G-Cloud 14 Built environment data advisory
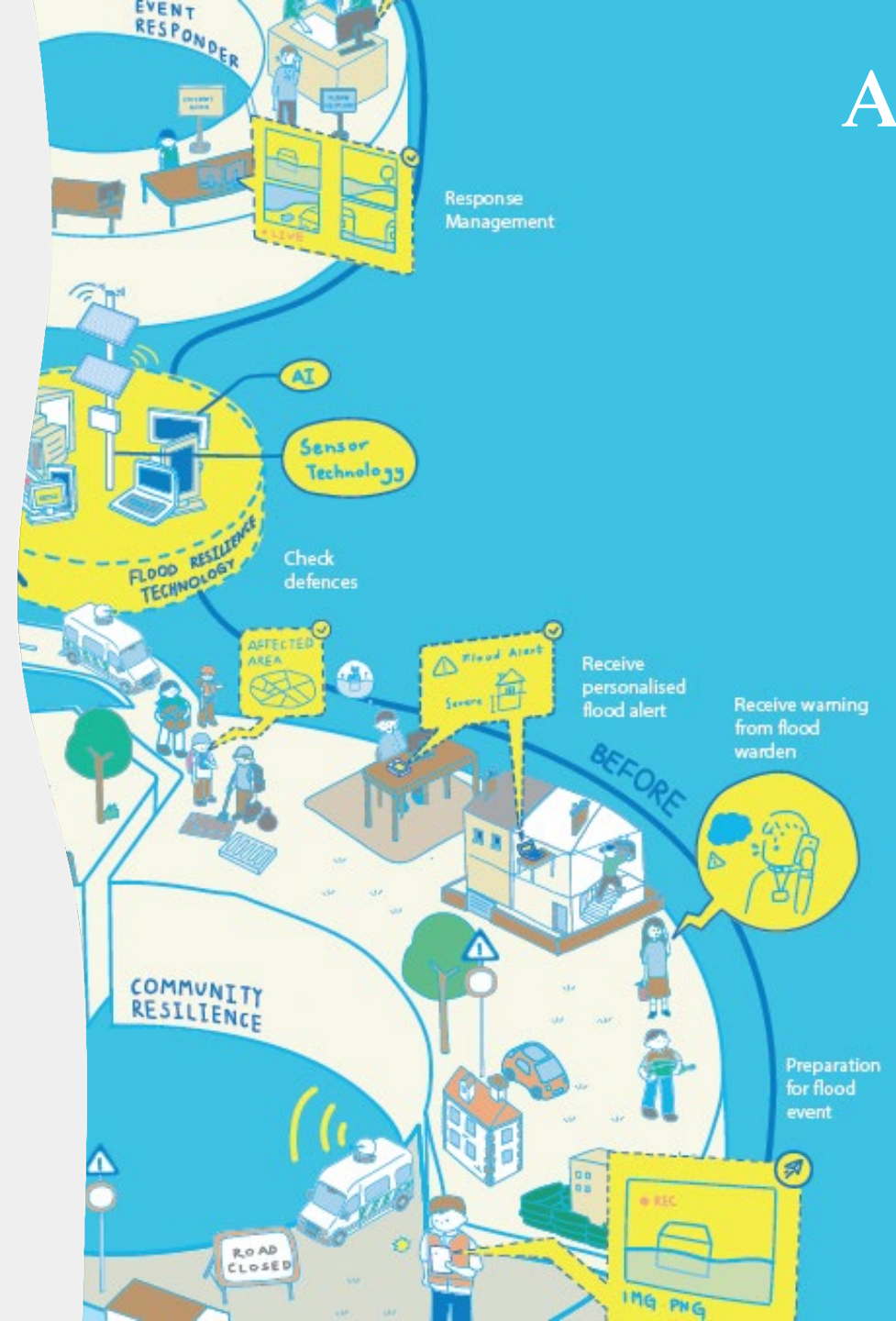
G-Cloud 14
Service definition document

ARUP

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, partners 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

Our G-Cloud 14 services

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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)			

Built Environment Data Advisory

Built Environment Data Advisory

Introduction

Creating the strategic, policy, and technical framework required by complex infrastructure projects and asset management organisations.

Covering all aspects of the data lifecycle, from defining what data should be collected, to leveraging data to realise data science and AI outcomes.

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Features

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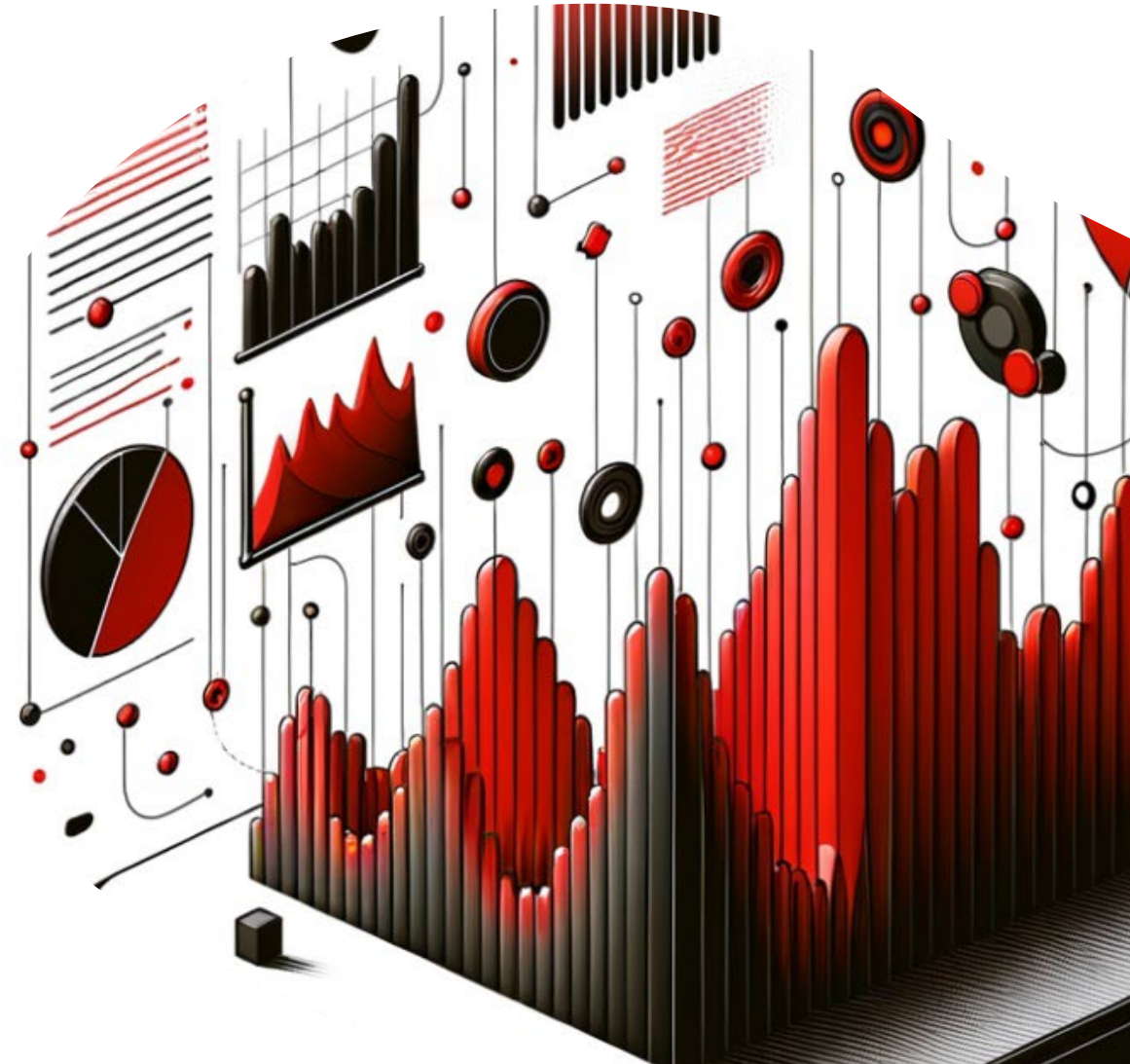
- Co-design of a data vision

- Stakeholder engagement, comms, and user-centred design

- Data governance and information management policy

- Data specification, data architecture, and data modelling

- Data profiling, data quality, and data valuation.

- Ontology and taxonomy creation for interoperability

- Cloud data storage, data pipelines, and APIs

- Data analytics, dashboarding, and self-service reporting

- Data science, AI and machine learning

- User engagement, adoption support, and training

Benefits

Benefits

- Prioritising investments in data around user needs

- Clarity on the roles and responsibilities for managing data

- Effective sponsorship and ownership of IT investment

- Identification and reduction of information security / data protection risks

- Better provision of meaningful information to users

- Scalable and extensible data platforms and data sharing

- Creating a 'single source of truth' for information

- Cost savings and efficiency improvements through leveraging data science and AI

- Retire legacy solutions

- De-risk delivery of new IT solutions

Who we've worked with

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Network Rail, Exchange of Asset Information

Better information for a better railway

Arup defined the data architecture and data models (conceptual, logical and physical) to guide the system implementation approach (application, databases, integration) and to drive BAU configuration of the solution in line with a regularly evolving asset information specification of 1700 asset types

Transport for the North, Data Strategy

Better Data management for a single view of the truth

Arup led the development of a Data Strategy that helped TfN determine how they will use data to drive decision making. This defined the data governance approach, data management processes, KPIs and dashboards and data standards. The Data Strategy enabled TfN to establish a 'single view of truth' of its data, supporting more confident decision making and reducing the costs required to collect and maintain strategic data sets

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