

## About Cōnsilium Aquīs Sulis

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**Cōnsilium Aquīs Sulis** provides independent expertise in the fields of railway engineering, safety risk management, compliance, technical innovation, strategy, benchmarking and feasibility assessment.

The company was founded by Dominic Taylor, a professional engineer and manager with over twenty years' railway experience working with diverse operators and suppliers in the UK, Australia, France, Germany, Italy, Portugal and Spain.

Operating out of the city of Bath in South West England, Cōnsilium Aquīs Sulis is available to serve clients worldwide.

## Why Cōnsilium Aquīs Sulis?

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### Independence

As an owner-run company with no external shareholders, debt or state subsidy, Cōnsilium Aquīs Sulis offers truly independent and impartial advice free from political agenda.

### Versatility

Cōnsilium Aquīs Sulis offers technical expertise combined with commercial acumen and awareness of the cultural contexts that engineering solutions must adapt to in order to succeed.

### Looking to the future, learning from the past and living in the present

New technologies have much to offer, but success depends on integration with legacy infrastructure and processes using the capabilities and resources available. Cōnsilium Aquīs Sulis brings a balanced approach to technical change, evaluating new and old solutions to specific needs in terms of the benefits they offer, their cost, deployment timescales and risk.

## Find out more

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### Free, on-line training videos

Cōnsilium Aquīs Sulis offers free, on-line training videos to showcase our expertise. Video courses covering railway signalling, train automatic and protection, ETCS and the introduction of new technologies can be found on our website ([consiliaquissulis.com/training](http://consiliaquissulis.com/training)) and YouTube channel ([www.youtube.com/@ConsiliumAquisSulis-English](https://www.youtube.com/@ConsiliumAquisSulis-English)).

**Website:** [consiliaquissulis.com](http://consiliaquissulis.com)

**Contact:** [info@consiliaquissulis.com](mailto:info@consiliaquissulis.com)

# Services

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## Subject matter expertise

As well as general guidance on a broad range of railway engineering disciplines, operations and maintenance, Cōnsilium Aquīs Sulis provides subject matter expertise in European Train Control System (ETCS), Automatic Train Operation (ATO), Automatic Train Protection (ATP), railway Traffic Management systems and colour-light signalling.

## Assistance with introduction of new technologies

Cōnsilium Aquīs Sulis staff have experience introducing new technologies into the railway industry, including video surveying, ETCS, mainline ATO, railway traffic management and formal verification of signalling interlockings. Cōnsilium Aquīs Sulis is available to help bring other technologies to railways and other industries.

## Technical strategy

Run by a fully-qualified engineer who has held senior technical posts in a large railway infrastructure manager, a major technology supplier and a multi-national transport consultancy, Cōnsilium Aquīs Sulis brings a depth and breadth of experience to advice on technical strategy in the transport sector.

## Feasibility assessments

Combining technical qualifications with business education and practical experience leading feasibility studies for diverse railway industry clients, Cōnsilium Aquīs Sulis offers holistic evaluation of new technology introduction in terms of its engineering, operational, organisational, economic and financial implications.

## Industry research and benchmarking

Cōnsilium Aquīs Sulis brings extensive international exposure gained through projects in the UK, Australia and Portugal, working with British, French, German, Italian and Spanish suppliers. Drawing on this exposure, business qualifications and experience delivering industry research and international benchmarking for other clients, we can help you learn from the experiences of other transport operators worldwide.

## Requirements capture, verification and validation

Alongside specialist knowledge in international and UK railway standards, Cōnsilium Aquīs Sulis offers expertise in textual requirements management and traceability, Model-Based Systems Engineering (MBSE) and formal verification.

## Engineering safety management

Cōnsilium Aquīs Sulis is available to develop system definitions, lead hazard identification workshops, conduct safety risk assessments, identify mitigation measures and risk acceptance principles in accordance with the European Common Safety Method for Risk Assessment (CSM RA) and similar methodologies in railways and other safety critical industries.