Industrial Internet → HYPE
– Yes but practical solutions, references and good guidelines already exist
What our clients and partners are saying

“We are honoured to recognise CGI as this year’s winner of the 2014 Microsoft Intelligent Systems Partner of the Year award, and we applaud CGI’s dedication to providing innovative solutions that drive results for our mutual customers.”

Phil Sorgen, Corporate VP, Microsoft

“We wanted to go beyond the industry standard of preventative maintenance, to offer predictive and even pre-emptive maintenance, thereby guaranteeing a higher uptime percentage on our elevators.”

Andreas Schierenbeck, ThyssenKrupp Elevator CEO

“Our current IT providers cannot give us the Internet of things SaaS Model we need to industrialise our services and grow our global market opportunities”

Alastair Norman, Infrastructure Management, Telent Group

“CGI presented a very attractive value proposition with IBOR, and demonstrated significant advantages in contributing to a greener world.”

Peter Kommers, Asset manager lighting and traffic systems, City of Utrecht, The Netherlands
What our clients are saying

“CGI has a dedicated department for traffic-related services. They are enthusiastic, genuinely interested in public transport, and very good at developing new ideas. In Finland, commuting is a major part of people’s lives, and ecological thinking is very important to many of them.”

Jari Honkonen, Project Manager, Helsinki Region Multi-Modal passenger Information System

“The success of GO is explained by the fact that it was designed to bring together two views of the Airport Business: operational and management.”

Rui Alves, COO, Oporto Airport

“In the BICC, the top priority is to concentrate on the internal customers. Today, a structure changed by 180° as well as optimised processes in the department allow us to implement projects in parallel, without compromising punctuality or quality!”

Dominic Marx, Head of BICC, DB Schenker Rail

“Latest customer satisfaction ratings have clearly improved. Large dramatic crashes have decreased. Also, unnecessary idling of busses has been reduced, now that the system leaves a trace…”

Michael Andersson, Technical director, Helsingin Bussiliikenne
CGI Offerings

**IoT consulting** – to help clients identify and pursue opportunities for realizing the full value of the Internet of Things

**IoT business enablement** – to develop end-to-end IoT services using a standard cloud-based platform for collecting data and development of applications based on modular building blocks

**IoT business solutions** – to provide innovative, off-the-shelf, end-to-end solutions in business areas such as smart cities, smart utilities, electric vehicle charging and journey planning

**M2M connectivity platforms for telecom providers** – to help telecom clients implement their own high-performance M2M platforms, drawing upon our experience in designing and building leading M2M platforms

*Connect* assets | *Build* as services | *Operate* as services
Clients benefit from CGI’s value proposition

- Out of the box scalable services
- Repeatable and integrated services
- Growing eco-system offering new services out of the box
- Rapid development ability, low entry level prototyping functionality
- Pay per use models
- Global availability with standard internationalization
- Ability to realise a short time to market

With our deep market knowledge and our platform we are empowering organisations to deliver strategic change through the “Internet of Things”
Available for all sectors

**Banking & insurance**
- Future payment solutions

**Transport & infrastructure**
- Connected vehicle solutions

**Buildings & facilities**
- Remote management

**Energy & power**
- Smart metering
- Smart grid

**Retail & commerce**
- Intelligent Supply chain

**Health and social care**
- Mobile health “H2H”

**Security & infrastructure**
- Integrated management of assets

**Industrial automation**
- Manufacturing Execution

**Service delivery**
- Efficient & effective service delivery
CGI’s Credentials
CGI external recognition for IoT Systems

CGI won the 2014 Esri Honours Outstanding Partner Awards for their state-of-the-art solution, SIGMA.

CGI and ProRail: Won the SAP-Microsoft Unite Partner Connection Innovation Award on June 4 2014.

Electric vehicle charge point service E-laad: Won a Computerworld Award in 2010.

CiMS was shortlisted as one of the finalists in the category 'Best Mobile Innovations for Utilities' for the Global Mobile Awards 2011.

CGI's work with Telent: Won the Microsoft Partner of the Year Award for Intelligent System Service 2014.


NASSCOM®
Market facing innovation with Hygieia: won the runner up at NASSCOM Innovation Awards 2012.

Helsinki trip planner: Open Data Award in 2011 and rated second best public mobile service in 2012.

CGI’s NS app (Dutch National Railway): Won the 2013 Rotterdam Design Public Prize for their real-time seat information application that CGI helped produce.

Renewable energy for EDP: Technology Innovation of the Year Award for Excellence in Renewable Energy 2011.


EMO chosen from over 400 entries as a finalist in the Transport category for IET Innovation Awards 2011.
In the media 2014

**The Sunday Telegraph**

**Raconteur**

**USING THE INTERNET OF THINGS**

Many people broadly understand the concept of the internet of things and the promise of disparate devices talking to each other, yet they often struggle to see how this will immediately relate to their own business.

**Intelligent Enterprise**

**Making the Internet of Things a reality**

**Giving cities a lift with the Internet of Things**

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**CGI Newsroom**

**Media announcements**

**Volvo Car Group selects CGI for security services**

Stockholm, Sweden, July 7, 2014 - CGI (NYSE: GIB) (TSX: GIB.A) has signed an agreement with Volvo for the delivery of authentication certificate services, that will provide each car with individual and securely accessed online services from Volvo Cars. The contract also includes related operation and support services.

The use of apps in cars is on the rise. Car owners today can access a variety of digital services from their cars, such as navigation, traffic and maintenance tools and information. Together, CGI and Volvo develop a certificate solution that enables secure online connections in Volvo cars using the same security technology used for Internet-based applications and authentication.

Every Volvo car will be provided with its own certificate (i.e., an electronic ID document for authorization when connecting to online services). Each certificate will be installed when the car is manufactured, ensuring reliability and integration with Volvo's manufacturing systems, market service and cloud environment.

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**The Times**

**How the IoT allows firms to create more innovative services**

"I've always wanted to get a perspective related to how companies are evolving to meet new opportunities, especially with the emerging Internet of Things. It's great to be connecting with clients around the world, gathering the best from their teams and systems, and transforming that into solutions business that drive innovation, productivity and profitability." - Thierry Lorange, Executive Chairman, IMD, Switzerland.

CGI and Microsoft have joined forces to create a unique virtual campus for the Internet of Things (IoT) to foster innovation and collaboration.

"This is an incredibly exciting opportunity that enables companies to break boundaries in the way they think about the future of their businesses, particularly as the Internet of Things continues to evolve. The IoT is driving innovation across all industries, creating new opportunities and challenges. It is critical that we work together to help companies navigate these changes and unlock the potential of the IoT." - Thierry Lorange, Executive Chairman, IMD, Switzerland.

CGI and Microsoft are partnering to create a virtual campus for the Internet of Things (IoT) that will provide a platform for companies to collaborate, learn and innovate. The campus will be open to companies from all industries, including those in manufacturing, retail, finance, healthcare and more. This partnership will help companies leverage the potential of the IoT to drive innovation and growth.

CGI and Microsoft have joined forces to create a unique virtual campus for the Internet of Things (IoT) to foster innovation and collaboration. The partnership will provide companies with a platform to collaborate, learn and innovate, helping them to navigate the challenges and opportunities presented by the Internet of Things. The campus will be open to companies from all industries, including those in manufacturing, retail, finance, healthcare and more. This partnership will help companies leverage the potential of the IoT to drive innovation and growth.

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Microsoft ISS Private Preview Video

http://www.youtube.com/watch?v=NYpdNGl1hco

Published on 15 Apr 2014
See how talent is transforming its business with new services for the world’s first underground railway.
Video

IBOR

Smart cities with CGI’s IBOR solution


PRORAIL and CGI develop the SIGMA system

https://www.youtube.com/watch?v=xPJMEI1-IIE
Delivering value to clients

CGI worked closely with E-laad.nl and Alfen (who make charge points) to develop the end-to-end Charge point Interactive Management System (CiMS). CiMS tracks the location, condition and status of each individual charge point. It manages payments quickly and securely and runs in the cloud. CiMS gave E-laad.nl a quick, easy way to make their vision of a national electric vehicle charge point network a reality.

Value delivered

- The system works with any brand of charging point
- The system is compatible with each of the partners’ own systems
- E-laad.nl has a network of more than 2,500 charging points in ca. 300 municipalities across the Netherlands.

CGI implemented a successful project for the Dutch Ministry of Infrastructure and Environment, managing highway lighting, using IBOR, CGI’s complete service platform based on Microsoft Azure’s Cloud technology that manages assets in public or private spaces.

Value delivered

- Achieved cost savings on (public) infrastructure and objects
- Reduction in CO2 levels
- Improvement in (public) security

A smartphone application, ultimately aimed at becoming a personal public transport ‘satnav’ for each passenger. This unique project, supported by Transport for Greater Manchester designed, developed and demonstrated a virtual travel planning assistant service for public transport passengers.

Value delivered

- Providing multi-modal journey planning to passengers in an accessible, user friendly way
- Enabling the public to make smarter transport choices based on “live” information
- Additional useful in-journey information including bus arriving at their stop
Delivering value to clients

After the successful implementation of a pilot project to install photo radars at 15 sites in a particular area, CGI now maintain this system with a Transport ministry. CGI uses communication and collaboration models and risk management to prioritize the project’s critical activities. The aim and outcome of this project was around improving road safety.

CGI worked on the European Commission funded CVIS initiative and the Dutch Government SPITS program, developing in-car and infrastructure technologies that will transform how vehicles communicate with each other and the broader transport network.

With support of the police forces in the city of Groningen CGI developed ComproNet, an intelligent sensor-based engine that collects and analyses emergency information on social networks, such as Twitter, to enable quicker incident response using mobile devices and civil participation mechanisms.

Value delivered

- A full return on its investment during the pilot project
- After 6 months, red light offences had dropped by 83%
- 64,000 statements of offence were issued in the first 10 months

Value delivered

- Cooperative vehicles pilot
- Real-time response to traffic demands
- Effective management of traffic networks
- Achieve maximum utilization and efficiency

Value delivered

- Fast response to incidents in the city
- Enables civil participation
- Enables the police to solve crime faster
- Increases public safety
SAT-LX is an advisory warning system for level crossings (developed as a proof of concept with the European Space Agency) that can be easily deployed to remote level crossing sites to provide road users timely information about approaching trains using satellite technology. This innovative solution is designed to improve safety at these remote locations, whilst minimising the costs that make investment in conventional systems difficult to justify.

- Up-to-date, reliable information to level crossing users
- No reliance on trackside power or communications supply
- Low unit-cost, easily deployable and maintainable
- Built on proven technology
- Enables condition based remote monitoring

CGI are managing delivery of the worlds largest Intelligent Transport System across Saudi Arabia, ATVAM (Automated Traffic Violations Administering and Monitoring). The program deploys over $1Bn of new law enforcement, traffic management and security systems across all 8 main cities and achieves a world first of integrating these three streams using bespoke software in the 11 new-build Command and Control Data centres.

- Improved traffic safety, reduced fatalities, casualties and non-injury vehicle conflicts
- Enhanced capacity of existing road networks through improved traffic flow and dynamic re-routing
- Increased security through automated wanted vehicle tracking and automated security forces deployment

ProRail aim to provide a safe, reliable, punctual and sustainable rail network. To perform this ProRail and CGI developed a state-of-the-art IT solution, named SIGMA, that enables employees to manage the condition of the rail lines and combine design and measurement-data of the railroad track in multiple dimensions on a geographical information system.

- Effective management of the rail track
- Help improve punctuality of trains
- CGI were announced winners of the 2014 Esri Honours Outstanding Partner awards for this application named SIGMA
Delivering value to clients

Predictive maintenance can enable TKE to be proactive rather than reactive, which can help with resource planning, cost forecasting and scheduling of maintenance and downtime. This enables them to provide a more competitive offering to their end user customers.

A large amount of data and its smart analysis has resulted in smoother bus traffic, more satisfied passengers and benefits for the environment. To gather more accurate details to support Helsinki Busses operations, sensors and data collection equipment were installed in their busses. The solution has provided valuable details on routes and even drivers.

Integration of telent’s platform onto a new environment, powered by Microsoft’s Azure based ISS service simplified the IT structure enabled more sophisticated predictive modelling. And the data is available in a central location to provide access to needed information on mobile apps, via a Web browser or through text alerts.

**Value delivered**

- Potential for a truly global solution that can be rolled out to over 700K elevators
- Enabling engineers to be appropriately informed for resolutions
- Access to advance analytic tools

**Value delivered**

- Improved driver technique
- Smoother and environmentally friendly driving style
- Improved customer satisfaction
- Reports indicate double-digit percentage differences in fuel consumptions between drivers

**Value delivered**

- Enable migration of existing asset monitoring application to run in the cloud and replace on premise solution
- Access to advanced analytics to improve insights and decision making.
- Deliver a scalable solution
Our commitment to you
We approach every engagement with one objective in mind: to help clients succeed