



Frazer-Nash Consultancy Company Overview

Dr Philip Rogers
Nuclear New Build and Fusion Business Manager
Tel: +44 (0)1283 517789
Email: p.rogers@fnc.co.uk

SYSTEMS AND ENGINEERING TECHNOLOGY

Frazer-Nash Company Overview

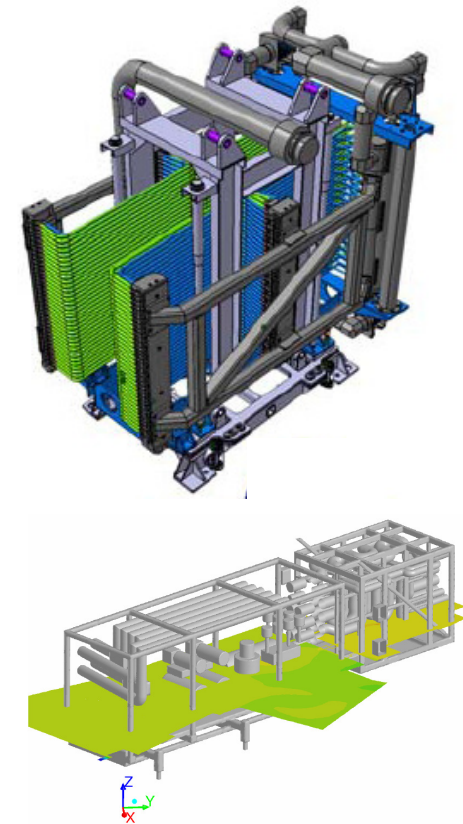


- ▶ Frazer-Nash is an **engineering consultancy** organisation providing **professional engineering services** to major manufacturing and utility companies.
- ▶ We support our clients in the areas of:
 - ▶ Systems engineering,
 - ▶ Engineering design
 - ▶ Engineering analysis;
- ▶ We employ **450 professional** staff in 7 UK offices.
- ▶ We are accredited to ISO9001:2008 and ISO14001:2004
- ▶ Turnover £38m in 2010-11.
- ▶ Our expertise is within a range of industry sectors:
 - ▶ **Power** (Nuclear, Conventional, Fusion, Renewables)
 - ▶ **Defence** (Air, Land, Sea)
 - ▶ **Industry** (Process industry, Transport, Oil and Gas)
 - ▶ **Aerospace** (Flight systems, Gas turbine)



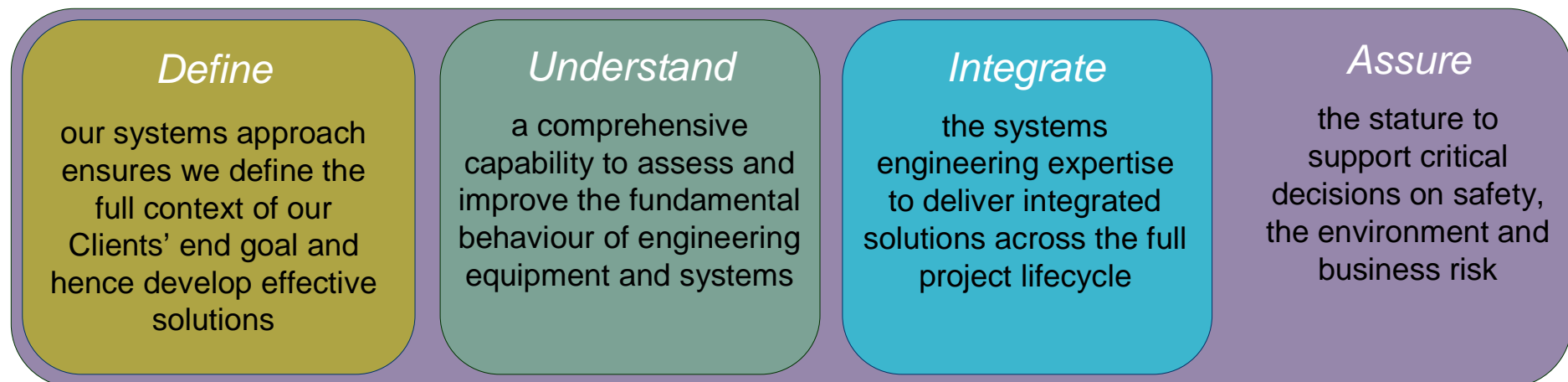
Fusion and relevant experience

- ▶ Design and Analysis of the Neutral Beam Injector component support structures.
 - ▶ CATIA v5, Ansys Workbench, ASME, RCC-M
- ▶ ITER Tritium Handbook: App B4 – Structural and Seismic Assessment
 - ▶ Lays out the system requirements to meet French standards and regulations
- ▶ Test Blanket Module Heat Management assessment
 - ▶ Complex Computational Fluid Dynamics
- ▶ Explosive risk assessment of ITER Buildings
 - ▶ Safety assessment and ATEX zoning of areas for explosive risk
- ▶ Vast experience of mechanical and electrical engineering, licensing and safety of fission reactors
 - ▶ High temperature, harsh environments



Our offering to and interest in FIIF

- ▶ With existing capability, we are well equipped to support the commercialisation of fusion power:
 - ▶ We take a systems engineering view of our clients projects.
 - ▶ We provide services based on best practice from power generation and nuclear.
 - ▶ We bring an understanding of international standards and regulatory expectations for nuclear and conventional plant.
- ▶ We would seek:
 - ▶ Collaboration between industry and research to provide a broad offering.
 - ▶ Development and training opportunities for our staff under a recognised fusion training programme.



End



► Questions?