HARNESSING GOVERNMENT DATA FOR VALUE CREATION
CALL-FOR-COLLABORATION (CFC)

The Infocomm Development Authority of Singapore (IDA) and the Ministry of Finance (MOF) are jointly issuing this Call-for-Collaboration ("CFC") to invite companies to submit proposals on the development, deployment and adoption of applications that make use of government data. This CFC will be a multi-agency collaboration with the Department of Statistics (DOS), Energy Market Authority (EMA), Health Promotion Board (HPB), Land Transport Authority (LTA), National Environment Agency (NEA), National Library Board (NLB), National Parks Board (NPARKS) and the Singapore Land Authority (SLA).

The objective of this CFC is to harness the value of government data to:
- Empower the general public with information and the ability for informed decision-making
- Enable business enterprises to improve productivity, enhance planning and create new value.

This CFC invites organisations (ICT companies, end-user business enterprises, trade associations, Institutes of Higher Learning, non-profit organisations and more) to propose solutions **using government data** in the following areas:
- Applications that can be used by the people and/or private sectors
- Data Services to create derived datasets, and for sharing via suitable platforms

Proposals submitted for this CFC **must make use of at least one government dataset** from any of the following focus areas: **Business Planning, Conservation and Environment, Contextual Content, Connecting People; Optimised Mobility** and **Healthy Lifestyle (see Annex A)**.

The Government data sources include the data.gov.sg (http://www.data.gov.sg) and OneMap (http://onemap.sg) portals.

Interest in the use of government data can be seen from the success of the recently concluded **ideas4apps Challenge** where members of the public were invited to submit ideas on the types of useful applications that they would like to be developed using government data. The Challenge received more than 700 ideas from finding out about tidal information and utilities consumption to seeking information about nature reserves and parks. Details on the contest and winning ideas can be found in the data portal.

More information on using Government Data

Government data can be used in innovative ways. By leveraging on the relevant technologies, government data can be used for the following:

- **Informed decision-making**. Government data can be analysed using business intelligence software and data visualisation tools and methods. This will allow the business or citizens users to derive trends and patterns to forecast, plan and make better decisions.
- **Improve Productivity**. Businesses can use government data for better planning of day-to-day business operations in order to optimise its resources and improve its processes.

- **Derived datasets**. Government data can also be combined with data from other sources to add to the insights and analyses.

Interested parties may refer to http://www.data.gov.sg for more information on the CFC.

Annex A – Focus Areas

Focus Area	Description	Participating Agency(s)
Business Planning	Provide strategic insights and information for the private sector to aid in their business activities such as planning, strategy and process optimisation.	IDA
Conservation and Environment	Present and use pertinent information on conservation and environment in areas such as weather, conservation of electricity, flora and fauna in innovative manners that can allow informed decisions to be made on a daily basis.	EMA, NEA, NParks
Contextual Content, Connecting People	Utilise the library's data to create multiple feedback and contribution channels that allows the library to create an information ecosystem for greater handling of information and better discovery experience for consumers, by connecting consumers with the libraries' growing content (e.g. digital content, AV materials, catalogues, etc.) and services (information search, curation, etc.).	NLB
Healthy Lifestyle	Combine and present data in the areas of health such as nutritional foods, public health and healthcare facilities to empower individuals to make appropriate choices when necessary.	HPB, NEA
Optimised Mobility	Harness information on road and public transport networks for use by various target segments such as general commuters, the mobility-challenged and business enterprises, to make informed mobility decisions even through unwarranted situations such as traffic incidents or adverse weather conditions.	LTA

Data.gov.sg

Data.gov.sg is the first stop portal to discover publicly-available government data, where people can access <u>more than 7,000 publicly-available datasets from 57 public agencies</u>, tap into selected datasets to create applications or conduct research, and look for interesting applications developed using government data.

Data.gov.sg has the following features:
- Data Catalogue for the public to search for and download government data
- Applications Showcase featuring applications developed by students, start-ups and public agencies using government data
- Resource page to support the efforts of application developers

Data.gov.sg also helps to:
- **Make it easier to discover government data.** Today, while many public agencies are already sharing publicly available data and statistics on their websites and publications it is not always easy for the public and researchers to locate them. Data.gov.sg seeks to provide convenient access to these data through an easy-to-use Data Catalogue.
- **Catalyse applications development.** Most of the government data published are currently in non-machine-readable formats. Data.gov.sg seeks to make more government data available in machine-readable formats over time so that application developers can use them to develop innovative applications and services.

Data that can be used to create applications fall into a few broad categories:
- Weather Data, such as NEA's weather updates
- Geospatial Data on the location of amenities such as the location of Recycling Bins and Hawker Centres, Kindergartens and Childcare Centres from agencies like NEA and MCYS.
- Real-time Traffic Data, such as LTA's traffic camera updates.

These data can be accessed via the Data Catalogue at www.data.gov.sg.

Applications developed using government data can be listed at the Applications Showcase for sharing with a wider audience. (*See Appendix A for a description of some of the applications that are featured in the Applications Showcase*)

More information on data.gov.sg

Creating Value through Government Data
As part of the data.gov.sg initiative, IDA worked with Mobile Alliance of Singapore to incorporate the use of government data in Mobile Alliance's AppVenture Challenge, a programme that featured workshops and a competition on mobile application development.

Start-ups and students from several polytechnics participated in this programme and their efforts to develop applications using government data are showcased in data.gov.sg.

Appendix A

Mobile applications developed by start-ups and students

Parks "Live" @ SG (Augmented Reality Edition)

Developed by students of Nanyang Polytechnic with data from NParks, Parks "Live" improves the user experience for visitors to Pasir Ris Park. The application helps park visitors to find the location and direction to all park attractions and amenities such as restrooms, shelters and barbecue pits. The application also has an augmented reality function, which gives users exact directions and distances to attractions, amenities and facilities within the park.

ShowNearby

ShowNearby is a mapping application that combines data from the government and private data sources. Some of the government data used by the application are from the Ministry of Community, Youth and Sports, Majlis Ugama Islam Singapura, National Library Board, National Heritage Board and Ministry Of Education. The application provides users with points-of-interest information, telling them the nearest amenities and places of interest from their current location.

SG Parking

SG Parking is a mobile application created using Land Transport Authority data to allow users to find parking rates in specific carparks in Central Singapore. It allows fast and quick searching by address, building or area name and allows users access to real-time parking availability in Orchard, Marina Centre and Harbour Front regions.

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