

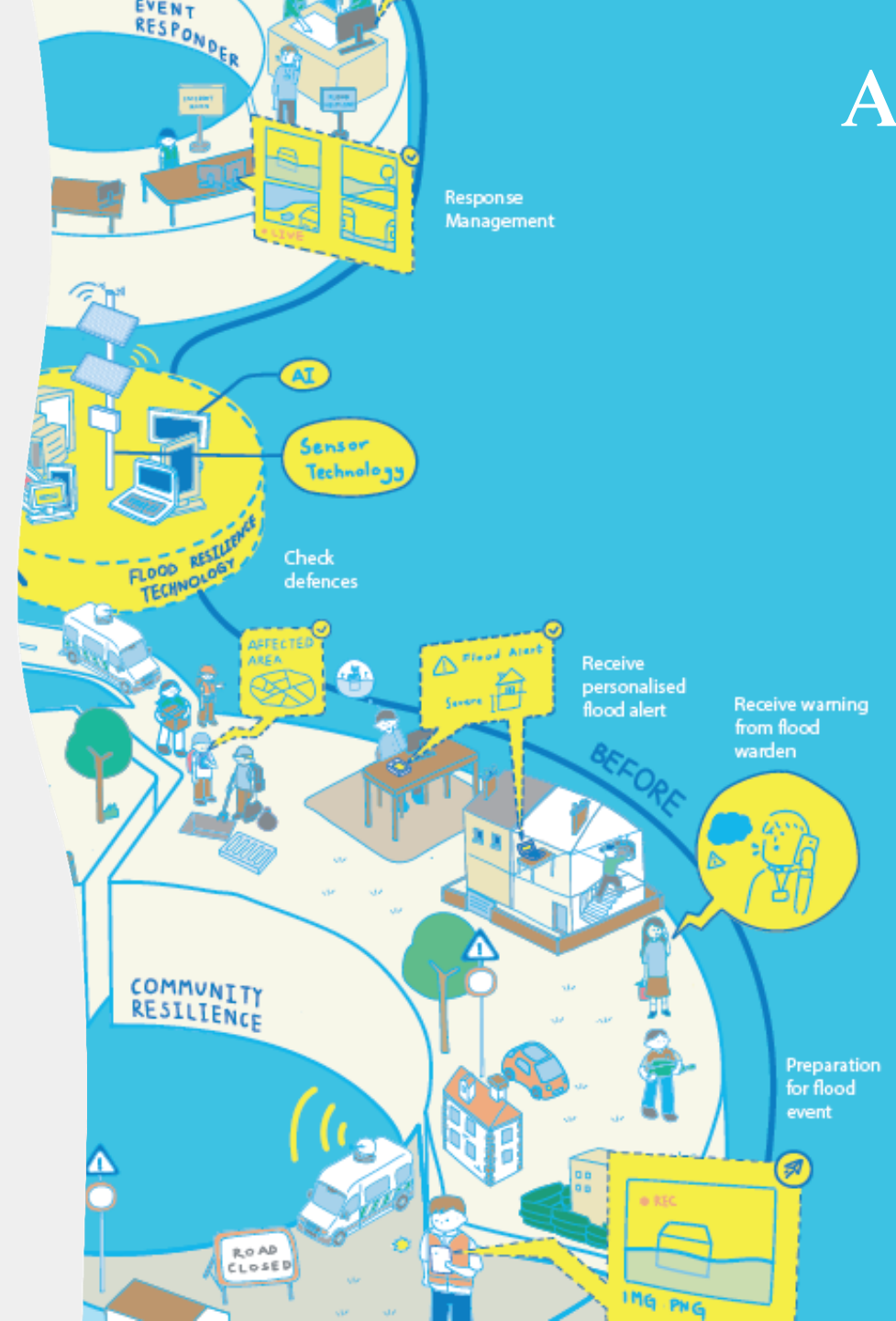
G-Cloud 15

Beta phase

G-Cloud 15
Service definition document

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

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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



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)

Beta phase

Beta phase (Aligned with the GDS Service Standard)

Introduction

In the beta phase, Arup works with clients to progress alpha prototypes and outcomes by rapidly designing and developing end-to-end minimum viable product (MVP) digital products and services to meet validated user needs through agile, user-centred methodologies.

Following private and public beta, we then iteratively continue to deliver features and functionality to meet further user needs, enabling users to meet their goals.



Features

Features

- Delivery through agile, user-centred methodologies including agile sprints, user stories, usability testing, Quality Assurance (QA) and User Acceptance Testing (UAT), and continuous integration and deployment
- Modern front-end and back-end development languages and frameworks
- Design of interfaces (using Arup's ARC Design System and GOV.UK Design System) informed by user research and accessibility best practices
- User-centred usability testing to gather and apply feedback, iterate and re-test
- Best accessibility practice including WCAG 2.2 AA-alignment and accessibility audits
- Reliable, resilient and scalable cloud-based AWS and Azure hosting and infrastructure
- Cyber Essentials Plus-certified best security processes and practices (including pen testing, and language and framework upgrades) and implementing continuous integration and continuous delivery (CI/CD) pipelines (unit, automated and end-to-end testing)

Features

Features

- Accessibility best practice
- Beta phase GDS service assessments
- Private beta to pilot digital products and services with closed groups and public beta to launch digital products and services
- Transitioning of digital products and services in-house to be iterated and maintained in the long term



Benefits

Benefits

- Aligned with the Government Digital Service (GDS) Service Standard, GOV.UK Technology Code of Practice and Scottish Digital Service Standard
- Proven digital delivery within built and natural environment sectors and subject matters, including cities, planning, architecture and construction, transport, water and resources, energy, climate, Geographic Information System (GIS) and others
- Delivery of scalable, secure beta digital products and services that meet user needs
- Provision of a multi-disciplinary delivery team including user researchers, service designers, UX/UI designers, content designers, front-end developers, back-end developers, business analysts, delivery managers, geospatial consultants, subject matter experts and more



Benefits

Benefits

- Upskilling of in-house teams in beta delivery, and agile and digital skills
- Ability to rapidly pivot to emerging change and re-prioritise through agile methodologies and delivery
- Modern, secure cloud-based solutions, hosting and infrastructure
- Regular usability testing with end users to gather feedback and iterate on the solution's design
- Technology agnostic, we choose the right tools for the job
- Measurement against Key Performance Indicators (KPIs) to identify service success



Greater London Authority

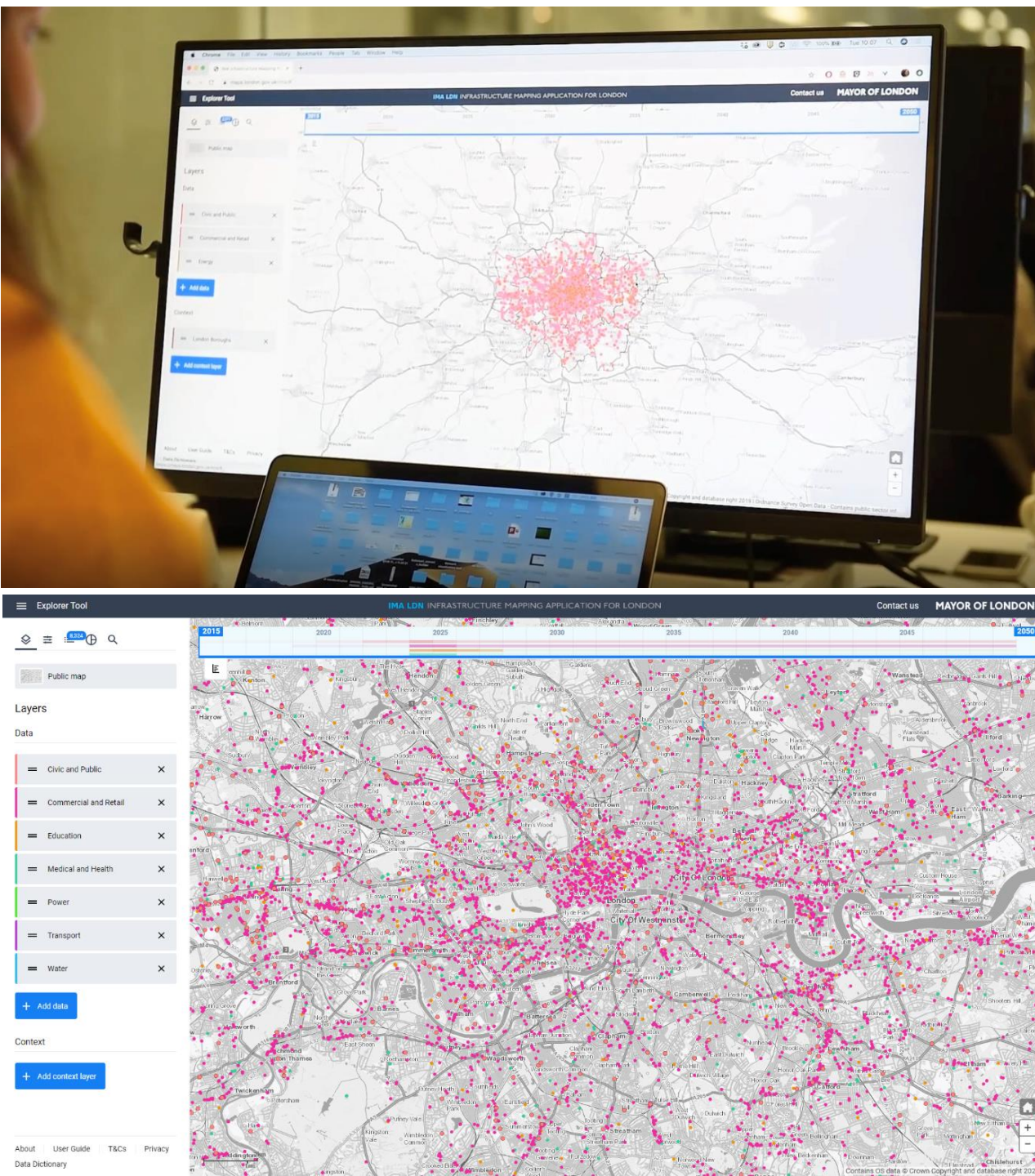
Coordinating infrastructure project delivery in London with the Infrastructure Mapping Application

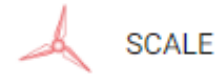
There are 35,000 infrastructure projects taking place in London in the next 25 years. These will be incredibly disruptive to the businesses and residents of London.

The Greater London Authority had a vision of a web-based application that could make the delivery of infrastructure in the capital more efficient and less disruptive by encouraging and enabling collaboration between service providers, developers and contractors.

Arup worked the GLA to transform the original version of the IMA by improving the integration of data from numerous sources, optimising and introducing new features. The IMA now displays information from thousands of infrastructure and development projects in a single place, giving users an easy-to-understand picture of future infrastructure projects and opportunities to collaborate across the capital, years in advance.

Beta phase





SCALE, COP27

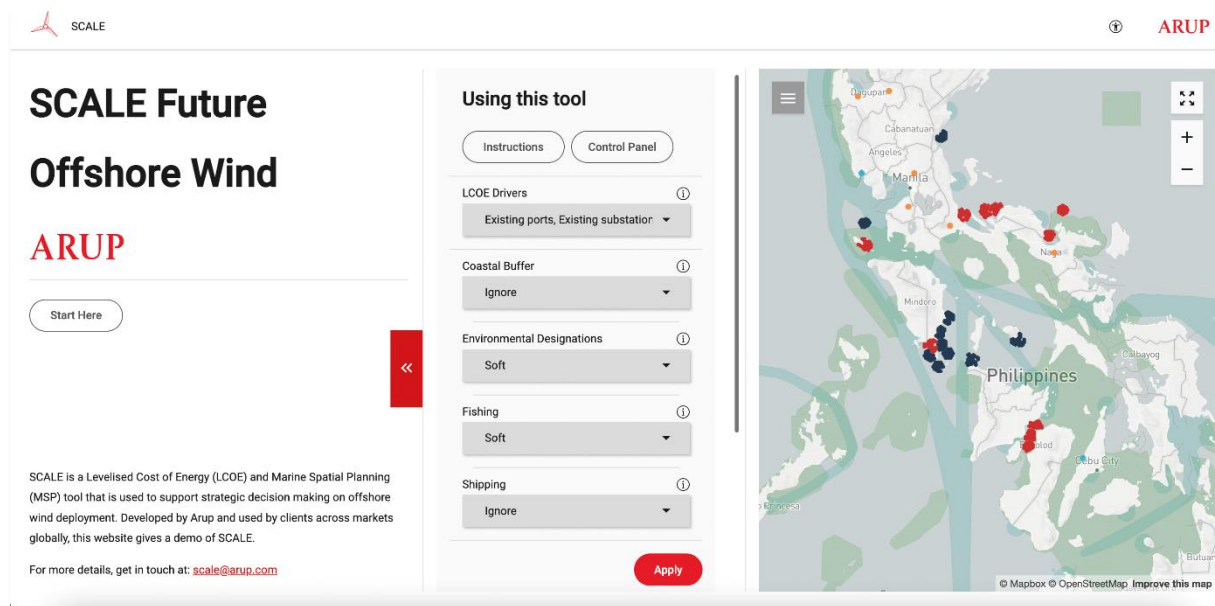
Supporting decision making for offshore wind development through a digital tool with SCALE

For offshore wind to play a pivotal role in reaching net zero, communities, offshore wind developers, environmental groups, marine spatial planners and policymakers must balance multiple factors that shape spatial planning and site selection.

SCALE is a Levelised Cost of Energy (LCOE) and Marine Spatial Planning (MSP) tool that is used to support strategic decision making on offshore wind deployment. DSP Software designed and developed a website that could be used for an interactive presentation at COP27, focused on exploring the offshore wind deployment potential around the Philippines.

Our approach resulted in an application that not only was suitable for presenting at a conference, but also guides users through what SCALE is, what its value is and how to explore the offshore wind options around the Philippines.

Beta phase



<https://scale.arup.com/>

ARUP

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