



Electromagnetic Spectrum Management Cloud Services (ESMCS)

Contracting body

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Service Definition overview

Electromagnetic radio spectrum is a valuable resource, and CGI's services develop your spectrum management the right way for your organisation. Our proven methodology using internal and SME experts will review strategic and operational aspects of your capabilities in up to nine crucial dimensions ensuring proper management of this critical asset.

Why CGI?

CGI have a detailed and in-depth knowledge of the Electromagnetic Environment and Spectrum Management sector with expertise in the latest technology and are uniquely qualified to offer a range of expertise that will help guide and support organisations adopt and put in place the necessary aspects of spectrum management for their organisations.

For over 20 years, CGI has helped defence, government and commercial clients, and delivered some of the most up to date spectrum management capabilities to their stakeholders. CGI's spectrum knowledge coupled with practical policy and technical application has had significant impact on client progress in the spectrum management environment. In-house subject matter experts work with knowledge experts and field leaders in Cloud technologies and services, together with IT and system security and provide the right mix of capability required by Clients keeping ahead in challenging and complex field of Electromagnetic Activity (Spectrum Management) and Electromagnetic Battle Management.

Our Electromagnetic Spectrum Management Cloud Service offering draws on a significant number of years working closely with clients across the Public Sector and alongside Ofcom. It also pulls together some of the leading Small to Medium Enterprises and Subject Matter Experts in the Spectrum Management field providing: Specialist skills in both civil and military Spectrum management, supplying Electromagnetic Battle Management and Spectrum Management solutions worldwide.

World leading policy and regulatory advice on media, telecommunications and radio Spectrum policy issues and one of Europe's foremost independent providers of specialist advice to users and regulators of the radio Spectrum.

CGI brings comprehensive quality and project management processes, as well as familiarity with the Defence and Civil environment. We have already worked together as a team and so we are ready to go, supported by established working practices.

We offer:

Impartial Advice - A team which is independent of the market for Electromagnetic Spectrum usage and manoeuvre, who can provide impartial technical support to you.

1. Service Description

The Electromagnetic spectrum is an increasingly highly sought-after, congested and contested resource. Government-related users of electromagnetic spectrum are many and varied, including emergency services, broadcasters, military, transport, science and others. In the modern, connected world this wireless resource is also the lifeblood of much commercial innovation, generating estimated benefits to UK worth over £40bn each year. However, spectrum costs money and it is in short supply, which makes it an increasingly valuable asset. Furthermore, some spectrum is congested whilst demand for access continues to rise which is driving the need for more efficient use.

So, in a technology Cloud-driven society, how do you balance the need to provide vital public services with the need to control costs, increase revenues and stimulate growth? How do you manage spectrum to ensure efficient use when there are different users and conflicting requirements? Organisations are increasingly having to use the spectrum they have more effectively, operate in congested and contested environments, and need to acquire more spectrum or even trade some of their existing spectrum rights. User Experience and Situational Awareness pressures on Government organisations are increasing.

There is an increasing need for services to be scalable as business demands change and be made available reliably and securely to users with different authorisation levels wherever they are in the UK or overseas. This is certainly the case for Electromagnetic Spectrum Management within the Electromagnetic Operating Environment. The range of data and processes required, and their inter-relationships with operations and strategic decision-making, means that a flexible approach is essential. This requires systems and networks that are robust and trusted. Information must be managed in accordance with good practice, and it is important to be able to restore operations rapidly in a recovery situation. These requirements mean that spectrum management will become increasingly dependent on delivery through Cloud services.

To thrive in this rapidly changing business, technological and operational environment, whether services are Cloud-based or not, it is essential that organisations possess effective spectrum management capabilities that balance several factors, including:

- The need for a strong strategic direction.
- Ensuring necessary spectrum is available in different and complex electromagnetic environments.
- Understanding the risks to spectrum access.
- Meeting business needs.
- Compliance with legislation and targets.
- Enabling efficient operations.
- Controlling spectrum costs.
- Minimising the impact on other spectrum users.
- Monitoring and analysing spectrum data and use.
- Sharing and protecting information in systems.
- Providing effective support to future operations.

To enable organisations to achieve this balance, CGI offers a Electromagnetic Spectrum Management Cloud Service (ESMCS) and a range of supporting specialisms. Built on many years of experience, we are ideally placed to provide the necessary expertise, guidance and support to enable your organisation to adopt and implement high-quality, best-practice spectrum management. Please see section 1.2 for details of our track record.

Our pool of specialist subject matter experts has many years of combined experience in spectrum management. We have worked extensively with both the UK regulator, and major spectrum-using government departments and delivery teams. Our work has covered all aspects of developing and supporting improved spectrum practices and spectrum release. We also have access to experts in Cloud services and technologies, together with IT and systems security. Our UK-based team brings together some of the leading specialist small-to-medium enterprises, in Electromagnetic Spectrum usage and manoeuvre, to provide an integrated team providing the reassurance of a robust and successful delivery record. Our core team comprises several Small and Medium Enterprises, who provide:

- Specialist skills in both civil and military Spectrum management, Electromagnetic Battle Management Planning, supplying Spectrum management solutions worldwide.
- World leading policy and regulatory advice on media, telecommunications and radio Spectrum policy issues and one of Europe's foremost independent providers of specialist advice to users and regulators of the radio Spectrum.

We have already worked together as a team and so we are ready to go, supported by established working practices. Our team members have complementary skills, but also overlap in certain key areas such as technical modelling and regulations. In this way, we provide cover for each other to ensure the availability of resources as and when required.

This proposition either delivers to or supports the principles of Cloud services, including National Institute of Standards and Technology (NIST) definitions and characteristics.

2. Service Delivery and Approach

2.1. What we offer and how we do it

In order to develop spectrum management effectively for your organisation, ESMCS uses CGI's proven methodology to review strategic and operational aspects of your spectrum capabilities in up to nine crucial dimensions, as described below in Table 1:

Evaluation Areas	Evaluation Dimensions	Client Questions Addressed During the Evaluation
Strategic	1: Strategic Vision	How can I improve the long-term vision for what my corporate spectrum needs are? How do spectrum management requirements become embedded in the procurement process, such that spectrum becomes an enabler to new technology? Do I have the right spectrum overall to meet business needs? Do I have too little, too much or the wrong frequencies? Are mechanisms in place for strategically obtaining or releasing spectrum as necessary? Do I know how the Electromagnetic Spectrum Marketplace is evolving in the Short, Medium and Long Terms?
	2: Policies	Have I established the right policies for effective spectrum management and the necessary governance of my resources? Have I implemented them using the most appropriate strategy? Do I have the right checks and balances in place to adjust my policies to maintain pace with change?
	3: Engagement	Do I need to engage more effectively with regulatory bodies, different Government departments and international organisations that might influence my use of spectrum? Should I be more closely involved in the development of standards and decisions made by these organisations? Do I understand how much my Spectrum holdings are worth and the factors which will influence that value?

Evaluation Areas	Evaluation Dimensions	Client Questions Addressed During the Evaluation
Operational	4: Spectrum Holdings	For specific Spectrum bands, have I made allotments and assignments in the most efficient manner to get best use of my resource? Am I using the most appropriate methodology to dynamically manage the limited amount of spectrum accessible by my organisation?
	5: Processes	Do I have the right spectrum management processes in place to meet both strategic, operational and day-to-day needs? Are they future proof in the evolving political, technical and operational arena? How can my organisation be more dynamic and efficient with its use of the spectrum? What is the right process for securing spectrum for my equipment in the UK and overseas and how do I navigate the different parts?
	6: Staffing	Do I have the right levels of appropriately trained and skilled staff? Are the responsibilities for these staff clear, appropriate and what I want them to be? Do I need spectrum training to understand the needs and requirements of my project?
	7: Systems and Tools	Do I have the right systems in place that simplify and assist spectrum administration whilst recognising the technical complexities involved? Do I have specialist tools (or access to their use) that enable me to plan and deliver radio spectrum usage to the quality required by the organisation? Do I need to / how do I move my systems, data and tools to the Cloud? What are the benefits to my organisation? How do I use these systems to obtain, manage and use spectrum in the UK and overseas?
	8: Data	Do I hold data of sufficient quality that enables my staff, systems and processes to perform their roles effectively? What actions can I take to improve the quality of my data? What spectrum data is required for my project?
	9: Communications	Do I have the communications channels in place that I need with my community of users? Does my user community get policy updates as needed and act on them accordingly?

Table 1 Evaluation Scope

Our service is scalable in two ways. Firstly, the dimensions to be addressed depend on your current electromagnetic spectrum management arrangements, and we will agree the priority dimensions with you to ensure targeted effort. Secondly, the depth of investigation depends on factors such as business need and time available. This may mean that some dimensions need considering in greater detail or that a rapid scan across

all dimensions is more appropriate. This could also be completed sequentially, with a quick scan identifying those areas that need a more focused review and analysis. The methodology will be tuned to accommodate the areas and dimensions you require. In recognition of organisations' differing needs, ESMCS is available as a short 'understand' investigation (typically involving around 20 person days of effort from our specialists) or in more extended forms.

2.2. Methodology

Our methodology is shown below and is a three-step process:

- To **understand** the requirements and make recommendations captured in a roadmap.
- To **implement** those recommendations.
- To **improve** the management of spectrum, through the use of our analysis tools, and transition to the Cloud.

Each of the steps is described in more detail in the following sections.

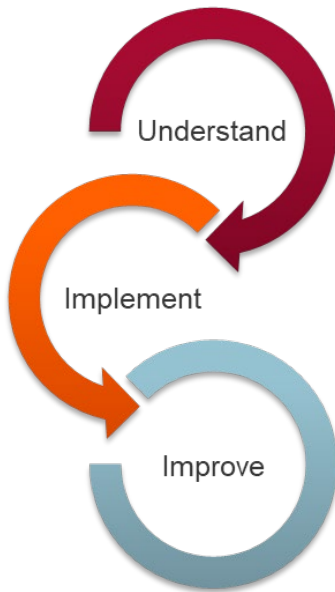


Figure 1 Our Methodology

2.3. Scope

ESMCS provides a review of the Contracting Body's spectrum management capability, develops a road map for change, allows that change to be implemented and monitors the application of change, allowing you to improve your use of your spectrum holdings. The feedback loop allows improvements to be implemented on an iterative basis, against some or all the dimensions described below. This will be carefully scoped according to your organisation's needs, ensuring value for money. These dimensions are categorised as either strategic or operational and are further described in Table 2 below:

Evaluation Areas	Evaluation Dimensions	Client Questions Addressed During the Evaluation
Strategic	1: Strategic Vision	How can I improve the long-term vision for what my corporate spectrum needs are? How do spectrum management requirements become embedded in the procurement process, such that spectrum becomes an enabler to new technology? Do I have the right spectrum overall to meet business needs? Do I have too little, too much or the wrong frequencies?

Evaluation Areas	Evaluation Dimensions	Client Questions Addressed During the Evaluation
		Are mechanisms in place for strategically obtaining or releasing spectrum as necessary? Do I know how the Spectrum Marketplace is evolving in the Short, Medium and Long Terms?
	2: Policies	Have I established the right policies for effective spectrum management and the necessary governance of my resources? Have I implemented them using the most appropriate strategy? Do I have the right checks and balances in place to adjust my policies to maintain pace with change?
	3: Engagement	Do I need to engage more effectively with regulatory bodies, different Government departments and international organisations that might influence my use of spectrum? Should I be more closely involved in the development of standards and decisions made by these organisations? Do I understand how much my Spectrum holdings are worth and the factors which will influence that value?
	4: Spectrum Holdings	For specific Spectrum bands, have I made allotments and assignments in the most efficient manner to get best use of my resource? Am I using the most appropriate methodology to dynamically manage the limited amount of spectrum accessible by my organisation?
Operational	5: Processes	Do I have the right spectrum management processes in place to meet both strategic, operational and day-to-day needs? Are they future proof in the evolving political, technical and operational arena? How can my organisation be more dynamic and efficient with its use of the spectrum? What is the right process for securing spectrum for my equipment in the UK and overseas and how do I navigate the different parts?
	6: Staffing	Do I have the right levels of appropriately trained and skilled staff? Are the responsibilities for these staff clear, appropriate and what I want them to be? Do I need spectrum training to understand the needs and requirements of my project?
	7: Systems and Tools	Do I have the right systems in place that simplify and assist spectrum administration whilst recognising the technical complexities involved? Do I have specialist tools (or access to their use) that enable me to plan and deliver radio spectrum usage to the quality required by the organisation?

Evaluation Areas	Evaluation Dimensions	Client Questions Addressed During the Evaluation
		Do I need to / how do I move my systems, data and tools to the Cloud? What are the benefits to my organisation? How do I use these systems to obtain, manage and use spectrum in the UK and overseas?
	8: Data	Do I hold data of sufficient quality that enables my staff, systems and processes to perform their roles effectively? What actions can I take to improve the quality of my data? What spectrum data is required for my project?
	9: Communications	Do I have the communications channels in place that I need with my community of users? Does my user community get policy updates as needed and act on them accordingly?

2.4. Approach

CGI's Electromagnetic Spectrum Management diagnostic methodology provides a systematic approach to reviewing your situation. It provides a proven approach to co-ordinating within and across the dimensions in scope. The methodology has significant strengths including:

- It considers your current situation and future needs to provide a forward-looking roadmap, such as a deployment of Cloud services for spectrum management, battlespace mission planning and data storage. It is scalable and adaptable to address your organisation's circumstances.

This is necessary for several reasons, such as:

- Different organisations need different amounts of spectrum at different radio frequencies.
- Not all organisations need the same level of engagement with international bodies.
- It combines concrete quantitative measures (for example, the amount of spectrum held at different frequencies, and the numbers and types of frequency assignments) and qualitative understanding (for example, aims and aspirations).
- It integrates our expertise with your staff's knowledge and understanding obtained through discussion to define a way forward specific to your needs.
- It provides an integrated service that exploits the range of expertise we have available and that you need.
- It assists the possibility of transition to Cloud-based systems. Through such systems, additional robustness, accessibility and analytical capabilities can be provided by the way they securely share and integrate information within and between organisations.

2.4.1. Step 1: ESMCS Understand

2.4.1.1. Process

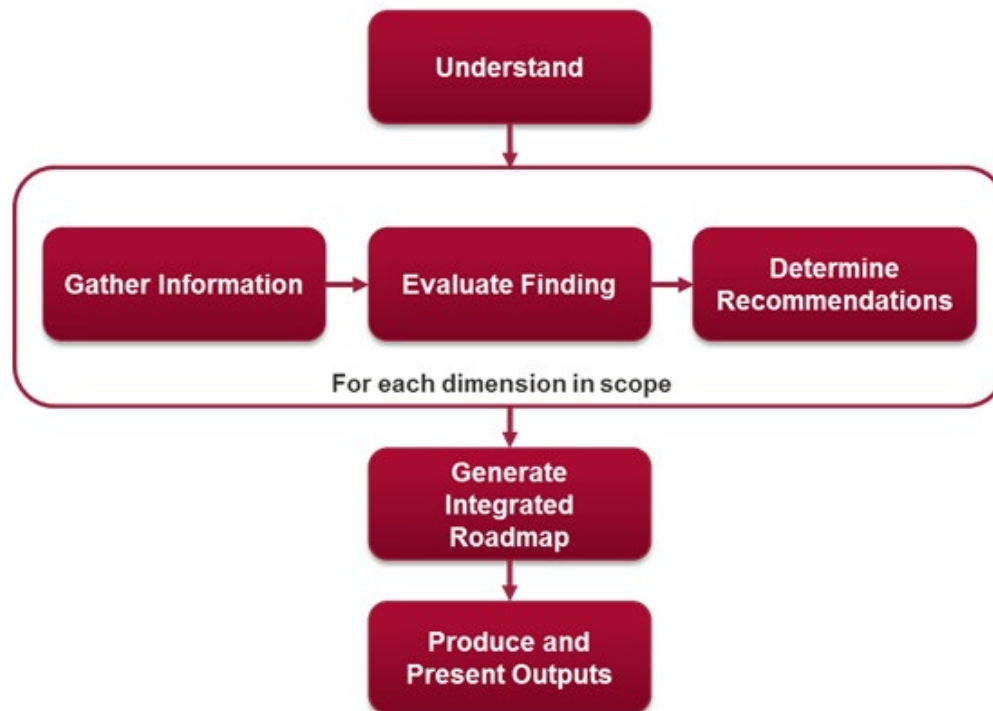


Figure 2 Methodology Step 1 - Understand

The steps are:

- **Understand** - This initiation activity allows us to work with you to confirm the scope, priorities and practical arrangements for the investigation.

For each dimension in scope:

- **Gather Information** - Collate spectrum associated information/documentation (for example organisation structure, catalogues or lists of spectrum systems and processes). Hold discussions with relevant management and processing staff.
- **Evaluate Findings** - Analyse the implications of your situation based on the information gathered, our expert knowledge and work we have carried out for UK MOD, other government departments and organisations. We can rapidly understand your needs and identify the possibilities for developing your spectrum management practices by re-using our best-practice blueprints in each dimension.
- **Determine Recommendations** - Determine and make recommendations for improving your spectrum management so that your organisation is better positioned in the spectrum arena.
- **Generate Integrated Roadmap** – Derive and develop a high-level roadmap showing how to implement the recommendations coherently across all dimensions.

Produce and Present Outputs - Produce the Spectrum Management Diagnosis Report (SMDR) for the investigation and undertake a face-to-face presentation, to relevant stakeholders, to explain the investigation findings and how they can be implemented.

2.4.1.2. Deliverable

The output of ESMCS Understand is a Spectrum Management Diagnosis Report which will cover:

- **Scope of the assessment** summarising the focus and priorities of the investigation, what was assessed, what was excluded and who was consulted.
- **Findings** of the investigation, including:
 - Description of the current situation.
 - Vision for the future.
 - Issues and considerations, and options for addressing.

- Recommendations for way ahead.
- **High-level roadmap** for implementing the recommendations.

To ensure that the report provides you with clear, beneficial findings, the level of detail depends on whether the short investigation option has been chosen or a more extended version.

2.4.2. Step 2: ESMCS Implement

2.4.2.1. Process

Figure 3 illustrates the activities undertaken in the second step of our methodology 'Implement'.



Figure 3 Methodology Step 2 - Implement

The steps are:

- **Implement** - This activity allows us to work with you to confirm the scope, priorities and practical arrangements for the implementation of the new Spectrum Management activities. It takes the recommendations from the High-level road map and provides a project implementation scope.

For each dimension in scope:

- **Create business process:** Working closely with you, we will look at your current business processes, and where necessary update and amend them to reflect the new ways of working brought about by the new systems.
- **Cleanse and Improve Spectrum Related Data:** We will analyse your current spectrum related data against a set of jointly agreed criteria and apply changes to the data set if required, and if possible, gather additional data to bring it up to standard if there are shortfalls.
- **Migrate Spectrum Related Data:** We will work with you to migrate your cleansed data to the new data structures, within your chosen Spectrum Management tool.

- **Implement Software Tools:** We will implement software tools as applicable and required.
- **Conduct Technical Studies:** We will conduct a range of spectrum studies as requested to meet specific business requirements. The studies can range from research through to technical co-existence studies. The results of these studies will support the implementation of existing business processes or form part of a wider business change set of activities.
- **Create and Customise Training:** We will work with you to develop and deliver a set of training courses focused on providing the skills to utilise your new ways of working.

2.4.2.2. Deliverable

The outputs of ESMCS Implement could include some or all the following:

- **Cleansed and Migrated Spectrum Data;** giving the best possible underpinning of your new ways of working.
- **A Set of related Electromagnetic Spectrum Management Tools;** allowing you to effectively manage your spectrum holdings and Battlespace Mission Planning; potentially through Cloud information management processes.
- **Comprehensive Systems and Process Documentation;** providing a consistent approach to Spectrum Management.
- **Delivered Training Courses;** providing a sound basis of understanding for your Spectrum management activities.

We would be happy to discuss further requirements for deliverables as necessary.

2.4.3. Step 3: ESMCS Improve

2.4.3.1. Process

Figure 4 below illustrates the activities undertaken in the third step of our methodology 'Improve'.

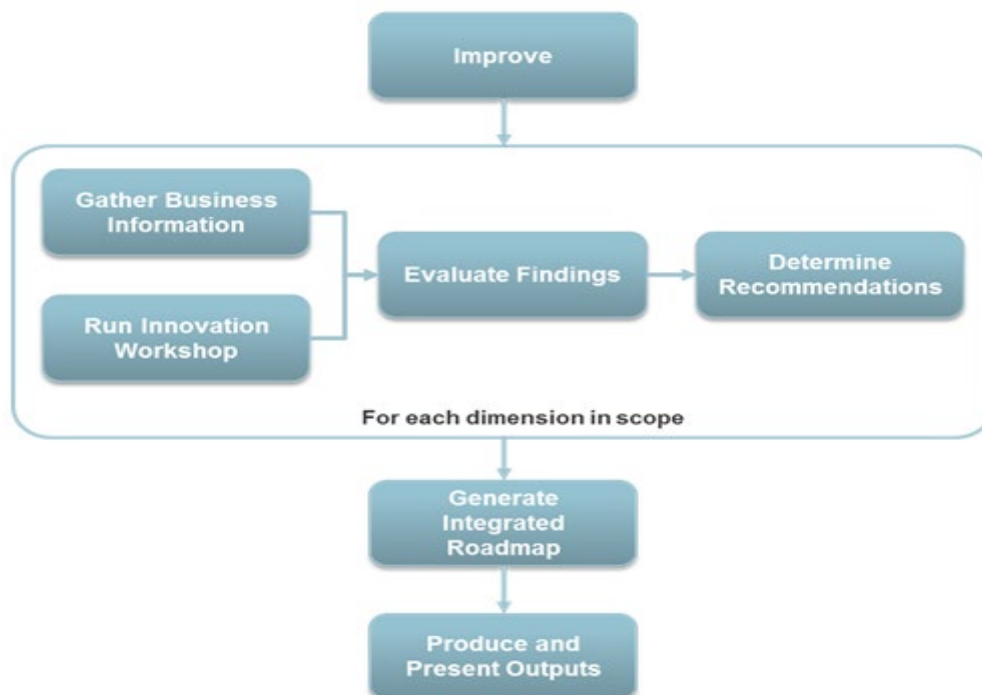


Figure 4 Methodology Step 3, Improve, Overview

The steps are:

- **Improve** - This activity allows us to work with you to help identify further efficiencies in your Spectrum Management processes based on actual activities within your organisation.
- **Gather Business Information** – Produce information from the tools and processes employed to manage the spectrum holdings.
- **Run Innovations Workshop** – Gather the relevant stakeholders together with Industry experts to understand and assess how further efficiencies could be gained.

- **Evaluate Findings** - Analyse the implications of your situation based on the information gathered, our expert knowledge and work we have carried out for UK MOD and other organisations. We can rapidly understand your processes and identify the possibilities for further developing your spectrum management practices by re-using our best-practice blueprints in each dimension.
- **Determine Recommendations** - Determine recommendations for improving your spectrum management.
- **Generate Integrated Roadmap** – Update the high-level roadmap showing how to implement the revised recommendations coherently across all dimensions.
- **Produce and Present Outputs** - Produce the Spectrum Management Diagnosis Report for the investigation and undertake a face-to-face presentation, to relevant stakeholders, to explain the investigation findings and how they can be implemented.

2.4.3.2. Deliverable

The output of the ESMCS Improve process is a Spectrum Management Improvement Report which will incorporate the findings of the detailed investigations described above and will cover:

- **Scope of the assessment** summarising the focus and priorities of the investigation, what was assessed, what was excluded and who was consulted.
- **Findings** of the investigations, including:
 - Description of the current situation.
 - Vision for the future.
 - Issues and considerations, and options for addressing.
 - Recommendations for way ahead.
- **High-level roadmap** for implementing the recommendations.

We would be happy to discuss further requirements for deliverables as necessary.

2.5. CGI's Track Record

CGI has supported electromagnetic spectrum management in the UK for nearly two decades. In this time we have provided services (ranging from specialist advice to systems development and operations) to both the UK regulator and to individual UK government departments including the MOD. ESMCS provides access to a wide range of our own skilled specialists as part of an integrated service. We will ensure that the right mix of experts is available to provide the advice and guidance you need for best of breed spectrum management.

Our work for organisations that use spectrum has included:

- Analysis of business requirements.
- Detailed technical studies, including propagation modelling and investigating co-existence impacts between spectrum dependant systems.
- Provision of the full range of support to assist organisations release and share spectrum.
- Developing and operating licensing systems.
- Data improvement and rationalisation.

CGI has an extensive range of specialists with experience of working within the electromagnetic spectrum management domain in both the private and public sectors. Many of them have more than 10 years of experience in this sector. Their skills cover the whole spectrum domain, including but not exclusive to:

- Spectrum management administration.
- Technical analysis.
- Spectrum release and sharing.
- Electromagnetic Battle Management (EMBM) and mission planning.
- Spectrum management systems and tools, policy and strategy.

This experience has enabled us to develop a complete Spectrum Operating Framework:

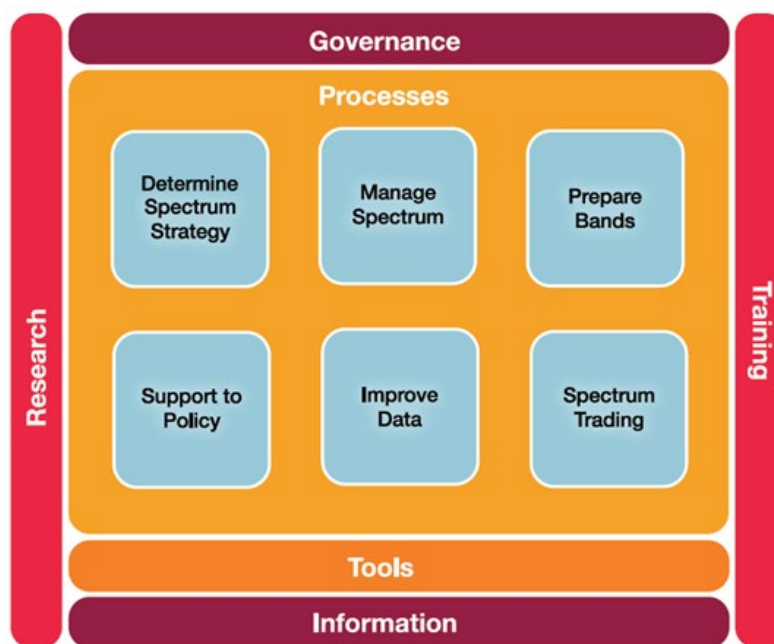


Figure 5 CGI Spectrum Operating Framework

This Framework acts as a way of structuring and maintaining a set of best practices in each of the categories shown, that is in the governance, processes, tools, information, research and training required to run an electromagnetic spectrum management organisation. Each of these areas is supported by detailed case studies which can be provided upon request. ESMCS provides a structured approach to drawing on this body of knowledge and applying it to your specific situation.

2.6. Additional Services

ESMCS provides a self-contained assessment of your capabilities to help you determine the right way forward for your organisation. You may wish to consider further specialist services based on the results of ESMCS, or you may wish to call on specific areas of our expertise separately. In either case, you can draw on our additional spectrum services.

Some, such as the strategic and policy services or the data audit services, build specifically on the services provided in ESMCS, with the investigations taken to further levels of detail. Others, such as Recognised Spectrum Access (RSA), are services that are provided as stand-alone packages if needed. Our expertise includes:

Strategic Services

- **Spectrum Strategy and Policy Services** – Advice and support to your organisation on how to develop strategies and policies that improve your use of radio spectrum and associated spectrum dependant systems.
- **Strategic Spectrum Planning Services** – Specialist advice on how to develop and implement long-term strategic plans for your organisation's spectrum use. This enables you to use what you have efficiently and effectively, and to consider whether to retain, acquire or release spectrum to support your business function needs.

Spectrum Acquisition/Trading Services

- **Spectrum Liberalisation/Release** – Supporting your organisation to determine what spectrum release/liberalisation it can perform and how to perform it in an effective way. CGI offers a QLA (Quick Look Analysis), which identifies bands that have a high potential for trading and are therefore candidates for further and more detailed exploration. This is particularly important in the context of the latest UK Government spectrum release programme, being championed by the Central Management Unit (CMU), which has the target 750MHz of spectrum by 2022. CMU works with government departments, partners and Ofcom to facilitate the release of spectrum from the public to the private sector, to enable economic

growth. 'Smart motorways', driverless cars, and better mobile phone and Wi-Fi connectivity on trains are just some of the possible uses for the released spectrum.

- **Spectrum demand studies/investigation** – Determining the level of market demand for different spectrum bands held by your organisation. This assists you in understanding the potential financial returns from spectrum release and supports our spectrum liberalisation/release service.
- **Spectrum Technical/Co-existence Studies** – Technical radio-spectrum investigation such as propagation modelling and analysis of co-existence impact between current or planned usage of spectrum dependant systems, both co and adjacent channel.
- **Spectrum Access in the United Kingdom and overseas** – Specialist advice on how to obtain spectrum access in the UK and navigate the internal and external processes.

Spectrum Operations

- **Spectrum Management/Process Advice** – Specialist advice on how spectrum management can be improved through measures such as adopting standardised processes.
- **Spectrum Training and Assessment Advice** – Carrying out spectrum management training or providing advice on appropriate methodology. We have training expertise that can be applied to areas including, but not limited to, a variety of radio spectrum management concepts and the use of specialist radio spectrum tools.

Spectrum Management Transformation

- **Business Change Specialist Advice** – Assistance and advice to your organisation on how to make changes to the way spectrum management is performed. Note that CGI can also lead and manage business change activities if appropriate.
- **Programme/Project Management Advice** – Advice or management of programmes and projects particularly where related to radio spectrum management or usage.
- **Software Solution/Development** – Advice on either developing new spectrum-related software specific to your organisation's needs or acquiring a suitable Commercial-Off-The-Shelf (COTS) solution.
- **Spectrum Technical Tools** – Specialist advice on which spectrum technical tools may be valuable to you and how they should be deployed for your spectrum management capabilities considering your unique circumstances.
- **Data Audit Services** - This service evaluates the quality of your organisation's spectrum data so that decisions can be made on whether and how to improve quality of the data held to meet your current and future business needs.

Other specialist services

- **Spectrum Information Security Services** – Advice on appropriate measures to be taken to protect spectrum information in the context of general (but particularly UK Government) security requirements. This covers ensuring appropriate confidentiality and integrity whilst availability is maintained, considering the Business Impact Level (IL) of the information.
- **Spectrum Research Advice** – This ranges from providing advice on research you may require through to assisting or carrying out spectrum-related research for your organisation.

Please contact us for more information.

2.7. Information Assurance

CGI uses our Management Foundation including our Integrated Management System (IMS) for information assurance. These IMS processes are independently certified to BS/EN/ISO 9001:2008.

CGI is committed to retaining our current range of UK-based certifications and will extend these to meet client expectations as required.

The CGI Management Foundation design allows incorporation of best practice from across all our Public Sector and Commercial engagements.

Our accreditations and certification include:

- ISO9001, ISO27001:2013 and ISO20000

- E.U. Data Protection Directive - (95/46/EC).

All information is held at the appropriate security level for the service. CGI hosted services can be provided at any level defined in the new Government Security Classification (GSC) policy with the appropriate assurance.

Information Principles for the UK Public Sector supported and documented?

CGI recognises the UK Public Sector information principles which are fundamental to the efficient and effective delivery of public services. Where we store and manage government information in our G-Cloud services we aim to ensure that it is appropriately protected and available to exploit. Through this we would aim to maintain and, depending on the service purchased, enhance the quality of the information stored in a standard manner that enables its re-use. Where the selected services require it, we would engage positively both to support the buyer in the publication of public information and to support them in the access of information by citizens and business.

Government ICT Strategy and Greening Government ICT Strategy supported and documented?

The design and delivery of our Cloud-based SaaS offerings are consistent with the principles of the Greening Government ICT Strategy. Scalable, Cloud-based services allow pooling of capacity across multiple clients, reducing overall hardware requirements. These are further reduced through virtualisation, which has delivered up to a 90% reduction in server numbers and power consumption for some of our services. We select modern, energy efficient servers, storage and network hardware and have also invested heavily in improving the energy efficiency of our data centres. This includes initiatives such as free air cooling, aisle containment, power supply upgrades, lighting controls and power management and monitoring software. In the UK, electricity for our data centres is sourced from renewables, which is also the case for many of our third-party hosting providers. We closely manage the impact of IT hardware throughout its lifecycle, aiming to optimise refresh cycles to balance in-use carbon savings of newer, more efficient hardware against the carbon impact of its manufacture. At end of life, we also ensure responsible disposal through resale or recycling of old hardware wherever possible. Our sustainability performance has won widespread recognition, including our listing on the Carbon Disclosure Leadership Index for four consecutive years and our certification under the Carbon Trust Standard.

3. Onboarding and Offboarding

The output of ESMCS Understand is a Spectrum Management Diagnosis Report which will cover:

- **Scope of the assessment** summarising the focus and priorities of the investigation, what was assessed, what was excluded and who was consulted.
- **Findings** of the investigation, including:
 - Description of the current situation.
 - Vision for the future.
 - Issues and considerations, and options for addressing.
 - Recommendations for way ahead.
- **High-level roadmap** for implementing the recommendations.

To ensure that the report provides you with clear, beneficial findings, the level of detail depends on whether the short investigation option has been chosen or a more extended version.

3.1. On boarding

CGI has proven and effective on and off boarding skills, tools and methodologies. We have successfully transitioned Public Sector clients onto Cloud infrastructures and services.

For Infrastructure, Platform and Software requirements CGI has transition specialists who bring considerable experience. The transition process is scalable and can be used for all sizes of on-boarding requirements.

For Specialist Cloud Services, CGI will engage directly with the client to ensure the full scope of the requirements is understood by both parties and agreed in advance of any engagement. We will work with senior stakeholders to define the necessary business outcomes and ensure the services are aligned accordingly.

For all services CGI understands the client's requirements and makes on-boarding specific to these needs, using the experience, lessons learnt and methodology from many years of public sector transition experience.

Whilst CGI has considerable expertise and experience gained over many years in on-boarding new IT services in the Cloud or other infrastructure, there is no need to on-board for the specialist services described in this offering.

We would be pleased to discuss your requirements, particularly on boarding, that might subsequently be required because of our Electromagnetic Spectrum Management Cloud Services.

3.2. Off boarding

Offboarding is instigated by a client request or after expiration of the service agreement. Deletion of any data will occur in line with the service agreement. Any required data will be made available using appropriate media, in line with the data security classification. After client notification that data has been successfully recovered, CGI will purge and destroy client data from any computer or storage device or media that remains part of CGI's estate.

Whilst CGI has considerable expertise and experience gained over many years in off-boarding services, there is no need to off-board for the services described in this offering.

We would be pleased to discuss your requirements that might subsequently be required.

4. Service constraints

For the proposed activities, we will agree with you the location for the work (for example, full-time on-site at your premises, or some time spent working from CGI premises) and working time (for example, taking into account your staff's working hours) to align with your needs.

5. Service levels

Conventional service levels are not applicable to the specialist services we have described.

However, before work starts, we will agree with you any expectations for what is to be delivered.

6. Service Pricing and Terms and Conditions

6.1. Pricing

Please refer to the G-Cloud 15 portal for the rates available.

6.2. Terms and Conditions

Please refer to the associated Terms and Conditions Document relevant for this Service including termination by the Buyer or Supplier.

7. Further information

For more information about this or any of our G-Cloud services, please contact us:

Phone: +44 0845 070 7765. Ask to speak to the G-Cloud team.

We will prepare a quotation for you. Once the quotation is agreed upon, we will issue you the necessary documentation (as required by the G-Cloud

Email: uk.gen.ccsframeworks@cgi.com, including the following information:

1. The name of this service.
2. The name of your organisation.
3. Your name and contact details.
4. A brief description of your business situation.
5. Your preferred timescales for starting the work.

Framework) and ask you to provide us with a purchase order.

Once we have received your purchase order, the services will be configured to the requirements agreed with invoices issued to you for the services procured. On a monthly basis, we will also complete the mandated management information reports to Government Procurement.

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The information in this proposal is submitted on 30 Jan 2026 - Issue 1.0 on behalf of CGI by the following authorised representative:

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