

Cogitare

The bigger picture the better way

Who we are

Cogitare is a young and dynamic niche consultancy that specialises in systems optimisation and asset management. We have a core team of experienced consultants and associates who work in partnership with clients to provide intelligent solutions that save money, spare the environment and add value.

We believe in what we do and that it makes a difference:
Cogitare's Systems Optimisation Process helped London Underground reduce whole-life system costs by almost £0.5 billion and saved 5 billion kW hours of energy.

What we offer

Cogitare has developed a unique product called the Systems Optimisation Process (SOP), which uses performance, cost and risk modelling to determine the most profitable investment decision. It is applicable wherever there are important dependencies and can also be used to value-manage the supply chain.

Using all or composite parts of the process, we work with clients to ensure a common understanding of the issues and risks involved. Once this consensus is established we are then able to identify the most efficient, affordable solution from a range of scenarios.

Our approach

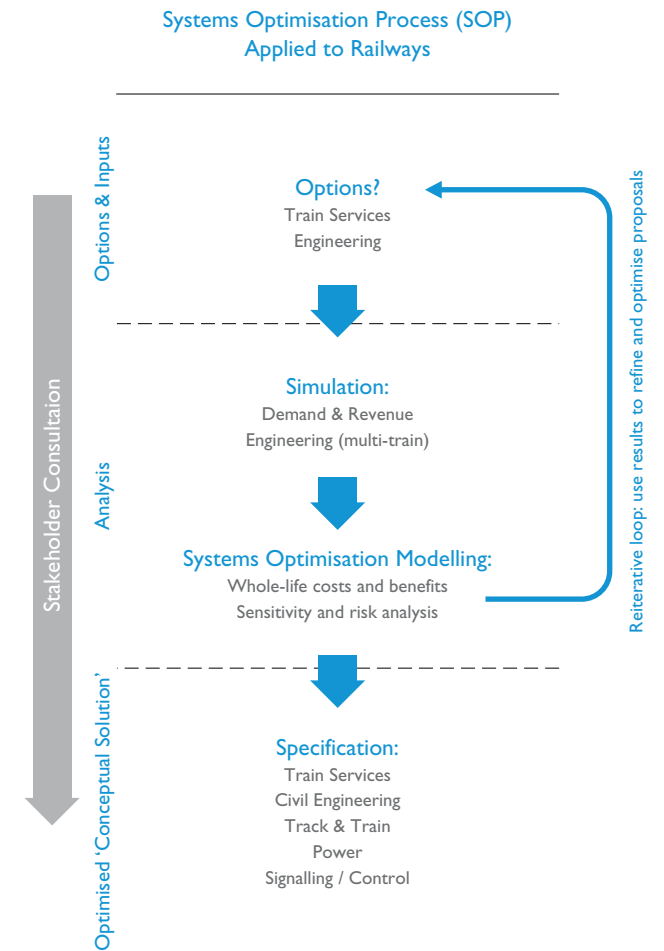
At Cogitare we marry systems engineering and economics to advise both public and private sector clients on how to cut costs, reduce energy consumption and enhance performance and revenues.

We use a complete system approach, which means looking at the bigger picture and working out what will benefit the system as a whole. Our Systems Optimisation Process links cost, performance and revenue modelling to enable a financial evaluation of the entire system. The evaluation can be at any level of complexity depending on the data, simulators and modelling tools available. Without this 'whole system' understanding it is not possible to identify the most profitable solution.

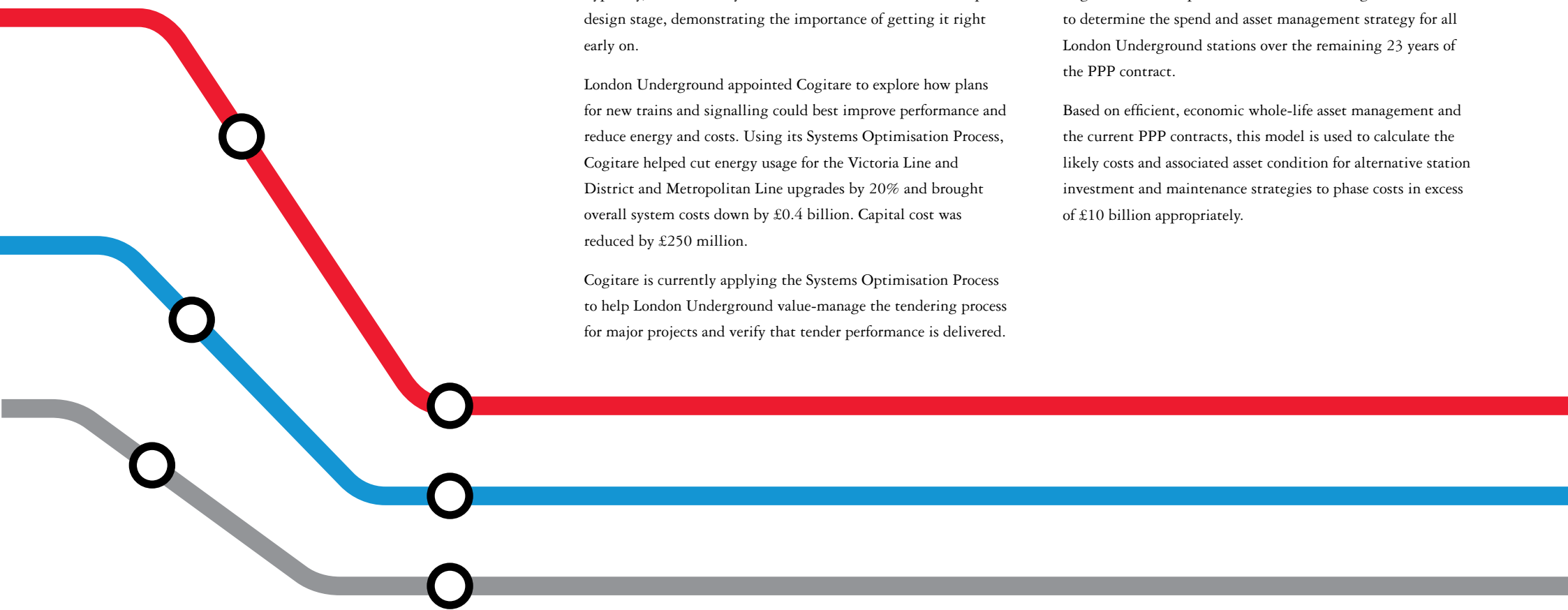
Cogitare uses the Systems Optimisation Process and its range of bespoke modelling tools to help clients:

- 🔗 Identify alternative investment options through stakeholder consultation.
- 🔗 Evaluate the data models, simulators and tools available and understand how they are used and how they need to be used to assess the system as a whole.
- 🔗 Fill knowledge gaps using our own bespoke models, existing specialist software, simulators and by developing models and IT data solutions.
- 🔗 Validate assumptions and agree implementation with stakeholders.
- 🔗 Identify the best investment option by automated analysis of hundreds of possible investment scenarios.
- 🔗 Provide the means to improve contractor and staff incentivisation through performance-based contracts, knowledge transfer, training, targets and monitoring.

Cogitare focuses on different outcomes for different clients: *when we work with government and public sector organisations we concentrate on adding value through societal benefits. When we work with private sector firms, Cogitare aims to maximise long-term client profits. Whoever we work for, providing thought through, optimised, cost-efficient solutions is our priority.*



- Whole-life costs down by £0.4 billion
- Capital cost reduced by £250 million
- Energy usage cut by 20%



Some of our client success stories



Systems Optimisation

Typically, 80% of life-cycle costs are determined at the concept design stage, demonstrating the importance of getting it right early on.

London Underground appointed Cogitare to explore how plans for new trains and signalling could best improve performance and reduce energy and costs. Using its Systems Optimisation Process, Cogitare helped cut energy usage for the Victoria Line and District and Metropolitan Line upgrades by 20% and brought overall system costs down by £0.4 billion. Capital cost was reduced by £250 million.

Cogitare is currently applying the Systems Optimisation Process to help London Underground value-manage the tendering process for major projects and verify that tender performance is delivered.

Asset Management

Cogitare has developed a Cost and Asset Management model to determine the spend and asset management strategy for all London Underground stations over the remaining 23 years of the PPP contract.

Based on efficient, economic whole-life asset management and the current PPP contracts, this model is used to calculate the likely costs and associated asset condition for alternative station investment and maintenance strategies to phase costs in excess of £10 billion appropriately.



Contract performance optimisation



Cogitare's work with Tube Lines raised performance bonuses by £6 million per year and simultaneously boosted passenger experience, with overall benefits of more than £20 million a year.

To achieve this, Cogitare developed reliability, performance and risk-modelling tools to fill knowledge gaps and identify optimised solutions. We also negotiated stakeholder buy-in, obtained funding and approvals, then project managed implementation. This resulted in significant improvements to operating speeds, station stop times and the number of trains available for service.

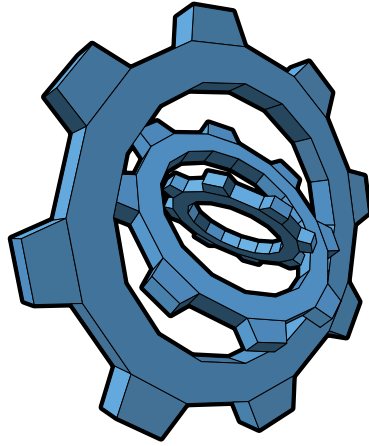
Partnership working and contract mediation



Public-Private sector partnerships often require organisations with very different cultures to work together. Cogitare specialises in fostering partnership working early on in projects to avoid future disputes. We run partnership working workshops, joint technical working groups and also analyse the impact of decisions and options for the different stakeholders to facilitate mutual understanding and agreement.



Based on our solid reputation in public transport infrastructure and change management consultancy, Sytral / Egis Rail in France appointed Cogitare to help the public sector (Sytral) and the private sector (Egis Rail) to work in partnership to develop and build the Metro extension to Oullins, a suburb of Lyon. In this instance, contract mediation and partnership working strategies have helped clients save vital energy and resources so often lost in unnecessary conflict.



Cogitare

What Cogitare could do for you

We can help clients solve a wide range of problems by applying all or part of our Systems Optimisation Process.

What we offer is relevant to many industries – from transport networks to health and utilities services, facilities management and building design. Our consultants can work with clients on:

- ⚙️ Designing new infrastructure, major upgrades and extensions.
- ⚙️ Value-management of the supply chain - development of tenders, tender evaluation, validation of performance delivered, development of performance-based contracts.
- ⚙️ Managing existing assets - finding the most efficient combination of maintenance, refurbishment and replacement.
- ⚙️ Optimising business processes and government services.
- ⚙️ Design and implementation of Decision-Making Tools including Models and IT data solutions.
- ⚙️ Facilitating public-private partnerships.
- ⚙️ Devising and implementing incentive structures.
- ⚙️ Risk assessment and cost-benefit analysis.
- ⚙️ Change management, partnership working and conflict resolution.

Are you keen to improve efficiency and justify change? Find out more about what we do:

Telephone: +44 (0)20 7183 2521 Email: info@cogitare.biz Web: www.cogitare.biz