UNLEASHING DIGITAL TO UNLOCK VALUE

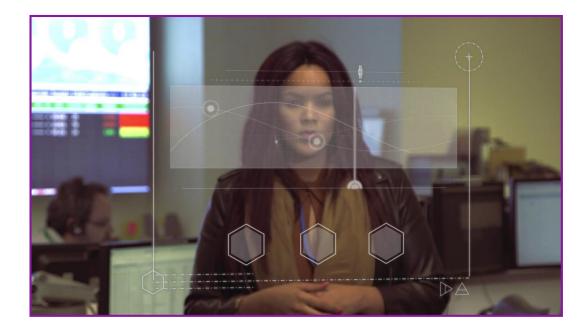
27 MARCH 2017



OUR VISION

By 2020 to be the most trusted water company:

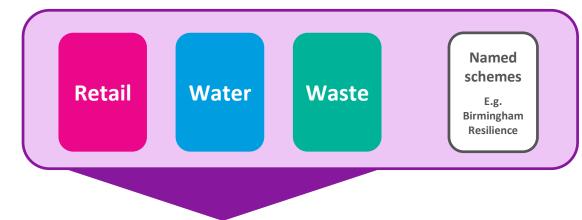
delivering an outstanding customer experience, the best value service and environmental leadership.



CREATING VALUE FOR CUSTOMERS AND SHAREHOLDERS

Previously announced **£670m** totex savings

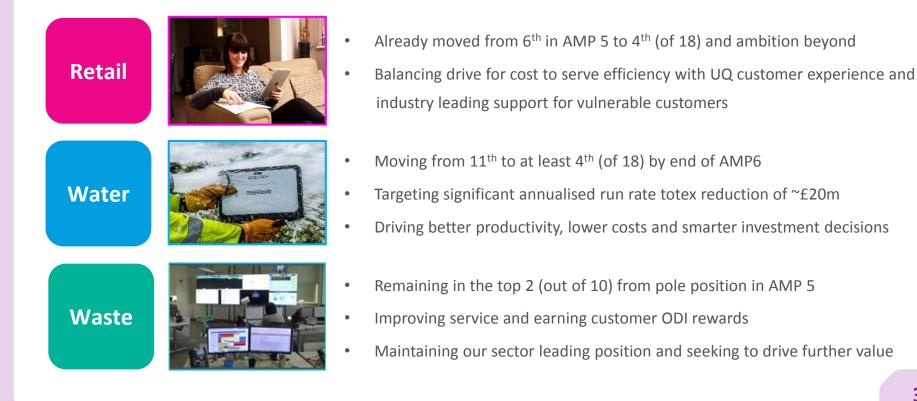
Outperforming our Final Determination by **£260m** Helps us on our journey to build a leading business



Ambition to be 'Upper Quartile' by the end of AMP6 and beyond into AMP7

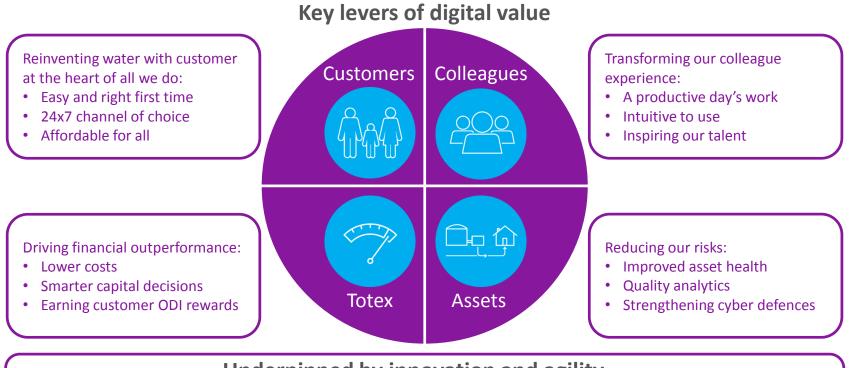
BUILDING A LEADING BUSINESS

The outcomes we are driving to deliver against our Upper Quartile (UQ) ambition:



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DIGITAL STRATEGY



Underpinned by innovation and agility

Devices – smartphones, tablets, sensors, wearables, drones, satellites, robots

Design – apps, interfaces, architecture, integration

Data – capture, accuracy, analytics, predictive modelling, insight

BECOMING A UQ RETAIL BUSINESS

Retail

- Outperforming our retail industry allowance of £21 cost to serve each customer each 50p per customer of efficiency is worth £1.7m
- We are currently delivering performance of £17.50
- Reduced operating cost
 - Shorter calls, improved utilisation, fewer repeat calls
 - Channel shift to new self serve & lower cost channels
 - Reducing unnecessary contact
- Improving bad debt performance
 - Using data to accelerate debt payment and also support vulnerable customers
- Improved experience through first time resolution and choice of channels with the only 24 x 7 full service offer in the sector
- Building long-term value through customer data and insight



	New contact centre desktop
	New website & digital channels
	New bill
1	
	New customer data analytics

BECOMING A UQ WATER BUSINESS

Water

- Targeting significant annualised run rate totex reduction of ~£20m
- Reducing operating costs
 - Less travel time and shorter time per job
 - More efficient use of chemicals and consumables
 - Lower costs on fines from the Highways Agency
- Making smarter investment decisions
 - Improving data capture of asset health and maintenance tasks
 - Using analytics to predict asset deterioration
- Reducing risks by real-time water quality measurement and insight
- Creating a culture to embrace new technologies, including satellite imaging, to continually reduce costs and risks



l	New fieldworker apps and devices
(New stores apps & centres
	New network modelling system
/(New quality analytics
(New treatment works app
(Developing satellite imaging

BECOMING A UQ WASTE BUSINESS

Waste

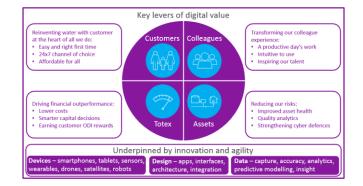
- Remaining in the top 2 (out of 10) from pole position in AMP 5
- Improving service and continuing to earn strong customer ODI rewards
 - Connecting sensors and analytics to prevent flooding and pollution
 - Quicker diagnosis and resolution of jobs through analytics
- Maintaining our sector leading efficiency
 - Using automation and remote control operation to reduce operating costs
 - Optimising asset investment by advanced modelling
 - Reducing environmental impact and risk by intelligent data driven decision making
- Developing opportunities for further efficiency through innovation, such as drone inspection
- Creating value through innovative use of reusable materials



New operational decision system				
	New colleague app for customer ODIs			
	Supply chain now on fieldworker app			
	New works automation			
	New risk management app			
	Developing drone technology			

CONTINUING TO DRIVE AND EMBED A DIGITAL FUTURE

- Our digital strategy is making a huge difference today
- All our investments pay back on a two year basis
- We are entering year three of AMP 6 and we are not stopping



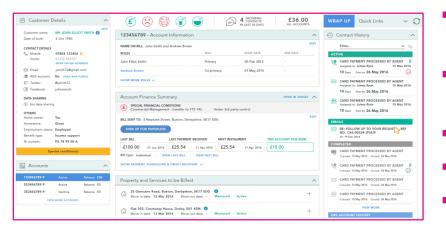


- We are embedding innovation to embrace new opportunities
- Our customers are at the heart of all we do
- We are transforming the experience for our colleagues
- We have unleashed digital and are creating value

Retail

CUSTOMER MANAGEMENT PORTAL

New customer advisor desktop, collating diverse sources of information into a single, insightful view of the customer



- Drives productivity improvements and an improved customer experience
- Reduces call handling time to 5 minutes from 8 minutes per call – a £330k cost saving per year
- 15% reduction in repeat calls since implementation
- Supports multi-skilling and reduces training time
- Easier customer identification, "one click" processes and use of empathy indicators enhancing service

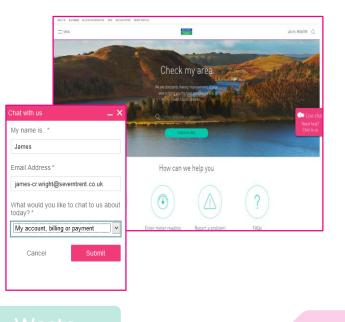


CHANNEL SHIFT TO DIGITAL

Multi-channel offering for customer contact, including self service, web chat and social media

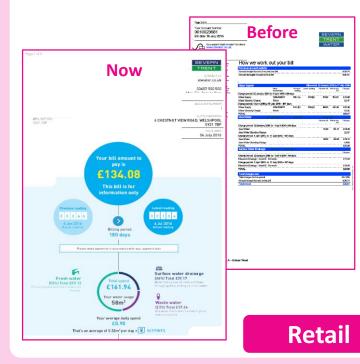
- 1.3m more customers using our digital service
- Reduces our cost to serve by £550k per year through lower FTE requirements
- Over 950k customers now using online billing saving £300k per year in printing and postage
- **£50m** online payments collected
- Only water company with 24/7 availability for all calls (not just emergencies)

Retail



NEW BILL FORMAT

Total redesign of the customer bill, focusing on simplicity and clarity



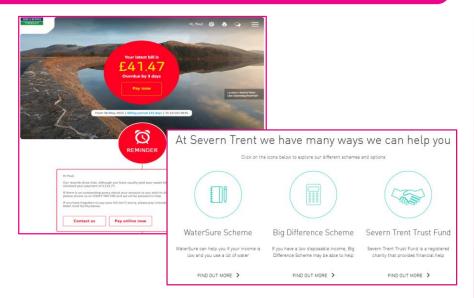
- Easier to understand bills has resulted in a 17%
 reduction in unwanted customer contacts since go-live
- For the recent main billing run, in February alone there were 15k fewer calls
- Customer feedback on the improvements has been great
- Currently designing an interactive digital bill to offer even greater ease of understanding and further reduce cost to serve

REDUCING BAD DEBT

Differentiating between customers who can't pay and those who won't pay, from leveraging data

- Obtaining additional information on our customers to optimise our collection strategy and improve collection rates
- Helps better identify those in need of financial support
- New approach to maintain our leading bad debt position and create further opportunity
- Online, interactive budget calculator process helps customers who are struggling to pay identify the correct payment plan

Retail



Water

SITE MATE

New devices, with easier to use fieldworker applications, improved connectivity and greater mobility



- Using latest version of Panasonic's Toughbook
- Enables quick and easy feedback on completed work
- New Fieldworker app improves productivity and reduces training timescales by 50%
- Better connectivity avoids colleague frustration and time wasted in searching for a signal
- Greater efficiency saves technicians 30 minutes per day, equating to over £500k per year

FIELD APPS

Two new applications for use in the field, built by our internal app team

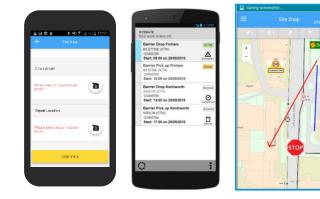
Water

SiteSnap

- Simplifies the creation of 100,000 traffic management sketches per year
- Reduces the number of permit application rejections
- Saves our technicians 20 minutes per day, equating to
 £360k per year

SiteView

- App records evidence of compliance with strict Highways Authority requirements
- Expect to avoid £250k per year in fixed penalty notices



STORE MATE

Consolidation of our stores and implementation of new stock management technology



- Stores now consolidated into three regional distribution centres and six satellite stores
- Barcoded stock control creates a supermarket style self-service experience
- Repair teams now saving 30 minutes per day
- Improves stock availability, reduces risks and enables better supplier discounts
- Savings generated of £1.2m per year through improved stock availability reduced one-off purchases

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SATELLITE TECHNOLOGY

Exploring options to use satellite technology to enhance asset monitoring and inspection regimes

- We are actively looking for new opportunities to use cutting-edge satellite technology
- Our first pilot has the potential to help identify leakage locations
- Will help reduce the cost to resolve leaks
- The technology works by identifying interactions of soil and chlorinated water
- We will seek to roll out if we can demonstrate a strong return on investment



PROACTIVE NETWORK MODELLING

Deployment of new high-speed data loggers around the network to support a move to prediction and prevention



- Loggers provide real-time information directly to control room
- Provides more detailed information about the health of the network and improves modelling
- Identifies pressure spikes which can lead to asset failure
- Helps identify root cause of failure to assist prevention
- Enables proactive intervention to prevent assets from deteriorating avoiding £1.5m in customer ODI penalties

CRITICAL TO QUALITY MONITORING

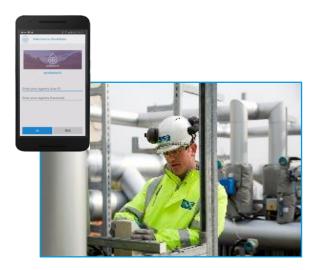
Enhancing control of water quality, through effective measurement and control of key stages in the process

- Implementing best-practice methodologies at major treatment works is improving data management
- Establishes the key measurement points at each process stage that are critical to the quality of the water
- Using technology including sensors ensures we understand our performance against these key measures in real time
- Allows proactive action to maintain quality and operate plants efficiently
- As a result, we have reduced quality failures at our works by more than 50% in the last two years



WORK MATE

New app which ensures our teams have readily accessible instructions to complete critical water quality tasks



- Ensures our teams do the right work at the right time
- Easily accessible, clear instructions and recording of actions completed
- Replaces old operational task lists saving time to re-key data at the end of each round
- Helps maintain our assets in the best possible health and keeps critical to quality measures within tolerance

WATER QUALITY ANALYTICS

Using the wealth of data in our systems to build analytical capabilities and help analyse the network

- Aggregating data to help identify areas at high risk of water-quality events
- Allows us to undertake proactive maintenance at these locations to maintain the health of our assets and prevent failures from occurring
- Expanding the use of data and analytics to support our overall management of asset health



Waste

PROACTIVE ASSET MANAGEMENT

An operational decision management tool to help identify blockages in the network and automate decision making



- Helps prevent floodings and pollutions
- Data from 1,000+ loggers combined with historic data and weather information to identify when a sewer is most likely to be blocked
- System automatically raises work for our operational teams to decide on the appropriate resolution
- Available on all our new mobile devices
- Improves our predictive capability by 33%, reducing pollutions by 50 per year and avoiding £3m in penalties

COLLEAGUE ENGAGEMENT IN ODIS

'Love Our Network' app developed to engage our workforce and get their help in looking after our assets

- Over 4,000 of our employees live and work across our network
- The app allows colleagues to easily report their observations as they travel around our region
- Helps look after assets, manage risk and improve customer service
- Forecasting a reduction of >5,000 customer contacts per year as a result of this app

It starts with you	RK
It starts with 9°	WORKMATE

Waste

SITE MATE

Using new Panasonic devices to help reduce the time to diagnose problems and provide an improved customer experience



- New software provides supply chain field workers with information about previous jobs completed at the property, helping quickly diagnose problems
- Using the empathy indicators from our Customer Management Portal, the field worker will know how the customer is feeling, providing better responsiveness
- Details entered in Site Mate automatically update our records and provide a status update to our customers through the "Track My Job" app
- App helps to improve our customer satisfaction scores and through rolling out to our supply chain, will save £146k per year

Waste

INTELLIGENT PUMPING STATION & CATCHMENT CONTROL

Waste

Network pumping station trial utilising machine learning, automation and remote control to optimise pumping operations

- Collaborating with our supply chain to create intelligent assets within the network
- Adopts new sensor technology
- Uses 'machine learning' to automate and remote control assets, preventing potential impacts on customers
- Aiming to optimise the network by utilising the large amount of latent storage





ST-ORM

Severn Trent Operational Risk Management (ST-ORM): new app-based system allowing easy recording of operational risks identified



- Allows colleagues to record all operational risks, realtime, wherever they are on mobile devices
- Enables easier identification and prioritisation of key risks
- Allows us to understand our overall risk profile and make fast decisions to improve the health of our assets
- Helps to prevent asset failure and enables better targeted investment
- Forecasting £400k per year totex saving through proactive risk mitigation

EFFLUENT FACTORY

Managing treatment work assets through visualisation, automation and remote control

- Enhances visualisation of process performance and remote control of assets
- Enables real-time decision making through sensors and monitors, with dashboards available on mobile devices
- Helps maintain the health of our assets and the integrity of our treatment processes
- Over the last 12 months at Spernal treatment works, we have saved £100k in energy and chemical costs



Waste

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PHOSPHATE RECOVERY

Water treatment technologies to remove phosphorus from sewage



- Phosphorus is abundant in sewage and is a major pollutant in rivers
- Tight standards are imposed that we have to meet
- Adoption of new technologies to remove phosphorus means we are now world leaders in this area, saving £10m this AMP
- Also leads to a new revenue opportunity; by refining the sludge into a high quality agricultural fertilizer and turning it into a valuable resource



DRONES

Utilising new drone technology to inspect our assets

- Used for applications including asset inspections
- Leads to savings from absence of scaffolding and minimises health and safety risks
- Estimated inspection cost savings of £300k per year
- Currently exploring other uses, such as checking that treatment processes are optimised
- Helps ensure compliance with discharge standards and maximises the quality of the raw products into our energy generation plant



Waste

SEVERN

TRENT