

Technology Trends

Technology Trends <u>Tendances Technologiques</u>	
	
Trend Template	Technology Trends.docx
Other Related Publications	Architecture Framework Advisory Committee
	User Guide
 Recent additions include Blockchain , Drones , Internet of Things , Low Code Application Development , Open by Default , Zero Trust Network	

In an effort to better support its mandate of providing innovative Information Technology (IT) services to Government of Canada (GC) departments and agencies, Shared Services Canada (SSC) is actively researching and evaluating emerging technology trends. This research aims to Inform and prepare SSC, and the broader GC community, to handle new disruptive technologies that are just over the horizon by outlining potential benefits, impacts and use cases.

Technology trend briefing papers are the vehicle used to convey the research conducted on a given subject. These briefing papers are short, to the point, and are targeted towards both a business and technical oriented readership.

SSC is looking to the broader GC community to contribute and collaborate on existing and future topics. By fostering a more collaborative and inclusive development approach, we hope to reduce GC research duplication and accelerate the development of technology roadmaps across government by referencing common GC documentation.

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Format

Each technology trend briefing paper follows a common template:

- **Business brief** describes the business aspect of the technology by offering a high level understanding, the origin and the uses.
- **Technical brief** gives an in-depth description of the technology. It focuses on the most important technical aspects of the technology without going into too much detail.
- **Industry usage** offers an understanding of how the technology is currently used or thought to be used in the industry when commercially available. This section clarifies the benefits of the technology through examples.
- **Canadian Government use** details how the technology is currently used or thought to be used in the context of the Federal Canadian Government when commercially available. This intent is to provide an understanding of how the technology could ultimately benefit the federal government in regards to the delivery of services to Canadians through short examples.
- **Implications for Shared Services Canada (SSC)** demonstrates the clear and measurable benefits that pertains to Shared Service Canada when adopting the use of the technology. This section is comprised of these following subsections :
 - **Value proposition** illustrates the potential strengths and opportunities that SSC can encounter by leveraging the technology.
 - **Challenges** outlines the risks and difficulties associated with the technology that includes both risks of implementation such as the development of the product or the risks of solution by adopting the technology.
 - **Considerations** presents any recommendations SSC may have for another department of the Government of Canada that wishes to adopt and leverage the technology.

Development Process

External market trends, private-public sector reports, online trends and Government of Canada strategic plans are all factors considered when selecting a topic for development. Once a topic is selected for development, it undergoes a five phase development process prior to publishing.



How to Contribute

We want your help! Our goal is to ensure that the content generated is developed in the open, routinely kept up to date, representative of the wide ranging GC departmental mandates and widely distributed to the broader Canadian Government community. To that end, we strongly encourage you to share, edit and provide feedback on the published content.

You can edit by making use of the “Discussion” tab located at the top-left of the page.

Should you wish to sponsor and or author a topic not listed below, please reach out to [Jean-François Michaud \(mailto:jean-francois.michaud@canada.ca\)](mailto:jean-francois.michaud@canada.ca)

Technology Trend Briefing Papers

Name	Status	Release Date	Official
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				Publications
<u>Blockchain</u>	- <u>Chaîne de Blocs</u>	Published	2019-05-23	<u>EN</u> - <u>FR</u>
<u>Drones</u>	- <u>Drones</u>	Published	2019-07-04	<u>EN</u> - <u>FR</u>
<u>Internet of Things</u>	- <u>Internet des Objets</u>	Published	2019-07-04	<u>EN</u> - <u>FR</u>
<u>Low Code Application Development</u>	- <u>Développement d'Application Programmation Schématisée</u>	Published	2019-05-23	<u>EN</u> - <u>FR</u>
<u>Open by Default</u>	- <u>Ouvert par Défaut</u>	Published	2019-05-23	<u>EN</u> - <u>FR</u>
<u>Zero Trust Network</u>	- <u>Réseaux Zéro Confiance</u>	Published	2019-05-23	<u>EN</u> - <u>FR</u>
<u>5G Networks</u>	- <u>Réseaux 5G</u>	Published	2019-07-23	<u>EN</u> - <u>FR</u>
<u>Big Data</u>	- <u>Mégadonnées</u>	Published	2019-07-23	<u>EN</u> - <u>FR</u>
<u>Edge Computing (Serverless Computing)</u>	- <u>Informatique en Périphérie (Informatique sans Serveurs)</u>	Published	2019-07-23	<u>EN</u> - <u>FR</u>
<u>Face Recognition</u>	- <u>Reconnaissance Faciale</u>	Published	2019-07-23	<u>EN</u> - <u>FR</u>
<u>Datalakes</u>	- <u>Lacs de Données</u>	Published	2020-01-28	<u>EN</u> - <u>FR</u>
<u>Software Defined Anything</u>	- <u>Tout Défini par Logiciel</u>	Published	2020-01-29	<u>EN</u> - <u>FR</u>
<u>SCADA system</u>	- <u>Systèmes SCADA</u>	Published	2020-01-29	<u>EN</u> - <u>FR</u>
<u>Low-Earth Orbit System</u>	- <u>Système en Orbite Terrestre Basse</u>	Published	2020-01-30	<u>EN</u> - <u>FR</u>
<u>Data Leak Prevention</u>	- <u>Prévention des Fuites de Données</u>	Published	2020-01-30	<u>EN</u> - <u>FR</u>
<u>Cloud Management Platform</u>	- <u>Plateforme de Gestion d'Infonuagique</u>	Published	2020-02-03	<u>EN</u> - <u>FR</u>
<u>Enterprise Application Stores</u>	- <u>Magasins d'Applications d'Entreprise</u>	Published	2020-02-03	<u>EN</u> - <u>FR</u>
<u>Digital Twins</u>	- <u>Jumeaux numérique</u>	Published	2020-02-03	<u>EN</u> - <u>FR</u>
<u>Kubernetes</u>	- <u>Kubernetes</u>	Published	2020-02-04	<u>EN</u> - <u>FR</u>
<u>Digital Assistants (Conversational UI)</u>	- <u>Assistants Numériques (Interface Conversationnelle)</u>	Published	2020-02-05	<u>EN</u> - <u>FR</u>
<u>Application Containers</u>	- <u>Conteneurs Logiciels</u>	Published	2020-02-20	<u>EN</u> - <u>FR</u>
<u>Cloud Workplace (Office)</u>	- <u>Bureau Infonuagique</u>	Published	2020-02-21	<u>EN</u> - <u>FR</u>
<u>Augmented and Virtual Reality</u>	- <u>Réalité augmentée et virtuelle</u>	Published	2020-02-24	<u>EN</u> - <u>FR</u>
<u>Crowdsourcing</u>	- <u>Production participative</u>	Published	2020-03-02	<u>EN</u> - <u>FR</u>
<u>Gamification (Innovation Framework)</u>	- <u>Ludification (Cadre d'Innovation)</u>	Published	2020-04-09	<u>EN</u> - <u>FR</u>
<u>3D Xpoint</u>	- <u>3D Xpoint (Optane)</u>	Published	2020-04-14	<u>EN</u> - <u>FR</u>
<u>Infrastructure as Code</u>	- <u>Infrastructure en tant que Code</u>	Translation	2020-02-10	<u>EN</u>
<u>Digital Services</u>	- <u>Services Numériques</u>	Translation	2019-11-15	<u>EN</u>
<u>Autonomous Vehicles</u>	- <u>Véhicules Autonomes</u>	Translation	2020-03-06	<u>EN</u>
<u>Interoperability (Tell Us Once)</u>	- <u>Interopérabilité</u>	Development	2019-07-23	
<u>AI (Machine Learning)</u>	- <u>IA (Apprentissage Automatique)</u>	Development	FY 19-20 Q2	
<u>Quantum Computing</u>	- <u>Informatique Quantique</u>	Development	FY 19-20 Q3	

Robotics - Robotiques	Development FY 19-20 Q3
Data Centre Infrastructure Monitoring - Surveillance de l'Infrastructure du Centre de Données	Unassigned FY 19-20 Q4
Digital / Smart Offices - Bureaux Digitales / Smart	Unassigned FY 19-20 Q4
Enterprise Collaboration - Collaboration d'Entreprise	Unassigned FY 19-20 Q4
Intent Based Networking - Réseaux basé sur l'Intention	Unassigned FY 19-20 Q4
IT Talent - Talent Informatique	Unassigned FY 19-20 Q4
Pay as you go - Pay as you go	Unassigned FY 19-20 Q4
<u>Policy as Code</u> (Rules as Code) - Politique en tant que code (Règles en tant que code)	Development FY 26 Q4

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