data.gov.sg Discovering data, Inspiring ideas Sharing with NUS

15th March 2012 Presented by Lo Yoong Khong, Director, GCIO, IDA



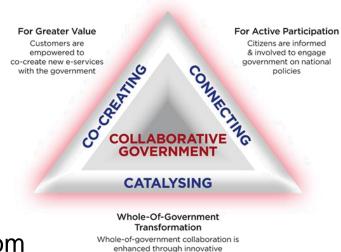
Agenda

- 1. Introducing data.gov.sg
- 2. Challenges
 - Infrastructure
 - Supply
 - Demand
- 3. Moving Forward
- 4. Learning Points





- First-stop Portal to access publicly-available government data
- Launched in June 2011
- Part of the eGov Masterplan's thrust on co-creation
- Initiated by MOF and IDA on behalf of the whole-of-government, with strong support from the Department of Statistics and the Singapore Land Authority



and sustainable technologies



- Objectives:
 - Provide convenient access to publicly-available data published by the government
 - Create value by catalysing application development
 - Facilitate analysis and research





Key Features

- A. Data Catalogue
 - Search or browse from over 6,000 datasets from more than 50 government agencies
- B. Application Showcase
 - Share and browse more than 50 applications that have been developed using government data
- C. Resource Page for Developers
 - Publicly-available APIs that have been developed to allow easy access to government data



Examples of apps developed by the People and Private sectors



A free mobile app, created as part of the eGov2015 masterplan, will help you find facilities in Pasir Ris Park, HELLEN TAN reports Deputy Prime Minister Fee Class Flows numbed the manarphan when he operand the offer Global Sochange 2011 creditines and exhibition on Mondey. The plan seeks, among other alon, so involve the private acctor and the public or cross new applications and get involved in public consistences ordine, and

NYP developed an application, 'Parks "Live", using augmented reality technology and data from Nparks.

The app was featured in Digital Life.



Dengue-Lah, a
free app, was
developed by BuUuk
(a private sector app
developer company)
using data from NEA to
meet the needs of
fellow Singapore
residents





Trafficam SG uses live traffic camera data from LTA to enable app users to view traffic conditions via their mobile devices.





Challenges



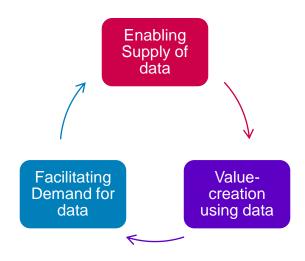
Infrastructure

- Leveraged on existing infrastructure
 - Utilised the OneMap infrastructure which was already developed for use in sharing data via the internet
- Enlisted use of the Government's bulk tenders
- By utilising internal platforms, Gov Agencies published data once only and identify what to share with public
- The above allowed the data.gov.sg Portal to be up for use within a short time period.



Supply and Demand

- data.gov.sg operates on a two-pronged approach to enable co-creation and value-creation using government data
 - Supply of Data Enabling the government agencies to provide data
 - Demand for Data Initiatives targeted at the people and private sector to generate demand and use for government data





Supply - identifying, consolidating

Identifying data for sharing

 Leveraged on relevant initiatives such as i-Singapore call-for-collaboration to understand data needs

 Website scan of relevant international and local websites to identify useful data for sharing

Step-by-step guide

 Created a step-by-step guide for agencies to identify what should be shared to data.gov.sg



Supply - identifying, consolidating

 A central terms-of-use (TOU) for usage of government data was developed.

Key Features of TOU

- States the permissible uses of data downloaded from data.gov.sg
- •Requires users to indicate if they modify data on their use
- •States that data is provided as-is and agencies do not guarantee the accuracy of the data
- •Requires users to agree to indemnify the S'pore Govt from all liabilities due to the use of the data





Supply – identifying, consolidating

- Machine-readable formats
 - Through a WOG effort, agencies were encouraged to share data via machinereadable formats (e.g. xls, csv, txt) where possible
 - These formats were identified based on general feedback and are in-line with other data.gov sites





Demand – <u>sensing</u>, facilitating

Pre-launch App Development Competition

- Leveraged on competition organised by Mobile Alliance that was carried out before the launch of data.gov.sg to understand needs of developers
- Created a category for Best App developed using Government Data
- A total of 18 apps were received

Focus Group Discussions

- Conducted FGDs at various milestones to understand the data needs of free-lance developers and development companies.
- Encouraged open discussion for data requests



Demand - sensing, facilitating



Naryang Polytechnic's (from left) Weinle. Tan, Alan Zha and Melvyn Suan developed a park sevigetion app using Doellap, an interactive map

No getting lost in the park with this app

A free mobile app, created as part of the eGov2015 masterplan, will help you find facilities in Pasir Ris Park. HELLEN TAN reports Deputy Prime Minister Tee Chee lines serveded the manurphan when he operand the eCov Global Exchange 2011 conference and exhibition on Monday.

The plan seaks, among other sizes, to involve the private sector and the public to cream one applications and get involved in public considerations online, and through world movie relations.

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Engaging students and academics

- An ongoing effort to encourage the usage of government data by budding developers and establish the concept and value of co-creation
- Facilitate use of government data for analysis and research
- Engage students to work on agency supplied problem statements in their final year projects

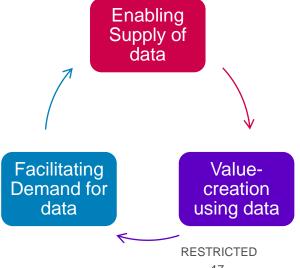


Moving Forward



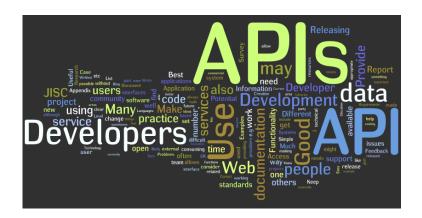
Greater use of supply-demand reinforcing cycle

- Identification of high-value data
 - How to define the "unknown"?
 - Moving forward, the demand-generation activities are expected to spur agencies to share high-value data identified through demand-generation activities
 - This is a reinforcing cycle that allows demand for data to lead to supply, and supply to lead to greater use and value-creation





Enabling APIs



- How to enable more data to be shared via APIs?
- APIs will allow access to data in a more timely manner



Co-Creation Framework

ideas4apps Challenge
Target: People Sector and
Private Sector
Launch Date : Jan '12

Final Year Projects

Target: IHL

Ongoing

Call for Collaboration (CFC)

Target: Private Sector (IT and User Companies)
Launch Date : May '12

Apps Competition
Target: Developers (Freelancers, students, startups)
Launch Date: Q4FY12

- Consists of demand generation activities to drive the innovative uses of government data by the people and private sector
- ideas4apps Challenge
 - Online contest to generate ideas for useful apps using government data
- Call-for-Collaboration
 - A one-off call to provide grants to suitable solutions involving use of government data
- Final Year Projects (as seen earlier)
 - Collaboration with the academic community for students to work on agency-supplied problem statements in their final year projects
- Apps Competition
 - Organise app development competitions to develop useful apps



Generating ideas - idea4apps Challenge

http://ideas.data.gov.sg



SINGAPORE

ideas4apps Challenge

- An online contest to garner ideas from the public on how government data can be used to develop useful applications
- Submission closed on 9th March, with more than 700 submissions.
- Ideas will be put up for public voting in the 4th week of March.
- Cash prizes will be awarded to the top 10 ideas, and the best mobile app ideas.





Learning Points

- Utilise available infrastructure when possible
- Be clear of objectives and desired outcome
- For WOG initiatives, seek leverage from the right stakeholders to influence in needed direction
- Continually engage the people and private sectors throughout the programme to better understand their needs



Thank You

