



Entrant Handbook

Transform stream

Version 1.1, 9 September 2024



Delivered collaboratively by:



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Introduction

About this handbook

Welcome to the Entrant Handbook for the Transform stream of the fifth round of the Water Breakthrough Challenge (**Breakthrough 5**). This document, alongside the [terms and conditions](#), will provide you with all the information you need to enter the Transform stream of Breakthrough 5. Information about the Catalyst stream can be found in the [Catalyst stream Entrant Handbook](#). This handbook includes the following information:

- background to the Ofwat Innovation Fund ('the Fund'), including Breakthrough 5;
- information about the Transform stream, who can enter and how;
- what is required to take part in the Transform stream; and
- what support is on offer for entrants to the Transform stream.

All entrants should read this handbook along with the full [terms and conditions](#), which are the rules entrants are required to agree to before entering the Transform stream.

We have also created a list of [frequently asked questions \(FAQs\)](#), highlighting information from this handbook and other resources to answer the most commonly asked questions about the Fund and previous Breakthrough rounds. If you have read the handbook and the FAQs and have more questions, please contact the team at waterinnovation@challengeworks.org.

To aid entrants who have entered previous rounds of Breakthrough, we have highlighted in green any material changes to this entrant handbook since the previous round (excluding dates).

Ofwat Innovation Fund overview

Ofwat has established a £200 million Innovation Fund to help the England and Wales water sector to grow its capacity to innovate and enable it to better meet the evolving needs of customers, society, and the environment. Since its launch, the Fund has awarded over £150 million to 93 initiatives, tackling some of the biggest challenges facing the sector. In July 2024, Ofwat published its second annual report, reflecting on the progress of the Fund to date and their ambitions for the future. You can download this report from the [Fund's website](#).

The Water Breakthrough Challenge is an integral part of the Fund. Through this competition, we aim to support ambitious water company¹ initiatives that demonstrate bold new

¹ In this document, reference to a 'water company' means a water and/or sewerage undertaker holding an appointment under Chapter 1, Part 2 of the Water Industry Act 1991.

approaches to innovation, going beyond the sector’s business-as-usual innovation practices, and that can create significant value for customers, society, and the environment.

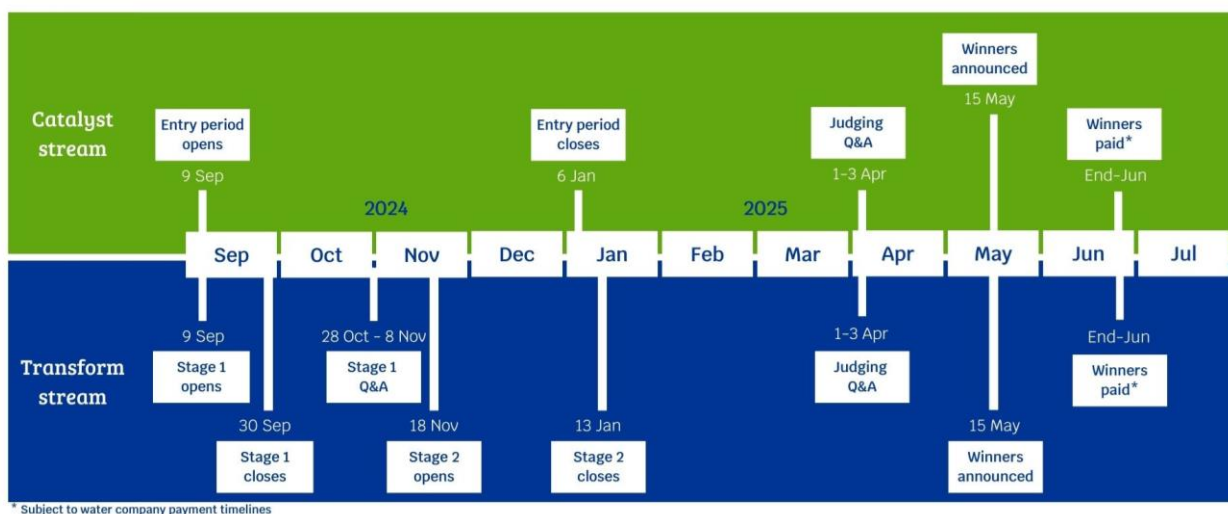
The fifth round of the Water Breakthrough Challenge (Breakthrough 5) comprises two streams: Catalyst and Transform. Approximately £40 million in funding is available across the two streams.

The **Catalyst stream** aims to encourage new ways of working that go beyond business-as-usual innovation practices in the water sector, in particular, increasing and improving collaboration and building partnerships from within and outside the water sector. Individual entries to the Catalyst stream can bid for funding from £150,000 to £2 million.

The **Transform stream** aims to spark ambitious innovation and enable new approaches and ways of working, equipping the water sector to address the big challenges facing the sector, driving far-reaching and long-lasting benefits to customers, society and the environment across England and Wales now and into the future. In this round, individual entries to the Transform stream can bid for funding between £2 million and £10 million².

If you are a water company or are working in partnership with a water company, the amount of funding you seek should determine which stream of Breakthrough 5 you enter.

An outline of the timeline for Breakthrough 5 is shown below:



For more information on the Fund, please visit [our website](#).

² Subject to certain conditions, Ofwat is open to accepting entries bidding for greater than £10 million. Please see [Entry Requirements](#) section for more details.

Breakthrough 5 delivery partners

The Fund is being delivered collaboratively by Ofwat together with Challenge Works, supported by Arup and Isle.



Ofwat is the Water Services Regulation Authority for England and Wales. [Read more about Ofwat's duties on their website.](#)



[Challenge Works](#) is a global leader in design and delivery of open innovation challenges that mobilise diverse, innovative thinkers to solve pressing problems and unlock change. Challenge prizes are a unique approach to funding innovation, offering a series of incentives, with a final prize given to whoever can first or most effectively meet a defined goal. They are public, open competitions which lower barriers to entry to attract the broadest possible community of innovators.

Founded by Nesta, the UK's innovation foundation for social good, we are a social enterprise that has worked on 97 challenges prizes and distributed more than £274 million to over 15,000 winning innovators.



Dedicated to sustainable development, [Arup](#) is a collective of designers, consultants and experts working globally. Founded to be humane and excellent, we collaborate with our clients and partners using imagination, technology, and rigour to shape a better world.

Together we help our clients solve their most complex challenges – turning exciting ideas into tangible reality as we strive to find a better way and shape a better world. With a community of over 1700 water professionals, Arup is leading global thinking across key areas like innovation, resilience, net zero carbon and sustainable water management.



[Isle](#) is a global team of independent scientists, engineers, business and regulatory experts with a common drive to make a positive environmental, social and economic impact through the advancement of innovative technologies, solutions and practices.

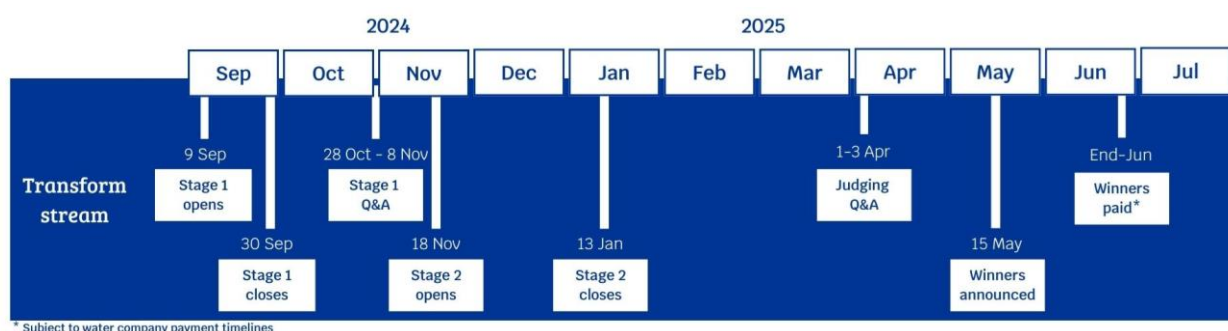
Our passion and expertise in technology and innovation enables us to connect, invest in and inspire ideas across the globe. At the core of all our activities is our ambition to make the world a better place.

About the Transform stream

The **Transform stream** aims to spark ambitious innovation and enable new approaches and ways of working, equipping the water sector to address the big challenges facing the sector, driving far-reaching and long-lasting benefits to customers, society and the environment across England and Wales now and into the future.

Timeline & key dates

The Transform stream of Breakthrough 5 uses a two-stage entry process, illustrated in the figure below.



Stage 1 of the Transform stream opens on **9 September 2024 at 12 noon (BST)** and will close on **30 September 2024 at 12 noon (BST)**.

Following the closing date on 30 September 2024, Stage 1 entries will be checked for eligibility and undergo a screening assessment.

A diverse portfolio of entries that best meet the relevant [assessment criteria](#) (detailed in [Entry questions, assessment criteria, weighting, and guidance](#) below) will then be invited to submit a Stage 2 entry from **18 November 2024 at 12 noon (GMT)**. The Stage 2 entry period will open for just under eight weeks, closing on **13 January 2025 at 12 noon (GMT)**.

New to Breakthrough 5 will be a live Q&A session with assessors following the closure of Stage 1, as part of the assessment process. Please see the '[Stage 1 Assessment](#)' section of this handbook for further details.

Following the closing date, Stage 2 entries will be assessed.

A diverse portfolio of shortlisted entries that best meet the relevant assessment criteria (detailed in [Entry questions, assessment criteria, weighting, and guidance](#) below) will then be shortlisted and shared with the judging panel for review.

A single, unified judging panel will review entries to the Catalyst and Transform streams. This increases visibility across the streams and ensures a streamlined approach to portfolio recommendations based on gaps in the market and various levels of innovation risk.

The judging panel will convene in early April 2025. Shortlisted entries will be invited to a live Q&A session with the judges during the judging days. Please note that entrants will not be requested to pitch to the judges during these sessions.

The judging panel will recommend to Ofwat a diverse portfolio of entries for funding that they consider best meets the relevant assessment criteria and have the potential to deliver tangible positive benefits for customers, society, and the environment. Ofwat will then make the final decision on whether to award funding.

Further details on the selection process can be found in the [Entry Process](#) section below. If you are successful in winning funding, you can expect to be notified by late April 2025.

What you can win

In this round, individual entries to the Transform stream can bid for funding between £2 million and £10 million³.

As such, we expect to receive entries into the competition with a total financial cost of approximately £2.22 million to £11.11 million, including the 10% mandatory financial contribution (see [Entry requirements](#) for more detail below).

Intellectual property rights (IPR)

To receive funding from Breakthrough 5, you must agree to the IPR conditions within the [terms and conditions](#).

The terms and conditions set out the default position on IPR and also provide an opportunity for entrants to propose alternative IPR arrangements. In respect of either of the options, you will be required to answer questions on your IPR proposals.

Default IPR Position

For the purpose of the default position on IPR, the terms and conditions differentiate between general background IPR and specific background IPR.

Specific background IPR is background IPR which has been specifically identified in the entry and is such background IPR that may be licenced on terms including a royalty and/or other appropriate forms of remuneration.

³ Subject to certain conditions, Ofwat is open to accepting entries bidding for greater than £10 million. Please see [Entry Requirements](#) section for more details.

We recognise that specific background IPR may require adjustment during the delivery of your entry, and therefore, the terms and conditions allow for the possibility of later designation at Ofwat's discretion.

General background IPR is any and all background IPR that is not specific background IPR. In your entry, you will be asked to set out how this arrangement will not result in restricted benefits to customers of water companies and to confirm that, ultimately, any additional costs to customers in respect of charges for the use of background IPR will represent value for money for customers.

In all instances, you must set out how and why you consider that the proposal or the process by which you may charge future users is fair, reasonable, and non-discriminatory. We recognise that it may be more difficult to provide this information for initiatives that are at an early stage of development. Where this is the case, you should clearly state what information you can and cannot provide at the point of submitting your entry and why.

More details are set out in [section D of the unassessed entry questions](#) below.

Alternative IPR Proposals

In setting out alternative IPR arrangements, you must be able to meet the following conditions:

1. The entry will not result in restricted benefits to all customers of water companies; and
2. Demonstrably, the alternative arrangements will not result in additional costs to customers.

Ofwat will consider on a case-by-case basis whether these conditions have been met.

Regarding all options available, you will be required to answer questions on your IPR proposals. We may seek further clarification on these proposals following the submission of your entry.

Sharing knowledge and foreground IP

Alongside questions on IPR arrangements, entrants will be asked to provide additional information about the knowledge and intellectual property they expect to develop through their project, and how they will share this with the wider water sector. **We strongly encourage entrants to consider how they will capture and share critical knowledge** and ensure benefits/learnings can be widely and rapidly accessed and digested by other innovators and practitioners.

Entry requirements

There are four eligibility criteria in the Transform stream of Breakthrough 5, detailed below:

- Lead entrant
- Funding requested
- Financial requirements; and
- Terms and conditions

Lead entrant

The lead entrant to Breakthrough 5 must be one of the [licensed regional water only and water and wastewater companies or new entrant water and wastewater companies \(NAVs\)](#) in England and Wales. We strongly encourage lead entrants to enter Breakthrough 5 in partnership or consortia.

Funding requested

The minimum amount of funding that can be requested from the Transform stream is £2 million, and the maximum that can be requested is £10 million.

In exceptional circumstances, where an entry will deliver impact across the water sector in England and Wales, we are open to accepting entries requesting more than £10 million. We ask that this impact be demonstrated by having at least ten water companies in England and Wales as entry partners.

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Submitting an entry requesting greater than £10 million is subject to the prior approval of Ofwat. For more information and to request approval to bid for above £10 million, you must email waterinnovation@challengeworks.org no later than **5 pm (BST) on Monday 16 September 2024**.

If Ofwat approves your entry for more than £10 million, this does not in any way guarantee that your entry will be successful in winning funding. All entries (regardless of how much funding is requested) are subject to the same entry process and terms and conditions once their entry has been accepted.

Financial requirements

A maximum of 90% of each entry's financial costs will be provided by funding from Breakthrough 5. Entry partners must provide the remaining 10% of the entry's total financial costs as a mandatory 10% financial contribution.

We do not consider that customers should bear all the risk of initiatives funded through the competition and believe this encourages strong project management. **Entry partners can decide how the 10% contribution is funded, as long as it is not funded by charges to water customers in England and Wales** (i.e. it must be from the organisation's own funds). There is no requirement for this contribution to be shared equally between partners. Entry partners may also consider how they could bring funding from other sources.

In Breakthrough 5, we are looking for further granularity in the financial information provided. Entrants need to specify the source of funds for their contributions in the entry form, divided between:

- The amount of financial contributions entry partners are committing from sources other than charges to water company customers.
- Any amount of financial contributions entry partners are committing from charges to water customers. There is no requirement for entries to include additional financial contributions from charges to water customers. However, if any such contributions are included, entrants should specify this in the entry form.

We welcome any additional financial and/or non-financial contributions beyond the minimum 10% and have seen many entries do this in previous rounds. Non-financial contributions should be excluded from the total financial cost of the entry.

We are open to initiatives that have secured additional external public or private funding. Entrants must confirm that there is no duplicative or double funding and that they are not restricted by their current funding source when applying for additional and alternative funding through this Fund.

Terms and conditions

All entry partners must agree to abide by the [terms and conditions](#).

What we are looking for

Areas for innovation

We are looking for your ideas that address the big challenges facing the water sector – guided by our four strategic innovation themes detailed below. We aim to fund a wide range of entries that will showcase a diverse mix of innovative ways of working and solutions.

Our four strategic innovation themes are:



1. Responding and adapting to climate change, including how to meet the sector's ambition of net-zero carbon, zero waste and zero leakage.



2. Protecting and enhancing the environment and natural systems to protect current and future customers from the impacts of extreme weather and pollution.



3. Delivering long-term operational resilience and understanding infrastructure risks to customers and the environment, finding solutions to mitigate these in sustainable and efficient ways.



4. Testing new ways of conducting core activities to deliver the services customers and society need, expect and value both now and in the future.

These themes have been updated since the second round of the Water Breakthrough Challenge. We no longer explicitly reference open data or vulnerability in the themes. However, both would be implicit in theme 4 (and others), and both would easily be a means to fulfil this theme.

We have published more detailed policy statements on Ofwat's position around [Open Data](#) and [customer vulnerability](#) since the start of the Ofwat Innovation Fund. We believe that the breadth of the broader theme allows for greater freedom in proposing improved ways of working and could deliver greater benefits.

While no longer explicitly referenced in the themes, enabling activities are very important to drive innovation in the sector and have a key role to play in helping the Fund achieve its

outcomes. We invite entries in this important area as they will support the Fund’s ambition to embed innovation practices and knowledge within water companies (and the sector) for the long term.

We have identified a number of innovation enablers that will be particularly critical to growing and sustaining the water sector’s capacity to innovate. The Fund will consider supporting initiatives that demonstrate and further strengthen these enablers, including but not limited to:

- **Collaboration:** building and strengthening collaboration and partnerships across companies, the supply chain and outside the water sector.
- **Openness:** to sharing data, insights, and ideas within the water sector and with other sectors. All projects supported by the Fund should use an “open by default” approach to data and learning.
- **Adaptability:** flexibility and openness to trying out new ways of working.
- **Innovation risk management:** delivering value from all innovation projects, particularly more experimental projects, even if they fail.
- **Scalability & deployability:** improving the ease of scaling up and rolling out of proven innovations within the sector.
- **Long-term view:** taking both a longer-term and broader perspective to better meet the evolving needs of customers, society, and the environment.

Characteristics of entries

Benefits to customers

One of the priorities for Ofwat's Innovation Fund is enabling the water sector to better meet the evolving needs of its customers. This is focused on **household customers** because the Fund is financed by household water and wastewater customers in England and Wales.

Benefits to non-household customers are also encouraged. **All entries that propose primarily to benefit non-household customers must also demonstrate how the proposal can benefit household customers.** Entries should clearly explain how the proposed innovation will make a difference for customers – for example, by lowering costs, giving them insights to help them plan their water use, or improving their experience of their local water environments.

Entry delivery timelines

We are open to a wide range of project delivery timelines, from less than a year to multi-year periods that continue beyond 2025. There is no requirement for project delivery to be completed within the current asset management plan (AMP) period.

We expect entries to the Transform stream that are awarded funding to start within six months of being notified of the award. However, we recognise that particularly complex entries may require a longer mobilisation period.

Based on past winners' experience and feedback, **we strongly encourage entrants to consider the following points in advance of the project start to avoid delays** if the entry is successful:

- Ensuring you've agreed on how the project will be governed, and the role of each partner.
- Ensuring you have started discussing contractual arrangements with partners, including developing collaboration agreements and allowing sufficient time in the project plan for these to be completed (if they aren't already in place).
- Considering your procurement needs and possible supply chain delays
- Considering any regulatory requirements: you may wish to reach out to [StreamLine](#), **the regulatory advice service for innovators in England and Wales**, run jointly by Ofwat, the Drinking Water Inspectorate and the Environment Agency.
- Considering resourcing requirements for each stage of the project, with mitigations in place for any changes.

Approach to risk

We are seeking truly innovative entries and encourage water companies to adopt an open risk appetite within their Fund entries, supported by strong risk management with a clear plan to share data and learning, regardless of the outcome. We recognise that some projects may not deliver the expected direct benefits, but by taking risks and sharing learning across the water sector, customers will stand to benefit.

Entrants should be able to recognise and respond appropriately to issues and opportunities as they arise. This may include:

- Making decisions about how to adjust delivery if the initial benefits can no longer be realised.
- Adopting an approach of 'early failure'.
- Thinking widely about possible benefits from their initiative, beyond the project's intended outcomes.
- Considering how learning and insights from the delivery of their initiative can best provide value across the sector.

We actively encourage entrants whose projects move across several innovation stages to use stage gates as part of their governance plans to mitigate innovation risks. This is an established approach to innovation and project management. Entrants will be responsible for managing delivery against milestones and adapting delivery to realise the intended impact most efficiently and effectively, with the support of Ofwat and the Breakthrough 5 delivery partners. Please note we are unable to offer partial funding, so the decision to fund or not fund is made against the entire entry.

Monitoring and risk management

Entrants will be asked to provide information on their approach to risk in their entry. Entrants will be responsible for:

- Managing delivery and reviewing progress against milestones.
- Adapting delivery to realise the intended impact most efficiently and effectively.
- Sharing significant changes to delivery with Ofwat and its delivery partners.

Ofwat and its delivery partners will monitor the progress of successful entries, including seeking updates at delivery milestones. The monitoring and involvement of Ofwat and its delivery partners will be proportionate to the size and risk of initiatives. In all cases, winning entrants will be responsible for reviewing progress and deciding the best course of action for their entry to deliver its intended impact.

In exceptional circumstances, Ofwat and its delivery partners may intervene if we have concerns that a project is moving materially away from delivering on its intended impact or if there are any concerns about misuse of funds.

Entry value and delivery costs

Entrants to the Transform stream can bid for between £2 million and £10 million⁴.

We expect entries to demonstrate cost efficiency and good use of customer money, with a clear case for any costs included in the budget.

Reasonable costs are eligible to be funded, including dedicated staff time and fair associated overheads.

⁴ Subject to certain conditions, Ofwat is open to accepting entries bidding for greater than £10 million. Please see [Entry Requirements](#) section for more details.

The budget, set out in the entry form, should include inflation allowances and applicable taxes, which are not recoverable, reflecting the actual costs of the initiative. Where taxes are fully recoverable, such as VAT, costs should be shown net of the recoverable amount. Taxes that are not recoverable should be included, for example, customs duties payable on goods imported into the UK.

Partnerships and collaboration

We particularly encourage entries that involve partnerships and collaboration between water companies, including NAVs, as well as with organisations in the water sector supply chain and beyond.

- **If you are a water company, including NAVs:** you are strongly encouraged to explore opportunities for new partnerships and consortia, including by signalling opportunities for partnerships on your website and social media channels. You can partner with any organisation you wish, domestic or international, including other water companies, supply chain partners, new start-ups, SMEs, academia, local authorities, water companies outside of England and Wales, and water supply and/or sewerage retailers. Please note that it is your responsibility to carry out any checks and due diligence on partners.
- **If you are not a water company:** Breakthrough 5 is an opportunity to reach out to one or more water companies to explore the possibility of working together. If you are new to the water sector, you may wish to contact [Spring, the water sector's centre of excellence for innovation](#). In particular, we recommend you read [the water sector's innovation strategy](#) before contacting water companies to understand their innovation priorities. A complete list of England and Wales water companies that can be contacted to explore new partnership opportunities can be found on [our website](#).

Collaboration agreement template

Where relevant, entries that are successful will need to develop collaboration agreements with partners. The Fund does not require the use of any particular template for collaboration agreements. However, should you wish to refer to an example, you can consider the one available [on our website](#). We strongly encourage entrants to develop collaboration agreements in advance of the project start to avoid delays if the entry is successful.

Note: The example collaboration agreement linked above is a cross-water company effort between the legal and innovation teams of water companies including Anglian Water, Thames Water, United Utilities, Severn Trent, Affinity Water, Welsh Water, Northumbrian Water and Southern Water. This agreement is flexible and therefore it is a basis for early discussion between water companies and other project partners. It may be adapted over time. The Ofwat Innovation Fund and any of the above organisations cannot provide any legal support or advice, nor be legally liable, in the event of any issues relating to a project's collaboration agreement.

Entering the Transform stream

This section will outline everything you need to enter into the Transform stream of Breakthrough 5, including:

- The entry process
- Reasonable adjustments and accommodations
- Entry questions, assessment criteria, weighting, and guidance:
 - Eligibility criteria
 - Unassessed questions
 - Assessed questions.

For a timeline of the Transform stream, please refer to the [Timeline & key dates](#) section above.

The entry process

Winning entries will be selected following the assessment process outlined below. The two-stage entry process aims to ensure that entrants can develop proposals that have the greatest chance of being awarded funding.

We have worked to ensure the entry process is as efficient and practical as possible, allowing for easy access for all water companies, particularly smaller ones.

Information you provide in your entry at Stage 1 and Stage 2 may be shared with our partners (including the judges and any due diligence providers) to administer Breakthrough 5. For more information on how we use your data, please see the [privacy policy](#) and the [terms and conditions](#).

The steps of the entry process, detailed below, are:

- A. Stage 1 – Screening entry period
- B. Eligibility screen
- C. Stage 1 assessment, including Stage 1 live Q&A
- D. Stage 1 Feedback
- E. Stage 2 – Full entry period
- F. Stage 2 Assessment
- G. Judging, including live Q&A
- H. Ofwat Decision
- I. Award
- J. Stage 2 Feedback

A. Stage 1 – Screening entry period

Stage 1 opens for entries on 9 September 2024 at 12 noon (BST) and closes on 30 September 2024 at 12 noon (BST).

Changes to the entry form

Based on feedback from the previous round, we have updated the entry form to improve entrant experience. The main changes to the entry form are detailed below.

Streamlined Stage 1 entry form

The Stage 1 entry form has been updated based on feedback from entrants of previous rounds. There was a desire for simpler entry requirements at Stage 1, with more detail coming later during the Stage 2 entry process and, as such, the entry form has been updated to reflect this.

Following this update, entrants will need to ensure that their entries balance higher-level detail about their project with sufficient information for assessors to make informed recommendations to Ofwat as to which entries should progress to Stage 2. Entrants are responsible for ensuring that the information they provide at Stage 1 is sufficient to meet this aim.

Updates to entry questions and criteria

Entry form guidance has been updated and the flow of the questions has been strengthened based on feedback from previous rounds, to enable smoother completion of the form.

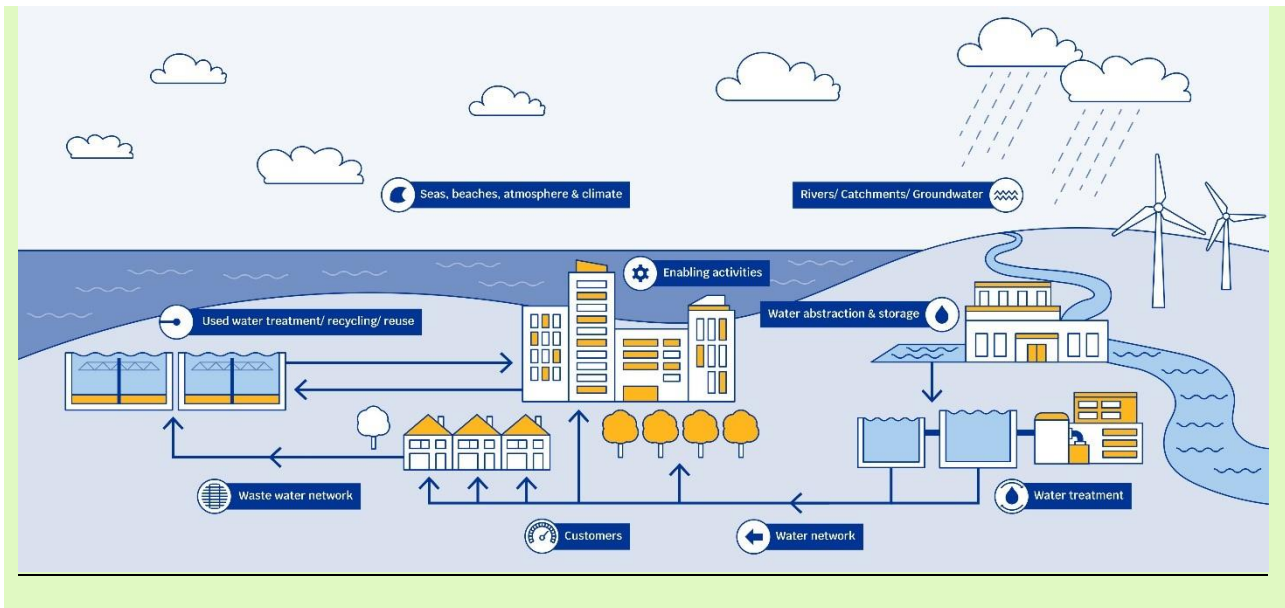
In the entry form criteria, the criteria under 1.4 have been modified so risks are now assessed solely in criteria 3.5. Criteria 1.4 now focuses on benefits that can be achieved even if the project fails. The word count for criteria 1 and 2 has been increased across both the Catalyst stream and Stage 2 of the Transform stream.

A calculator has been added to the form in Submittable to help entrants with entry cost calculations.

Finally, a question has been added to the entry form to cover whether there will be any charges to water customers to deliver the entry.

Water cycle tags

[Water Cycle Tags refer to specific parts of the water cycle. You can see more information about them in this diagram:](#)



We set out the questions that should be answered, along with guidance on completing Stage 1 of the entry process in [Entry questions, assessment criteria, weighting, and guidance](#) below. In Stage 1, we are looking for a high-level narrative summary in response to these questions.

All entries must be submitted by **30 September 2024 at 12 noon (BST)** using the Stage 1 online entry form available [via the website](#). The lead entrant will need to submit this form.

The entry form for both stages is available as [a Word document](#) to help you develop and collaborate on your answers before completing the online form. If entrants wish to work on more than one draft on the online entry platform during the entry period, please contact waterinnovation@challengeworks.org for assistance.

Before submitting your entry, please ensure that:

- You and your partners have read and understood the Challenge [terms and conditions](#) and [privacy policy](#), including the [Ofwat privacy policy](#).
- Your entry is aligned with one or more of [the four Ofwat strategic innovation themes](#).
- You have followed good procurement principles, performed your due diligence on your partners and accepted any risk and liability from going ahead with them.
- You and your entry partners have set out in your entry how a 10% minimum financial contribution will be provided for (at least 10% of total entry financial costs will be funded from sources other than the Fund).

B. Eligibility screen

Entrants must meet the eligibility criteria set out in the [Entry requirements](#) section above.

When entries close, an eligibility screen will be conducted to ensure entries meet all the eligibility criteria.

C. Stage 1 assessment

During Stage 1, all eligible entries will be assessed by assessors against each of the following three assessment criteria categories:

1. Positive impact for water customers, society, and the environment.
2. Innovation enablers and innovative solutions.
3. Capacity, capability, and commitment to deliver.

Assessors will be matched to entries relevant to their area of expertise.

Scoring will be between 1 and 5 (5 being the highest). These scores are then weighted. The assessed entry questions, assessment criteria and weighting are set out in the [Entry questions, assessment criteria, weighting, and guidance](#) section below.

Live Q&A sessions for Stage 1

Entrants will be invited to a live Q&A session with assessors to take place after the Stage 1 entry period has closed. This will allow assessors to ask specific questions about the entry and seek clarifications on aspects of the written submission in order to inform decisions.

Every eligible entry will be booked for a Q&A session once the Stage 1 entry period has closed. Sessions will be held between late October and mid November. The sessions will be held online via Zoom, with assessors remaining anonymous, and interaction led by a Facilitator from the Breakthrough 5 delivery team.

There is no cap on the number of project members that can attend the Q&A session, but each entry will need to choose a team captain. Team captains will field each question and may choose to delegate the response to another member of the project team.

Questions will be targeted (answerable live, no multi-part questions) and will be asked live and not shared with teams in advance. Follow up questions may be asked for further clarification. No additional materials will be allowed to supplement answers during the session, other than those submitted with the written entry (per question 0.4 on entry visuals and diagrams).

Full details and instructions for joining Stage 1 Q&A sessions will be provided after the Stage 1 submission date.

A moderation meeting will be held to discuss and recommend entries for Stage 2. This moderation meeting will ensure that all assessors' opinions have been captured and that a consistent view on the merits of each entry is provided.

Whilst scoring will form part of this process, in making its decision on whether to put forward an entry to Stage 2, Ofwat will also consider the recommendations of the assessors and will seek to ensure a diverse portfolio of entries in terms of entry themes, types, entrants and geographic location. Entrants should note that there is no guarantee of funding even if the entry reaches Stage 2.

D. Stage 1 feedback

Feedback will be provided to the lead entrant for all entries.

Due to the streamlined Stage 1 entry form, feedback provided at the end of this stage will be high-level, and timing will depend on the number of entries received.

We aim to deliver feedback to unsuccessful entrants no later than mid-January 2025.

For those invited to Stage 2, entries will receive up to three bullet points from assessors by the end of November to support them in developing their Stage 2 entry.

In exceptional circumstances, unsuccessful entrants may wish to consider entering the Catalyst stream of Breakthrough 5. For more information, please refer to [Appendix 2](#) of this handbook. Feedback for these entries will be expedited following the closure of the Stage 1 entry period.

Please note, this does not represent a recommendation from us to unsuccessful entrants in Stage 1 of the Transform stream to enter the Catalyst stream. Entering the Catalyst stream will not in any way guarantee that your entry will be successful in winning funding. All entries to the Catalyst stream are subject to the same entry process, terms and conditions, and assessment.

E. Stage 2 – Full entry period

We will open Stage 2 to invited entries on **18 November 2024 at 12 noon (GMT)** and close for entries on **13 January 2025 at 12 noon (GMT)**.

We set out the questions that should be answered, together with guidance on how to complete the questions, in [Entry questions, assessment criteria, weighting, and guidance](#) below.

The entry must be submitted via the online entry form. At Stage 2, we will be looking for a complete, evidenced and referenced narrative, as well as the completion of our [entry template](#) and a pitch recording. Entrants can update their Stage 1 entry form and will be asked to book a pitch recording session. The entry form for both stages is available as [a Word document](#) to help you develop and collaborate on your answers before completing the online form.

Pitch recordings

At Stage 2, entrants are required to book a slot to record a 5-minute pitch video. The purpose of the pitch recording is to provide a video explainer to help assessors and judges quickly understand your entry.

Pitches should outline:

- The problem the entry aims to address and what benefits it will have for customers, society and/or the environment if successful (around 25% of the pitch)
- What about the entry is innovative (around 25% of the pitch)
- What entrants intend to do within their entry, focusing on activities that will be undertaken (around 50% of the pitch)

Please note that **the booking window is from 18 November to 20 December 2024. Slots are available from 19 November 2024 to 10 January 2025.** Please [book a slot via Calendly](#) (link will be made available when Stage 2 opens).

To promote equity, diversity and inclusion and reduce any potential bias in the entry process, we will continue to exclude speaker videos in pitch recordings for Breakthrough 5. Entrants are asked to present slides or other visuals whilst talking.

Drinking Water Inspectorate involvement

Drinking Water Inspectorate involvement

In Stage 2, entries that align with the Water Cycle tags Water Abstraction & Storage, Water Treatment, or Water Network (as selected by entrants in the entry form) may be referred to the Drinking Water Inspectorate (DWI) for additional review. Entries that do not select these categories but still relate to drinking water may be flagged by assessors for DWI review. DWI's views may in turn be provided to judges and Ofwat to aid their decision-making. All funding decisions will be made in accordance with the published assessment criteria.

Further information on the Water Cycle can be found [here](#).

F. Stage 2 Assessment

The Stage 2 process will consist of a more detailed assessment of entries against each of the three assessment criteria categories:

1. Positive impact for water customers, society, and the environment.
2. Innovation enablers and innovative solutions.
3. Capacity, capability, and commitment to deliver.

Assessors will review and score answers to all assessed Stage 1 and Stage 2 entry questions against set assessment criteria (the Stage 2 entry form includes and expands on the original questions asked in Stage 1). Scoring will be between 1 and 5 (5 being the highest). These scores are then weighted. The Stage 2 assessed entry questions, assessment criteria and weighting are set out in the [Assessed questions](#) and [Assessment criteria weighting](#) sections below.

A moderation meeting will be held to ensure that all opinions from the assessors are captured and a consistent view on the merits of each entry is provided. Whilst scoring will form part of this process, Ofwat will consider the assessors' recommendations and will also seek to ensure that a diverse portfolio of shortlisted entries, in terms of entry themes, types, entrants and geographic location, is put forward to the judges.

G. Judging

An independent panel of judges will review the shortlisted entries put forward through the Stage 2 assessment. The judging panel will review the entries individually, scoring the entries using the same criteria as the Stage 2 assessors. The judging panel will then convene to discuss entries and recommend to Ofwat which entries they agree best meet the assessment criteria and offer a diverse portfolio for funding.

Breakthrough 5 will continue to offer the opportunity of a **live Q&A session** for the entrants to respond to judges' questions as part of the entry process. Please note entrants will not be requested to pitch to the judges.

Following feedback from the previous round, longer time slots will be allocated for judges' Q&A sessions for Breakthrough 5. Questions will not be provided to entry teams in advance to enable a more dynamic conversation.

Judges will ask questions relating to shortlisted entries during the judging days **between 9 am and 5.30 pm (BST) on 1, 2 or 3 April 2025**. Q&A slots will be allocated to shortlisted entries no later than 19 March 2025, but where possible, we will endeavour to provide as much notice as possible.

If teams are not able to attend the live Q&A, they should notify the delivery partners at waterinnovation@challengeworks.org as soon as possible, for a chance to answer the judges' questions in writing. No other opportunities for questions and answers will be provided, with the exception of clarifying conflicting entry answers.

H. Ofwat Decision

Ofwat will make the final decision on which entries should receive funding. In making its decision, Ofwat will consider the views of assessors and judges on which entries best meet the assessment criteria and offer a diverse portfolio for funding.

Ofwat intends to publish this decision and its reasons for awarding funding. Ofwat will take account of entrants' preferences regarding the confidentiality of their entries.

I. Award

Entries should expect to be notified if they have been awarded funding by late April 2025.

Winner's Agreement

When notified, successful entries will receive a copy of their draft winner's agreement. This winner's agreement will be based on the [standard template available on our website](#). Please note that this template is only provided for information purposes and may be subject to changes. Winning teams must sign these agreements no later than **5 pm (BST) on 20 May 2025** to be paid by late June 2025.

A winners' onboarding event will be held online on 17 June 2025, 1-3 pm (BST).

Further information and a joining link will be shared with winning entries in the weeks ahead of the event.

J. Stage 2 feedback

After winners have been announced, feedback will be provided to the lead entrants who did not win funding at Stage 2, outlining why their entry was unsuccessful.

Feedback will be given against each of the three assessment criteria and, where relevant, provide guidance on areas of improvement against each of them. The feedback will not include scores provided by the assessors and the judging panel. As mentioned above, scoring forms only a part of the overall assessment process.

Feedback will not be provided to winning entries.

Reasonable adjustments and accommodations

If there are any reasonable adjustments that would support you entering, catering for any additional needs you may have, please contact waterinnovation@challengeworks.org.

Entry questions, assessment criteria, weighting, and guidance

There are three types of entry questions in the entry form:

- **Eligibility criteria** – These are questions that will be used to determine eligibility.
- **Unassessed questions** – These questions will be used to manage your entry, support portfolio decision-making, enable monitoring and evaluation of the Challenge and create publications and announcement materials if your entry is successful. Unassessed questions are visible to assessors and judges, but they are not subject to scoring.
- **Assessed questions**
 - **General information** – This section provides general information about the entry. Assessors and judges will review the answers to these questions but not score them against the assessment criteria.
 - **Assessment criteria questions** – This section provides detailed information about the entry against the assessment criteria. Assessors and judges will assess answers to this section against the assessment criteria.

Eligibility criteria

Question	Question Guidance
Is the lead entrant a water company (including NAVs) in England or Wales?	Yes/No
Are all entry partners abiding to the terms and conditions of Breakthrough 5?	Yes/No
Do the entry partners commit to making a minimum 10% contribution towards the total cost of the entry if it is awarded funding?	Yes/No
[Transform] Is the amount of funding requested between £2,000,000 and £10,000,000? If you wish to bid for less than £2,000,000, please enter the Catalyst stream .	Yes/No
Have you received approval to bid for an alternative amount (i.e., above £10,000,000)?	Yes/No

Unassessed questions

The following unassessed questions are included in the entry form to manage your entry.

Question Category	#	Question	Question Guidance	Word Count	
A	Main Contact Details	i	Name of main contact	You must designate one person as the main contact. This person will be the primary point of contact with the Water Breakthrough Challenge team. This is the person who we will contact for all matters relating to your entry. Please ensure that the information provided below relates to the same person.	N/A
		ii	Main contact job title		N/A
		iii	Main contact organisation	This should be the lead entrant water company.	N/A
		iv	Main contact's work email address(es)		N/A
		v	Main contact's work telephone number		N/A
		vi	Details of communications lead	Please provide the name, email address and telephone number of the person that will be responsible for coordinating any external communications activities should this entry be successful.	N/A
B	Entrant Details	i	List of Partner Organisation(s)	<p>Please list the legal name(s) of organisations involved in this entry, excluding the lead entrant.</p> <p>The list should only include organisations formally committed to and involved in delivering the entry, as outlined in responses to assessment criteria 3.</p> <p>Organisations providing informal endorsements should not be considered partners and therefore should not be included in this list.</p> <p>[Transform Stage 1 only] Information about named contacts will be requested for entries progressing to Stage 2.</p>	N/A

				[Transform Stage 2 only] Please also provide the name and email address of the lead contact at each partner organisation.	
		ii	Winner's Agreement	Please confirm you have reviewed the template Winner's Agreement and the lead organisation will sign this if your entry is successful in receiving funding.	N/A
C	Funding	i	How much funding are you requesting from the Fund?	Please provide the amount of funds requested from the Water Breakthrough Challenge in £ GBP in nominal (today's) prices, excluding any financial contributions. Please use the calculator above to ensure the amount of funding you are requesting is a maximum of 90% of the total cost of the entry.	N/A
		ii	What is the amount of financial contributions entry partners are committing from sources other than charges to water company customers?	Please provide the amount of the mandatory financial contribution entry partners have committed to contribute to the entry in £ GBP in nominal (today's) prices. The contribution must amount to a minimum of 10% of the total financial cost of the entry and cannot be funded by charges to water customers in England and Wales. We welcome additional contributions beyond this minimum 10%. Please exclude any in-kind contributions (these should be covered in C iv). Please use the calculator above to ensure you are providing the 10% minimum contribution. If you have any questions about the mandatory financial contribution, please book a surgery session with the Breakthrough 5 delivery team.	N/A
		iii	What is the amount of financial contributions entry partners are committing from charges to water customers, if any?	There is no requirement for entries to include additional financial contributions from charges to water customers. However, if any such contributions are included, please provide the amount here.	N/A
		iv	What is the value of any in-kind contributions?	Please provide the value of any in-kind contributions (if quantifiable) from any source in £ GBP in nominal (today's) prices.	N/A
		v	What is the total cost of your entry?	Please provide the total cost of the entry in £ GBP in nominal (today's) prices, including workstreams and funds not covered by the Water Breakthrough Challenge and any financial contributions from entry partners.	N/A

			<p>These figures should be inclusive of inflation allowances and applicable taxes which are not recoverable, reflecting the actual costs of the entry. Where taxes are fully recoverable, such as VAT, costs should be shown net of the recoverable amount. Taxes that are not recoverable should be included, for example, customs duties payable on goods imported into the UK.</p> <p>Please use the calculator above to ensure $C_v = C_i + C_{ii} (+C_{iii})$.</p>	
		vi	<p>What is the source of the minimum 10% financial contribution?</p> <p>Please provide an overview of each partner's contributions to the mandatory minimum 10% financial contribution towards the total cost of the project. As a reminder, this cannot be funded from charges to water customers in England and Wales.</p>	100
D	Intellectual Property Rights	i	<p>[Transform Stage 1 only] Do you intend for your entry to comply with the Default IPR position, or to propose an Alternative IPR position?</p> <p>[Transform Stage 2 only] Does your entry align with the default position on intellectual property rights (IPR) as set out at section 4 of the terms and conditions?</p>	Single Option: Default IPR/Alternative IPR N/A
		ii	<p>Default IPR</p> <p>Appears only if answer to Di is Default IPR.</p> <p>Please explain how you will comply with the default position at section 4 of the terms and conditions, including detail of:</p> <ul style="list-style-type: none"> • Whether the funded entry (i.e., that part funded by the Fund) is part of a wider project; Foreground IPR to be generated by the funded entry; • Background IPR that is necessary to use the Foreground IPR for the funded entry, clearly distinguishing between General Background IPR and Specific Background IPR; • Any other background IPR relating to the delivery of the project, as a whole (i.e., not the funded entry); • What Background IPR and what Foreground IPR will be available. In answering this part, please include details of Foreground IPR, 	N/A

				<p>Background IPR that is necessary to use the Foreground IPR and (if appropriate) any wider background IPR that is related to the delivery of the project, as a whole (i.e., not just the funded entry).</p> <ul style="list-style-type: none"> • Please set out how your proposals will not result in restricted benefits to customers of water companies, and ultimately there will not be additional costs to customers. <p>For the purpose of Default IPR option, the terms and conditions differentiate between ‘General Background IPR’ and ‘Specific Background IPR’.</p> <p>Specific Background IPR is Background IPR which has been specifically identified in the entry and is such Background IPR that may be licenced on terms including a royalty and/or other appropriate forms of remuneration. However, we recognise that Specific Background IPR may require adjustment during the project and therefore the terms and conditions allow for the possibility of later designation, at Ofwat’s discretion.</p> <p>General Background IPR is any and all Background IPR that is not Specific Background IPR.</p> <p>Where you are seeking to designate Background IPR as Specific Background IPR, we expect you to include as much detail as possible in your application relating to potential levels of royalties and/or other appropriate forms of remuneration that you or your partners intend to impose on the Water Companies (where these are known or can be proposed at this stage of the project), or the principles and, where possible, the mechanisms you, or your partners, may use to calculate these in future. In all instances you must set out how and why you consider that the proposals or the approaches outlined are fair, reasonable and non-discriminatory. We recognise that it may be more difficult to provide this information for projects that are at an early stage of development. Where this is the case, you should clearly state what information you can and cannot provide at the point of submitting your entry and why.</p> <p>In order to assess whether the proposed terms are fair, reasonable and non-discriminatory we expect you to provide information in your entry that demonstrates how the proposed royalties, remuneration and/or principles are:</p> <ul style="list-style-type: none"> • Reasonable in light of market-standard royalties or other remuneration; 	
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				<ul style="list-style-type: none"> • No less favourable than the terms that you may offer to third parties; • In all cases, proportional to the funding contributed by Ofwat to the development of the relevant Foreground IPR; and • Generally, in line with the principle that the Foreground IPR (and therefore the Background IPR required to use the Foreground IPR) must be used for the benefit of the customers of all water companies and present value for money for those customers. 	
		iii.	Alternative IPR	<p>Appears only if answer to D i. is Default IPR.</p> <p>Please set out your alternative IPR proposals and how they meet the following conditions:</p> <ol style="list-style-type: none"> 1. The entry will not result in restricted benefits to customers of water companies in England and Wales; 2. The alternative arrangements will not result in additional costs to customers. <p>In setting out how your proposals meet the criteria, answers must include the following:</p> <ul style="list-style-type: none"> • whether the funded entry (i.e., that part funded by the Fund) is part of a wider project; • details of Foreground IPR to be generated by the funded entry, details of Background IPR that is necessary to use the Foreground IPR for the funded entry and details of wider background IPR relating to the delivery of the project as a whole (i.e., not just the funded entry); • What IPR will be available for the funded entry under the proposed alternative IPR provisions, and the customer benefits of that availability alone. • If the wider project Background IPR will be available what would the terms be? <p>Please include an assessment, including where appropriate a cost benefit analysis, as to how these terms are proportionate given the wider benefits to customers.</p> <p>Where your proposal does not align with the default position on IPR, Ofwat has the discretion to consider alternative IPR arrangements.</p>	N/A

E	Monitoring & Evaluation	i	Anticipated start date	<p>Please state the date you anticipate your project will start.</p> <p>We expect entries awarded funding in Breakthrough 5 to start within 6 months of being notified of the award. However, we recognise that some entries may require a longer mobilisation period.</p>	N/A
		ii	Anticipated end date	<p>Assuming you start on your anticipated start date, please state the date you anticipate your entry delivery being complete. Please note this should include any dissemination activities as set out in your project plan.</p>	N/A
		iii	Project stage at start of delivery	<p>Dropdown project stages as set out in Entrant Handbook Appendix 1 – Project Stages.</p> <p>Please select the most relevant project stage that your entry will be at when it starts using Breakthrough 5 funding.</p>	N/A
		iv	Project stage anticipated at end of delivery	<p>Dropdown project stages as set out in Entrant Handbook Appendix 1 – Project Stages.</p> <p>Please select the most relevant project stage that your entry will be at when it is complete.</p>	N/A
		v	Which water cycle tag is the most appropriate for your project?	<p><i>[Dropdown water cycle tags]</i></p> <p>Please select the most relevant water cycle tag for your entry from the water cycle diagram.</p>	N/A
		vi	Which water cycle tag is the second most appropriate for your project?	<p><i>[Optional dropdown water cycle tags, including an N/A option]</i></p> <p>Please select the second most relevant water cycle tag for your entry from the water cycle diagram.</p>	N/A
		vii	Has this entry been submitted into a previous round of the Water Breakthrough Challenge?	Yes/No	N/A
		viii	Please briefly explain how the entry has changed from the previous round(s).	<i>[Only appears if answer to the previous question is Yes]</i>	N/A
		ix	[Transform Stage 2] Changes to entry since stage 1	Beyond any additional detail you may have provided for this entry, is there anything else that has changed in your entry since you originally submitted your stage 1 entry? If so, please summarise the key changes (e.g., new entry partners, change in programme, change in intended approach).	200

Assessed questions

General information

These questions do not relate to specific assessment criteria but will aid the understanding of our judges and assessors when assessing your entry. Assessors and judges will review the answers to these questions but not score them against the assessment criteria. As a reminder, all answers to the questions in this form are visible to assessors and judges, except the information provided in section A – Main Contact Details.

Please note: Answers to 0.1 (Entry title) and 0.2 Entry Description may be used for public-facing communication purposes.

Assessment Criteria	#	Question	Question Guidance	Word Count
All	0.1	Entry title	Please include a short, unique and descriptive name to reference your entry. This may be used in public-facing communications if the entry is successful.	N/A
	0.2	Entry description	Please provide a concise summary of your entry in jargon-free, plain English. This may be used in public-facing communications if the entry is successful , and should help a customer-facing audience understand what you propose to do and the benefits you hope to deliver.	80
	0.3	Entry references	<i>[Optional]</i> Please feel free to include a reference list of any sources of information you have used to support your entry.	N/A
	0.4	Entry visual and diagrams	<i>[Optional]</i> You can attach up to five images and/or diagrams relevant to your entry. Assessors and judges will not be able to review any narrative text within these visuals. Please clearly reference any visuals in your answers below.	N/A
	0.5	Mainstreaming Equity, Diversity and Inclusion in your entry to benefit customers	Please outline how Equity, Diversity and Inclusion (EDI) will be incorporated in the design and delivery of your entry. This could be shown through the make-up of the delivery team and the adjustments you will make to your project delivery. For example: <ul style="list-style-type: none"> • How will you ensure the representation of diverse voices and needs in the design of your entry? • How will you tackle accessibility challenges in the development of the entry’s outputs, e.g. software, build infrastructure, toolkits, etc.? • How will you integrate any wider EDI company policy in the entry’s delivery processes and ways of working? 	500

			Please do not provide any personal or confidential data in your response to this question, but we would welcome anonymous, aggregated data.	
	0.6	Pitch recording	<p>Please sign up to record a 5-minute pitch video (link to sign up will be made available when Stage 2 opens). The purpose of the pitch recording is to provide a video explainer to help assessors and judges quickly understand your entry. Within this pitch, you should outline:</p> <ul style="list-style-type: none"> • The problem the entry aims to address and what benefits it will have for customers, society and/or the environment if successful. As a guide, we suggest this should be around a quarter of your pitch. • What is innovative about your entry. As a guide, we suggest this should be around a quarter of your pitch. • What you intend to do within your entry, focusing on the activities you will undertake. As a guide, we suggest this should be around half of your pitch. <p>You are welcome to use slides or other visual aids within your recording. You may upload these in question 0.4 of this entry form.</p>	N/A

Assessment criteria questions

The following questions are included in the entry form, relating to the assessment criteria below.

1. Positive impact for water customers, society, and the environment

Under this assessment category, we are looking to understand the benefits entries seek to deliver for customers, society, and the environment. Strong entries to Breakthrough 5 will address a well-evidenced, important need or opportunity in the water sector in England and Wales for water customers, society and/or the environment that aligns with one or more of Ofwat’s four strategic innovation themes.

#	Assessment Criteria	Assessment Guidance	#	Question	Question Guidance	Transform Stage 1 (Word count)	Transform Stage 2 (Word count)
1.1	Address a significant need or opportunity for customers, society and/or the environment	Strong entries will be able to articulate which significant need or opportunity the entry aims to address. Entrants should demonstrate a deep understanding of this need or opportunity. They should also showcase an understanding of the wider sector and demonstrate that their initiative addresses an unmet need. <i>[Transform Stage 2 only]</i> Entrants should also provide evidence of the wider context in which the need or	1.1.1	What is the need or opportunity your entry aims to address?	Please summarise the customer, society and/or environmental need this entry aims to address and why it is significant to the water sector in England and Wales.	Yes (250)	Yes (500)
			1.1.2	What, if anything, has already been done to understand and address this need, either by the entry partners or others?	Please provide a summary of any work to date undertaken to address this need by you or others, detailing the key aspects of the problem that have not yet been addressed.	No	Yes (500)

		opportunity exists; how widely it is shared, and how it may develop in the future.	1.1.3	What evidence is there to show that this is a problem for the water sector and to evidence the problem's scale?	Please provide a summary of the evidence on the scale of the problem, who shares the problem, and how it may change in the future.	No	Yes (300)
1.2	Will, or could, be effective in addressing these problems or opportunities	Strong entries will be able to demonstrate the extent to which and how they will address the need or opportunity identified for the sector as a whole. Entrants will set out how the entry delivers impact and benefits to customers, society, and/or the environment in the short and long term.	1.2.1	What is your proposed innovation, and how does it address the need or opportunity identified?	<p><i>[Transform Stage 1 only]</i></p> <p>Please summarise what type of project you are proposing (e.g. a desk-based study, laboratory testing, a prototype, a system, a process, a design, a product, etc.), how the entry will address the need identified in response to criteria 1.1, and how it will deliver better short and long-term benefits and outcomes against one or more of Ofwat's four strategic innovation themes.</p> <p>Note: Entries selected to progress to Stage 2 will be required to submit further information in questions 1.2.2, 1.2.3, 1.2.4 and 1.3.2.</p> <p><i>[Transform Stage 2 only]</i></p> <p>Please summarise what type of project you are proposing (e.g. a desk-based study, laboratory testing, a prototype, a system, a process, a design, a product, etc.), and how the entry will address the need identified in response to criteria 1.1.</p>	Yes (300)	Yes (500)

			1.2.2	<p>What are the entry's intended outcomes, including any knowledge or intellectual property which you intend to generate, and how will they benefit the wider sector?</p>	<p>Please provide a bullet point list of the intended outcomes (what the entry hopes to achieve/accomplish at project completion) in the long and short term of the entry, with particular reference to positive outcomes for water and wastewater customers, society and the environment in England and Wales.</p> <p>For example, an outcome may be that, by entry completion, a new approach will be accepted and brought into operations by all entry partner organisations using a new acceptance process developed within the entry; or the sector may better understand where or how an approach could be applied.</p>	No	Yes (300)
			1.2.3	<p>How will this project achieve the intended outcomes?</p>	<p>Please explain how the project will achieve the outcomes set out in the previous answer by providing SMART objectives (ideally in bullet point format).</p> <p>These objectives must be specific, measurable, achievable, relevant, and time-bound. They should set out what the project aims to achieve/accomplish within its delivery period.</p>	No	Yes (500)
			1.2.4	<p>What longer-term impacts and benefits will the entry provide for the wider water sector once the project has been completed?</p>	<p>Please provide a narrative detailing the entry's wider direct and indirect benefits. This should include how it advances innovation in the water sector in England and Wales.</p> <p>Where possible, please quantify benefits and provide a description of the approach used. Set out any potential cost efficiencies that you expect this project to achieve that would benefit water customers, and when you anticipate these to materialise.</p>	No	Yes (300)

1.3	Align with one (or more) of Ofwat's four strategic innovation themes	Strong entries will be able to demonstrate how the outcomes and benefits have a direct or indirect impact on one (or more) of the four Ofwat strategic innovation themes. Entries must be clear on how these benefits will be achieved with a focus on the strength of alignment with the themes (rather than indirect or less tangible impacts on numerous themes).	1.3.1	Select which theme(s) your entry is impacting:	<i>[Dropdown list of Theme most impacted 1-4, or Not Applicable]</i> Please select the Ofwat theme(s) which are directly impacted through this entry. Please select from the list of themes 1 to 4 or Not Applicable.	Yes	Yes
			1.3.2	How will this entry directly deliver better short and long-term outcomes against one (or more) of Ofwat's four strategic innovation themes?	Please specify how the outcomes, benefits and impacts the entry proposes directly impact and align with the Ofwat themes. We are interested in the strength of alignment rather than the number of addressed Ofwat themes.	No	Yes (250)
1.4	Set out the potential benefits to customers, society and the environment even if the project isn't successful in achieving its intended outcomes	To be truly innovative, we recognise that projects may not be successful in achieving their intended outcomes. We are open to entries that recognise this risk, provided that they carry the potential for significant benefits to customers, society and the environment. A strong entry will articulate how much is understood about the project's feasibility and related uncertainties, the range of possible scenarios that may occur, and how benefits, such as knowledge sharing, could still be realised in the event the project	1.4.1	What benefits could the project generate even if it does not fully achieve its intended outcomes?	Please set out a plan for benefit delivery/realisation in the event that the project cannot meet its intended outcomes. The plan should work towards achieving these outcomes and should include information sharing on the barriers to delivery.	No	Yes (500)

		should fail to meet its intended outcomes.						
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2. Innovation enablers and innovative solutions

Under this assessment category, we want to understand what is novel about the proposed approach and solution and how it could deliver a positive sector-wide innovation legacy.

Strong entries will demonstrate how the proposed entry goes beyond the entrant’s business-as-usual approach to innovation and how it may draw inspiration and/or talent from other sectors. This is both in terms of what the entrant proposes to deliver (innovative solutions) and how they propose to deliver it (innovation enablers). Innovation enablers are the innovative approaches the entry is proposing, which may include how entrants are working internally and externally with collaborators within and outside of the water sector for the benefit of water customers in England and Wales. Entries could include testing new ideas, adapting ideas or practices that have established themselves in other sectors, or adopting proven approaches that haven’t been tried at scale.

#	Assessment Criteria	Assessment Guidance	#	Question	Question Guidance	Transform Stage 1 (Word count)	Transform Stage 2 (Word count)
2.1	Use innovative approaches and/or solutions which would not reasonably be expected to be funded as part of business-as-usual and develops innovative enablers which accelerate practice beyond business-as-usual	<p>Strong entries will clearly set out how the approach or solution is innovative and why it could not be funded as part of business as usual. This can include experimenting with new ideas, adapting ideas and practices from other sectors or adopting approaches at scale. Solutions may include better management of people and resources, systems, processes or technologies.</p> <p>Strong entries will also articulate how the initiative is innovative in its delivery. This may include how entrants are working and sharing ideas with collaborators within and</p>	2.1.1	What is innovative about your entry?	<p>Please set out the innovative elements of the entry, e.g. solutions, technologies, practices, insights, approaches and ways of working.</p> <p>This should include how much research, trialling or similar has been undertaken on it so far; and how this approach is an improvement on what has been developed and/or deployed previously in the water sector in England and Wales.</p>	Yes (600)	Yes (1000)
			2.1.2	Why would the entry not reasonably be expected to be funded or developed as part of business-as-usual?	Please explain why the approach would or could not be developed as part of a water company’s business-as-usual activities (such as normal ongoing improvement measures).	Yes (300)	Yes (500)

	outside the water sector, new business practices and internal business operations, dissemination and use of the knowledge gained across the sector, partnerships, effective joint working and how entrants intend to embed innovation capabilities and skills developed through this initiative into entrants' business-as-usual.					
		2.1.3	How do you propose to deliver the project in an innovative way? What approaches, ways of working and other enablers of innovation do you intend to use when delivering the project?	Please provide a summary of the approaches, ways of working and other enablers which are proposed in delivering this entry. These include collaboration, openness, adaptability, innovation risk management, scalability and deployability (for more detail on innovation enablers, please refer to the 'What we are looking for – Areas for innovation' section in the Entrant Handbook).	No	Yes (350)
		2.1.4	How does this entry build innovation capability or capacity for the water sector?	Based on the approaches, ways of working and other enablers of innovation set out above, please provide detail on how this entry can build the innovation capability or capacity for the water sector. This should include a clear plan for the implementation and further dissemination, e.g. sharing ideas within and outside the sector, joint working, new business practices, and embedding innovation capabilities and skills developed through this initiative within entrant organisations. This plan should include SMART objectives (i.e., be specific, measurable, achievable, relevant, and time-bound).	No	Yes (500)

<p>2.2</p>	<p>Set out the potential for adoption at scale across the water sector</p>	<p>Strong entries will either demonstrate how their solutions and/or approaches can be applied at scale or have the potential to be applied at scale in the future to provide benefits across the water sector in England and Wales. Entrants with clear plans and pathways will detail how they have considered opportunities and challenges for wider implementation across the sector and/or how they are addressing barriers to future adoption at an early design stage.</p>	<p>2.2.1</p>	<p><i>[Transform Stage 1 only]</i></p> <p>What is the entry's potential for scaling up and/or wider implementation in the sector?</p> <p><i>[Transform Stage 2 only]</i></p> <p>What is the entry's potential for scaling up and/or wider implementation in the sector, and what are your plans to realise this potential?</p> <p><i>[Transform Stage 2 only]</i></p> <p>Following the successful delivery of this entry, what steps will you take to enable further implementation at scale across the water sector in England and Wales?</p>	<p><i>[Transform Stage 1 only]</i></p> <p>Please provide an overview of the potential opportunity for scaling, rollout or enabling activities to bring benefits to the water sector across numerous geographies, businesses, and scenarios.</p> <p>Note: Entries progressing to Stage 2 will be required to provide implementation plans.</p> <p><i>[Transform Stage 2]</i></p> <p>Please provide an overview of the potential opportunity for scaling, rollout or enabling activities to bring benefits to the water sector across numerous geographies, businesses, and scenarios.</p> <p>Please consider implementation plans within the delivery phase <i>[Transform Stage 2 only: and after the project has ended]</i>. Describe how scaling, rollout or enabling activities will bring benefits, address water sector-wide needs, and/or be used to improve operations across numerous geographies, businesses, and scenarios.</p>	<p>Yes (300)</p>	<p>Yes (800)</p>
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			2.2.2	<p>What challenges and/or barriers to further implementation have you identified?</p> <p><i>[Transform Stage 2 only]</i></p> <p>How are you planning to address these through the design and implementation of your entry?</p>	<p>Please include a summary of potential challenges or barriers to applying or implementing the intended outcomes at scale.</p> <p><i>[Transform Stage 2 only]</i></p> <p>Please demonstrate how, as part of your work, you have considered and addressed these challenges and barriers through potential outcomes during delivery.</p>	No	Yes (500)
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3. Capacity, capability, and commitment to deliver

Under this assessment category, we are looking for a clear narrative, demonstrating strong evidence that the proposed entry is feasible and that appropriate resources and governance will be in place for its delivery.

Download a copy of the editable Entry Template: [LINK](#). Please note: entrants to the Transform stream are only required to submit the Entry Template in stage 2.

#	Assessment Criteria	Assessment Guidance	#	Question	Question Guidance	Transform Stage 1 (Word count)	Transform Stage 2 (Word count)
3.1	Show commitment to the entry	Strong entries will be able to provide evidence of commitment, especially at a senior level. This will include the extent to which partners have committed to supporting the entry as well as any additional resources or funding partners are providing.	3.1.1	<p><i>[Transform Stage 1 only]</i></p> <p>What are the headline roles and responsibilities assigned to each entry partner?</p> <p><i>[Transform Stage 2 only]</i></p> <p>Who are the senior sponsors and leaders involved from the lead water company and partner organisations, and how are they engaged and invested in the entry?</p>	<p><i>[Transform Stage 1 only]</i></p> <p>Please provide a summary of the headline roles and responsibilities assigned to each partner organisation, and how these will support the successful delivery of your entry.</p> <p>Note: Entries progressing to Stage 2 will be required to provide named individuals for each role as much as possible.</p> <p><i>[Transform Stage 2 only]</i></p> <p>Please provide a narrative of the engagement and investment of senior staff. In doing so, please reflect the executive commitment to continuing the entry if delivery personnel were to change, as well as how senior leadership envisions it will impact and benefit their organisations' ambitions beyond technical improvements, e.g. through internal cultural change.</p> <p><i>[Transform Stage 2 only]</i></p> <p>Please complete the Team and Resourcing template, tab E of the entry template. Please</p>	Yes (250)	Yes (250 + Tab E)

					only include key team members within this template. As a guide, we would expect this to be 3-8 people/roles.		
3.2	Set out a realistic and achievable programme	Strong entries detail the timeline of activities the entry is proposing and demonstrate that the entry has a realistic and achievable delivery plan and programme, with appropriately timed milestones and a proportionate monitoring plan for entry progress, which includes a plan for monitoring the benefits set out within assessment category 1 'Positive impact for water customers, society and the environment', and for capturing and disseminating knowledge and IP generated through the project.	3.2.1	<p><i>[Transform Stage 1 only]</i></p> <p>What are the main milestones and activities for your entry?</p> <p><i>[Transform Stage 2 only]</i></p> <p>What is the delivery programme?</p>	<p><i>[Transform Stage 1 only]</i></p> <p>Please summarise the phases of delivery, milestones and activities that will happen within each project phase. We expect regular knowledge dissemination activities to be integrated into your plans.</p> <p>Note: Entries progressing to Stage 2 will be required to fill in a detailed delivery programme.</p> <p><i>[Transform Stage 2 only]</i></p> <p>Please complete the delivery programme and provide a Gantt chart in tab B of the entry template. Use the text box below to describe your entry's delivery phases, with details of the activities that will happen within each phase. We expect regular knowledge dissemination activities to be integrated into your plans and ask you to set these out in detail in 3.2.4.</p> <p>Please set out a milestone for each delivery phase as a minimum, and how you will determine if the entry has successfully met these. Milestones should be proportional to the scale and risk of your entry.</p>	Yes (250)	Yes (650 + Tab B)

			3.2.2	What project controls will be implemented?	Please provide a narrative describing what project controls will be implemented and how. This may include, for example, stage gates, go/no go decision process, reference to steering and technical groups.	No	Yes (350)
			3.2.3	What is the monitoring plan for the delivery of the entry and its outcomes?	Please set out the proposal for monitoring project delivery progress, outputs, and outcomes. How will you ensure the project benefits are managed?	No	Yes (350)
			3.2.4	What is your plan for disseminating the knowledge and foreground intellectual property you will generate in your project?	Please set out how you intend to capture knowledge and foreground intellectual property generated by your project (as set out in 1.2.2) and share it with the wider sector.	No	Yes (350)
3.3	Will be delivered by a team with the relevant skills and experience	Strong entries will be able to describe the roles and responsibilities assigned to the entry participants. They will also be able to demonstrate that the team includes individuals with relevant skills/capabilities and experience to deliver the entry.	3.3.1	Please describe the entry delivery team. Include team structure, roles, responsibilities, skills and experience.	Please describe the key team members involved in the entry, including from partner organisations, as well as their relevant skills and experience. Please include a short description of the roles and responsibilities assigned to each of the entry partners and how this will support successful delivery. Please also indicate which partner organisation the team member belongs to. Where roles will be filled post-award, please describe the pre-requisite skills to fulfil the role and when the role is planned to be filled.	No	Yes (500 + Tab E)

			3.3.2	How will the delivery of the entry be governed and managed?	Please describe how the entry will be governed, how decisions will be made, and how disputes will be managed. Please upload an organogram depicting the structure and governance of the entry delivery team (JPEG, PNG or PDF).	No	Yes (250 + Organogram)
3.4	Demonstrate a realistic and considered costing which provides efficient use of customer funds	<p>Strong entries will be able to demonstrate an efficient and realistic cost estimate and breakdown, a profile of this spend across the entry's life cycle, and what resources will be required to maintain the actions after delivery close-out.</p> <p>Entrants may also identify if other sources of funding or in-kind contributions are required to support this entry, detailing how and when this will be secured, as well as how different sources of funding will link together.</p>	3.4.1	What is the breakdown of the entry costs, including the assumptions made? Please attach the completed budget template for your entry.	Please complete the Budget Detail template, tab C of the entry template.	No	Yes (Tab C)
			3.4.2	Other than what is provided by the entry partners, what other sources of funding or in-kind contributions will be needed to support this entry?	If applicable, please set out any additional financial or non-financial resources required to complete the entry (i.e., outside the 10% minimum contribution, the funding from the Ofwat Innovation Fund and additional contributions provided by the partners). Please also explain if the funding has been confirmed or when it would be confirmed.	No	Yes (250)

			3.4.3	Please provide a commentary on the justification and accuracy of the entry's costs.	Entrants can describe how the budget has been developed, including the source of the costs (e.g. competitive bidding) and any efficiencies gained from, for example, procurement processes. Please also highlight any areas of cost uncertainty and how this has been mitigated in how the budget has been developed. Please explain the basis for the level of contingency included in the cost estimate.	No	Yes (350)
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<p>3.5</p>	<p>Demonstrate a clear and proportionate approach to addressing risk</p>	<p>Strong entries will be able to demonstrate how they identify and quantify risks and opportunities. Entrants will set credible plans for appropriately managing or mitigating these.</p> <p>For example, entrants should demonstrate an understanding of the circumstances in which the project may need to adapt, pivot, or even stop if new evidence suggests alternative approaches might be more beneficial.</p>	<p>3.5.1</p>	<p><i>[Transform Stage 1 only]</i></p> <p>What risks have been identified for the entry?</p> <p><i>[Transform Stage 2 only]</i></p> <p>What risks and opportunities have been identified for the entry? How will they be managed or mitigated?</p>	<p><i>[Transform Stage 1 only]</i></p> <p>Please summarise the top five risks that could impact the entry’s success in a bullet-point list, e.g. the solution is not taken up by the sector, or an aspect of the innovation is shown not to work.</p> <p>Note: Entries selected to progress to Stage 2 will be required to submit further information, including a risk register and mitigation measures.</p> <p><i>[Transform Stage 2 only]</i></p> <p>Please complete the ‘Risk Register’ template (Tab D in the entry template), with information on risks and opportunities identified, e.g.:</p> <p>the solution is not taken up by the sector;</p> <p>an aspect of the innovation is shown not to work;</p> <p>any dependencies on partnership arrangements and procurement activities.</p>	<p>Yes (125 words)</p>	<p>Yes (Tab D)</p>
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Assessment criteria weighting

1. Positive impact for water customers, society, and the environment	Stage 1 Weighting	Stage 2 Weighting
1.1 Address a significant need or opportunity for customers, society and/or the environment	13.33%	6.66%
1.2 Will, or could, be effective in addressing these problems or opportunities	13.33%	6.66%
1.3 Align with one (or more) of Ofwat's four strategic innovation themes	13.33%	6.66%
1.4 Set out the potential benefits to customers, society and the environment even if the project isn't successful in achieving its intended outcomes	N/A	13.33%
Total	40%	33.3%

2. Innovation enablers and innovative solutions	Stage 1 Weighting	Stage 2 Weighting
2.1 Use innovative approaches and/or solutions which would not be funded as part of business-as-usual and develop innovation enablers which accelerate practice beyond business-as-usual	28%	22.2%
2.2 Set out plans for adoption at scale across the water sector	12%	11.1%
Total	40%	33.3%

3. Capacity, capability, and commitment to deliver	Stage 1 Weighting	Stage 2 Weighting
3.1 Show commitment to the entry	10%	6.66%
3.2 Set out a realistic and achievable programme	5%	6.66%
3.3 Will be delivered by a team with the relevant skills and experience	N/A	6.66%
3.4 Demonstrate a realistic and considered costing which makes effective use of customer funds	N/A	6.66%
3.5 Demonstrate a clear and proportionate approach to addressing risk	5%	6.66%
Total	20%	33.3%

Requirements for successful entries

All participants in the Transform stream of Breakthrough 5 will be required to adhere to the full [terms and conditions](#) of participation. Please ensure you and your partners read and understood these before submitting your entry.

If your entry is selected to win, you must sign a winner's agreement outlining arrangements for monitoring and reporting based on your specific winning entry.

In particular, the key requirements of winners will include:

- **Use of funding:** Any funds awarded through Breakthrough 5 must only be used to fund the initiative described in your entry, which must promote the objectives of Breakthrough 5 as set out within this handbook.
- **Open data by default:** Data, information and learning generated by the winning projects will be open by default (i.e., freely available for everyone to access, use and share). The exception to this would be sensitive data, which in this context would include personal data or data with security implications.
- **10% contribution:** All entries must include a minimum of 10% financial contribution to ensure customers do not bear all the risk of initiatives funded through Breakthrough 5 and to encourage good project management.
- **Monitoring and reporting:** We will need to monitor your progress - this may be through meetings, surveys, written reporting, or other reasonable requests for information. We will endeavour to keep this reporting proportionate to your entry's relative size and risk.
- **Regulatory reporting:** Water companies will need to report spending against funding allowed in Ofwat's [Regulatory Accounting Guidelines tables – Table 9A](#). For regulatory reporting purposes, companies will need to report costs in 2017-18 CPIH deflated prices.
- **Intellectual property rights (IPR):** You should retain all rights in and to your background IPR, including where a bid involves more than one participant. However, an appropriate form of licence should be granted to all participants in any entry, which is the subject of an entry, for the sole purpose of the entry to enable it to go ahead. Appropriate licences for background IPR and foreground IPR should be provided to all current and future water companies in England and Wales.
- **Publicity:** We may use the names of the organisations and summaries of their proposals in publicity materials for Breakthrough 5. We also ask that you acknowledge our support in any public statements about the entry.
- **Conflicts of interest:** You (and any partners you work with) must take reasonable steps to manage any conflicts of interest with Ofwat, Challenge Works, Nesta or any of our delivery partners and judges. You must immediately inform Nesta if you become aware of any potential or actual conflict of interest and provide Challenge Works (part of Nesta) and Ofwat with all information reasonably requested in respect of such conflict.
- **Settlement arrangement:** Payment of funds awarded through Breakthrough 5 will be settled through an agreed mechanism.

More information and support for your entry

Please review the [frequently asked questions \(FAQs\)](#) if you have any questions. If you still have questions after doing so, please email us at waterinnovation@challengeworks.org.

On **Tuesday 10 September 2024, at 11.30 am (BST)**, we will host a live online session for potential entrants and partners to clarify their understanding of Breakthrough 5. The session will cover the key information for prospective entrants:

- An overview of the Fund's aims and ambitions;

- The Breakthrough 5 entry process, including changes from previous rounds and support available to entrants;
- Eligibility, assessment and requirements for winning entries;
- Examples of good practice in knowledge sharing and dissemination of learning;
- Q&A with the audience.

You can register for the session via [the Zoom registration page](#). Once the live session has happened, a recording and transcript will be hosted on [our Events page](#).

If you require any clarification on the entry process or the terms and conditions, you can book a **15-minute surgery session**. The surgery sessions will be run by the Breakthrough 5 delivery partners. Entrants can book a slot on Calendly, please access the [Catalyst booking page](#) or the [Transform booking page](#) based on which stream you are entering. You will be asked a few questions during the booking process to better help us answer your queries.

Recordings of the entry writing workshops we ran in previous rounds are available to all entrants [on our website](#). These are intended to help you develop entry-writing skills, ensure your answers are clear, and answer the questions in line with the assessment guidance.

Default platform for online events, including surgery sessions and pitch recording

We use Zoom meetings and Zoom webinars for all of these. Please ensure you have downloaded the desktop version of Zoom to enable full functionality. You can find advice on joining a test call [here](#).

Equity, Diversity and Inclusion (EDI)

We need to collect relevant data and evidence to monitor the impact of and promote equity, diversity and inclusion (EDI). For the Water Breakthrough Challenge, this means that entrants are asked to:

- Answer question 0.5 in the entry form on how they will promote EDI within their teams and tackle accessibility challenges via the delivery of their project. This includes:
 - Describing how diverse representation will be incorporated into the design and delivery of their entry;
 - Outlining how accessibility challenges will be tackled in the development of any outputs of the entry;
 - Demonstrating how wider company EDI policies will be integrated into the entry;
 - Where relevant, demonstrating how they plan to include EDI considerations relating to their customers.
- Participate in a post-entry survey.

EDI considerations are highly encouraged where appropriate in the proposal. Entries will continue to be assessed on their merit against the assessment criteria.

Feedback and Learning

If you have any feedback or concerns relating to Breakthrough 5, the Ofwat Innovation Fund or any of the winners of previous rounds, please feel free to contact us directly at waterinnovation@challengeworks.org or submit your feedback or concerns anonymously [here](#). We welcome and support feedback from entrants via email and via **entrant surveys** sent out after entering one of our competitions.

If you would prefer to contact Ofwat directly, you may do so by emailing innovation@ofwat.gov.uk. Ofwat also has a range of materials available relating to [whistleblowing](#) and [making a complaint](#).



**Water
Breakthrough
Challenge**

waterinnovation.challenges.org

Appendices

Appendix 1 Project stages

Level	Description	Typical activities to be supported in this phase of maturity	Approximate Technology Readiness Level equivalent
1 Initial research	Understanding the problem and exploring possible solutions	Initial industry & market research, Problem investigation and analysis, gathering stakeholder requirements to create the value proposition, Early optioneering of solutions, technology concept/application formulation, risk/opportunity analysis and research	TRL 1-2
2 Concept and feasibility	Developing or testing a concept, designing the solution, and testing the feasibility of solutions	Innovation concept selection and early design, Testing/proving a concept, developing the initial prototype, Defining the approach to enable further detailed testing, and assessing the fundamental feasibility of solution(s) within controlled environments.	TRL 2-4
3 Development and verification	Developing the preferred solution, verifying the design through prototype demonstration in a real-world (or near-real-world) environment	On or off-site trials of the solution in a near-real or real-world environment, Design risk analysis, including Failure Modes Effects Analysis (FMEA) for future operation, approach to departures (how can we deploy the solution), Testing against operational requirements	TRL 3-6
4 Validation and optimisation	Scaling up the solution for roll-out or commercialisation	Identifying practical routes to market, development of training or education requirements, large scale or late-stage testing (pilots), Fine-tuning to proven operational concepts, Benefits evaluation, review for approval and deployment, standards, or specification development for the innovation.	TRL 6-8
5 Deployment and post-launch	Implementing or rolling out the solution and assessing its impact	Roll-out and implementation, Standard/specification finalisation and publication, User training or education, Benefits testing and evaluation, Continuous improvement & lessons learnt for future development.	TRL 8-9

Appendix 2 Entering the Catalyst stream if unsuccessful in Transform Stage 1

In exceptional circumstances*, some unsuccessful entrants to Stage 1 of the Transform stream might consider entering the Catalyst stream (which closes on 6 January 2025) with a revised entry. This appendix outlines the process for any entrants who may consider this option.

Please note this does not represent a recommendation from us to unsuccessful entrants in Stage 1 of the Transform stream to enter the Catalyst stream. Entering the Catalyst stream will not in any way guarantee that your entry will be successful in winning funding. All entries to the Catalyst stream are subject to the same entry process, terms and conditions, and assessment.

On 18 November 2024, all entrants will be notified via email of the Stage 1 assessment results for the Transform stream. Among other relevant information, all emails to unsuccessful entrants will include a mention of the remaining window for entering the Catalyst stream. Unsuccessful entrants to Stage 1 of the Transform stream will be required to confirm in writing if they plan to enter the Catalyst stream **by 12 pm (GMT) on Friday 22 November 2024**.

If the entrant confirms that they intend to enter the Catalyst stream, the Breakthrough 5 delivery partners will:

- Prioritise feedback to entrants intending to enter the Catalyst stream, providing this to them by **4 December 2024**. Note: the accelerated timeline will only be feasible for a reduced number of entries (as opposed to all unsuccessful entries to Stage 1 of the Transform stream).
- Re-share access to the entrant's Transform stream, Stage 1 entry on Submittable. This should enable entrants to paste answers for editing into the entry form for the Catalyst stream. However, we would expect that any entry to the Catalyst stream following this route would be substantially revised to reflect the funding brackets, aims of the Catalyst stream, and any feedback given.

Owat and its delivery partners cannot provide bespoke support or guidance to any entrants selecting this option. However, unsuccessful entrants to Stage 1 of the Transform stream will have access to the same entrant support available to all entrants to the Catalyst stream under the competitive nature of the Fund.

Similarly, entering the Catalyst stream after an unsuccessful outcome in Stage 1 of the Transform stream will not change how entries into Catalyst are assessed.

Information about the Catalyst stream can be found in the [Catalyst stream Entrant Handbook](#).

*E.g., where the initial stages of a project plan submitted as part of a Transform entry could form a viable smaller-scale project that could meet the aims of the Catalyst stream. Please refer to [Appendix 1](#) of this handbook for more information about project stages.

The differences between entry forms in the Catalyst stream and the Stage 1 Transform stream comprise:

Description of difference	Detail
Pitch recording duration	3 mins (Catalyst) versus 5 mins (Transform)
11 additional questions in the Catalyst stream entry form (asked at Stage 2 in the Transform stream), for a total of approx. 3,275 extra words.	1.1.2 1.2.2, 1.2.3, 1.2.4 1.3.2 1.4.1 2.1.3 2.2.2 3.2.2, 3.2.3, 3.2.4 3.3.1 3.4.2
Increased word count for 2 questions in the Catalyst stream compared to Stage 1 of the Transform stream	2.1.1 (700 vs 600) 3.2.1 (300 vs 250)
No live Q&A with assessors in the Catalyst stream as in Stage 1 of the Transform stream	

Appendix 3 Entrant handbook version control

Version	Changes
Round 5 Version 1.1 published 9 September 2024	Date by which any entry requesting greater than £10 million must have emailed the Fund updated.
Round 5 Version 1, published 9 September 2024	Original Version for Round 5. Material changes from Breakthrough 4 are highlighted in green (excluding dates) throughout this version and include: <ul style="list-style-type: none"> • Collaboration agreement template • Transform Stage 1 live Q&A process • Updates to streamline Transform Stage 1 entry form • DWI involvement in entries related to drinking water and Water Cycle Tags diagram to aid understanding of this • Addition of a calculator in the Submittable form to aid entry cost calculations • Pitch recordings at Stage 2 only of Transform stream (as well as Catalyst stream) • Guidance on projects that benefit non-household customers • Requirement to specify source of funds for project contributions in entry form
Round 4 Version 1, published 5 September 2023	Original Version for Round 4. Material changes from Breakthrough 3 are highlighted in green (excluding dates) throughout this version and include: <ul style="list-style-type: none"> • Updates to judging process, including live Q&A • Updates on sharing knowledge and foreground IP • Information about the eligibility of Water Discovery Challenge Finalists (Catalyst version only) • Advice on early planning to avoid delay to project start (if entry successful) • Collaboration agreement example • Appendix 2 Entering the Catalyst stream if unsuccessful in Transform stage 1
Round 3 Version 1, published 3 October 2022	Original Version for Round 3. Material changes from Breakthrough 2 are highlighted in green (excluding dates) throughout this version and include: <ul style="list-style-type: none"> • Updates to IPR policy • Updates to eligibility and funding amounts • Updates to include live pitches in the entry process
Version 1.1, Published 12 October 2021	Text changed to update funding amount to approximately £34 million for the Transform stream.

<p>Version 1, published 11 October 2021</p>	<p>Original Version.</p> <p>Main changes from Breakthrough 1 Handbook:</p> <ul style="list-style-type: none">• Updates to key dates• Introduction of streams; focus on Transform stream.• Updates to highlight the screening role of the Stage 1 entry period in the Transform stream.• Updates to highlight the change to include Pitch Recordings in Stage 1 and Stage 2 of the entry period for the Transform stream.• Updates to questions and criteria for clarity and efficiency.
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