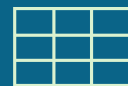
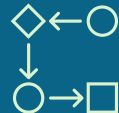
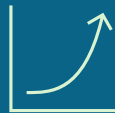


UK Geothermal Acceleration Toolkit

Practical and effective resources to accelerate geothermal deployment

Developed by Geothermal UK Working Groups



GeoUK

Summary

With a shared goal of accelerating UK geothermal, experts and stakeholders have joined to address challenges and map the way forward, convened by Geothermal UK. Five Working Groups are now half-way through an 18-month work programme and their deliverables are taking shape.

The Working Group deliverables will be launched in spring 2027 in the

UK Geothermal Acceleration Toolkit

- a set of essential resources to facilitate key geothermal decision-making.

This document outlines the Toolkit and its genesis. It is intended to inform and gather feedback from participants and stakeholders to maximise the impact of our work.

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UK Geothermal Acceleration Toolkit

4 Resource Packages for decision-makers to accelerate geothermal deployment: evidence, guidance and practical tools

GeoUK



UK Geothermal Opportunity Assessment

Establishing the evidence base for geothermal's role in the UK energy system

Assets:

- National Opportunity Assessment
- Deployment Scenarios
- Whole-System Integration Assessment
- Spatial Opportunity Atlas
- Strategic Evidence Summary



UK Geothermal Common Operating Framework

Creating a common language and standard framework for planning, assessing and developing geothermal projects

Assets:

- Standard Terminology and Definitions
- Project Lifecycle and Decision Gates
- Standards and Reference Framework
- Governance Framework
- Standard Templates and Reporting Formats
- Drilling Guidelines



UK Geothermal Data Hub

Providing the core data needed for planning, modelling and investment

Assets:

- National Data Catalogue
- Core Geothermal Dataset
- Spatial Data Library
- Data Standards and Metadata Specification
- Data Governance and Development Plan
- Supplier Directory



UK Geothermal Toolbox

Providing practical guidance and tools to support project development and delivery

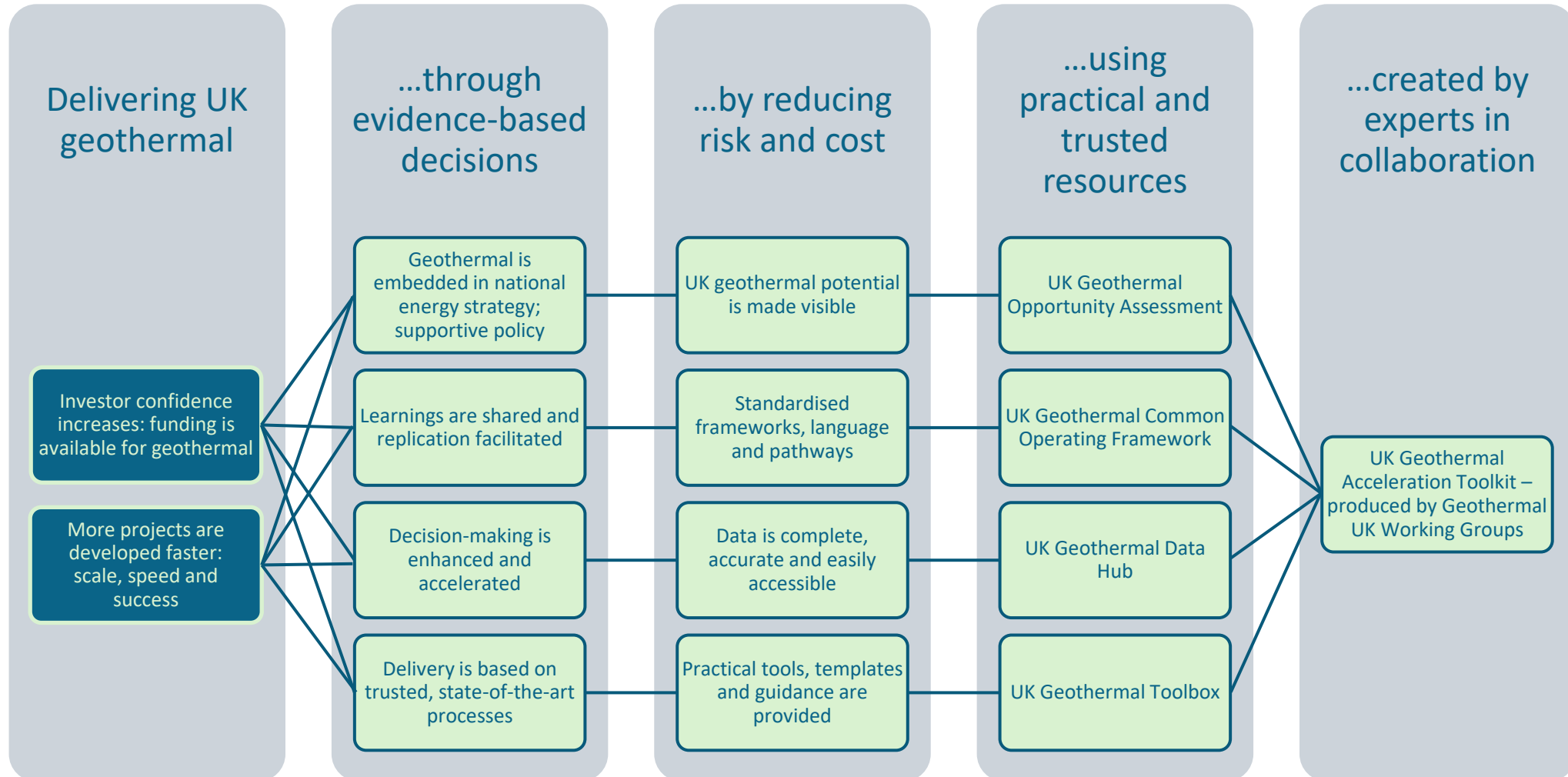
Assets:

- Project Delivery Guide
- Planning and Permitting Guide
- Permitting Checklists
- Investment and Commercial Guide
- Delivery Tools and Templates
- Case Study and Learning Library
- Comms and Messaging Toolkit

Theory of change

Why we created the UK Geothermal Acceleration Toolkit

GeoUK

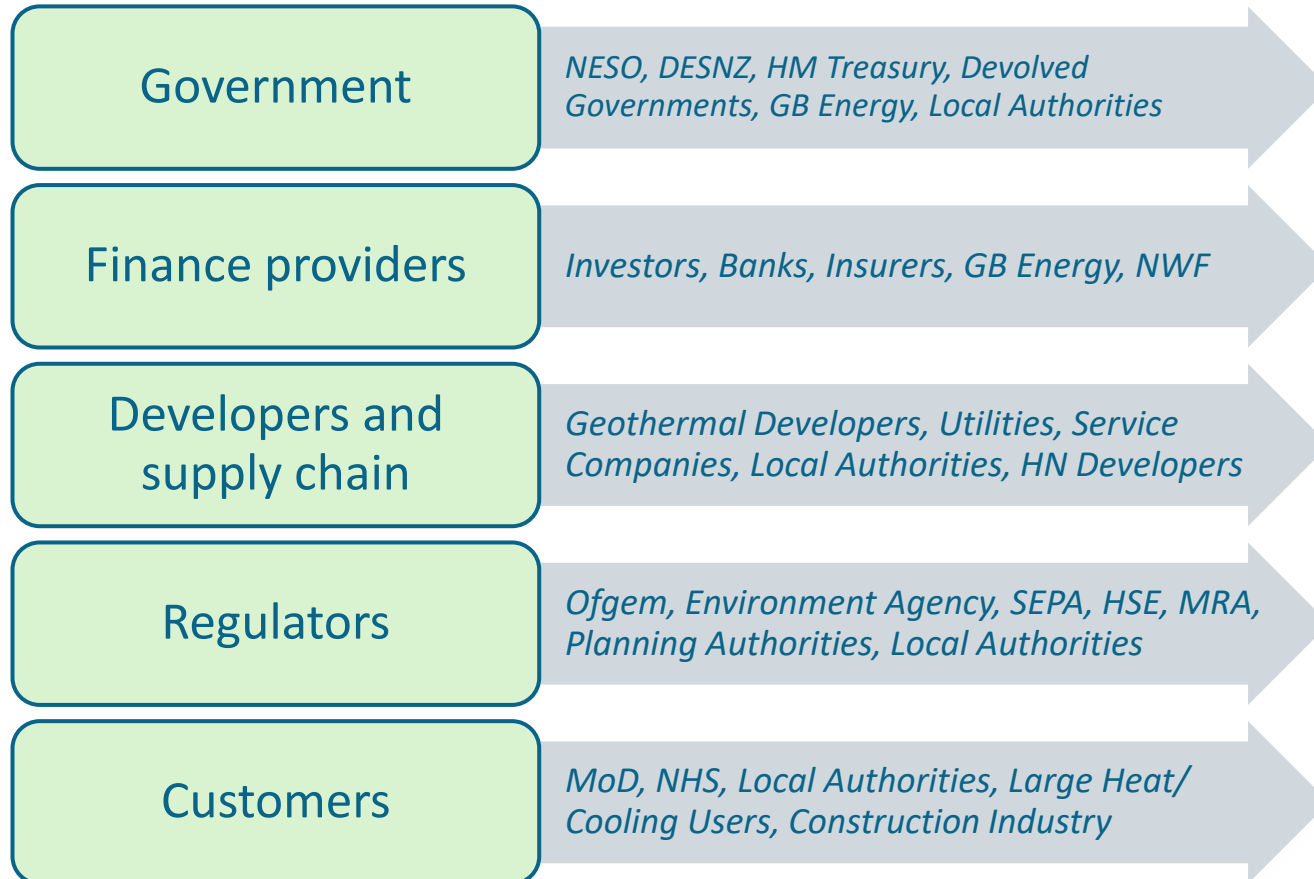


UK Geothermal Acceleration Toolkit users

Aim of the Toolkit: enable geothermal decision-making

GeoUK

Key stakeholders



Example use cases

What impact will geothermal have on the energy system?
Where can deployment be prioritised?
What policy interventions are needed?

What are the risks and how are they managed?
How are costs lowered and returns maximised?
What are the project phases and financing opportunities?

How do I deliver a project effectively?
Where do I find data and guidance?
How can I learn from successful projects?

How can deployment be enabled?
Where do I find the evidence base for regulation?

What is my geothermal opportunity?
What are the risks, costs and benefits?
How do I get started?

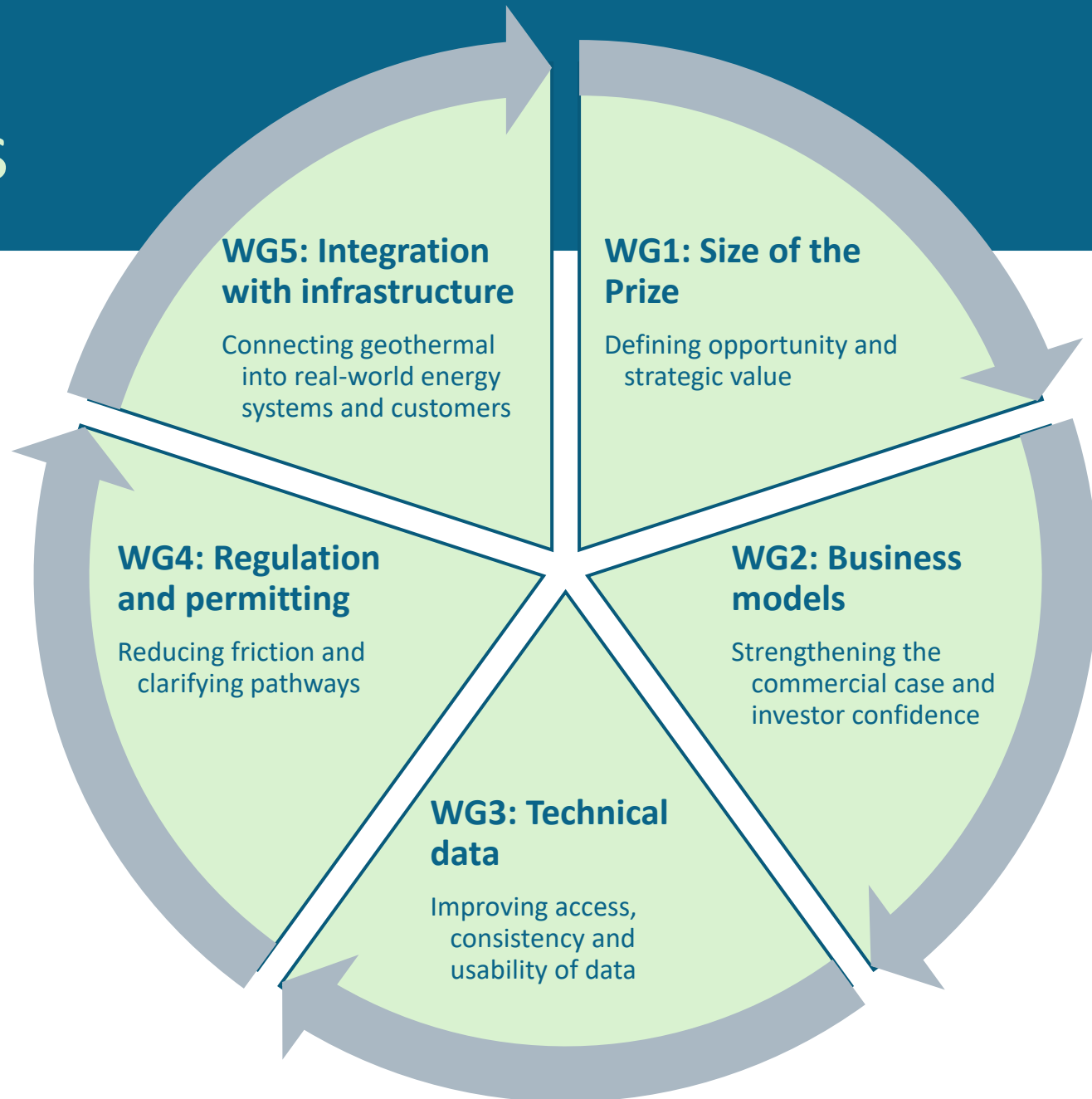
Geothermal UK Working Groups

GeoUK

5 Working Groups were established in 2025 to address topics that are key to accelerating geothermal in the UK – see graphic.

Operating principles

- Collaboration
- Transparency
- Evidence-based
- Impact-driven



Working Group members

Geothermal developers TownRock Causeway Cornish Lithium Ceraphi Eden Geothermal London Consortium Microthermal Energy Geothermal Wells	Government: national and devolved NESO DESNZ DoE in Northern Ireland Scottish Enterprise GO Science GBE NESTA NERC Salix	Regulators and Standards EA NSTA British Standards Institution HSE SEPA Mining Remediation Authority	Consultants AECOM Arup Jacobs GHD GLJ Ltd Hermetica Black GeothermEx	Aligned industry SSE Rendesco Vattenfall 1energy Blaqcat Kensa Naked Energy Triplepoint Vital Energi ETZ	Supply chain (snapshot) Baker Hughes Halliburton SLB Weatherford Iceland Drilling Marriott Drilling HP Wellscreen CAL Consulting Roemex WellSafe Solutions Stryde	Industry bodies The ADE OEUK CMGA REA Regen Project InnerSpace HPA UK IADC
Data providers British Geological Survey Energy Systems Catapult	Finance Amberside Chubb Marsh Alfa8	Customers NHS Scotland NHS England Ministry of Defence KBS Maritime	Local/ regional government Cornwall Council Durham City Council	Professional Services CMS Gowling WLG Rödl PwC	Tech experts Enovate AI Deep Green Ventures LookUp Geoscience	Universities Aberdeen Newcastle Leeds RGU Strathclyde Queens Belfast

New members continue to join bringing additional skills, experience and perspective



Working Group deliverables -> Resources

Mapping WG outputs to Resource Assets in the Toolkit

WG1: Size of the Prize

- Geothermal resource assessment > National Opportunity Assessment
- Regional opportunity assessments > Spatial Opportunity Atlas
- Deployment scenarios > Deployment Scenarios
- Economic impact assessment > National Opportunity Assessment
- Carbon reduction assessment > National Opportunity Assessment
- Energy security assessment > Strategic Evidence Summary
- Strategic assumptions > Standards & Reference Framework
- Opportunity prioritisation methodology > Spatial Opportunity Atlas
- International benchmarking > Case Study & Learning Library
- Strategic recommendations > Delivery Roadmap
- KPI calculation methodology

WG2: Business Model

- Project development pathway > Project Lifecycle/ Delivery Guide
- Commercial model typologies > Investment & Commercial Guide
- Investment framework > Investment & Commercial Guide
- Business case methodology > Reference Templates
- Business case template > Delivery Tools
- Risk allocation framework > Investment Guide
- Project stage outputs > Project Lifecycle
- Commercial assumptions > Deployment Scenarios
- Barrier assessment > Investment Guide
- Delivery checklists > Delivery Tools

WG3: Technical Data

- National geothermal dataset catalogue > National Data Catalogue
- Resource datasets > Core Geothermal Dataset
- Data gap assessment > National Data Catalogue
- Minimum dataset specification > Core Dataset / Standards
- Metadata standards > Data Standards
- Data quality framework > Data Standards
- Data governance model > Data Governance Plan
- Resource confidence framework > Standards & Reference Framework
- Technical performance assumptions > Standards & Reference Framework
- Standard terminology > Terminology & Definitions
- Reporting standards > Reference Templates

WG4: Regulation & Permitting

- Regulatory review > Planning & Permitting Guide
- Regulatory pathway > Planning Guide / Project Lifecycle
- Planning process guidance > Planning & Permitting Guide
- Regulatory decision gates > Project Lifecycle
- Roles and responsibilities > Governance Framework
- Stakeholder governance > Governance Framework
- Policy recommendations > Delivery Roadmap
- Environmental compliance guidance > Planning & Permitting Guide
- Regulatory checklists > Delivery Tools
- Regulatory case studies > Case Study Library

WG5: Integration into Infrastructure

- HN integration guidance > Whole-System Assessment/ Delivery Guide
- Electricity system integration > Whole-System Assessment
- Industrial heat integration > Whole-System Assessment
- Thermal storage integration > Whole-System Assessment
- Infra opportunity mapping > Spatial Opportunity Atlas/ Data Library
- Heat demand mapping > Spatial Opportunity Atlas
- Infrastructure datasets > Spatial Data Library
- Spatial planning methodology > Standards & Reference Framework
- Infrastructure assessment template > Delivery Tools
- Infrastructure case studies > Case Study Library

Toolkit Resources



UK Geothermal Opportunity Assessment



UK Geothermal Common Operating Framework



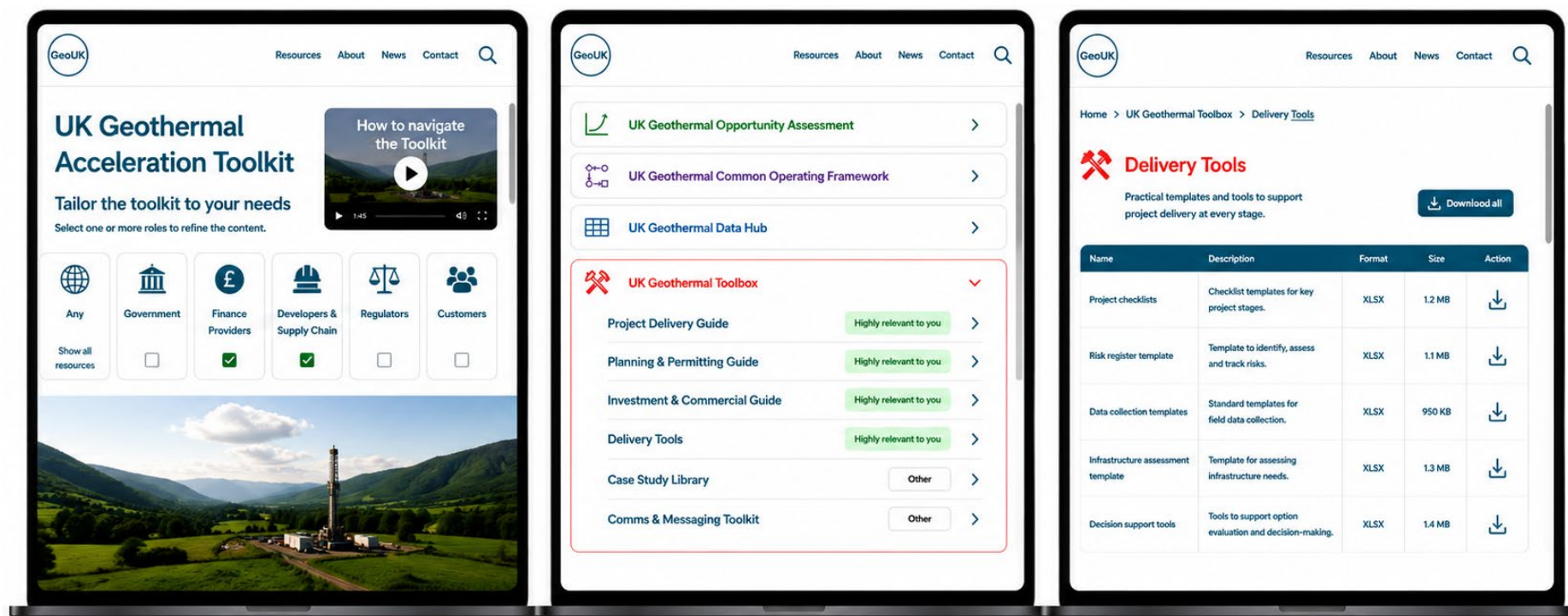
UK Geothermal Data Hub



UK Geothermal Toolbox

User Journey visualisation

Navigating the Resources in practice (simulation)



1. Customise

Filter the Toolbox contents based on your sphere of interest / information requirement

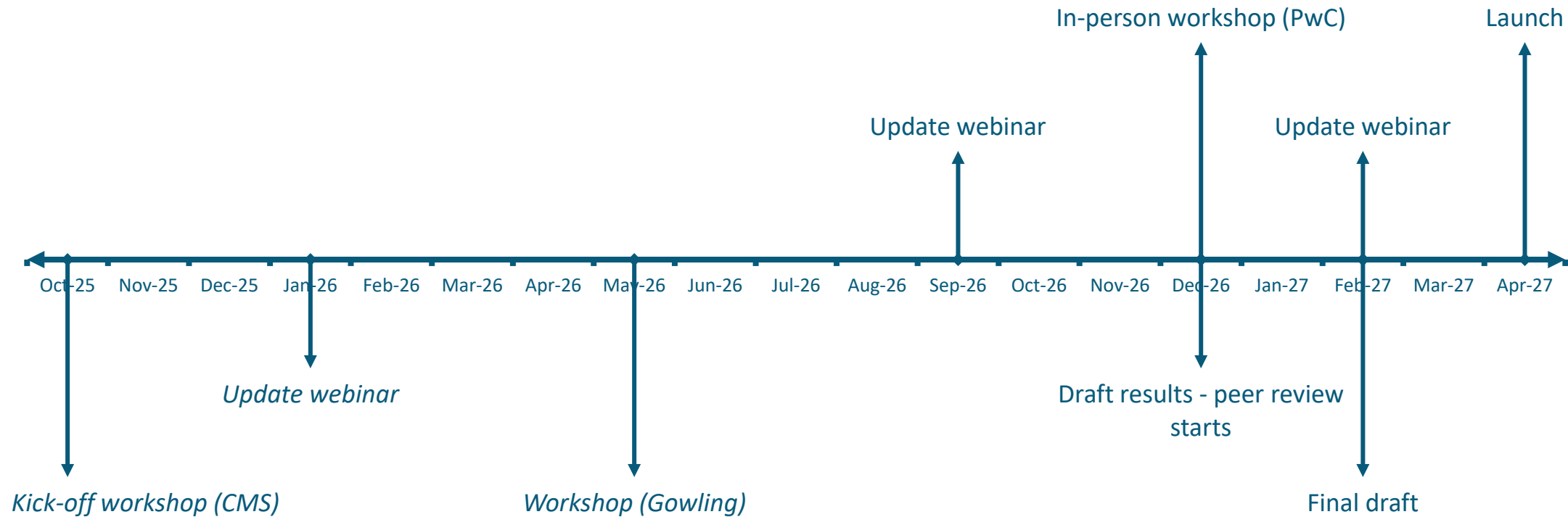
2. Explore

The most relevant assets are highlighted, depending on your selection

3. Use

Download the content to support decision-making

We are over half-way to launching the UK Geothermal Acceleration Toolkit



Complemented by ongoing profile-raising and advocacy activities

Next steps

We welcome your ongoing contributions to and input on the
UK Geothermal Acceleration Toolkit
to ensure that we achieve our goal of accelerating UK geothermal as
effectively as possible.

Contact us with feedback, comments and questions
info@geothermaluk.org