

# Spectrum Reform

**T**he Spectrum landscape is changing. Both public and private users have huge and growing demands for access to this finite and valuable resource. This is due to the exponential increase in consumer use of smartphones and tablet devices, resulting in a massive increase in demand for mobile data. Pressure has never been greater on the public sector to reform the way it manages and uses the Spectrum.

## THE CHALLENGE

The Defence sector is particularly dependent on spectrum; without it users cannot communicate securely in the Battlespace, far less achieve the vision of Network Enabled Capability (NEC). The UK Ministry of Defence (MOD) is reforming the way it uses and manages its spectrum in response to an independent audit of UK spectrum holdings by Professor Cave and targets from UK Government to release spectrum to the market. The challenge for the MOD is to be more efficient, whilst ensuring it gets value for money.

## OUR APPROACH

We are a key supplier to the Defence Spectrum Reform Programme that is revolutionising the way in which public sector departments manage their spectrum holdings. Not only is MOD driving business change to increase the effectiveness and efficiency of its own spectrum use but it is also paving the way for other departments to manage their release of spectrum. Our approach encompasses all aspects of spectrum reform, from investigating new technologies and ways of working, to supporting policy decisions, to providing tools and processes to help implement the results.

## WHY CGI?

CGI have been supporting the UK MOD for over ten years. We have developed an excellent, trusted relationship based on a proven delivery track record. Lessons learnt and experience from working with the MOD can be used to support other departments or organisations in reforming their use of Spectrum.

To help deliver spectrum reform the UK MOD chose the CGI consortium (which includes a number of small-to-medium enterprises providing specialist skills) through open competition. Through our involvement in a broad range of MOD initiatives, we offer innovative solutions, backed up with assured delivery, to meet the challenges of the spectrum environment. We provide an in-depth understanding of the end-user environment, covering all aspects through the programme lifecycle and across all the Defence Lines of Development.



## KEY BENEFITS

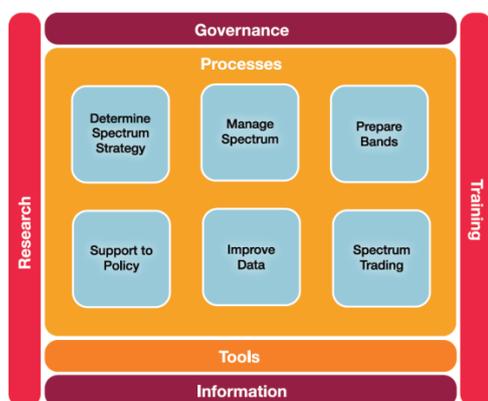
- Make the most of the precious spectrum resource
- Understand national, international and coalition contexts
- Support informed decision making with innovative information systems
- Access emerging technology from both the public and private sector
- Deliver Information Enabled Capability, ensuring access to spectrum is maintained

*“The CGI team go ‘the extra mile’ to make sure they deliver high quality outputs and add value. They understand our business and continually engage with our stakeholders to ensure a common understanding and drive continuous improvement. They have never failed to deliver or say they could deliver when they couldn’t. They are easy to deal with commercially and are very open with us. The level of effort, flexibility and commitment demonstrated by the team is very impressive.”*

UK Ministry of Defence

## OUR CAPABILITY

We have developed a spectrum operating framework that builds upon our extensive heritage in working with the UK MOD. This allows us to provide clients an end-to-end spectrum service to help them deliver effective and efficient spectrum management.



**Governance:** This ensures that the outputs from each process are combined appropriately to provide the required service. All our activities are managed with the customer in a joint governance regime. This ensures that the complex interdependencies are carefully managed and the outputs are delivered to sufficient quality and in a timely manner.

**Processes:** We have developed and integrated a number processes to support the six core functions (Determine Spectrum Strategy, Manage Spectrum, Prepare Bands, Support to Policy, Improve Data and Spectrum Trading). We maintain the skills required to implement each of these. The processes are responsive and adaptable to changes in market conditions and our customers' requirements.

**Information:** Access to the right information is fundamental to the success of Spectrum Management and Reform. Being able to make accurate and informed decisions on trusted information is key. CGI have been continually working with our stakeholders to improve the accuracy, detail and quality of this information, supported by innovative visualization and exploitation tools.

**Tools:** We have wide range of spectrum tools and components required to support Spectrum Reform. These include a new Secure Spectrum Portal, containing a Spectrum Database, and Analysis and Engineering tools, which are now used day-to-day to manage the current spectrum holdings.

**Research:** We are involved in a range of spectrum related research to help achieve spectrum dominance, e.g. the implications of dynamic spectrum management. This research is vital to helping the MOD maintain Defence capability by reducing the risk of introducing of new technology.

**Training:** We provide end-to-end communications and spectrum training solutions. This starts with needs analysis and design of training material, and leads to customer-focused delivery. We blend training methods, e.g. by providing remote learning alongside traditional face-to-face training.

## ABOUT CGI

With over 70,000 professionals in 40 countries, CGI fosters local accountability for client success while bringing global delivery capabilities to clients' front doors.

Founded in 1976, CGI applies a disciplined delivery approach that has achieved an industry-leading track record of on-time, on-budget projects.

For 40 years we have worked with Defence in the UK, US, Canada, Australia and across Europe and have over 6,000 Defence and Security professionals working across the Five Eyes and NATO community.

Together we deliver large-scale, complex programs across operations, security, intelligence, communications, personnel systems, logistics and infrastructure.

In the UK we are ranked as a top 5 Defence SITS supplier and we focus on delivering Information Enabled Capability (IEC) across the Defence domain.

Our high-quality business consulting, systems integration and outsourcing services help clients leverage current investments while adopting new technology and business strategies that achieve top and bottom line results.

As a demonstration of our commitment, our average client satisfaction score for the past 10 years has measured consistently higher than 9 out of 10.

For more information about CGI, visit [www.cgi-group.co.uk/defence](http://www.cgi-group.co.uk/defence) or email us at [info.eu@cgi.com](mailto:info.eu@cgi.com) or tel: +44 (0) 845 070 7765

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