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India-UK Water Security Exchange  
**MEETING NATIONAL NEEDS**

Water Sector 2016

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# We deliver solutions to customer needs



**CUSTOMER OUTCOMES & ODI's** Achieve tough performance metrics



**TOTEX EFFICIENCY** Intelligent management of assets



**SUSTAINABILITY** Deliver a circular economy & energy neutrality



**COST EFFICIENCY** Deliver efficient cost (£/ml) consistently



**PREDICTABILITY & REALIABILITY** Improve operational predictability and reliability



**RESILIENCE & AVAILABILITY** Connected assets that are always available

# We Offer A Broad Range Of Advisory Services



## Professional Services

## Our Case Studies

<b>Programme Management</b>	<b>Planning, Portfolio, Programme and project management</b> , Risk Management, Project Controls	Severn Trent Water Business Consultancy	
		National Grid Transmission Services Gas Programme Management	
		Integrated Project Delivery	
		4D Delivery Ltd Financial Planning and Programme Management	
<b>Project Engineering &amp; Construction Management</b>	Specialist Engineering, Health & Safety Management including <b>Behavioural Safety</b> , Environmental Management, Sustainability, Quality Management, <b>Factory Thinking</b> ,	Haslemere Factory Thinking	
		Behavioural Safety Management – Highways Sector	
<b>Commercial Services</b>	<b>Commercial management</b> , Procurement & Supply Chain Expertise, Dispute Resolution	Thames Water/Eight20 AMP6 Business Plan Commercial Validation	
		Severn Trent Water Standard Products Project (Phase 1)	
		Dispute Resolution For National Grid (Integrated Security Solutions)	
<b>Asset Optimisation</b>	<b>Optimising Assets</b> , Energy Management	Severn Trent Water Asset Optimisation	
		CoDemand At Wessex Water	
<b>Technology &amp; Information Solutions</b>	<b>Technology Integration</b> , Common Data Environments, Document Management and Building Information Systems, <b>Instrumentation Control and Automation (ICA) solutions</b>	Asset Lifecycle Information Management	
		Frankley WTW Production Planning Using BIM	

## Customer Benefits



# Asset Lifecycle Information Management (ALIM)



## Project Details

Technology Partners: IBM

## Benefits To Customer

**Efficiency:** better data integration, analysis and reporting

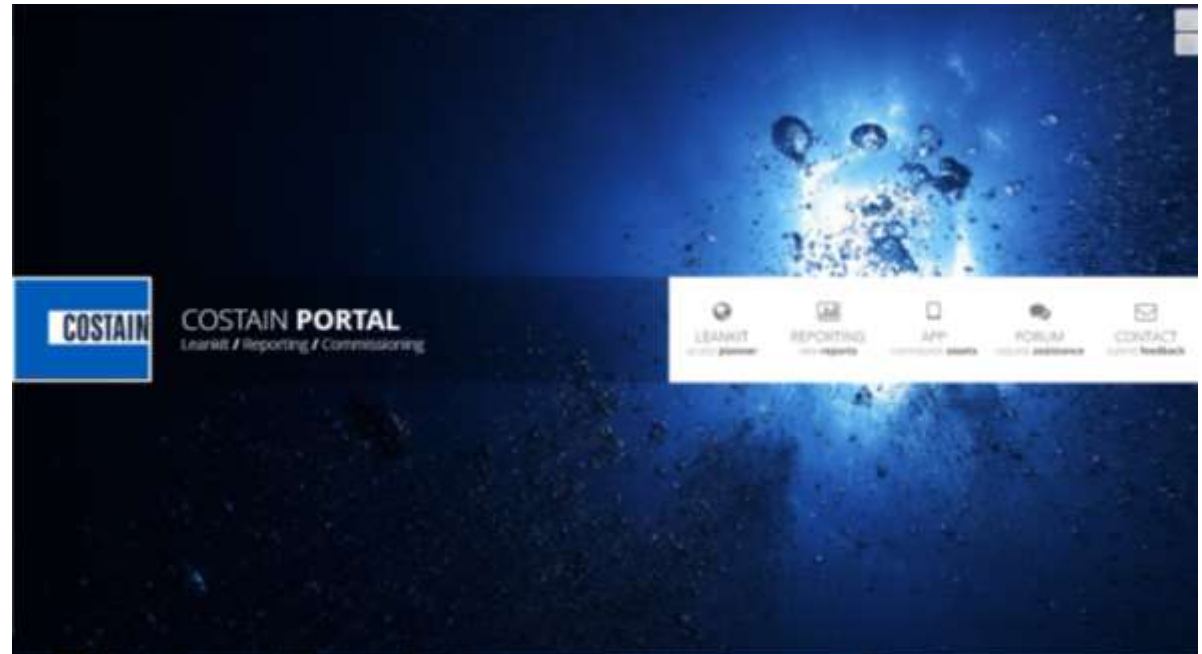
**Innovation:** lead industry standards



PREDICTABILITY & REALIABILITY



RESILIENCE & AVAILABILITY



- Asset Lifecycle Information Management uses predictive analytics and big data 'in the cloud' along with other advanced technologies to both improve asset performance and detection/prevention of failures and other unwanted events.
- Our MEICA mobile app allows our site based engineers to capture asset data out in the field moving away from managing several different documents and associated workflows.

The app success has led to co-investment with IBM to develop into a wider marketable ALIM product



# Thames Water/Eight2O AMP6 Business Plan Commercial Validation



## Details

**Customer:** Thames Water

**Contract Value:** ~£200K

**Programme Value:** ~£2bn

**Project Duration:** 2,500 hours

**Staff Engaged:** managing estimators, managing quantity surveyors, estimators, project managers, construction managers MEICA specialists

## Benefits To Customer

**Better:** accurate estimates using 20 yrs of construction & production data

**Customer Confidence:** validation undertaken by a highly experienced team in delivery



- As part of the eight2O ECI a significant validation exercise was executed for eight2O's scope in the AMP6 business plan, led by Costain's Project Director, Simon Roberts.
- The primary benefit was to assure all partners in the eight2O alliance that the plan was **credible and deliverable**. The exercise also identified and quantified the efficiency level that could be applied to eight2O's scope in the draft plan.
- The confidence gained for all partners provided a platform to plan for efficient and effective delivery and for TWUL to have enhanced confidence in the draft business plan **submitted to OFWAT in December 2013**.



CUSTOMER  
OUTCOMES  
& ODI's



£/ml  
COST  
EFFICIENCY

*The primary benefit of this exercise was to assure all partners in the eight2O alliance that the plan was credible and deliverable*



# Haslemere WTW Factory Thinking

COSTAIN

## Project Details

**Name:** Haslemere WTW Water Quality

**Customer:** Thames Water

**Contract Value:** £5m

## Benefits To Customer

**Safer:** No lost time accidents

**Better:** No loss of throughput or reduction in quality of treated water

**Faster:** 50% reduction

**Cost:** £2.5m Capex reduction



COST  
EFFICIENCY



RESILIENCE &  
AVAILABILITY

- 'Factory Thinking' promotes a **systems-led engineering approach**, including offsite prefabrication and a more standardised approach to construction leading to a much swifter and safer onsite assembly process.
- At Haslemere off-site manufacture enabled simultaneous working to be employed whilst the basic civils were completed but also **reduced the MEICA trade input on-site from 9 weeks to 4 weeks.**

[CLICK HERE](#) for link to Haslemere video



# Severn Trent Water Standard Products Project (Phase 1)



## Project Details

**Customer:** Severn Trent Water

**Contract Value:** ~£250k

**Costain Staff:** 6

## Benefits To Customer

**Better:** standardisation of products

**Cost:** potential saving £18m

**Technical Expertise:** provide benchmark data and develop specifications



**COST  
EFFICIENCY**



**PREDICTABILITY &  
RELIABILITY**

- The scope was to develop a suite of standard products to ensure the client understood the cost build up and operational cost of their assets. The primary objective was to help the client deliver **20% cheaper and 30% quicker**.
- This required a detailed review of the programme information to ensure the correct products were selected, specified and delivered.

The benefits will include lower TOTEX, flexible framework contracts and a supplier commitment to innovation



# Offsite School

COSTAIN



[www.offsiteschool.com](http://www.offsiteschool.com)