

Digital Driving Sustainable Outcomes

13th May 2020

CGI





Trusted to navigate across the surface of mars

The European Space Agency's ExoMars Rover mission will use a vision-based localisation system provided by us as part of Europe's first mission to the surface of Mars.

#ExperienceCGI



Trusted to help law enforcement connect the dots

We support intelligence-led policing that better meets the challenges of 21st century crime.

#ExperienceCGI



Trusted to watch over fish stocks around the world

We work together with the Marine Management Organisation to monitor the detection of illegal, unregulated and unreported fishing.

#ExperienceCGI



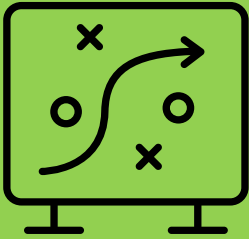
Trusted to transform education

We have enabled a world-leading, digital transformation in education to help engage pupils and support digital equality.

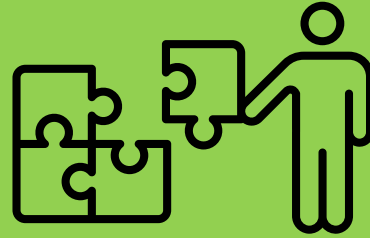
#ExperienceCGI

CGI

Sustainability & Climate Change Advisory



Sustainability
business
consulting



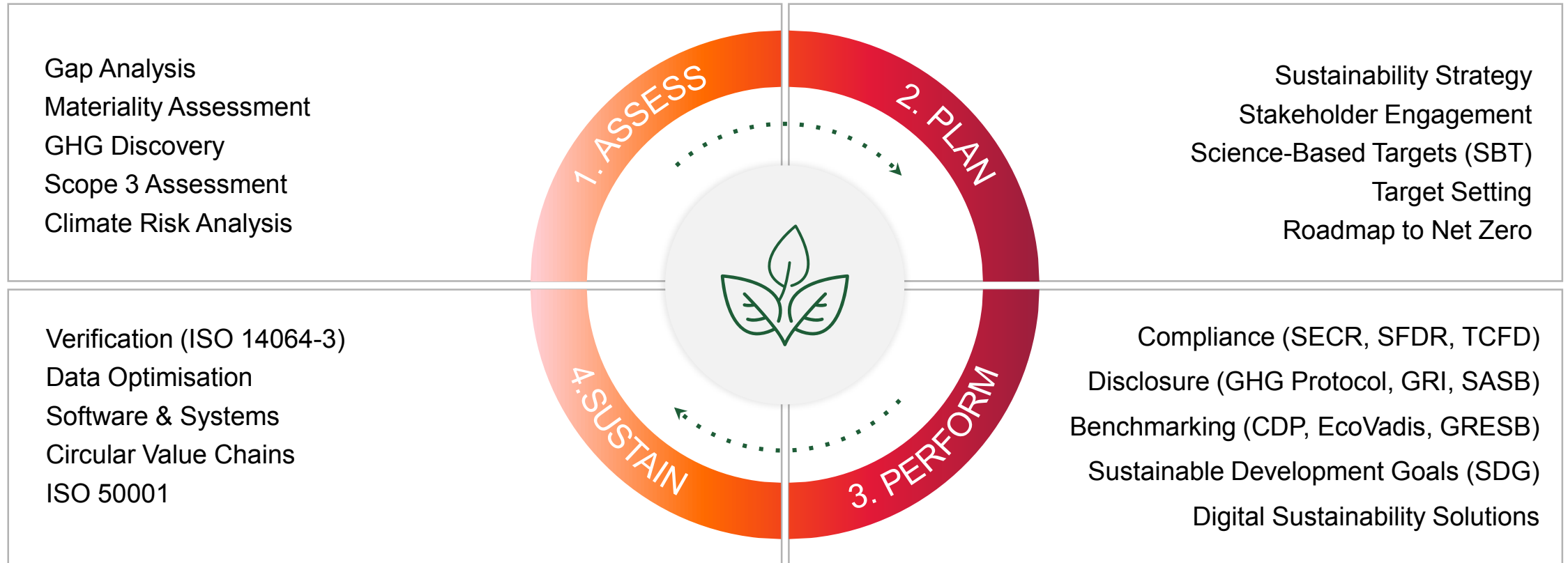
Best of CGI IP &
partner solutions



Digital driving
sustainable
outcomes

Delivering pathways to Net Zero

Guiding you on your journey to Net Zero



Embedding Net Zero

Cornwall Council

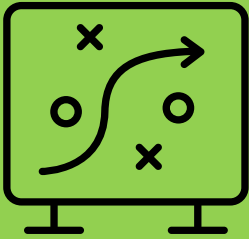
On 22nd January 2019 Cornwall Council declared a climate emergency. The Council published their *'Climate Change Plan: creating the conditions for change through direct action and a new form of place-based leadership for Cornwall'* on 15th July 2019 and outlined the work needed to become **net carbon neutral by 2030**.

CGI's Sustainability Advisory Team have been working with Cornwall Council to verify their carbon inventory to GHG Protocol and demonstrate their progress towards their net zero ambition.

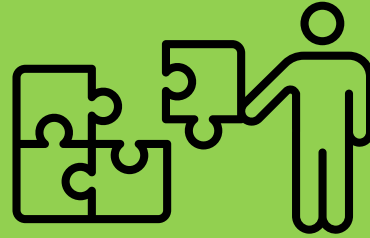
A key element of this has been to advise on an appropriate technology platform that will allow the **transition of carbon accounting from a retrospective annual process to one that is embedded within a monthly directorate level reporting and performance management process**.



Sustainability & Climate Change Advisory



Sustainability
business
consulting



Best of CGI IP &
partner solutions



Digital driving
sustainable
outcomes

Delivering pathways to Net Zero

SMART Technology Solutions



Smart Building IoT Technology

Smart building sensors that measure heat, light and power, but also occupancy and air quality. Open architecture that integrates within existing systems and anticipates failure to enable proactive maintenance.



Smart Building Retrofit Decision Making

Thermal imaging technology and intelligent platform to prioritise retrofit investment



Active Travel - Smart community platforms

Promoting healthy and sustainable travel, with the aim of making walking and cycling the preferred ways of getting around over shorter distances.



CGI SensorInsights360 - Improving citizen wellbeing through IoT

A scalable, real-time data platform that delivers an end-to-end approach to IoT and asset management.

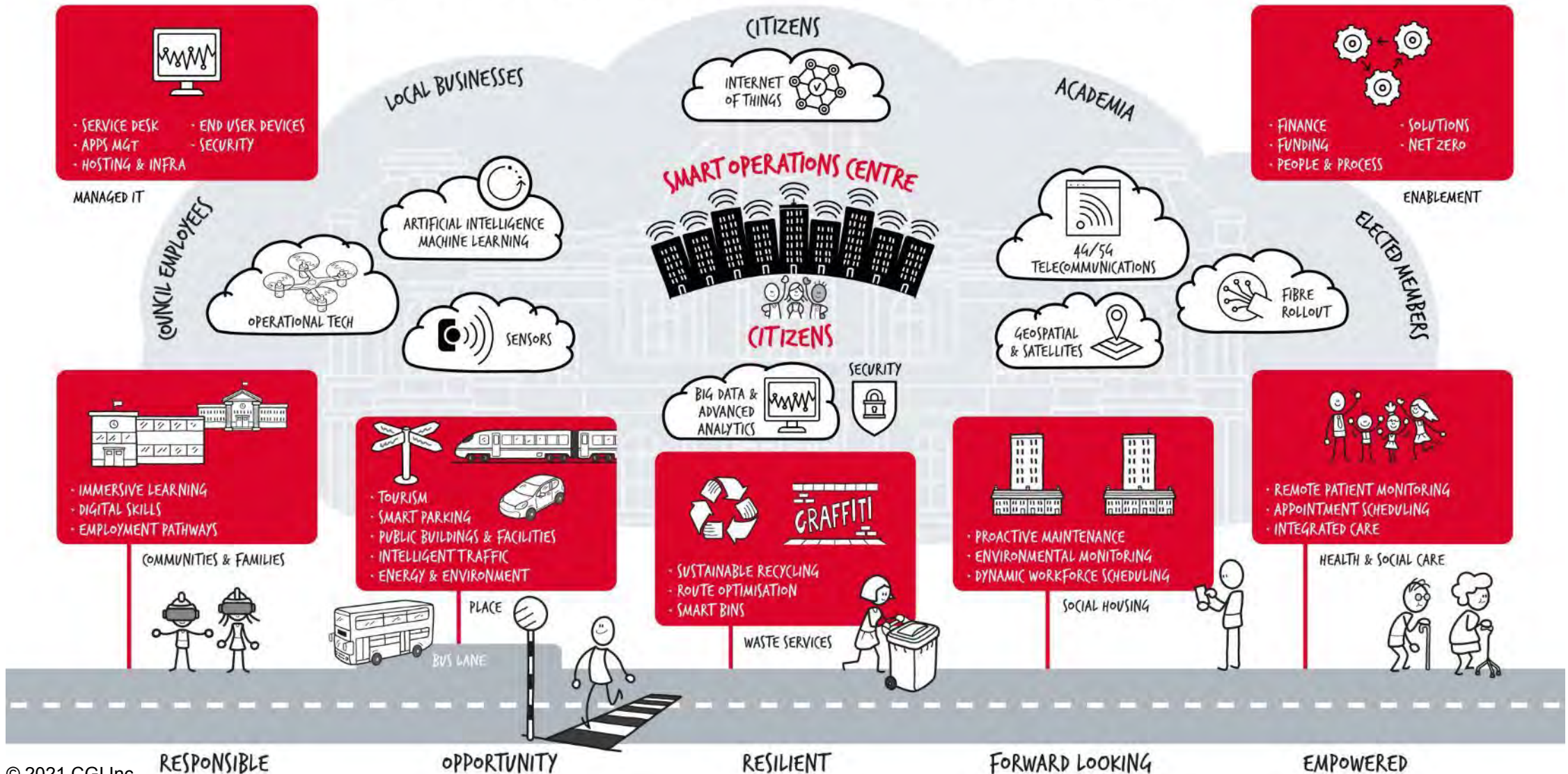


Door James - Enabling flexible working

A platform to simplify flexible workspace and resource booking.



Enabling Smart Places



CGI SensorInsights360



Housing

Improve health and safety at home by preventing issues before they occur.



Roads and traffic management

Increase safety, reduce congestion, emissions and costs.



Parking

Monitor capacity, update citizens, detect and prevent illegal parking.



Street lighting

Improve health and wellbeing through increased public health awareness.



Waste management

Optimise collections, reduce costs, prevent fly tipping and reduce emissions.



Asset monitoring

Increase predictive maintenance, reduce costs by monitoring assets in real-time.



Damp, flooding and blockages

Detect damp, flooding and blockages in real-time to reduce disruption and impact.



Air quality

Prevent or intervene in real-time to increase safety and reduce complaints.

The Digital Led University

Academia

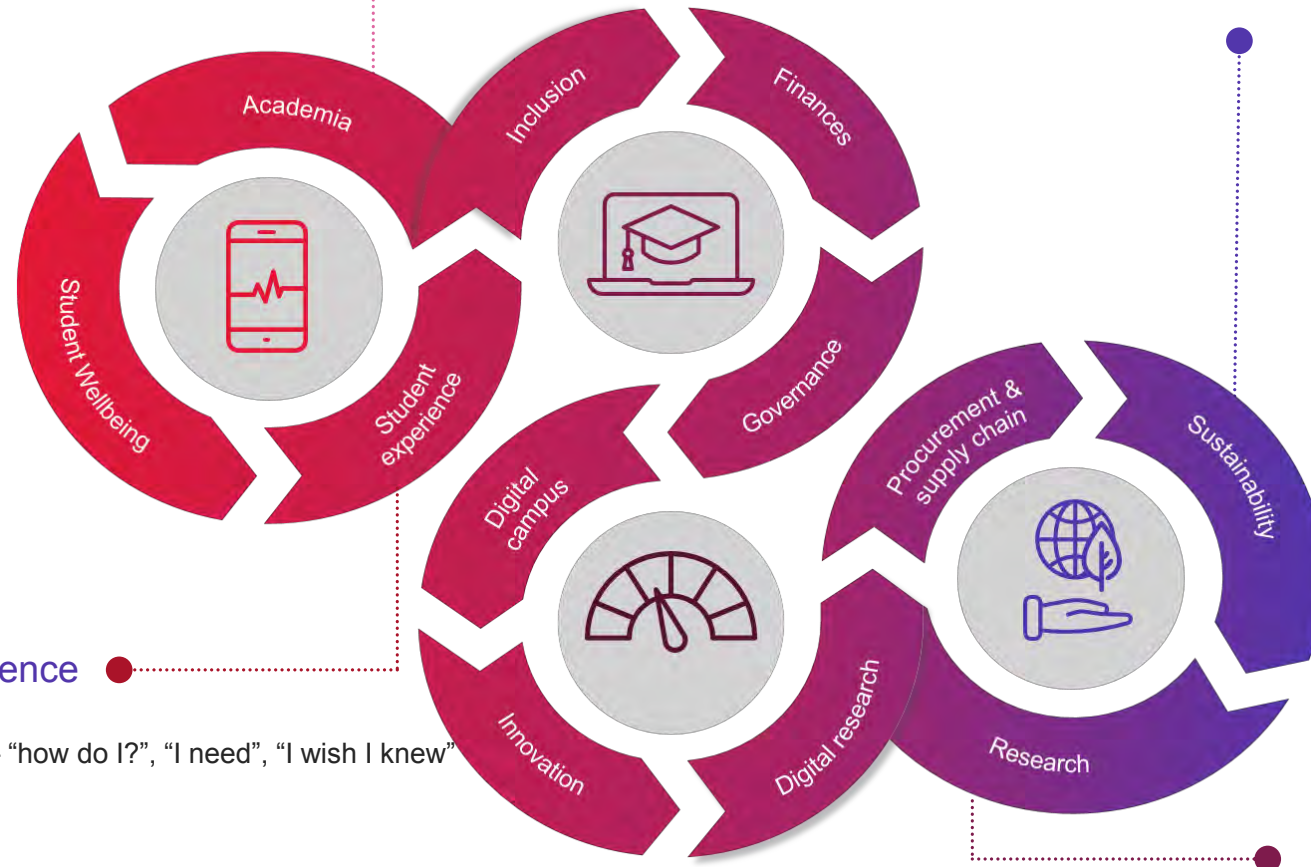
- Personalised learning experience
- Proactive lecturer support

On campus

- Resources & support systems
- Flexible learning methods,
- Zero touch IT
- Secure environments and information

Off campus

- Seamless remote learning
- Virtual reality lectures & interactions
- Unified communications



Sustainability

- Intelligent control of heat/light/energy requirements
- Smart monitoring to detect resource leakage & waste
- Effective use of learning environments & movement between learning resources
- Efficient procurement & supply chain systems delivery
- Environmental management
- Resources proactively managed with insightful data
- EV optimisation

Research

- Attracting & retaining high calibre academics
- Providing advanced technologies to aid research projects
- Raising the profile of the university
- Open collaboration within industry & business
- Adding clear value to the locality

Student wellbeing & experience

- Enrolment & onboarding
- Exciting, convenient experience – “how do I?”, “I need”, “I wish I knew”
- Accommodation
- Travel assistance
- Accessibility & inclusion
- Mental health support
- Social groups & media
- Clubs, sports & entertainment
- Emergency support (family, financial, etc.)

Sunderland's smart city vision is one of an **engaged collective** of **people, places and opportunities** Opportunities to live, learn and earn – to grow as individuals and as successful businesses

**CHIEF
EXECUTIVE
PATRICK MELIA
IN UK'S TOP 3
DIGITAL
LEADERS**

News | 4th November 2021



**A DYNAMIC
SMART CITY**



**A HEALTHY
SMART CITY**

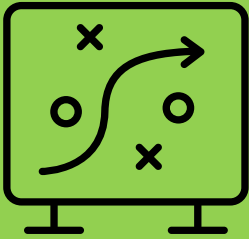


**A VIBRANT
SMART CITY**

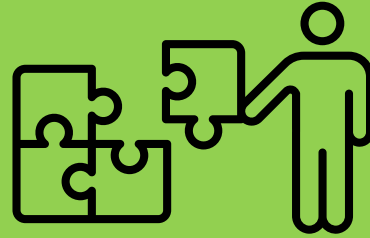


SUNDERLAND
our smart city

Sustainability & Climate Change Advisory



Sustainability
business
consulting



Best of CGI IP &
partner solutions



Digital driving
sustainable
outcomes

Delivering pathways to Net Zero

Digital Transformation

Driving Sustainable Outcomes

Our client, a rural local authority, faced the challenges of greater demand for services, an aging population, increasing digital divide, changing customer expectations, budgetary pressures and **delivery of a net zero ambition**.

CGI delivered a digital strategy and roadmap outlining key future programmes of work aligned to organisation priorities and value.

Example Workstream –

Enable front line employees by using technology and actionable information at the point of need to support performance management outcomes.

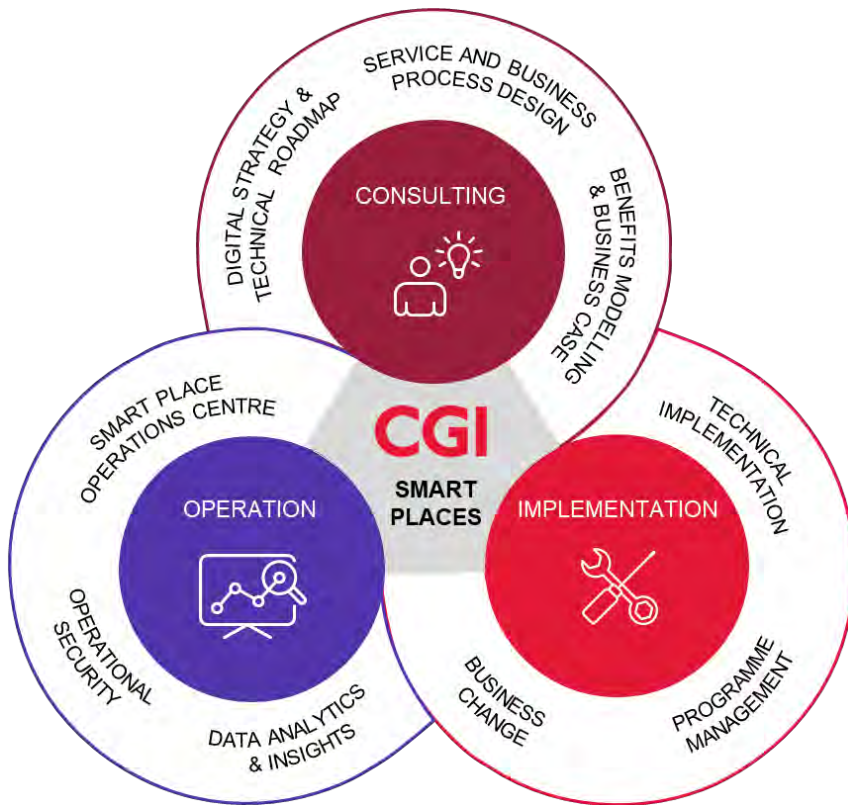
Target Outcomes –

- More efficient front line operations / reduced operating costs
- Improved citizen and employee experience
- **Reduction in fleet and business travel contributing to net zero ambition**



Technology & Digital

Improving the health and wellbeing, of people and places



Improved citizen outcomes



Environmental sustainability



Improved operational efficiencies



Reduced operating costs



Greater insight from data



Real-time monitoring of assets

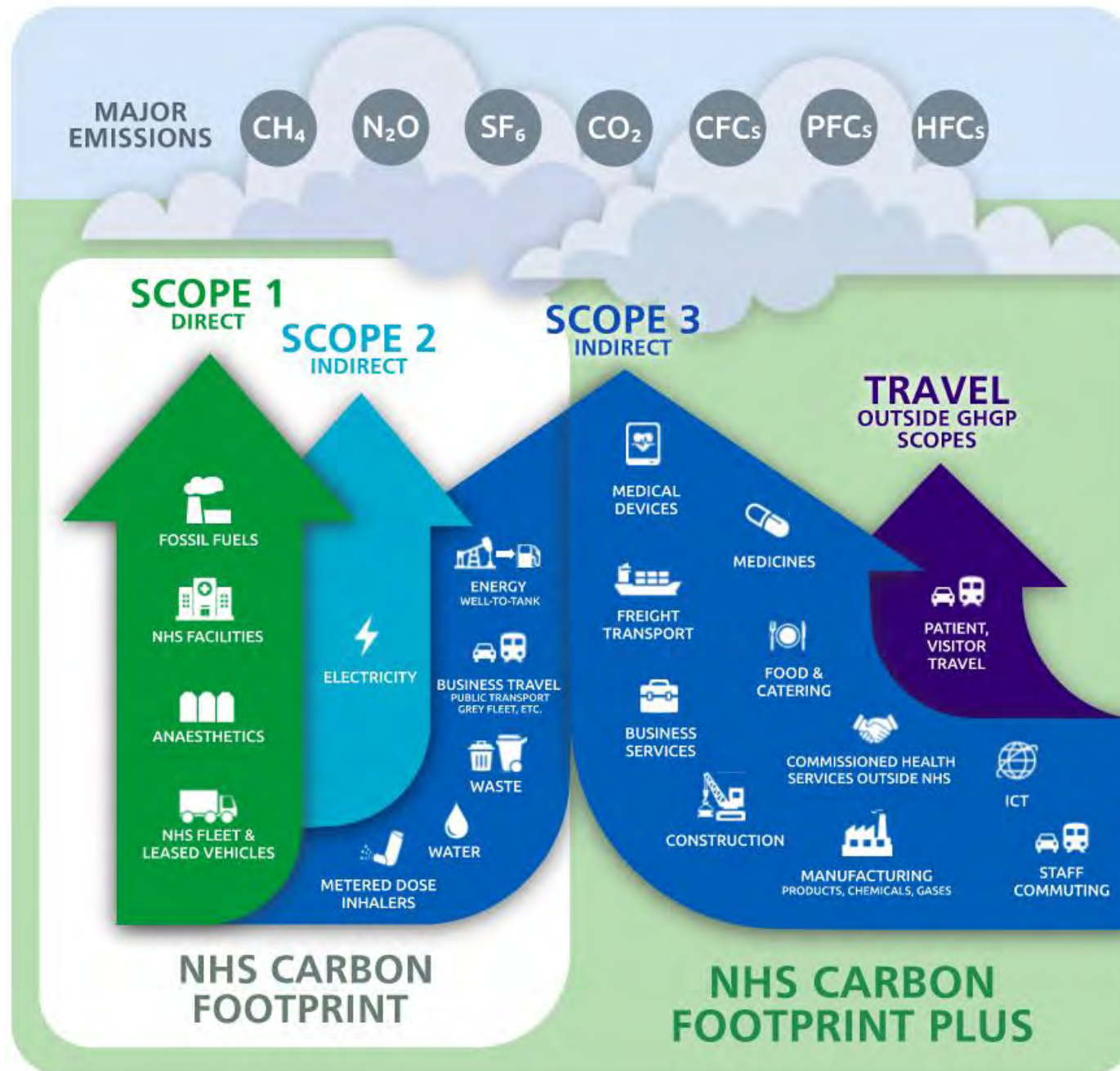


Holistic view of place

90% of the world's data has been created in the last two years



68% of data that is created is then never used or touched again





Digital is a key enabler for a low carbon future
but responsible data stewardship and circularity is important

Make your technology sustainable
and improve your organisational understanding of what that means

Challenge your service providers to demonstrate how
their technology will drive sustainable outcomes
and the carbon impact of the service they provide

Thank you

Howard Gray

Sustainability & Climate Change Advisory

howard.gray@cgi.com

Simon Williams

Smart Places & Digital Advisory

simonw@cgi.com

CGI

