

DWMP Update

Essex Flood Partnership – 18/02/2021



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DWMP Update



- [Strategic Context](#) – was published in October
- Completed and shared with stakeholders - refreshed next month.
- BRAVA – modelling complete and sharing results today
- Problem Characterisation – stakeholder workshops completed last year
- Optioneering – modelling and stakeholder workshops planned for this year
- To be completed this time next year
- Visualisation tool under progress

DWMP process

RBCS

- All catchments assessed against a range of measures
- 564 catchments and 97% of population pass through to the next stage

BRAVA

- All 564 catchments assessed against 2020, 2025, 2030, 2035 and 2050 scenarios
- Catchments assessed against the 10 stakeholder agreed Planning Objectives
- Catchments are scored a 0 = not significant to 2 = very significant score for each planning objective
- Scores are collated to score a Level 2 and Level 1 (regional) risk score for each Planning Objective
- The combined scores from each Planning Objective provides the optioneering route

Planning Objectives

Theme What group does this fit in?	Planning Objective What are we measuring?	Business Plan Outcome How does it track back to AWS business plan?	Goals What are we ultimately trying to achieve across the region?
Escape from sewers	★ Risk of sewer flooding in a 1 in 50 storm	Resilient business	Resilient to the risks of flooding
	★ Storm overflow performance	Flourishing environment	
	External sewer flooding risk	Investing for tomorrow	Enable sustainable economic and housing growth
	★ Internal sewer flooding risk	Delighted customers	
	★ Pollutions risk	Flourishing environment	Be a carbon neutral business by 2050
	★ Sewer collapses	Investing for tomorrow	
WRC compliance	DWF compliance	Investing for tomorrow	Work with others to achieve significant improvement in ecological quality
	★ Quality compliance	Investing for tomorrow	
Environment and Wellbeing	Access to amenity areas	Delighted customers	
	Green infrastructure	Flourishing environment	

Planning objective definitions:

Risk of Sewer Flooding in a 1 in 50 Storm

1 in 50 design storm event, which equates to a 2% probability of the rainfall event occurring in any given year.

Storm Overflow Performance

The number of spills from Storm Overflows (SOs).

External Sewer Flooding Risk

The number of outside areas within a boundary curtilage flooded by water from our sewers.

Internal Sewer Flooding Risk

The number of properties flooded internally by water from our sewers.

Pollutions Risk

Number of pollution incidents classed as Category 1-3 by the Environment Agency.

Sewer Collapses

Number of sewer collapses.

Dry Weather Flow (DWF) Compliance

Percentage of measured DWF vs permitted DWF.

WRC Quality Compliance

Compliance with the environmental obligations outlined as the sanitary standards in the permit.

Access to Amenity Areas

Amenity score per catchment based on green space use.

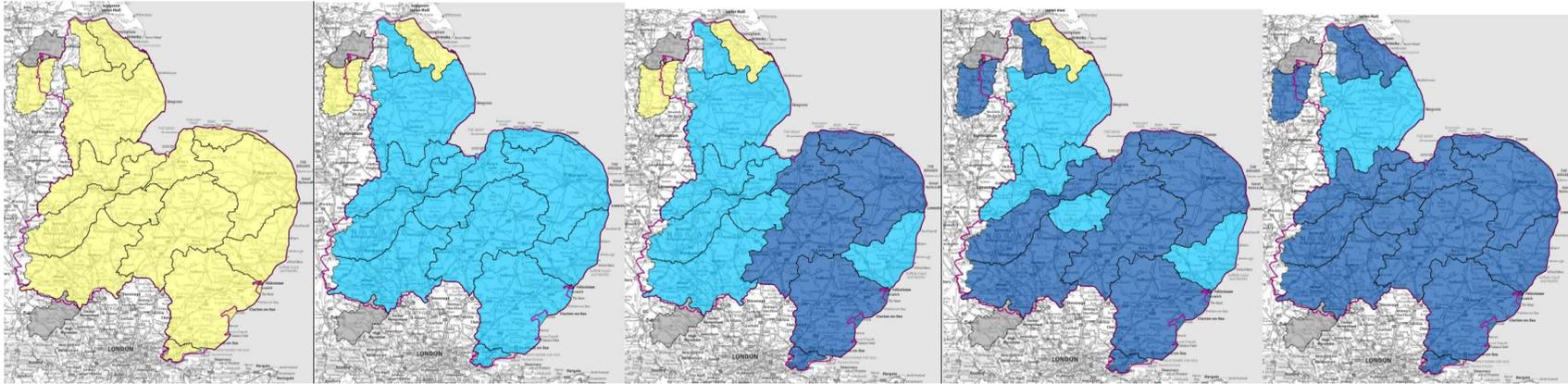
Green Infrastructure

Amount of green infrastructure within a catchment

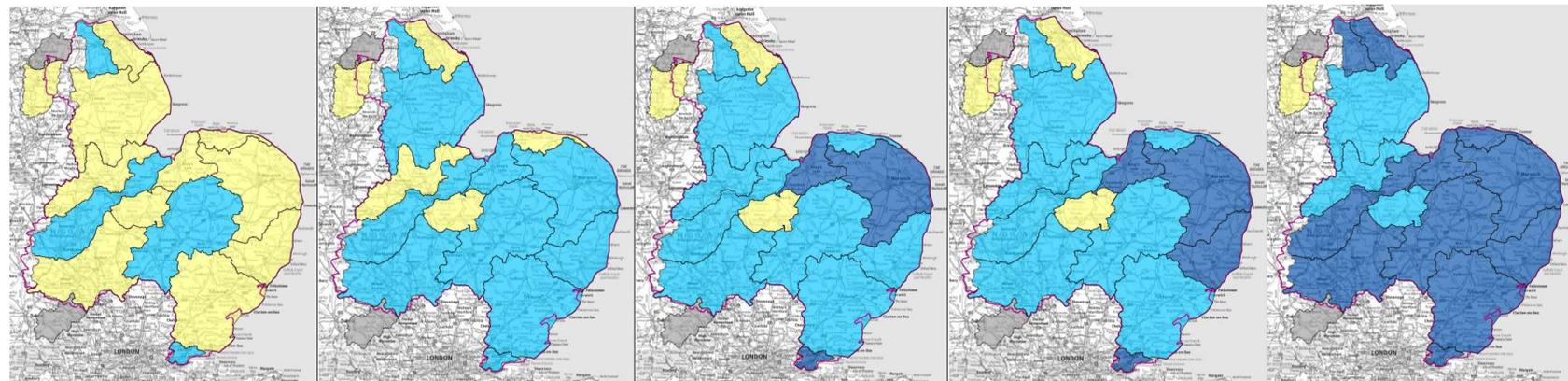
Alongside the Planning Objectives outlined above, the DWMP also asks us to review our assets in all catchments for their resilience against a range of measures.

BRAVA

External Flooding

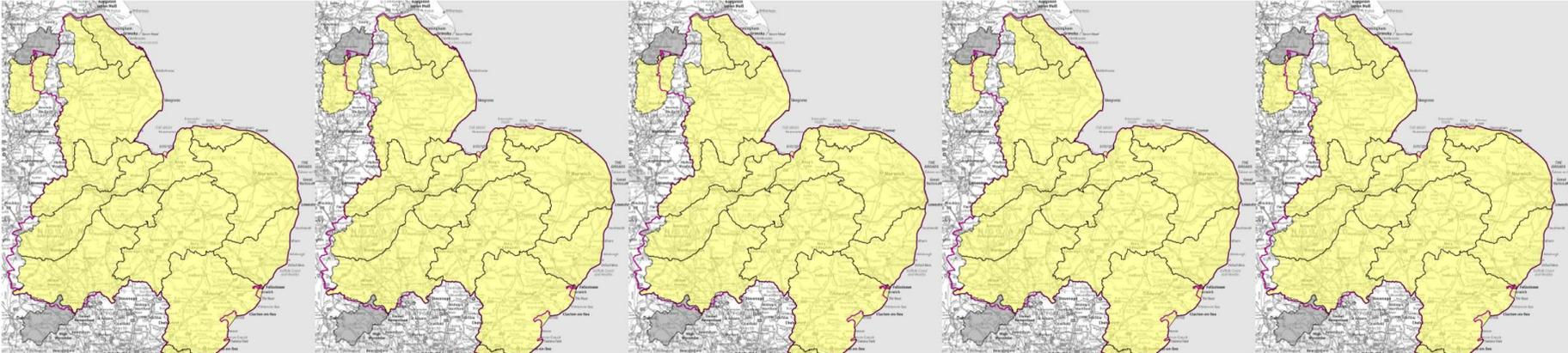


Internal Flooding

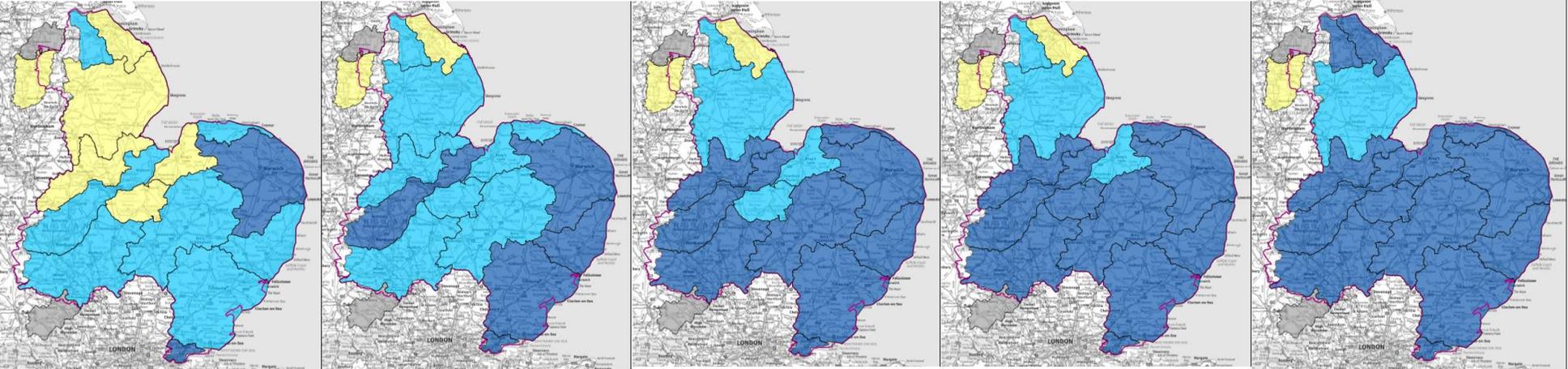


BRAVA results

1 in 50-year flood

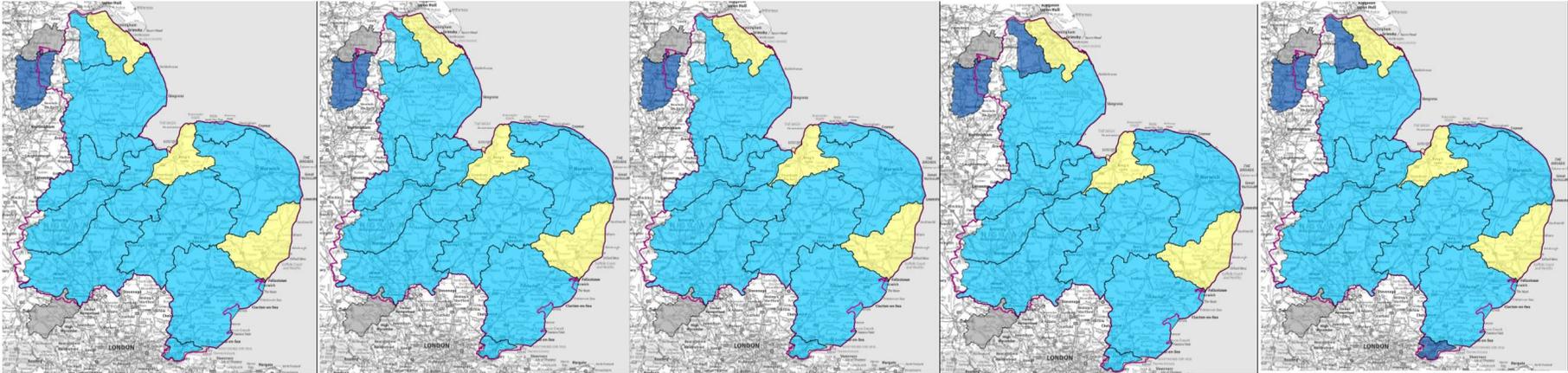


Pollutions

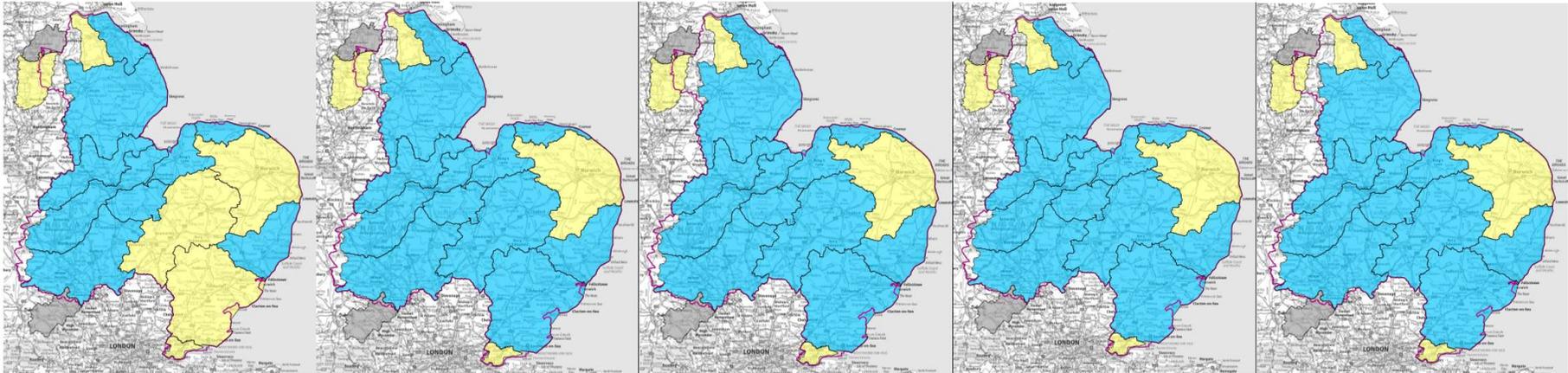


BRAVA results

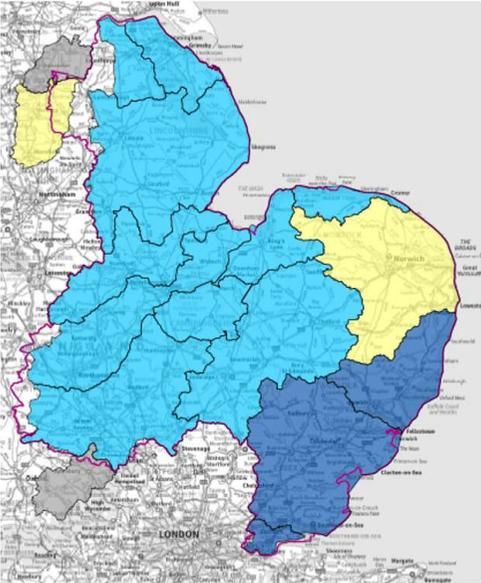
WRC DWF compliance



Biological Compliance WRC

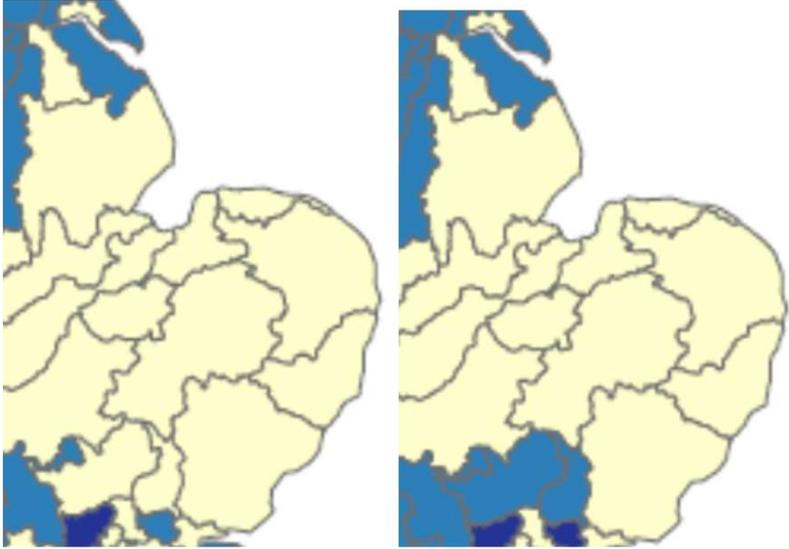


BRAVA results



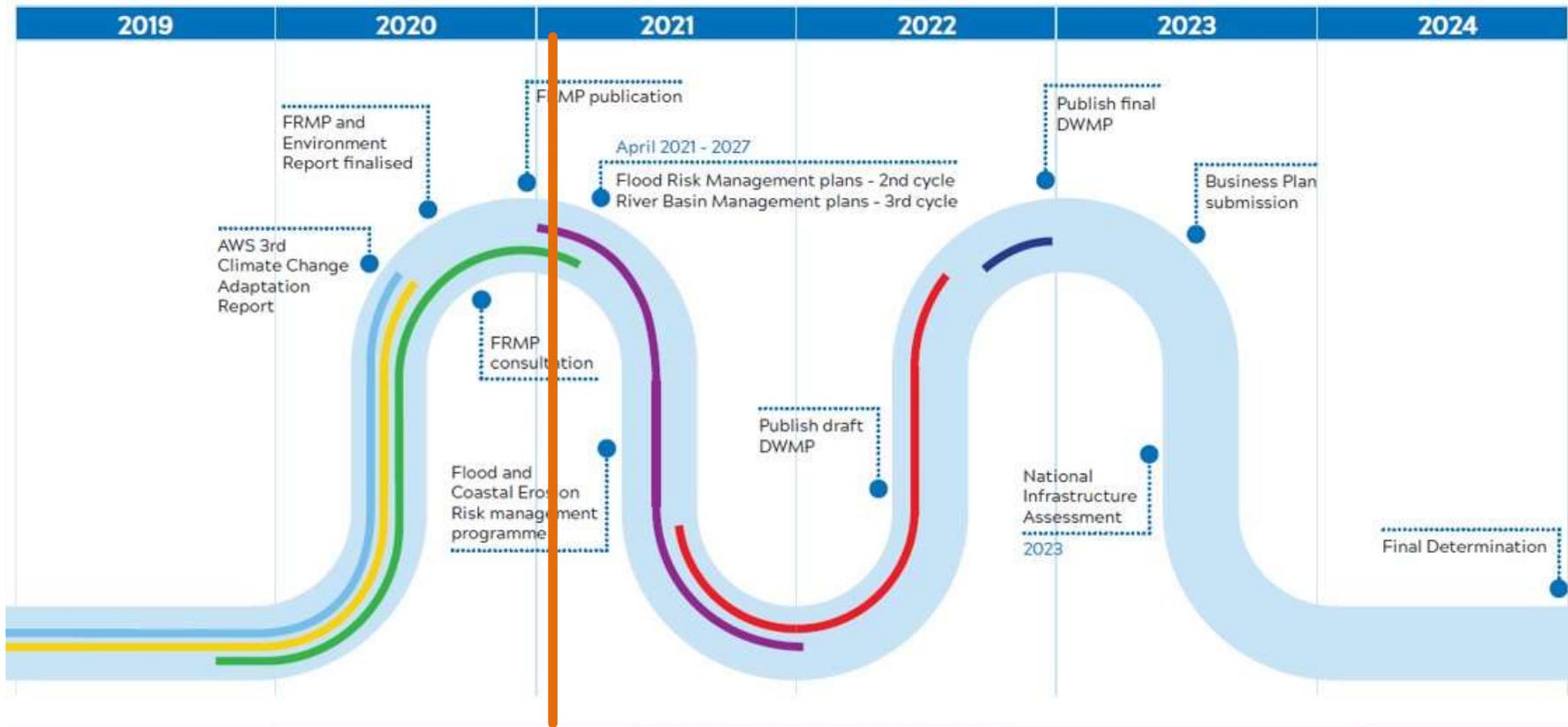
Collapses

Spills



Next 18 months

- Strategic context 2019 - Q2 2020
- Risk Based Catchment Screening (RBCS) 2019 - Q2 2020
- Baseline Risk and Vulnerability Assessment (BRAVA) Q4 2019 - Q1 2021
- Options Development and Appraisal (ODA) Q1 2020 - Q4 2021
- Programme Appraisal Q2 2021 - Q2 2022
- Consultation Q3 - Q4 2022



WRE
 February 2020 Resource position statement
 August 2021 1st draft
 January 2022 Informal consultation
 August 2022 Publication

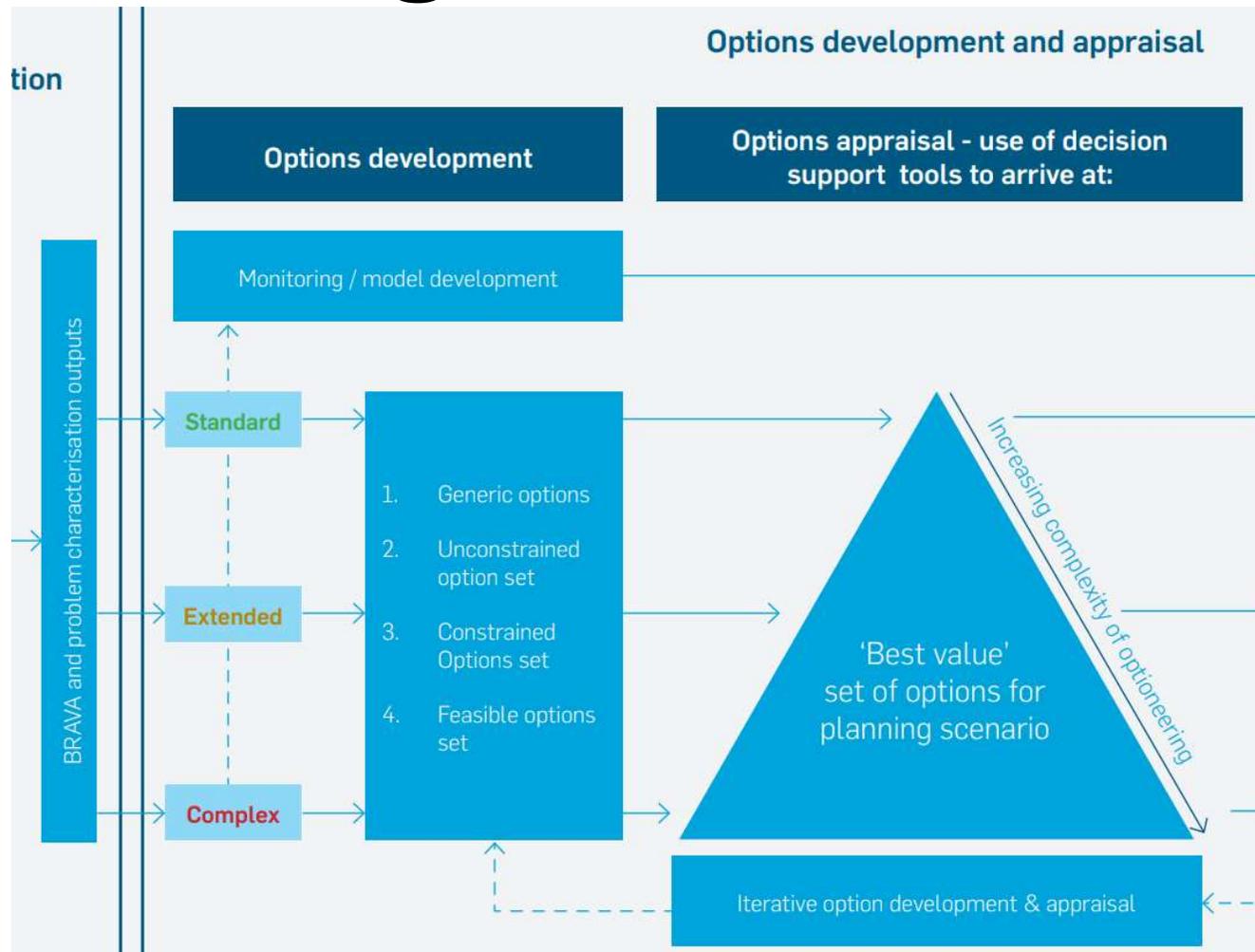
Drought plans
 January 2021 Draft submitted
 February 2021 Consultation
 August 2021 Publish statement of response
 January 2022 Publish final

WRMP
 December 2020 WRPG published
 January 2022 Pre consultation
 August 2022 Submit dWRMP
 September 2022 dWRMP consultation

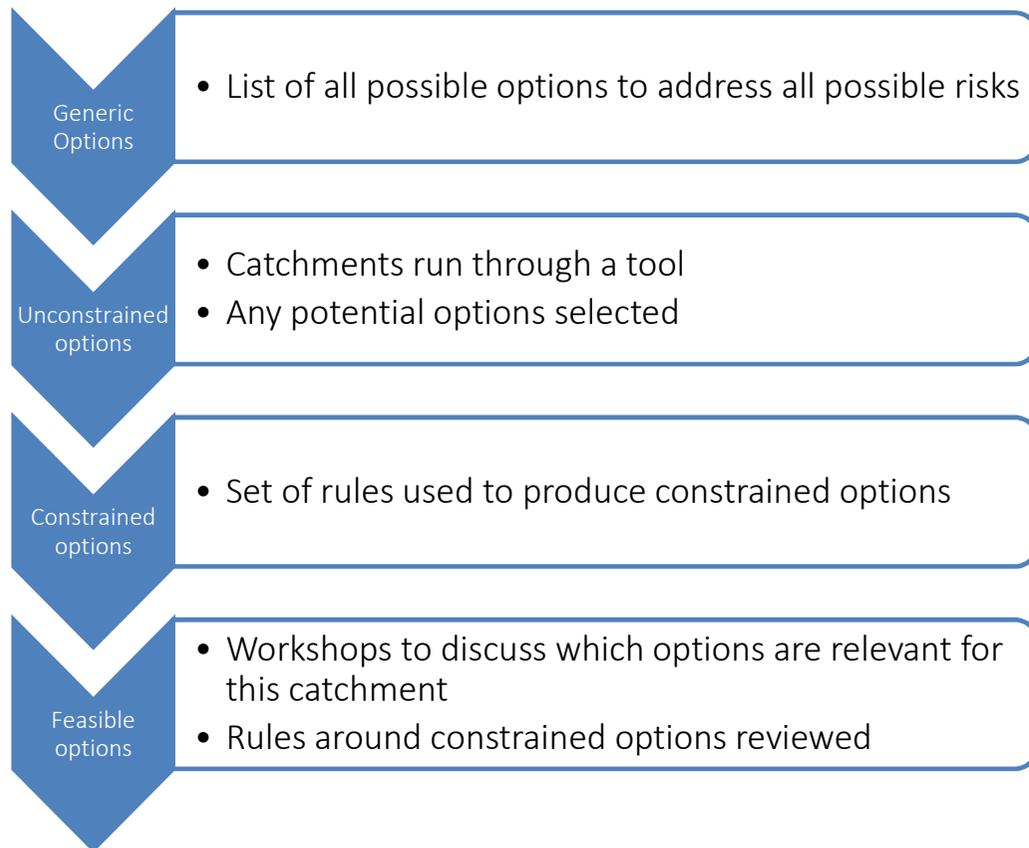
* DWMP: Drainage and Wastewater Management Plan * WRE: Water Resources East
 * FRMP: Flood Risk Management Plan * WRMP: Water Resources Management Plan



Optioneering



Optioneering



By the end of the year we will have:

- A costed solution for risks presenting in AMP8 (and possibly AMP 9)
- A strategy for the catchments where risks are presenting in the 10-25 year horizons

Programme appraisal in early 2022 will then look at prioritising these options.

Thank you
for listening

