

Participatory water tariff review: the market research perspective

First European Forum On regulation of water services (EFRWS)

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Accent: Experts in researching the water sector since 1988



Accent: Instrumental in the development of valuation work/customer engagement

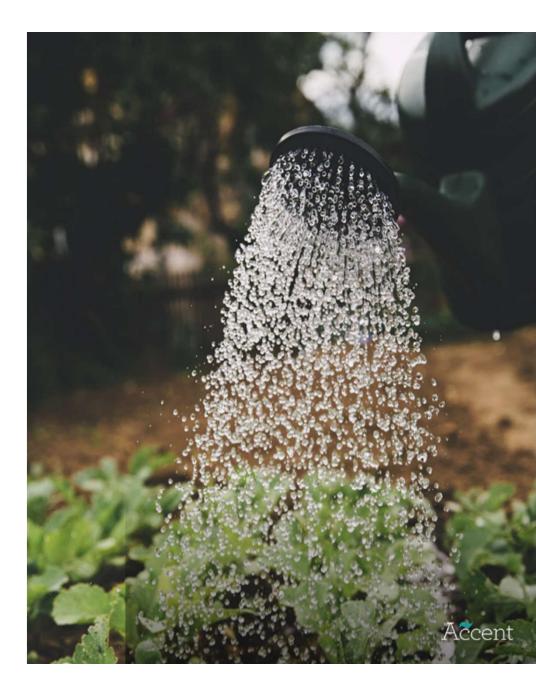
Accent in valuation to the wa sector York	n work	WTP becomes embedded within price review work for PR09 Working with multiple water companies		Publication of m	mmon /TP	Accent evaluate Ofwat feedback on PR14 Refine valuation processes for PR19	
1999	2003	2008	2011	2012	2013	2015	2018/19
	Leada Study for PR04		Ground breaking work for		WTP becomes further embedded		Implementation of refined valuation work
	YorkshireWater Awarded the OR Society's prestigious President's		SCOTTISH WATER		within price review work for PR14 Working with multiple water companies		for PR19 Working with multiple water companies
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What does good engagement look like?



The challenges

- Context: binary, distant relationship with water company
- **Subject**: challenging for customers:
 - Water!
 - Performance of the sector
 - Assessing & responding to risk
- Regulator: customer comprehension, engagement (gamification), moving on from PR14
- Customer Challenge Groups: robust, engaging, meaningful



It should be based on two pillars

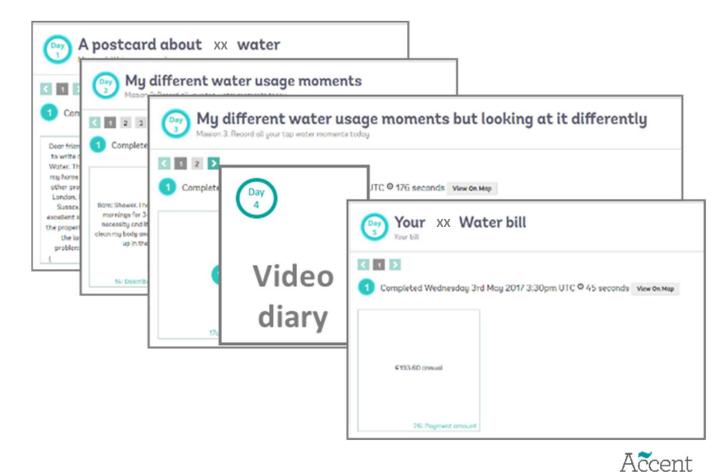
- Opportunity for customers to contribute fresh ideas from the start
- Robust and engaging prioritisation, willingness to pay and acceptability testing of business plans



Pillar one: to enable fresh ideas requires extensive pre-tasking

Example – online pre-task app:

- Providing a mechanism to allow participants to engage in a low interest sector
- Helping them to re-evaluate the subject area



Pillar two

To obtain estimates of customers' WTP and acceptability levels for service level changes for:

- Deriving cost-benefit appraisals
- Setting performance commitment levels
- Defining outcome delivery incentive rates
- Exploring acceptability



Earlier versions of WTP design struggled to engage

In the stated preference design

How presented to customers

Which of the following strategie	es would you prefer Northumbria	n Water to pursue?			
	Alternative 1	Alternative 2			
Discoloured Water	5,000 complaints each year	3,000 complaints each year			
Taste and Odour of Drinking Water	2,000 complaints each year	1,500 complaints each year			
Low Pressure	270 out of 1.2 million properties	135 out of 1.2 million properties			
Loss of Supply	1,600 out of 1.2 million properties	1,200 out of 1.2 million properties			
Internal Sewer Flooding	250 out of 1.2 million properties	380 out of 1.2 million properties			
External Sewer Flooding	1,800 out of 1.2 million properties	2,400 out of 1.2 million properties			
Leakage (per property)	130 litres/day	150 litres/day			
Climate Change (reduction in emissions)	20% reduction	0% reduction			
Reducing Sewage Litter	800 out of 1,500 outflows screened	800 out of 1,500 outflows screened			
Bathing Water Quality (passing highest standard)	29 out of 33 bathing waters	29 out of 33 bathing waters			
River Water Quality (not capable of supporting wildlife)	17% of water returned	17% of water returned			
Cost (change to annual water bill before inflation)	Increase by £26 per year	Increase by £16 per year			
Choice (tick preferred option)					

CHOICE CARD W1 Which option would you prefer?

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	OPTION A	
DISCOLOURED WATER lasting for a week at a time. The chance that this happens at your property in any one year.	1 in 500	
SHORT-TERM INTERRUPTIONS lasting 3 to 6 hours on average. The chance that this happens at your property in any one year.	1 in 25	
LONG-TERM INTERRUPTIONS lasting more than 24 hours The chance that this happens at your property in any one year.	▲ 1 in 3000	
HOSEPIPE BANS from May to September. The chance that this happens at your property in any one year.	1 in 20	
Which option do you prefer?		

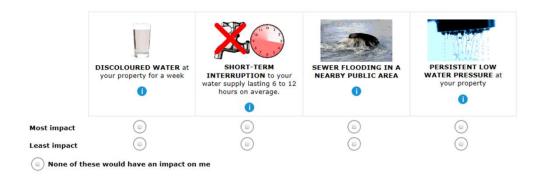
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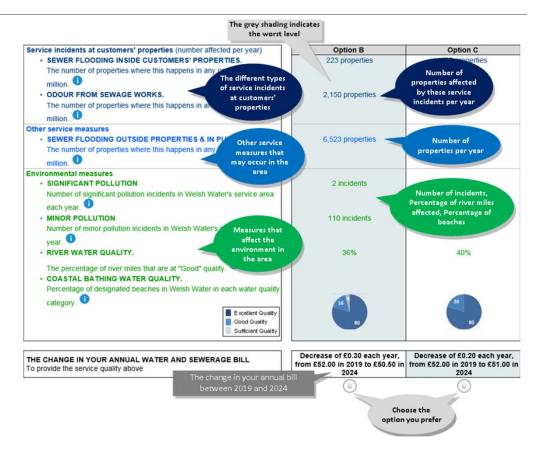
Lessons over time

- Needed to be more engaging
- Care with risk presentation
- Triangulation
- Need for increased segmentation



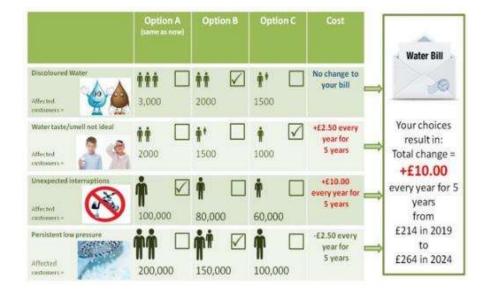
Modern era - MaxDiff







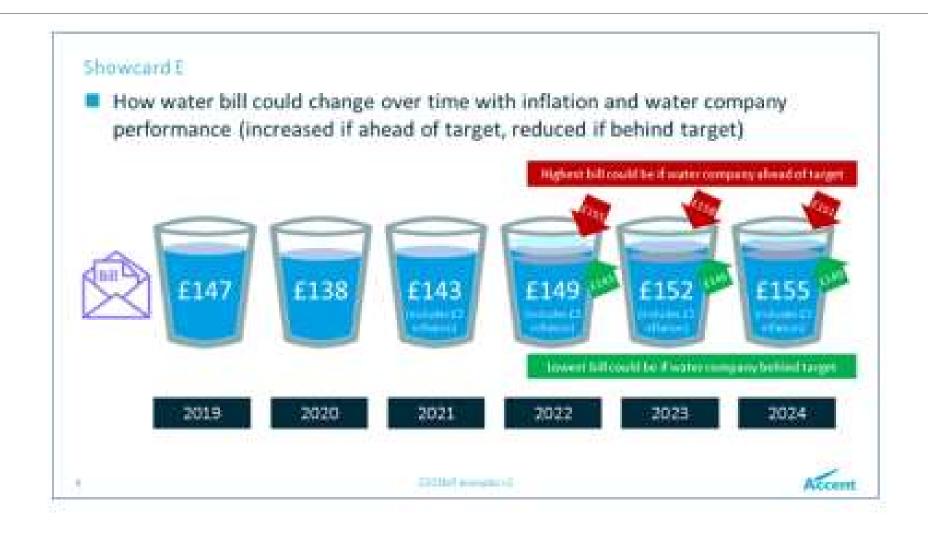
Modern era - menu based



	Option A		Option B		Option C			
Drinking water acceptability (Consicas per 1,000 population)	0	23	0	12	0	732	No change to your bil	
minking water availability (Average minuter (or))	0	12.2	0	τü	0	2	+£5.00	
eakage (Linespropertyralig)	0	121	0	100	0	356	No change to your bill	
reventing pollution dourneer of cat 3 micherizy	0	100	0	-90	0	75	+£2.50	
wer water improvements (on improves)	0	0	0	150	0	225	No change to your 50	
ewage in the home (Response)	0	23	0	200	0	Viet	+£0.25	
ewage in the street (Properties)	0	4,833	0	6300	0	61700	No change to your bill	-
lorst served customers - low pressure (Properties)	0	35	0	10	0	10	+20.35	
arst served customers - interruptions to supply (Properties)	0	1,400	0	1,000	0	100	+£6.00	7
inst served customers - sewer flooding (Properties)	0	1,547	0	6,280	0	1.203	No change to your bill	
elp for customers experiencing financial hardship //i= ar atomers on social tariffs)	0	102,000	0	150,000	0	200,000	+28.00	
onger term protection of wastewater networks to storms (Soof guadentie	0	25.000	0	43,000	0	60,000	+£3.03	
educing fossil fuel dependency (% or tass' energy use)	0	3236	0	3538	0	4016	No change to your bill	
rotecting your service in extreme events //# Resilience/	0	5478	0	174	0	20%	No change to your of	



Modern era – acceptability testing





Need to accommodate different segments

For example, vulnerable customers

On WaterSure tariff	* ***********************************
High water need	* ***********************************
Over 75	† ††††††††† 6%
Struggling / in debt	†† †††††††† 18%
Low income household	** ********* 21%
Household receives benefits	††† ††††††† 29%
Disability in household	††† ††††††† 29%
Any vulnerability	********** 56%

Source: Customer Response to Competition in the Domestic Water Market, Accent June 2016



What have we learnt?



Some of the themes that emerged

- Need for social tariff for lower income customers
- More emphasis on environmental issues
- Little/no appetite for a reduction in prices
- Longer term resilience concerns



What next?



Future challenges

- Increasingly more engaging
- More segmentation
- Dealing more effectively with risk
- Mixed methodology surveys
- Time poor participants



Thank you

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