

Essex Water Strategy

April 2022

Lucy Shepherd
Essex Water Strategy Manager

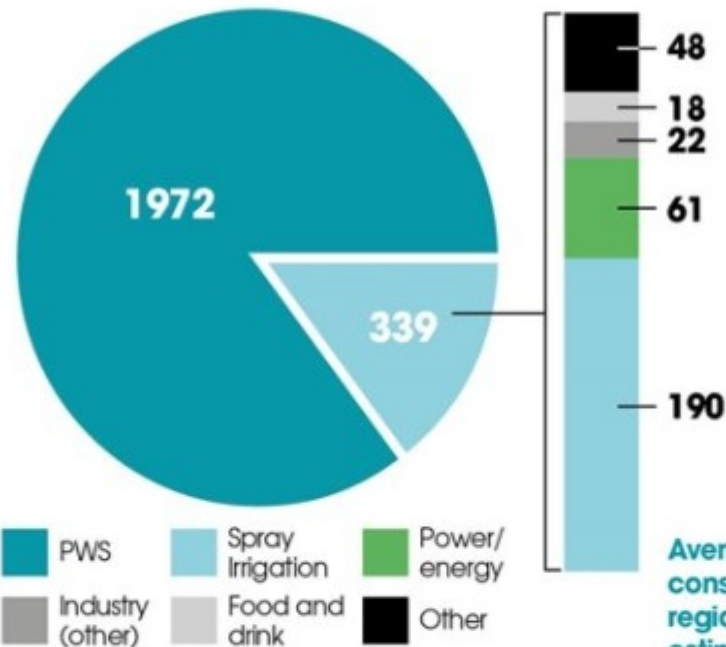


miro

Jaws of death.



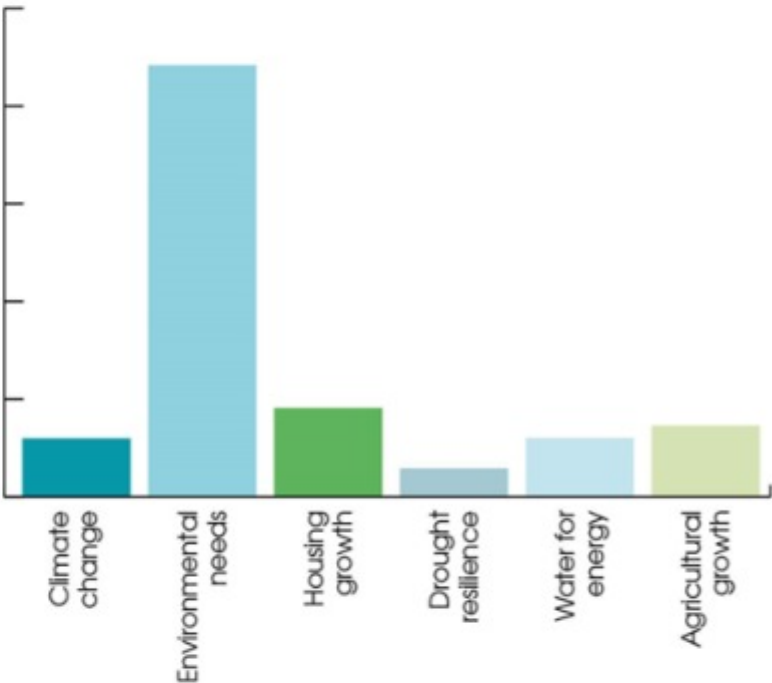
How water is used in Eastern England today



Average daily water consumption in our region is currently estimated at

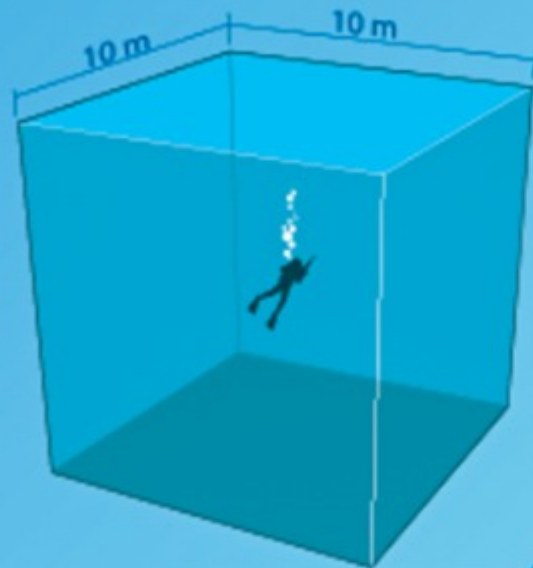
2,311
million litres

Potential additional water needs in 2050



1 million litres

- 1,000,000 litres;
- 50,000 five-gallon jugs;
- Enough water for 15,000 showers; and
- Enough water to fill a 25m swimming pool.



Essex Water Strategy

What does 2,311 million litres **daily** look like?

**10% of
Abberton**



**20% of
Hanningfield**



02

miro

The problem.

A MULTI-SECTOR, REGIONAL SCALE PLANNING PROBLEM

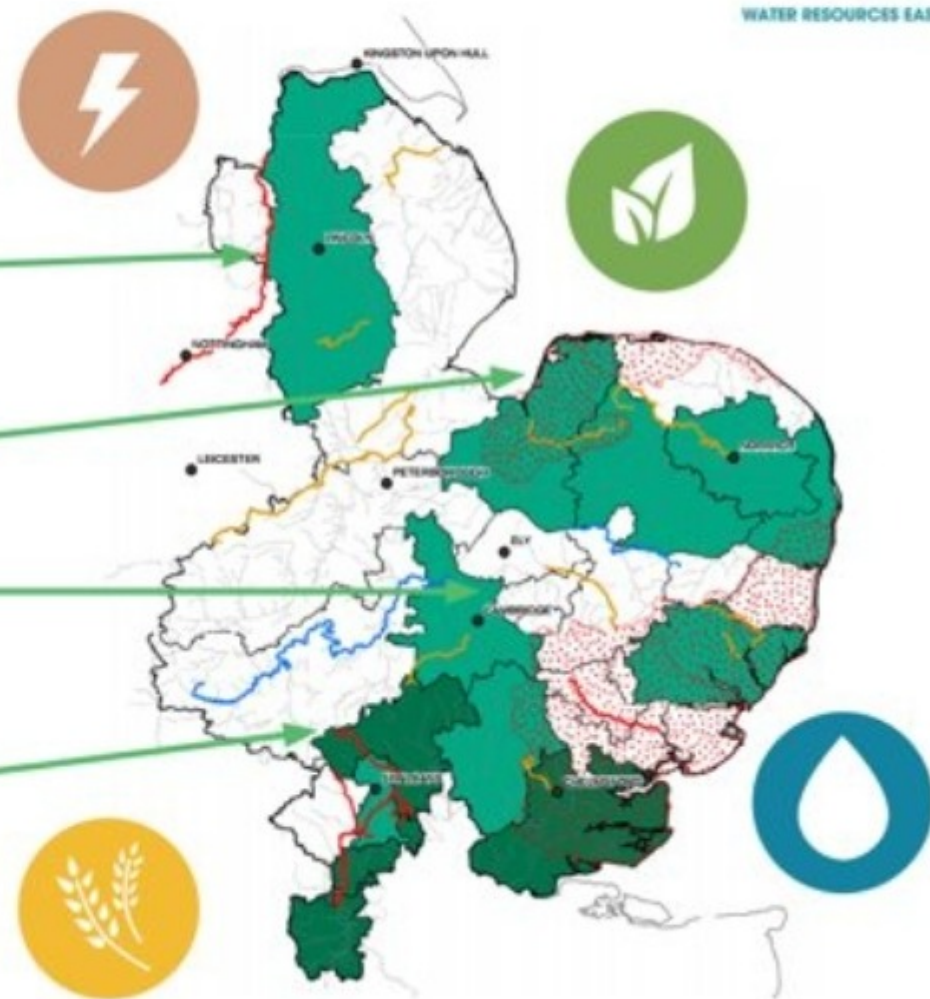
By the 2060's, the gap between the supply and demand for water will be at least 750MI/d. In the more severe scenarios that have been modelled, it is bigger. These estimates assume that levels of household demand are sustainable.

In scenarios with uncontrolled household demand there is widespread, catastrophic, failure of the WRE water resource and water supply systems.

Power and public water supply vulnerabilities combine on the Trent

Public water supply, agriculture and environmental vulnerabilities combine in North Norfolk, Suffolk and Essex

Public water supply and environmental vulnerabilities combine in Cambridgeshire, the Vale of St Albans and the southern Chilterns



Why?



04



Water Resource Management Plans

Drainage and Wastewater Management Plans

RAPID/Strategic Options

Catchment/Abstraction

Local Flood Plans

Green Infrastructure Plans

Natural Flood Management

Local Nature Partnership

Climate Focus Area

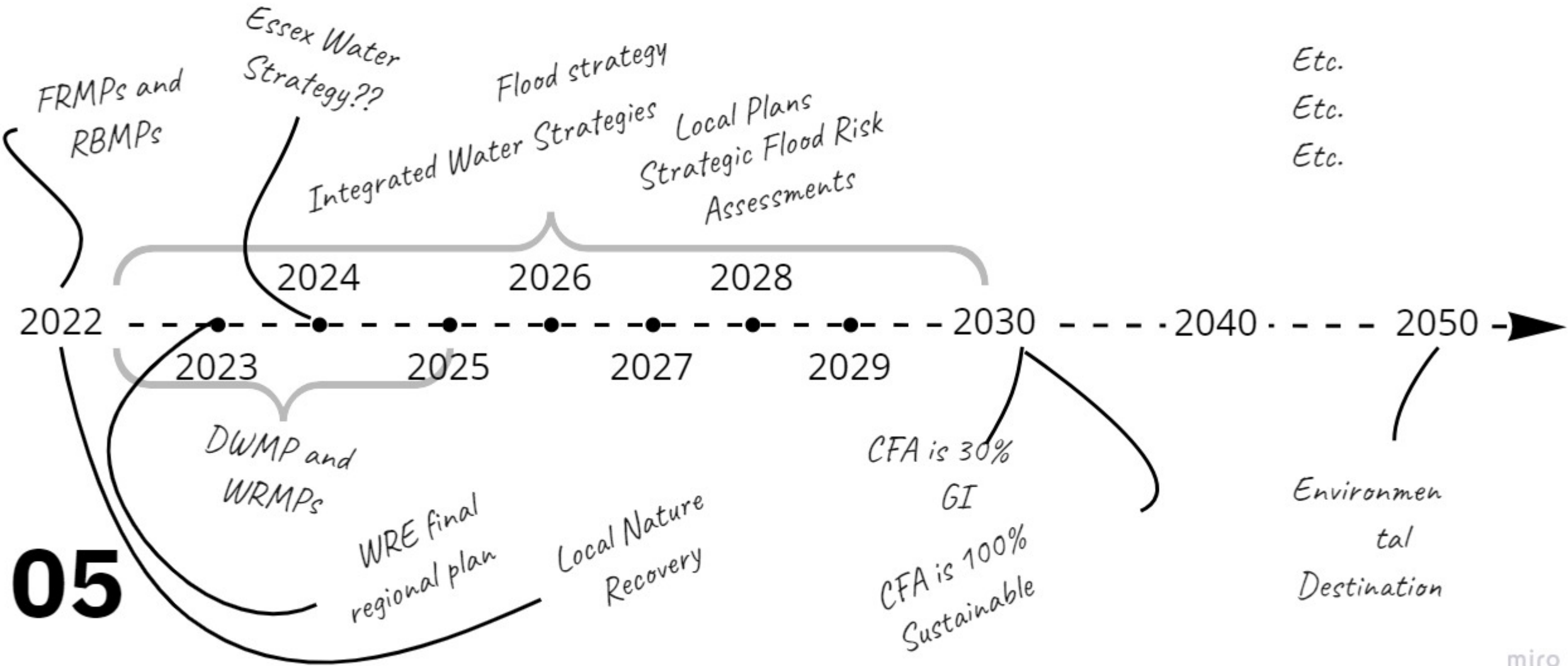
Regional Plans/Projects/Pilots

Local Plans

Local Water Studies

Strategic Flood Risk Assessments

Mindful of...



Essex Data.

One of the initial tasks is to compile a list of all the available data, what it does/tells us, who owns and reviews it, when it's due for update. So that we can build a county/catchment scale picture of the pressures we're facing.



Where are
the problem
hotspots?



*Where
can we find
solutions?*

Where can
we **deliver**
first?



Key Questions.

Have your say.
Tell us what you
think on Slido...

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Joining as a participant?

EWS



08



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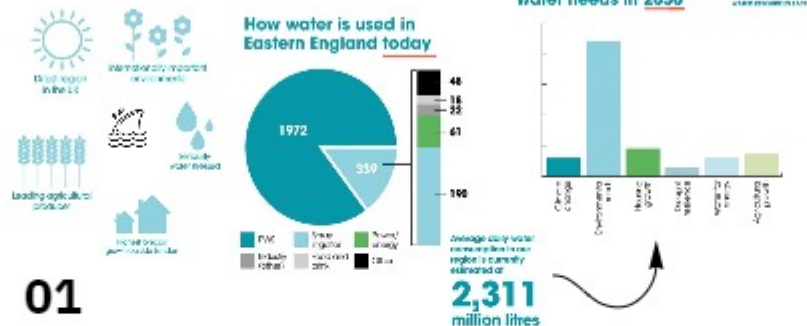
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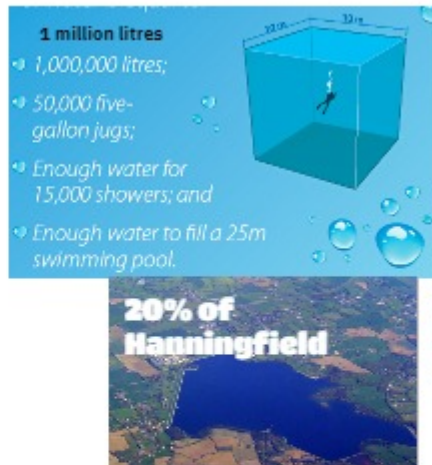


Essex Water Strategy

Jaws of death.



01



Essex Water Strategy

What does 2,311 million litres **daily** look like?



10% of Abberton

02

Essex Water Strategy

The problem.

A MULTI-SECTOR, REGIONAL SCALE PLANNING PROBLEM

By the 2050's, the gap between the supply and demand for water will be at least 700Mld. In the more severe scenarios that have been modelled, it's bigger. These estimates assume that levels of household demand are sustainable.

In scenarios with uncontrolled household demand there is widespread, catastrophic failure of the water resource and water supply systems.

Power and public water supply vulnerabilities combine on the front

Public water supply, agriculture and environmental vulnerabilities combine in North Norfolk, Suffolk and Essex

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03

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Key contributors.

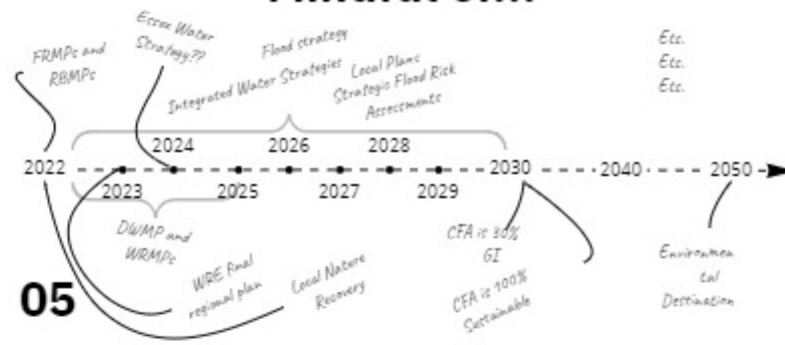
Why?



04

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Mindful of...



05

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Essex Data.

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Where are the problem hotspots?

Where can we find solutions?

Where can we deliver first?

06

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Opportunities to integrate.



07

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Key Questions.

Have your say. Tell us what you think on Slido...

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Joining as a participant?

1/2/3

08

