# Policy Modelling

Through our Policy Modelling service, we will help you evaluate and select the best policy options, forecast and optimise impact and communicate the evidence for your decision.

# Service Definition

Our Policy Modelling service assesses the impact of policy options, providing unique integrated analysis of economic and public opinion response. We use our proven systems approach to help you understand, explore, design and test policy options. Working collaboratively with you, we develop cloud-based visualisations of the evidence to inform decisions.

# Service Features

- Scenario planning, scenario modelling and uncertainty modelling
- Policy simulations, scenario visualisations and visualising complex information
- Business case options analysis for better evidence-based decisions
- Geographic information systems, visualisations and dashboards
- Policy optimisation
- Agent based modelling of population outcomes in different scenarios
- Cost modelling
- Policy benefits modelling
- Economic analysis
- Workforce and population modelling and visualisation

# Service Benefits

- Understanding how to navigate complex, new or uncertain decisions
- Exploring the best approaches for different future scenarios
- Understanding the optimised timing for policy interventions
- Designing changes to policy
- Managing transformation and change effectively
- Calculating the expected costs and benefits for policy options
- Communicating complex decisions to a variety of stakeholders
- Providing the robust evidence basis for policy
- Visualising change and transformation activities
- Visualising distributional outcomes across the country and optimising outcomes

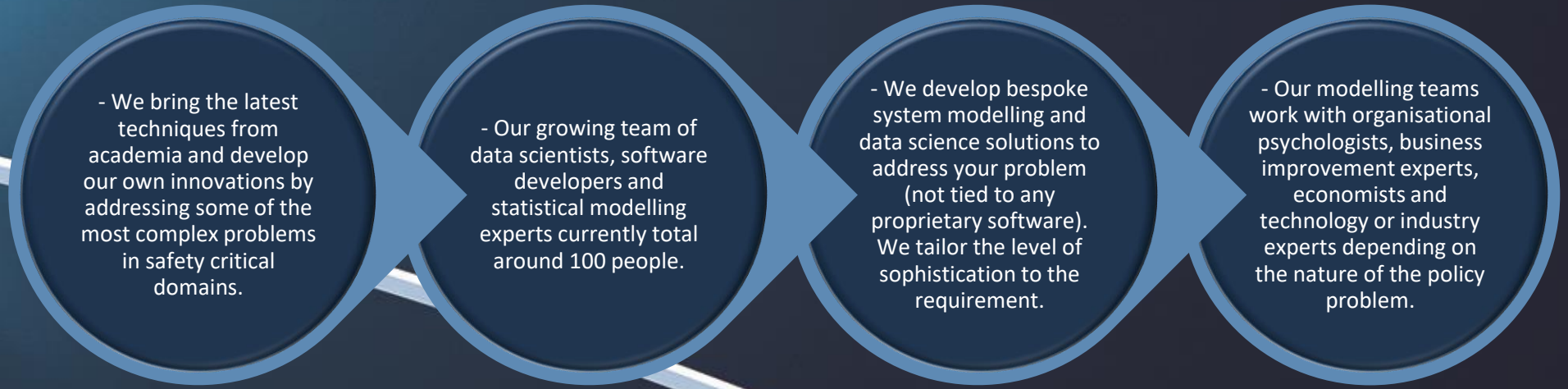
# Detailed Service Definition

Making good policy decisions is particularly challenging due to the combination of financial, political and technical complexity of the problems facing society. Advances in open data, computing power and modelling techniques present the opportunity for making better, faster more robust policy decisions to improve the prospects of citizens at lower cost. The Frazer-Nash policy modelling service delivers an understanding of the best options to navigate complex topics and the evidence to back up the decisions.

# Detailed Service Definition

We are highly adept at a full range of modelling and decision support techniques such as Artificial Intelligence systems, probabilistic forecasting models, agent based models, discrete event simulations, system dynamics, geographic information systems, automation, machine learning and uncertainty analysis.

Our National Data Platform allows us to quickly analyse national data sources, model likely outcomes across each region of the country and visualise the story behind policy interventions for stakeholders.



# Detailed Service Definition

Our systems thinking approach to modelling is designed to create clarity in complex environments. Typically, our teams will work with your organisation to:

1. Understand the context and the problem elements

Documenting these ensures that all of the key components and influencing factors are captured, agreed upon and considered.

2. Understand the relationships and the whole system

A key part of systems theory is to understand how parts of the system are related. These relationships affect the dynamics of the system and can be used to predict what will happen next if a change is made

3. Explore, optimise and integrate

Developing models of the system (either static architectures or dynamic simulations) allows for exploratory analysis and optimisation, before implementing in the real world

4. Test and validate

Make sure that the chosen approach delivers the intended benefits and adapt in future if needed.

The models we create can be used to understand and explore policy options to determine the best approach across a range of future scenarios. We use Monte Carlo or Bayesian statistical approaches to explore uncertainty in the future. You get bespoke interactive visualisations to improve engagement and communication of the modelling results. Your model can be hosted in the cloud to provide access to whoever you need, wherever they are. Our teams can support authoring and communicating strategy documents, business cases and policy, using the models to inform and evidence the approach.

# Why Frazer-Nash Consultancy?

We are an independent consultancy offering a broad range of cloud consultancy services. We have been at the leading edge of digital engineering and software development for over 35 years. We are 'solution agnostic' and provide truly independent advice. We are not tied to any hardware or software products; we design cloud-based solutions which are built on knowledge acquired from a broad range of applications developed across multiple platforms. We utilise this knowledge to add value to our clients through the technological advantages offered by cloud integration.

# Our Commitment to Quality

From every aspect of engagement and communication we are committed to providing services and deliverables of the highest quality, to ensure we continually meet and exceed the expectations of our customers. Our processes include suitable controls to ensure progress is closely monitored and decisions are appropriately scrutinised.

In addition to a project manager, every project has a dedicated project supervisor (who impartially monitors and approves monthly progress reports) and dedicated project auditor (who ensures quality is followed). At a deliverable level, all customer outputs are verified for technical accuracy, and approved as appropriate for their purpose by two independent reviewers. Our Quality Management Systems is certified to ISO 9001 and the TickITplus scheme (for software development).

# Our Security

Our processes and certification are fit to handle sensitive and classified information up to Top Secret. The majority of our staff are security cleared to at least SC and over 200 of our staff hold DV clearance. We are also experienced in handling highly sensitive commercial information, with the ability to separate teams as necessary for security and conflict of interest requirements. Our IT systems are certified to ISO 27001 and Cyber Essentials Plus.

# Our Approach to Subcontracting

Our large base of full-time staff can be supplemented where required through partner companies and trusted associates providing us with flexibility and scale whilst retaining control. We are adept at quickly subcontracting a range of organisations when needed, from sole traders to large multinational companies, through the lifecycle of a project. Our processes focus on identifying, assessing and contracting an appropriate supplier; defining a scope of supply; flowing down terms and conditions where appropriate, and managing risk to ensure the purchase is delivered on-time, within budget and to the required quality. This includes undertaking a due-diligence process to commercially and technically 'approve' the suppliers we work with.

# Resourcing

We employ over 1200 technical staff across all grades, from Follow to Set Strategy, with a vast range of specialities, backgrounds and experiences. To enable agile and flexible resourcing, we are grouped into a range of technical delivery areas (e.g. Information Systems, Cyber, Modelling, Software etc.), which can be applied to a range of sectors (e.g. Central and Local Government, Police, Health, Energy). This resource focus combines with our strong portfolio, programme and project management to allow us to monitor demand on a dynamic basis and respond to the changing demands of the project through its lifecycle.

Our staff work across a range of industry sectors allowing us to 'cross-pollinate' ideas and techniques between different domains. We build teams, led by a single responsible project manager, that are tailored to the specific challenge. We are fortunate to have a diverse range of capabilities within the same company, including information security, and human factors specialists. This allows us to efficiently and promptly deliver multi-disciplinary projects that meet your specific requirement.

# Our Commercial Approach

Our commercial approach is flexible to provide best service and value to our clients.

We will discuss with you the specifics of the support and services you require and build an appropriate commercial model to deliver this scope. This could be a defined scope fixed priced service, or provision of time and materials agreed day rates suitable for a developing scope.

Where you have service requirements for an extended period, and where we have control of the resource flexibility, we are also able to offer an agreed single blended day rate for support at a range of grades.

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A KBR COMPANY

# Next Steps

To discuss your requirements in more detail or place an order for services please contact us at **ccs@fnc.co.uk**