FACTSHEET
Capability Centres

GovTech will lead the Singapore Public Sector's digital transformation in the delivery of anticipatory and citizen-centric government digital services. Towards this end, GovTech will set up six Capability Centres to strengthen Public Sector engineering expertise and build the government's capabilities in emerging technologies. GovTech will focus on developing technical expertise and specialists in these six areas of emerging tech:

- Application Development (covering Software Design & Development and Solution Architecture)
- Data Science
- Government ICT Infrastructure
- Geospatial Technology (jointly with Singapore Land Authority)
- Cybersecurity (jointly with Cyber Security Agency)
- Sensors and IoT

The Capability Centres will enable GovTech to develop and deliver innovative citizen-centric products and services across the whole-of-the government, in collaboration with Ministries and Statutory Boards.

The multidisciplinary team of data scientists, analysts, software developers and engineers will also have the opportunity to work with leading experts in research institutes and the private sector, both local and overseas, to further develop their expertise in the Capability Centres.

1) *Application Development Capability Centre*

The centre will deliver citizen-centric solutions and create a strong software engineering foundation within the public service. It will ensure the deployment of well-designed and modern digital services and applications architecture, through the use of the latest technology and methodologies (such as Agile, user experience design, quality engineering, DevOps and platform as a service). The centre will support the government to continuously improve, integrate and deploy human-centric digital services to our citizens, while ensuring that these services are scalable, resilient and reusable.

2) *Data Science Capability Centre*

The centre will enable GovTech and other public agencies to formulate effective policies and deliver citizen-centric services through data-driven insights and decision-making. This will enable evidence-based policy making, enhanced productivity in public service provision and better targeted services to meet citizens' needs.

3) Government ICT Infrastructure Capability Centre

The centre will focus on building capabilities in architecting and designing secure, resilient and cost-effective public sector's ICT infrastructure covering data centres, networks, platforms, end-points and system operations. The centre will also spearhead assessment and applicability of new technologies in these domains and develop compelling use cases to encourage adoption.

4) Geospatial Technology Capability Centre (Jointly with SLA)

The centre will enable GovTech and public agencies to leverage on Geographic Information Technology (GIT) to deliver location-enabled citizen-centric services. This includes building up design and development capabilities related to geospatial data model and management, 3D geospatial and positioning technologies.

5) Cybersecurity Capability Centre (Jointly with CSA)

The centre will drive a holistic and sustainable whole-of-government approach that delivers innovative and forward-thinking cybersecurity capabilities to safeguard public ICT infrastructure and enable Singapore to be a safe and secure Smart Nation.

6) Sensors and IoT Capability Centre

The centre will look into the design and implementation of a whole-of-government Internet of Things (IoT) infrastructure that is built on the larger Smart Nation Platform. This infrastructure will enable connectivity by smart objects - including static and mobile ones (comprising wearables, sensors, mobile devices, etc) - and facilitate high speed transmission of data from the sensors. The centre will also build up the government's capabilities in new, emerging technologies and also collaborate with commercial organisations, research institutes and public agencies to experiment with and pilot new technologies to address their problems.

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