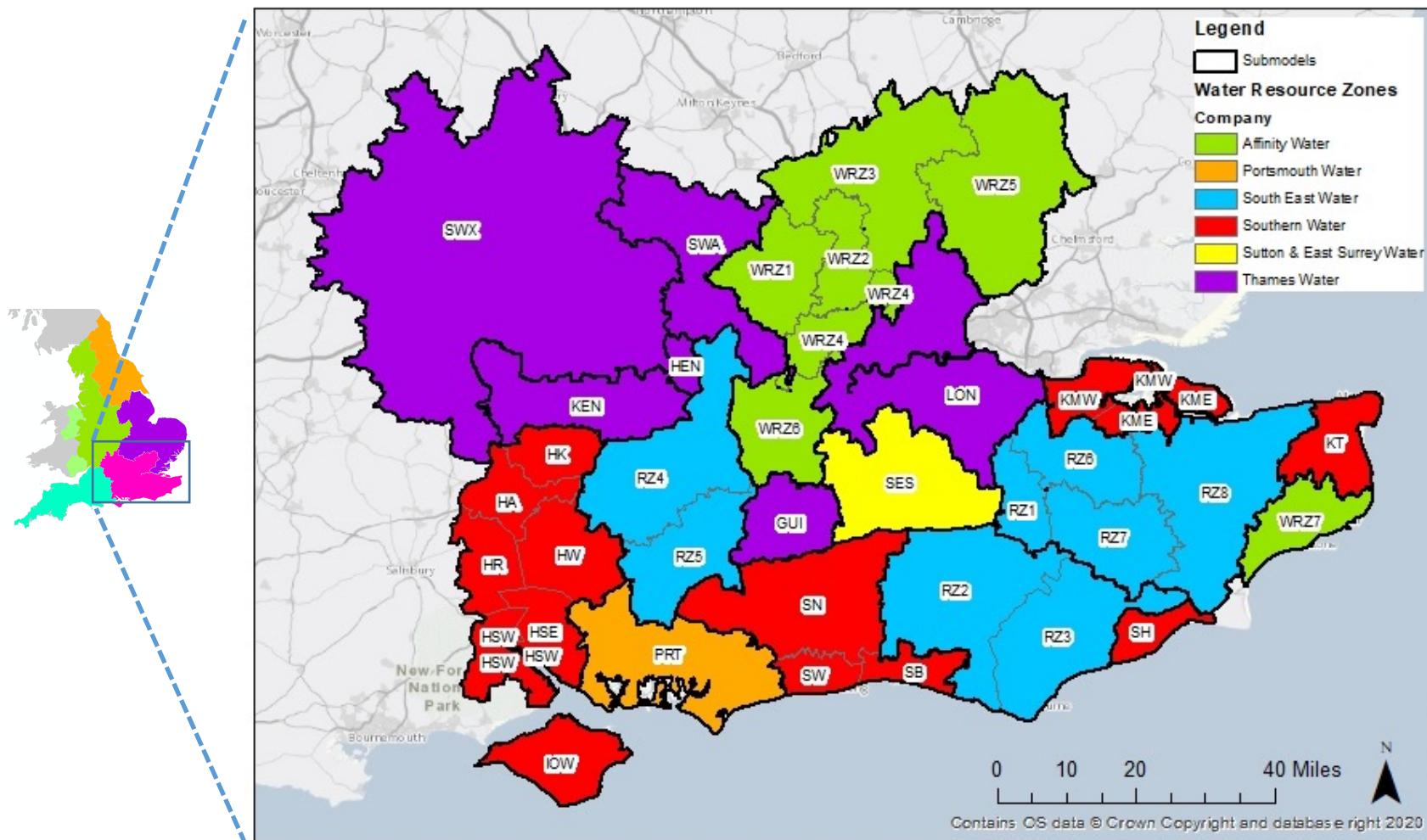
‘The reduction in the level of the underground water-table, which is a serious problem today, is not in fact due to drought (exclusively?), which is of relatively short duration and which is generally compensated by surplus rainfall... but to an enormous increase in water consumption, which has taken place in recent years, and to the fact that the increased urbanisation of the land, waterproofing of roads, and general installation of storm-water and sewerage systems have deprived the underground supplies of part of the replenishment they formerly enjoyed.’

H Spencer Sales and John Bland

Water Resources South East (WRSE)

Who are we?

- Alliance of the six Water Companies working collaborative with government, regulators and stakeholders
- Supply water to almost 20 million people
- Supply supports some 40% of UK GDP



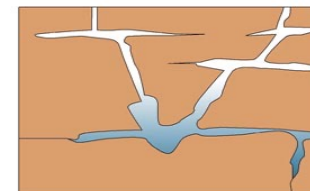
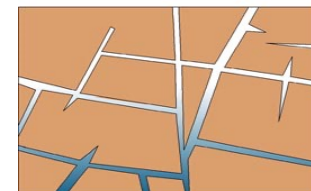
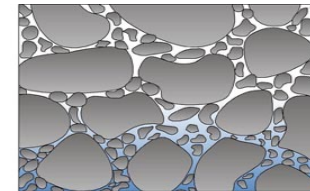
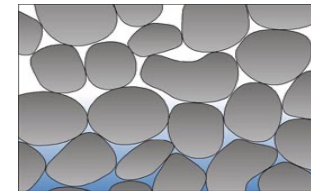
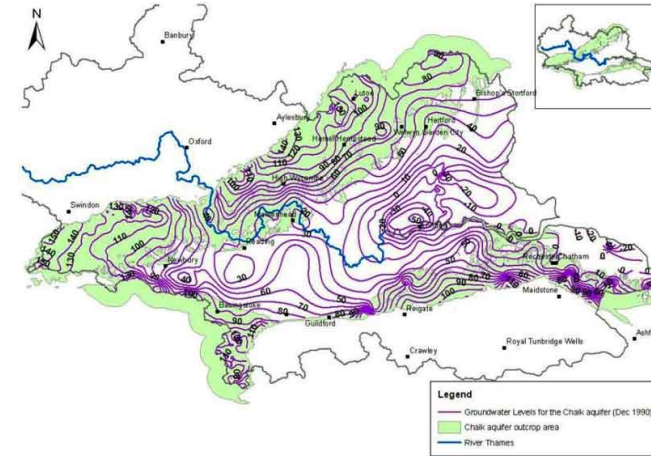
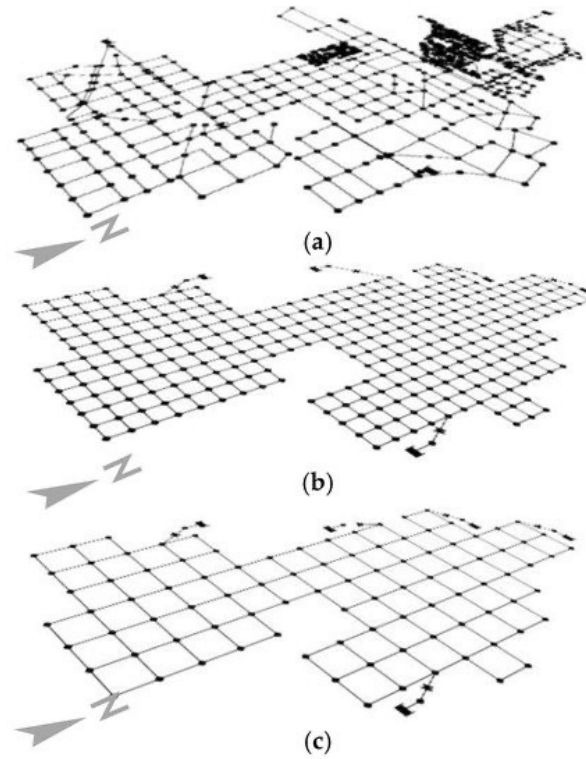


The Appliance of Science?

Heterogeneity

Complexity

Systems



Environmental Legislation – ambition and delivery

“Magna Carta was good for humans – but even better for fish” 1215

(New Statesman)

“All fish-weirs shall be removed from the Thames, the Medway, and throughout the whole of England, except on the sea coast.”



**Richard Strode
1510 - Lydford**

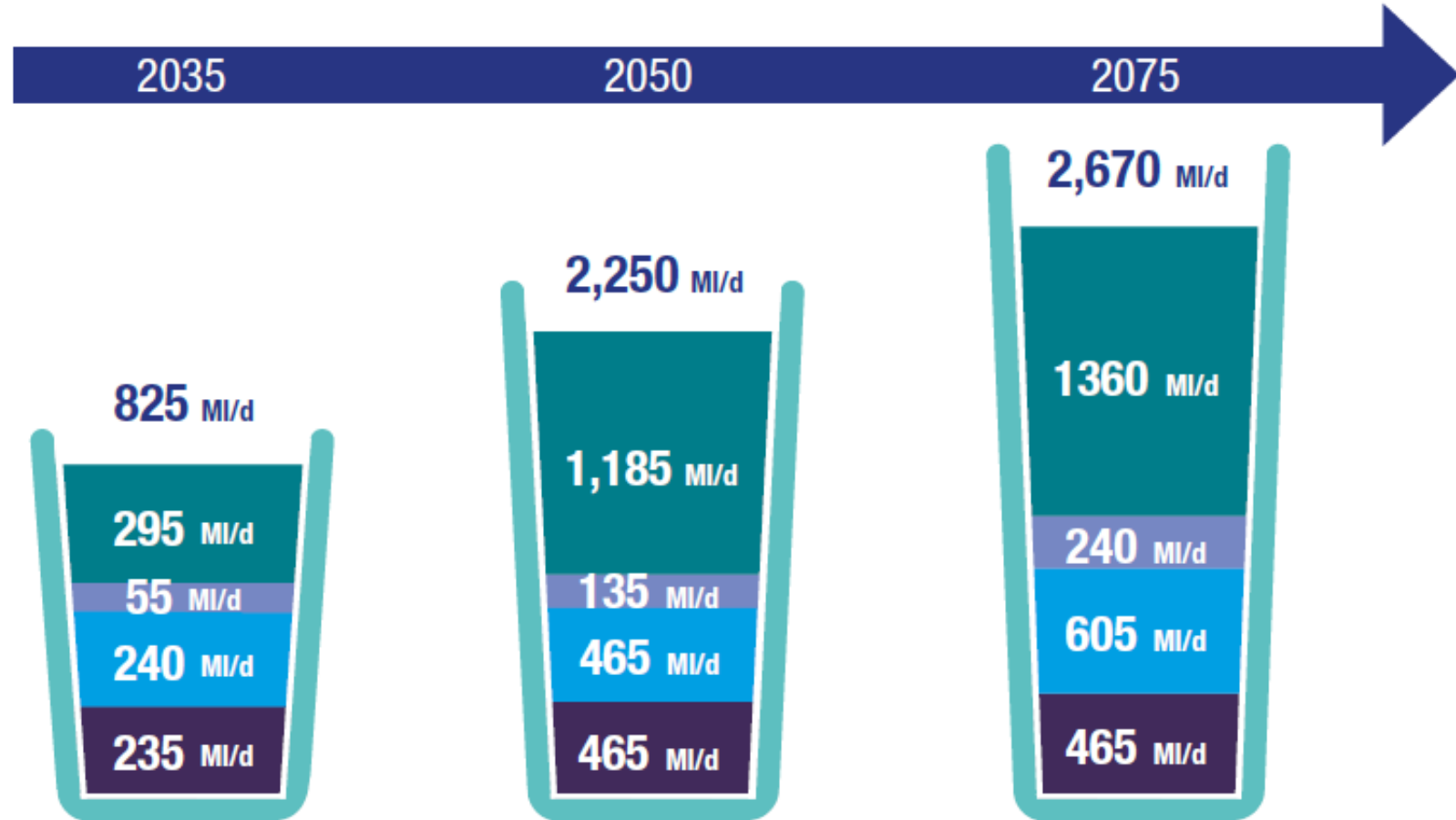


Mind the gap

Pressures on the supply/demand balance

Key

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



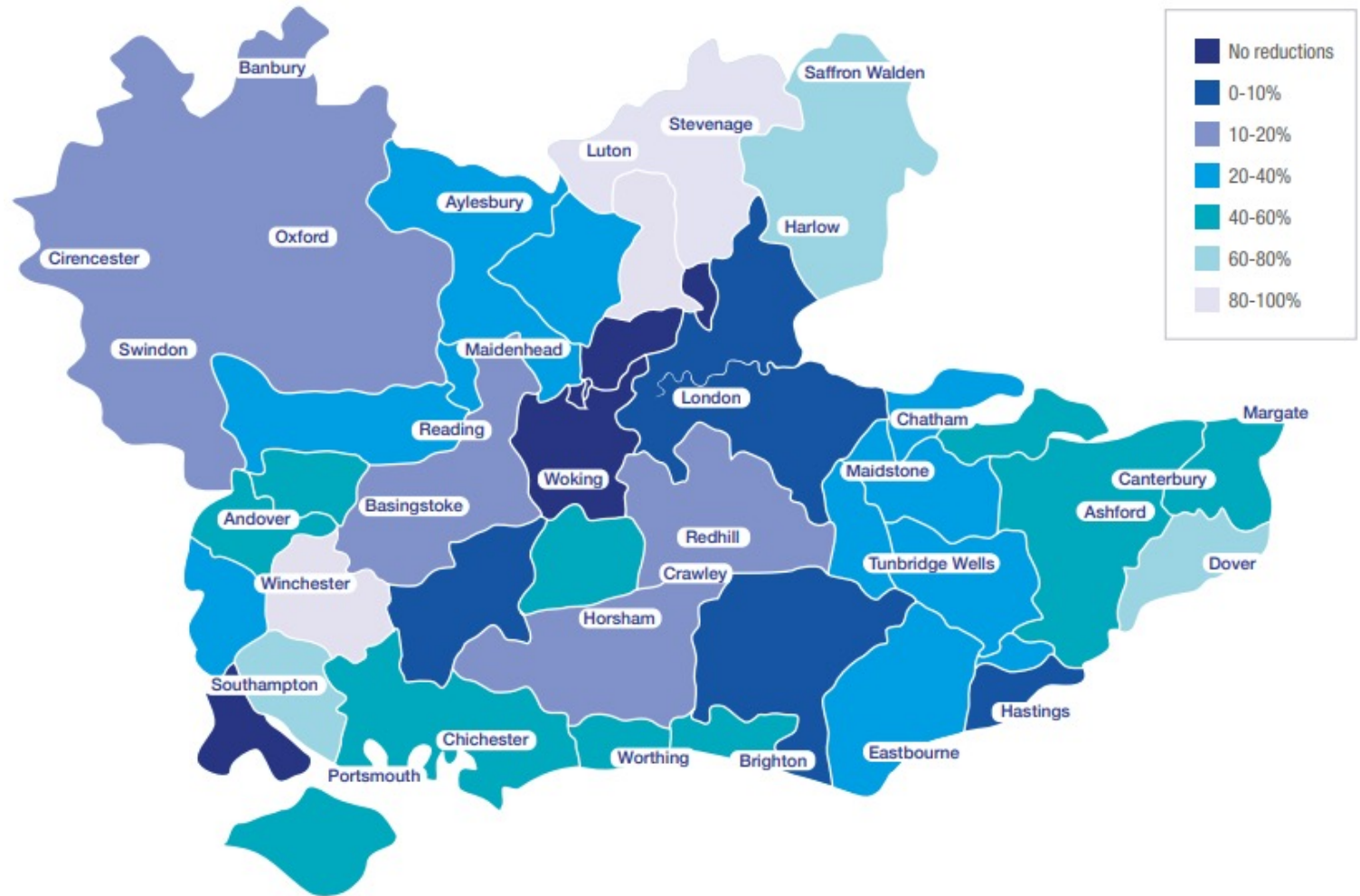
*Climate change represents how much water will no longer be available from our existing water sources. The impacts of climate change are also included in the three other areas.

Environmental improvement through reducing abstraction

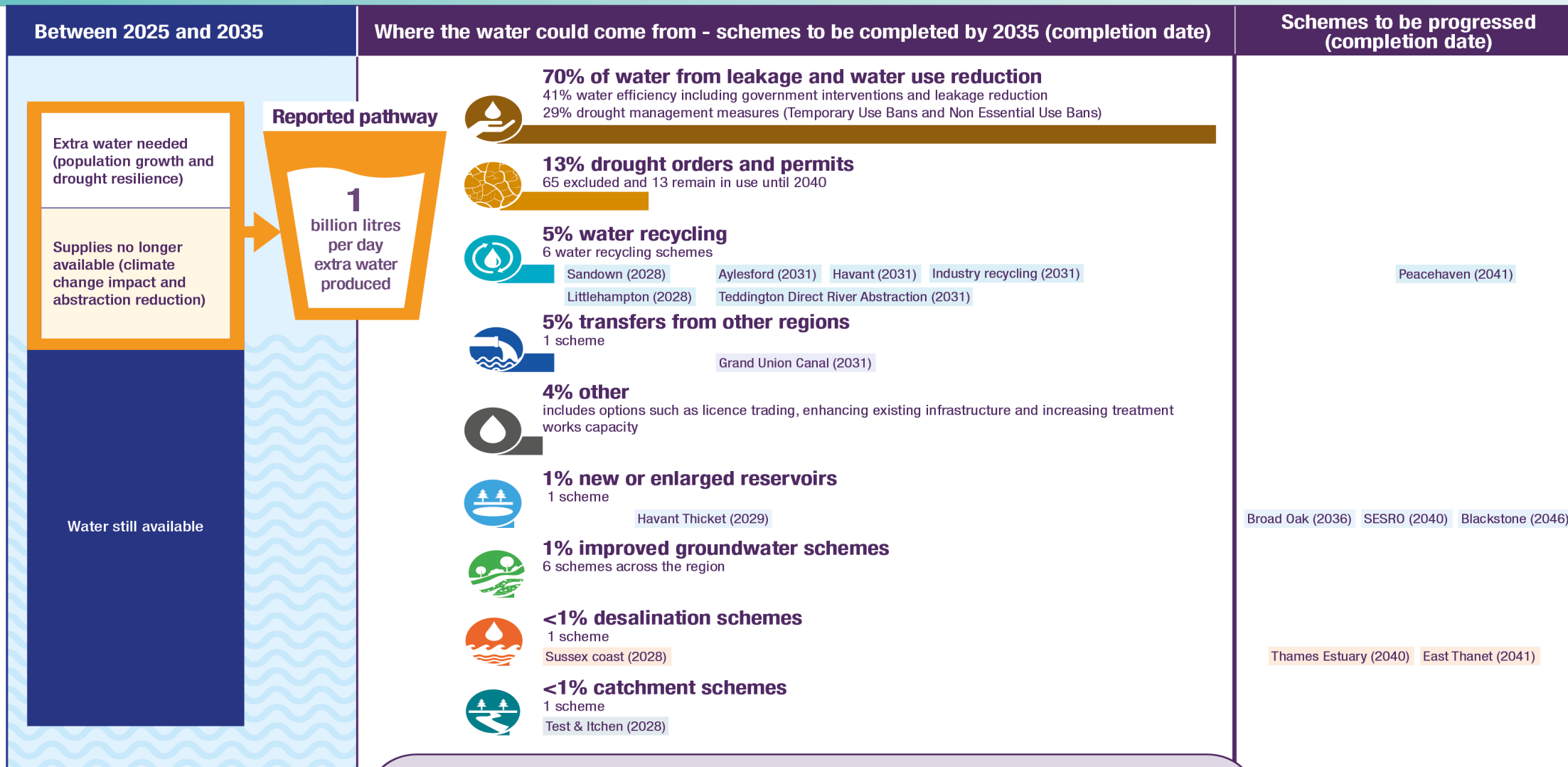
Abstraction reduction must be evidence-based and show the benefits that will be delivered

Working with regulators and stakeholders to develop a framework to prioritise where abstraction should be reduced

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



The plan – 2025 to 2035



600 million litres of water per day  could be moved around the WRSE region and between other regions

The plan – 2035 to 2075

