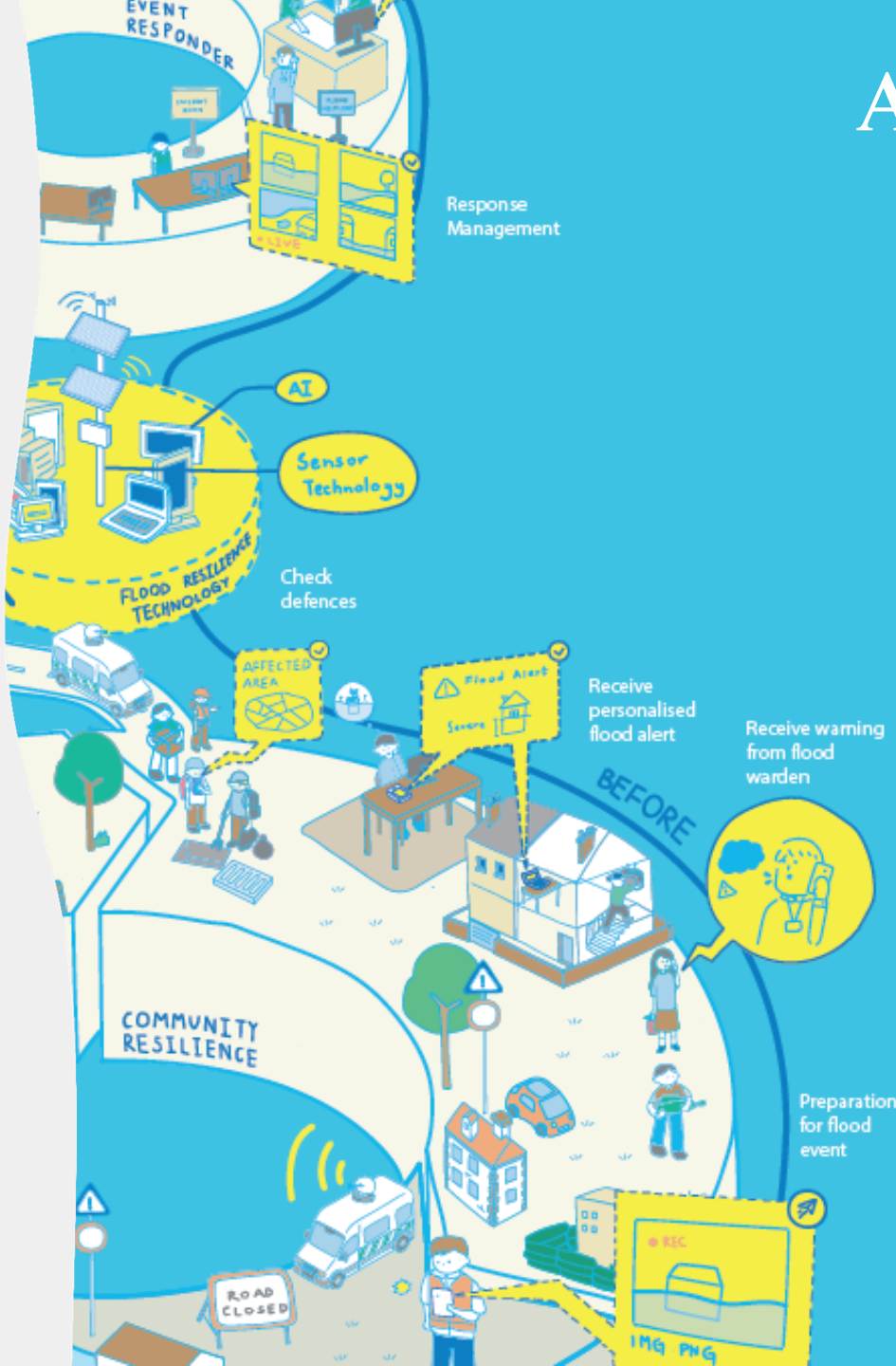
ARUP

G-Cloud 15
Digital asset information management

G-Cloud 15
Service definition document

Our firm

Arup is a global collective of designers, consultants and experts dedicated to sustainable development, and to using imagination, technology and rigour to shape a better world



Our aims

The aims and principles laid out by Sir Ove Arup in his Key Speech, continue to underpin our firm today


Social usefulness


Total architecture


Humane organisation


Straight and honourable dealings


Quality of work


Reasonable prosperity

Who we are

We combine digital expertise with market knowledge to advise on the role of digital and data in the built and natural environment

We deliver services and solutions that solve complex challenges for our clients



Our strategy

We work with clients, partner and practitioners who share our commitment to create a sustainable future for everyone



Our partnerships

From climate change to city resilience, our long-term collaborations help us to tackle some of the world's toughest problems























Some of our clients





































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Our G-Cloud 15 services

- Digital service design and development
- Discovery phase
- Alpha phase
- Beta phase
- Digital Asset Information Management
- Digital Strategy and Architecture
- Built Environment Data Advisory
- Digital Transformation
- Digital Energy
- Digital Water
- Digital Transport
- Experience Design
- Digital for Sustainability
- Digital Twins
- Digital Planning
- Co-Design
- GIS (Geographic Information System)

Digital Asset Information Management

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Digital Asset Information Management

Introduction

Arup helps clients to bring transformative asset insights and intelligence into their operations, maintenance and renewal decision making.

As the physical and digital worlds continue to converge, there are powerful new ways to manage, operate and optimise buildings and assets throughout their lifespan. Business leaders expect greater insight into the performance of the assets they invest in, for commercial, operational and reputational reasons. Digital asset management brings together data and insights in a manageable and cost-effective way.

Arup provides services, processes and advice how to better manage data throughout the asset lifecycle, delivered by experienced system and data specialists.



Features

Features

- Development of asset information strategies in line with the ISO55000 series for the establishment of asset information requirements for asset management and operations
- Determine the asset information requirements at the outset of a project, through assessment of the existing data processes, or establishment of new ones focussed on the business outcomes for the client.
- Establish the appropriate use of both BIM and GIS within asset projects
- Application and establishment of the ISO19650 standard in projects (construction industry information management standard), including experience of application in multiple sectors
- Definition, delivery and management of Common Data environments
- Delivery of appropriate asset data models for the storage of asset information which are efficient and appropriate to support end use for reporting, dashboards, analysis and digital twins
- Business Intelligence Analysis of asset information to generate new insights
- Support definition and delivery of Enterprise Asset Management Systems (EAMS) and associated tools
- Introduction of new and innovative data capture techniques including remote condition inspection and sensing
- Application of data science to asset information to generate predictive insights

Benefits

Benefits

- Arup’s digital asset information management services are based on real world experience of operational asset management decision making, working in the built environment applying ISO19650 standards on our own projects.
- Arup draws from a global community of digital and asset management practitioners across multiple 'Built Environment' domains to provide the optimum advice and solution
- Our practitioners have cross sector experience and apply these lessons to all new projects
- Improve interoperability between digital solutions and business units in the asset management domain
- Increase asset management project and operational efficiencies
- Delivery of tailored solutions aligned to the maturity of an organisation's asset information.
- Expert end-to-end advice on how to manage asset information across the asset lifecycle
- We combine deep engineering domain expertise with leading thinking on data to develop creative applications for the use of asset information
- We recognise that collecting missing asset information is costly and so we use our knowledge of innovative data acquisition techniques to collect asset information in new and cost-effective ways

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Who we've worked with











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National Highways, Pavement Management System

Enabling high-quality asset management tool procurement

Arup supported National Highways to procure a modern, stable COTS asset management product with increased benefits to their business. We led the development of the Statement of Works and Functional Requirements. This provided the basis evaluate candidate products in a structured manner with reference to potential benefit, cost and risk.

Our work helped secure continuity of pavement management capability whilst establishing links to support the Company's strategic initiatives – Asset Management Systems Strategy; Information Vision and Strategy; Data as a Service.



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Yorkshire Water, Capital Engineering Delivery

Digital transformation of the delivery of capital engineering projects

Arup produced a Digital Strategy for Yorkshire Water to define a vision and roadmap for efficient and effective delivery of capital projects based on the use of modern digital technologies. Yorkshire Water recognised that existing processes relied on legacy systems constraining their ability to work in new ways. Arup's Digital transformation strategy shortened project delivery times and significantly reduced implementation costs.

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