

NORTHUMBRIAN WATER living water

HELLO FROM HEIDI

Innovation Festival 2024 was an experience that needed to be seen to be believed – and it was fantastic that over 3,000 people were able to do just that in person in July.

However, if you weren't able to make it in person then this little insight should give you just a flavour of what our incredible event is all about, and what huge things went down in such a short week

Now, at the beginning of Innovation Festival, way back in 2016, the event came from very humble beginnings – as those of you who were there will remember, we were small but mighty.

Just six sprints in one small corner of Newcastle Racecourse and with less than 1000 innovators on site with us. Now fast forward to this year and to the ginormous and action-packed event that practically consumed every nook and cranny of the same venue.

The theme for IF24 was "Speed and Scale", which is something we unintentionally carried throughout every year of doing the event – by trebling it in size!

This year in particular was all about growing ideas at an exponential rate and making them as impactful as possible.

In this handy summary, you'll hear some record-breaking statistics about how our event exceeded even our high expectations and how we have generated more ideas than ever before - but before all that some thank you's from me.

Firstly, a thank you to all of our sponsors, without whom the Innovation Festival wouldn't even exist.

Thank you for supporting us, for sharing your expert insights and for helping us to make it the best year ever.

Secondly, a thank you to all of our volunteers and crew, who worked tirelessly to ensure that everything went smoothly despite the challenges thrown at us (mainly the unpredictable weather!)

Finally, and most importantly, thank you to all of our amazing attendees who brought the energy, ideas, and made the festival as special as it was.

And so, as we close the doors on our eighth Innovation Festival, we want to be remembered as the people who changed the water industry.

We want to be remembered as the people who did the important things, while working at speed and at scale.

Please, make sure you come along and join us next year – we're not just saying it, nothing beats the real thing. With almost 300 ideas being progressed from this year, we can assure you that nothing beats the feeling of being part of something huge.

So, once you've finished reading then make sure you sign up to our Innovation Connect newsletter, which will keep you up to date on how you can sign up for next year's event.

See you there!



HEIDI MOTTRAM

CHIEF EXECUTIVE OFFICER
NORTHUMBRIAN WATER GROUP

THE TIMELINE

OUR FIRST FESTIVAL: 939 attendees gather for the first time at Newcastle Racecourse.

The first Innovation Festival project was brought to life as the moss tree is put up in Newcastle.

BRIGHT IDEAS FOR A BETTER TOMORROW: The festival literally doubles in size.

The idea for the National Underground Asset Register (NUAR) is born.



2017

2018



BUILDING BACK BETTER: Covid sees the Innovation Festival go completely digital for the first time.

The festival inspires
Innovate East, which takes
place with Anglian Water.

GREAT NORTH BY NORTH EAST: The festival officially goes global for the first time, with sprints running through the night.

2020

2019

Entries into the Ofwat breakthrough challenge are drafted and won.

THE BRILLIANT GET TOGETHER: The first hybrid event sees a record-breaking number of attendees and the most extensive celebrities line-up ever!

The UK Government announce they will be rolling out NUAR across the country.

2021

IF 2024: Speed and Scale – NWG's biggest festival in size, number of sprints and on site attendees. Also our first ever Young Citizens Work Experience Festival.

CITIZENS: 2023 saw the festival grow to the next level, with citizens gathering from all over the world.

No-Dig trials taking place across the North East.

UNTAPPED POTENTIAL: The grand return to Newcastle Racecourse, incorporating all of the above.

2024

2023

2022



OUR STORY SO FAR

Since our first Innovation Festival, we have taken around **250** ideas back into the business and put more than **£2m** back into the local economy.

Some projects have proven more successful than others with the output each year getting stronger now we have honed the festival formula.

As we look back across the 8 years of festival-ling, the resulting projects are testament to the effectiveness of this formula.

We have had over **80 projects** which have had high potential and get evaluated beyond the festival in our innovation pipeline.

On average we have potential impact of **>£100M/year**.

Some of our biggest projects are now coming to fruition, such as the <u>National Underground Asset Register</u> worth an estimated £3.2B to the UK and £1M/year to NWG.

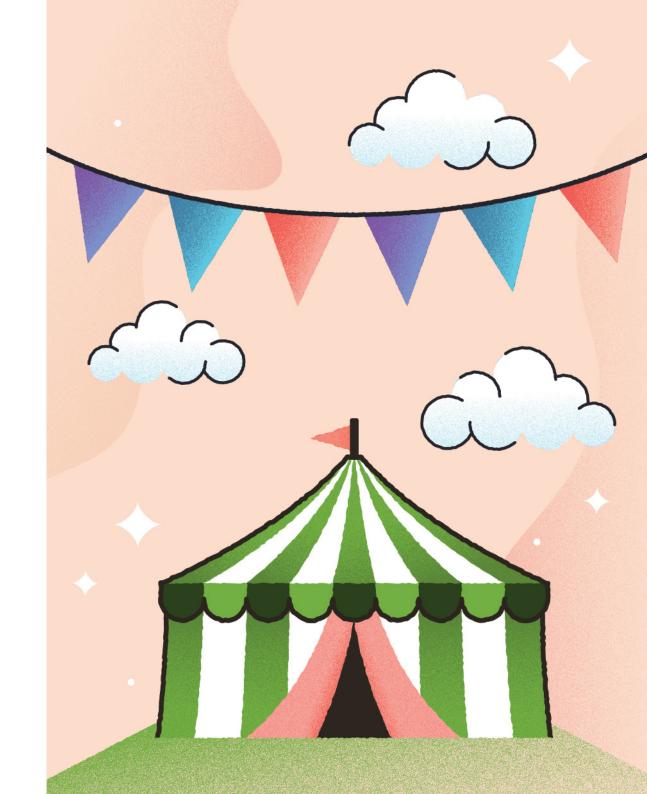
Tipping Point, a concrete asset lifespan tool is now being used in the business saving £10M/year in extending the life of this asset type.

No Dig leakage solution is now being widely used across NWG and is estimated to save £500K/year.

Water Cookbook from IF23 is also now ready for use potentially saving £21M/year in design simplification.

In addition, the festival gives rise to Ofwat innovation fund bid ideas and we have had a lot of success securing £6M for 4 projects – <u>FairWater</u>, <u>Support For All</u>, <u>Treatment to Tap</u> and <u>Smart Powered Hydrometer</u>.

Click here to find out more.



OFWAT FUNDING

The Innovation Festival is a hot bed for brilliant Ofwat Innovation Fund ideas.

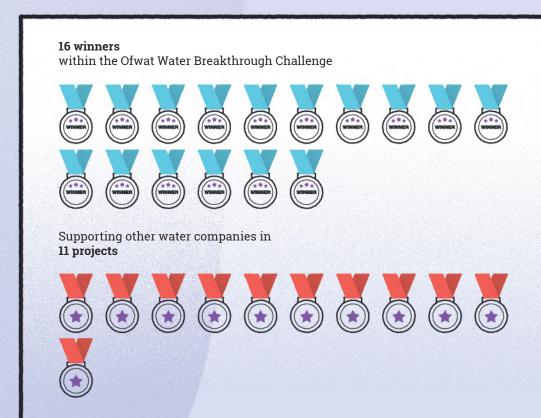
Northumbrian Water Group (NWG) has submitted **16 winners** within the Ofwat Water Breakthrough Challenge. We are also taking part in **11 further Ofwat funded projects**, led by other water companies, as a supporting partner

After four rounds of the Water Breakthrough Challenge, NWG has won funding amounting to a total of £29,107,302, with 8 Catalyst projects amounting to £10,068,208 and 4 Transform projects amounting to £19,039,094.











£29,107,302

11 Catalyst projects



£10,068,208

5 Transform projects



£19,039,094

2024 IN NUMBERS



Attendees

3131



Sectors

45



Water Companies

21



NW/ESW Employees

800



Organisations

>650



Olympians

5



Countries

37



Sponsors

97



STEM Activities

WHOLE FESTIVAL!



Sprint Leads

113



Universities

39



Living Well Activities

16



Sprints, hacks and dashes

50



Young People

>670



Media Reach

1.1M



AI Tools Applied

6



Guest Speakers

11

and Acts



Socail Media Reach

5.3M



Years of work completed at festival

54



Music Acts

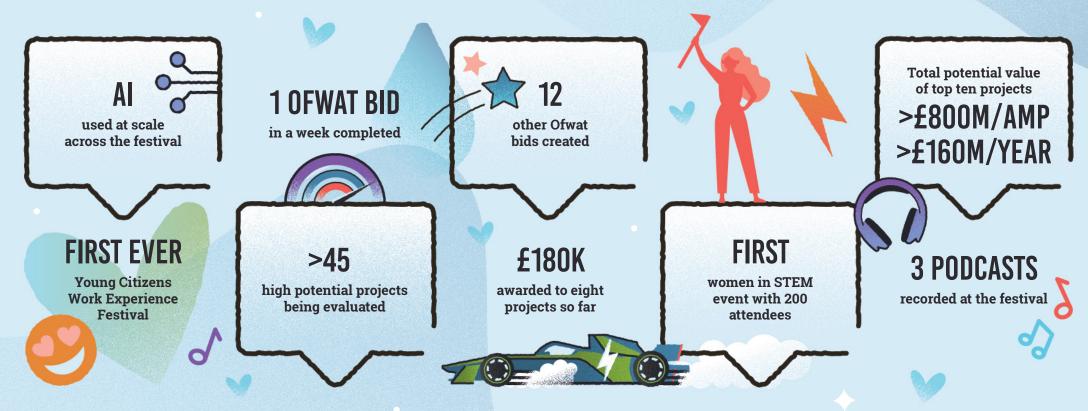
6



Social Media Engagement

11.8K

FUN FACTS



Across all 8 festivals we have had:



Attendees

>20,600



Countries

>40



Organisations

>5,000



Sectors

>45





NWG **Employees**

25%



Ofwat Bids

16



Sprint/Hacks

242



Potential Project Value

>£50M/YR



Ideas Progressed

>290

A GLIMPSE INTO INNOVATION FESTIVAL 2024

Our festivals need to be seen to be believed, and while we haven't yet got a time machine to transport you back to the summer of 2024, you can see what it was all about by watching these videos...

DAY 1 Understand



DAY 3
Define



DAY 2 Sketch



DAY 4Prototype and validate



...or by diving into this <u>3D mapped world</u> of the whole festival site, cleverly created by **Matterport**.



STAR-STUDDED SUPPORT

If you've watched the festival highlights videos, there might be a couple of faces in there you recognise.

Our festivals are never short of a celebrity or two, and IF24 was no different.

This year, we were delighted to welcome:

Steve Cram CBE, Track and Field Olympian

In a career spanning over three decades, since appearing as a 17 year old at the Commonwealth Games in 1978, Steve's many achievements include six Gold medals at the Commonwealth Games and the European and World Championships.

Ellie Simmonds OBE, Paralymic Swimmer

'Ellie' Simmonds OBE is one of the world's most celebrated Paralympians and a true golden girl of British sport. A five-time Paralympic Champion and fourteen-time World Champion.

Montell Douglas, Multi-Sports Olympian

Montell is an Olympic Bobsledder and former Team GB Sprinter with a highly decorated sporting career that spans many global events and competitions. In January 2022, Montell made sporting history to become the first female UK athlete to compete at both the Summer and Winter Olympic Games.

Harry Aikines-Aryeetey, Olympic Sprinter

A Commonwealth and World gold medallist, Harry is an elite athlete who excels in sprinting. He has competed at the highest level in the UK since his youth. At age 17, he won BBC Young Sports Personality of the Year after becoming the first athlete to win gold medals at both 100 and 200 metres at the World Youth Championships.

Dr Willard Wigan MBE, Sculptor

Whilst hiding at home from the world that taunted him, Willard discovered his hidden talent and began a new journey to greatness. Willard would show the world that nothing exists and small things could become everything.

Mandy Hickson, RAF Fast-Jet Pilot

Mandy Hickson was the only female pilot on her Front Line Tornado Squadron, flying multimillion pound fast-jets for the Royal Air Force. She has operated in hostile environments, including patrolling the 'No Fly' zone over Iraq.













ONES TO WATCH

More than **45 high potential projects** were born at IF24. They are now being evaluated and while not all of them will nexessarily be progressed, these projects have the potential to contribute to a total value of more then £100 million/year for Northumbrian Water over the next five years.

These include:







GENAI: ACCELERATING WATER TREATMENT INNOVATION



DRONING ON ABOUT WATER QUALITY
Makutu, Microsoft, RS Hydro and Skyports



ERASE AND REWIND





ESSENTIALS ASSEMBLE - NATIONAL UNIFIED ALERT SERVICE ESTI UK



BUILDING TOMORROW, FASTER TODAY!

Mott MacDonald Bentley

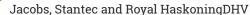




Suez



BIO STREAM



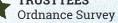


WISDOM

Costain and WSP



TRUSTTEES





NE WATER FUTURE SKILLS CENTRE

Northumbria University

SCALE



TREATMENT TO TAP

Siemens



NO DIG

Origin Tech



MOWBI/TOWBI IN THE NORTH



SAFETY CHECKS FREE TO ALL

Vyntelligence



SMART SEWERS

WISTEM EVENT

The first WiSTEM Event held at Innovation Festival 2024 was sponsored by Project Groundwater Northumbria and focussed on speed, scale, and empowering employees to enhance productivity and attract top talent. The event highlights the need for gender balance and support mechanisms in the water sector, featuring keynote speaker Dani Wallace and a panel discussion on extending the influence and impact of networks. The event inspired, empowered, and created meaningful connections that we drive positive change in the industry.



200 ATTENDEES



1 QUEEN BEE



8 PANELLISTS



Invisible Women Caroline Criado Perez

Lift as You Climb Viv Groskop

She Speaks Yvette Cooper

The Authority Gap Mary Ann Sieghart

Dare to Lead Brene Brown

How Women Rise Sally Helgesen

Strong Female Lead Arwa Mahdawi

Will It Make The Boat Go Faster? Ben Hunt & Harriet Beveridge

Good Girl Deprogramming Michelle Minnikin

Lean In Sheryl Sandberg

















NORTHUMBRIAN WATER Living water

YOUNG CITIZENS WORK EXPERIENCE FESTIVAL

As our Innovation Festival returned for 2024, we also introduced a new edition...

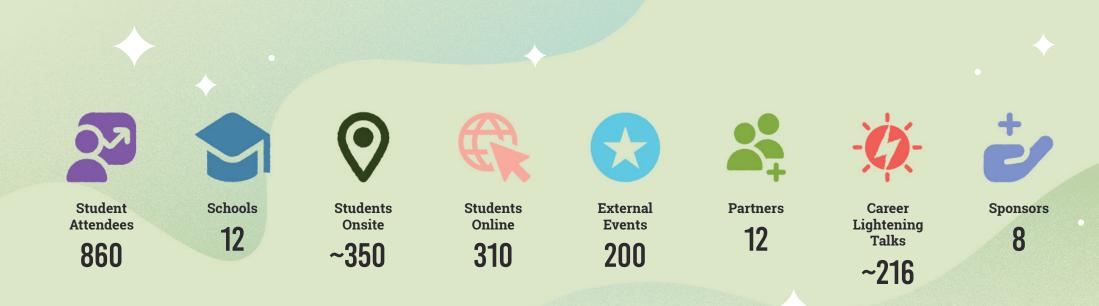
For the first time ever, we welcomed a new mini-festival-within-a-festival, called the Young Citizens Work Experience Festival.

This was aimed at introducing 14-18 year-olds from local schools into the world of work- giving them precious hands-on experience.

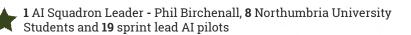
We welcomed 350 students on site, and much more online each day, and they even received their own set of inspirational speaks with Olympic stars Montell Douglas and Harry Aikines-Aryeetey.

They also took part in a number of exciting workshops, with partners such as the Big River Bakery, National Robotarium, Alnwick Gardens, Newcastle United Foundation and the University of Sunderland – where they learned a variety of skills from improve to IT and drone technology.

We were thrilled to see the younger generation really engaging with innovation, and we hope to see the students focus on careers in STEM in the future!



AI AT THE INNOVATION FESTIVAL 2024





2 playable AI video games created. One REALLY addictive!

10 presentations and 4 AI generated songs.

1 online module for students on AI and careers, with a prompt offering 'live' interview training based on any job description.

Tons of insights, images, shortcuts and hacks generated...

Used in the analysis of the sprint output to find synergies, overlap and additional insights.

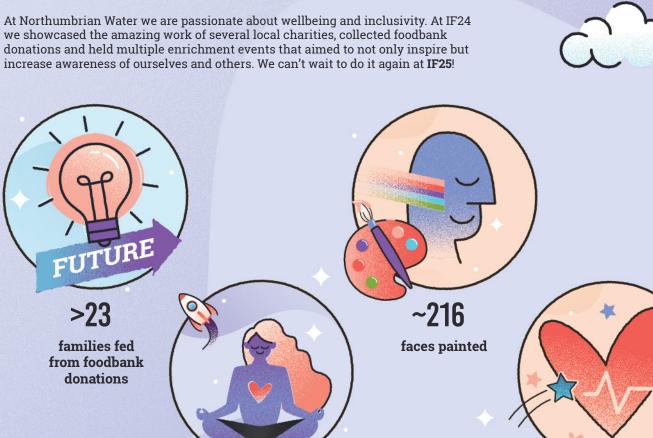






LIVING WELL AT THE **INNOVATION FESTIVAL 2024**

we showcased the amazing work of several local charities, collected foodbank donations and held multiple enrichment events that aimed to not only inspire but increase awareness of ourselves and others. We can't wait to do it again at IF25!



seated acupressure sessions

>5280

chest compressions



>400

BSL letters signed

A BIG THANK YOU

Northumbrian Water's Innovation Festival wouldn't be the event it is without our brilliant sponsors - a huge thank you to all of our sponsors who supported us with our incredible 2024 event.

Scan the QR code to register an interest in sponsoring the **Innovation Festival 2025.**







THANK YOU FROM GROUP IS DIRECTOR, NIGEL WATSON AND HEAD OF INNOVATION, ANGELA MACOSCAR

Platinum Racecourse Sprint Sponsors









Gold Racecourse Sprint Sponsors







Racecourse Sprint / Brought to you by Sponsors

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CALISEN smatter energy for all	The voice for water consumers Llais defnyddwyr dŵr	CK△	CONNECT	connexin	COSTAIN	ENVERONMENTAL MONTORING SOLUTIONS per of \$\psi\$ Garácese	ESH Stantec	@esri uk	(expleo)	FARRANS ACRICOMPANY	GallifordTry	GATESHEAD COLLEGE	GHD
GOWLAND BORWSON CONSTRUCTION	Groundbreaker****	hrwallingford	hydrodigital	Innovation Super Network	>> ipsum	KRAKEN	Legal & General	"living water ENTERPRISE	makutu CLOUD DATA EXPERTS	Microsoft	minicam	MMB MOTT MACDONALD BENTLEY	MWH TREATMENT
NET ZERØ NORTH EAST ENGLAND	New Citizen Project	Northumbria University NEWCASTLE	Фиттрата	Ofwat O Innovation Fund	ORACLE	Ordnance Survey	orege	Pipebėts	Portsmouth	Project Groundwater Northumbria	Royal HaskoningDHV Enhancing Society Together	RSE	@rshydro
Schneider Electric	SELWOOD	SHINE SOCIAL HOUSING PROVINCION NORTH EAST	SIEMENS	THE SKILL MILL	Skyports DROME SERVICES	SOLARPUNK INDUSTRIES	Stantec	stonbury	% SUez	TATA CONSULTANCY SERVICES	"# Turner & Townsend	united living	United Rentals
University of Sheffield	University of University of Development	Business	Vistry Group	Waterstons technology + growth partners	wave	WCC creating a better tomorrow	wsp	xylem Let's Solve Water					

KEEP IN TOUCH

Stay up to date with the latest innovation news at innovationfestival.org.

Fancy signing up to our innovation newsletter?



SIGN UP HERE

Keep an eye on our innovations and sprint outputs by visiting our social channels:









@northumbrianh2o @eswh2o

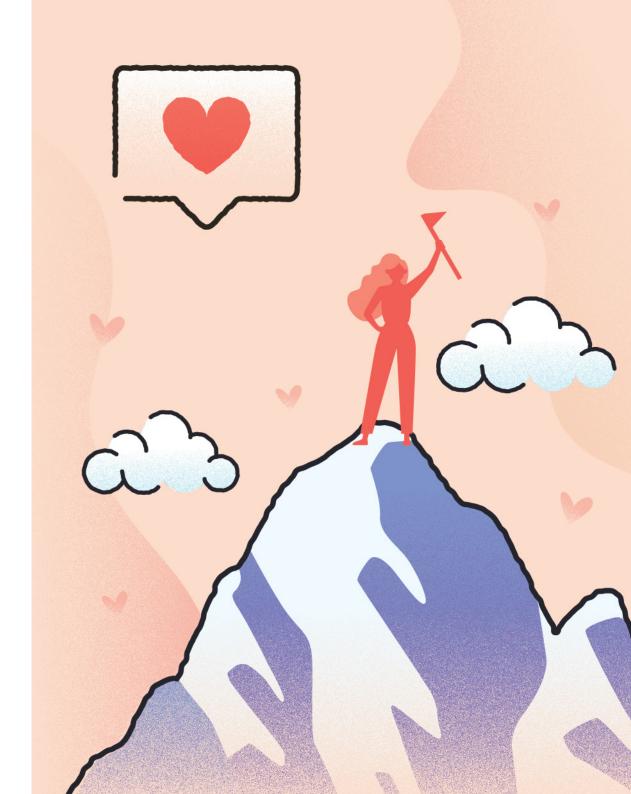


NWG (Northumbrian Water Group) Essex & Suffolk Water



@northumbrian_water @essex_suffolk_water

You can also find out more about the ideas and projects which came from **IF24** by joining our **Innovation Encore** sessions in November. Keep an eye out for more information to be shared about these.





SAVE THE DATE

for Northumbrian Water's Innovation Festival 2025!

7-11 JULY