# BIM4Water 10 Year Anniversary Event



Digital Imperative & Digital Connect Simplex Services UK Ltd.

Birmingham 28<sup>th</sup> November 2023

# Agenda

Digital Imperative & Digital Connect



Introduction



#### Background & Purpose

What do we mean by digitalisation?



#### **Digital Imperative**

*Is digital innovation essential to solve challenges in the water industry?* 



Digital Connect: Explore "WaterWatch"

Connecting and share innovations for greater good

#### Introduction - Simplex is BIM4Water's Digital Partner

**Simplex Services** is a global IT consulting services provider delivering high value to clients through integrated, reliable, responsive and cost-effective solutions.

We help businesses improve their operational excellence and transform them into a technology-driven enterprise.

**BIM4Water** has partnered with Simplex to help the Water Companies and the ecosystem with their digital transformation initiatives.



#### **BOUTIQUE CONSULTANCY**

A management consultancy background and the ability to elevate C-level



#### INDEPENDENT PERSPECTIVE

Our independence is beneficial to customers in identifying the right fit



#### PROVEN EXPERIENCE

Resolved customer problems covering strategy execution, project management



#### LINE OF BUSINESS EXPERTISE

Proven experience of large-scale Enterprise Data Centre and Cloud migration and









## Introduction – this is a team effort



















#### **About You**

#### What is your functional role in the industry?

Tip: Not your job title in your organisation.



Join at slido.com #2630 131



What is your functional role in the industry?

## Agenda

Background and purpose
 What do we mean by digitalisation?

• Digital Imperative:

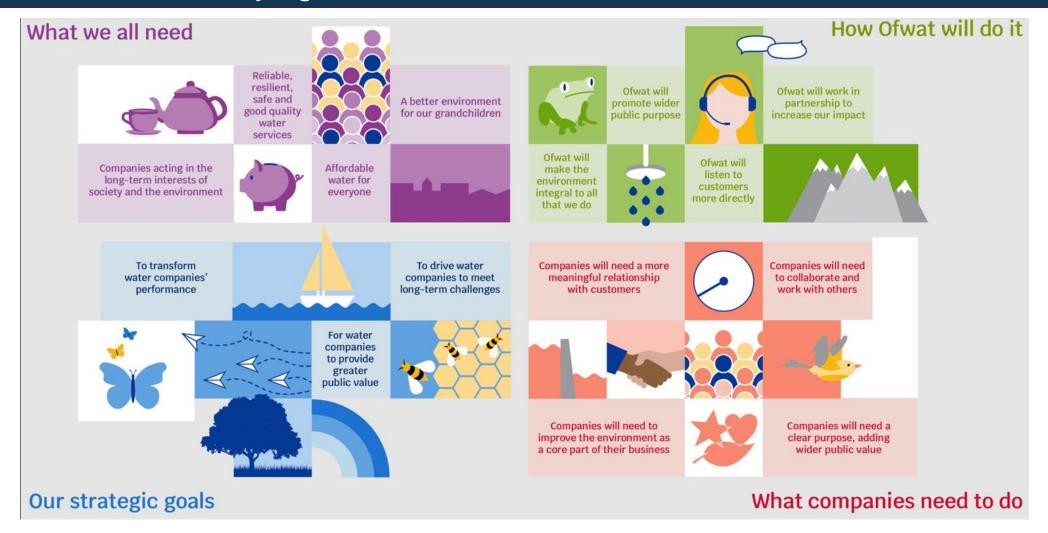
Is digital innovation essential to solve challenges in the water industry?

Digital Connect: Explore "WaterWatch"

Connecting and sharing innovations for greater good

### **Digital Imperative**

what do we mean by digitalisation?



Source: Ofwat - Our strategy <a href="https://www.ofwat.gov.uk/about-us/our-strategy/">https://www.ofwat.gov.uk/about-us/our-strategy/</a>

## Opportunities for Digitalisation

What are the opportunities for digitalisation in the water industry?

Which of these areas will benefit the most from digital innovation in the next five years?

- 1. Manage Assets Better
- 2. Prevent and fix leaks
- 3. Reduce impact on the Environment
- 4. Share innovation and learn from others
- 5. Improve customer experience

Examples: sensors, monitors and connecting them to for intelligence, CSO monitoring, flow monitors etc.

Examples: smart networks, acoustic monitoring on water mains, citizen monitoring etc.

Examples: nature based solutions, collaboration with Defra and universities

Examples: collaboration between water companies, environmental monitoring "citizen science", adoption of carbon neutral approaches

Examples: joined up customer experience, similar to retail and mobile banking



Join at slido.com #2630 131

Opportunities for digitalisation in the water industry.
Which of these areas will benefit most from digitalisation in next 5 years?

Manage Assets Better

68%

Reduce impact on the environment

18%

Improve customer experience

7

Share innovation and learn from others

5%

Prevent and fix leaks





### Ownership and Drive

Who should drive these digital innovation initiatives?

In your experience, is the digital strategy aligned to the business strategy?

Which organisation is best placed to lead and drive the digital change to expedite the digital adoption?

- 1. Water Companies
- 2. Government create new body or re-purpose existing.
- 3. Ofwat
- 4. Service Providers e.g., software companies
- 5. Industry consortia e.g., BIM4Water, UKWIR, Spring etc.



Join at slido.com #2630 131

Which organisation is best placed to lead and drive the digital change to expedite the digital adoption? **Water Companies** 56% Regulator - OfWat 24% Industry consortia or group 16% Government – create new body or re-purpose existing. 4% Service Providers 0%

## **Enablers of Digital Innovation**

What changes are required to support and share digital innovation in the water industry for people and planet?

```
Tip: short sentence 5 - 10 words max.

{ Example: leadership and funding, technology platform to share innovation etc. }
```

**ROI** examples



Join at slido.com #2630 131

What changes are required to support and share digital innovation in the water industry for people and planet? Regulation change competition digitisation capital investment Level learning embrace resource Collaboration coupled with regulation More collaboration common removal regulator able utility win stories education silos training collaborative forum standards data share aood Regulations projects comparative qoals focus enforcement Standards with teeth

The regulator needs to set goals and targets



## Agenda

Background and purpose
 What do we mean by digitalisation?

• Digital Imperative:

Is digital innovation essential to solve challenges in the water industry?

Digital Connect: Explore "WaterWatch"

Connecting and sharing innovations for greater good

## **Digital Connect**

#### Digital initiatives can accelerate achieving each of the following ODI themes:

- Customer satisfaction
   (C-Mex Customer measure of experience)
- Priority services
   (proportion of households on priority services register)
- 3. Leakage
- 4. Household water use
- 5. Supply interruptions

- 6. Water quality
- 7. Mains repairs
- 8. Unplanned outage
- 9. Sewer flooding
- 10. Pollution incidents
- 11. Sewer collapses
- 12. Treatment works compliance.

# Digital Connect

#### Genesis of "WaterWatch"

#### BIM4Water *Waterathon* October 2023:

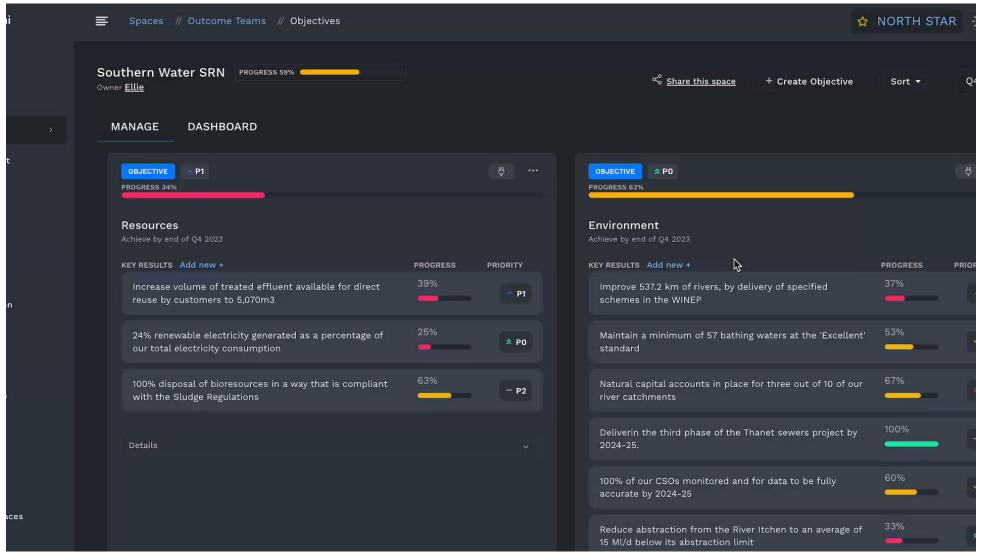
- Everyone is innovating digitally in their own domains.
- Difficult to know who, what and where.
- Identified a gap learn and share innovation





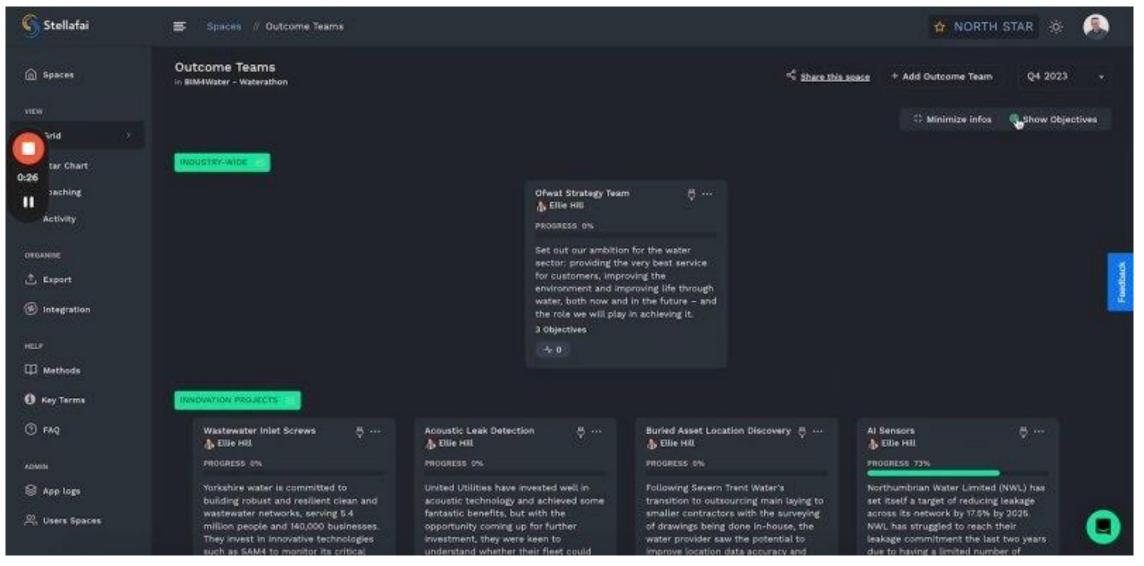
#### Water Watch: Drive and Share Innovation

WaterWatch providing an "Open Water Library" for the Water Sector

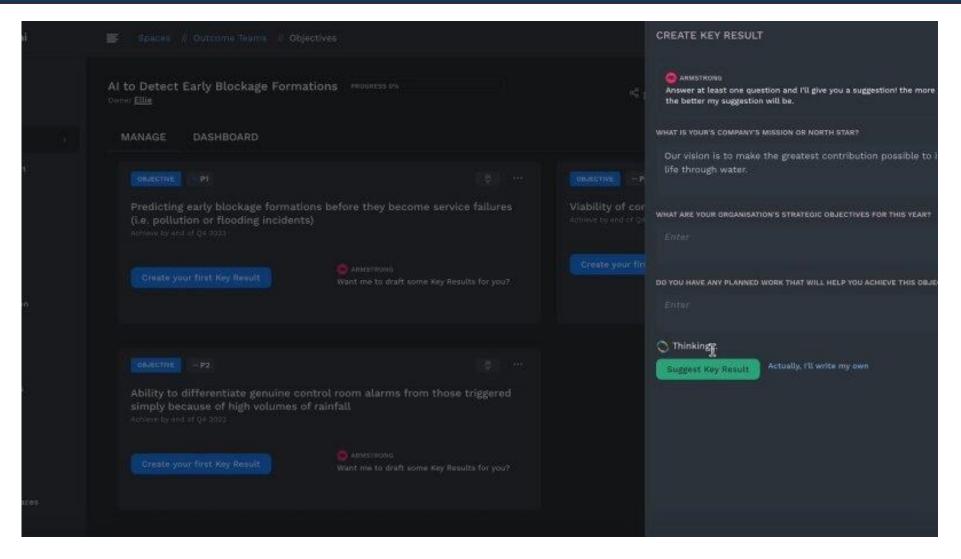


#### Digital Connect: Enable Visibility and Transparency

"WaterWatch" connecting the what to the why?

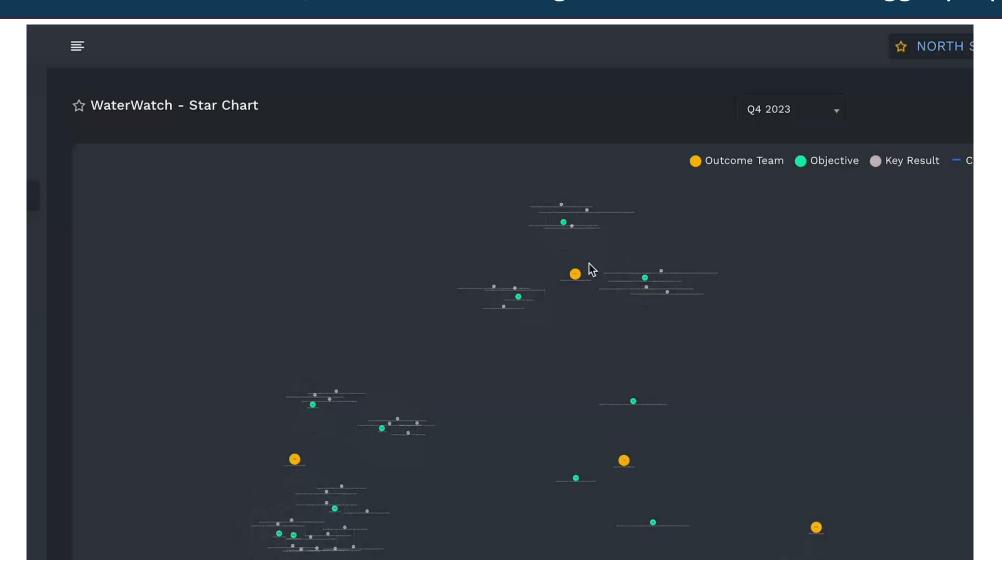


# Digital Connect: Measuring Outcome using Al

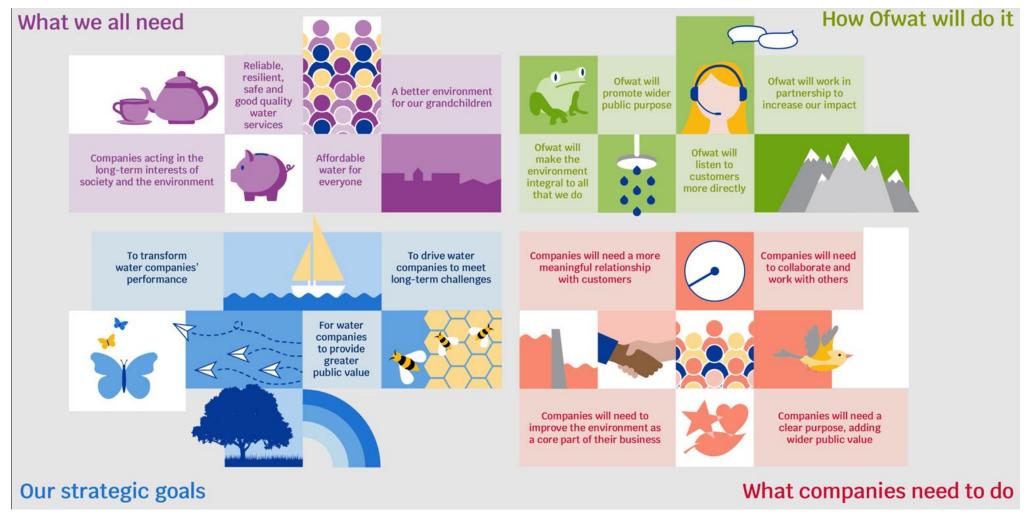


## Digital Connect: Collaboration and Sharing

Learn and share innovation, WaterWatch linking the innovations to the bigger purpose



### Recap: Purpose



Source: Ofwat - Our strategy <a href="https://www.ofwat.gov.uk/about-us/our-strategy/">https://www.ofwat.gov.uk/about-us/our-strategy/</a>

# Recap and Summary

Digital Innovation is essential to support all the strategic objectives

Digital Innovation is happening across the ecosystem and people are collaborating

Digital Connect is a challenge

WaterWatch – technology (including AI) can help but participation is the main success criteria

### Next steps

Details from this session will be published via the Simplex microsite



#### Explore further?

- Book advisory call with the team
   Play back to your organisation? Book a follow up session

https://simplex-services.com/advisory/



# Thank you!

simplex-services.com

@simplexsvcs | info@simplex-services.com | +44 1273041146