Open Government Data for Digital Economy

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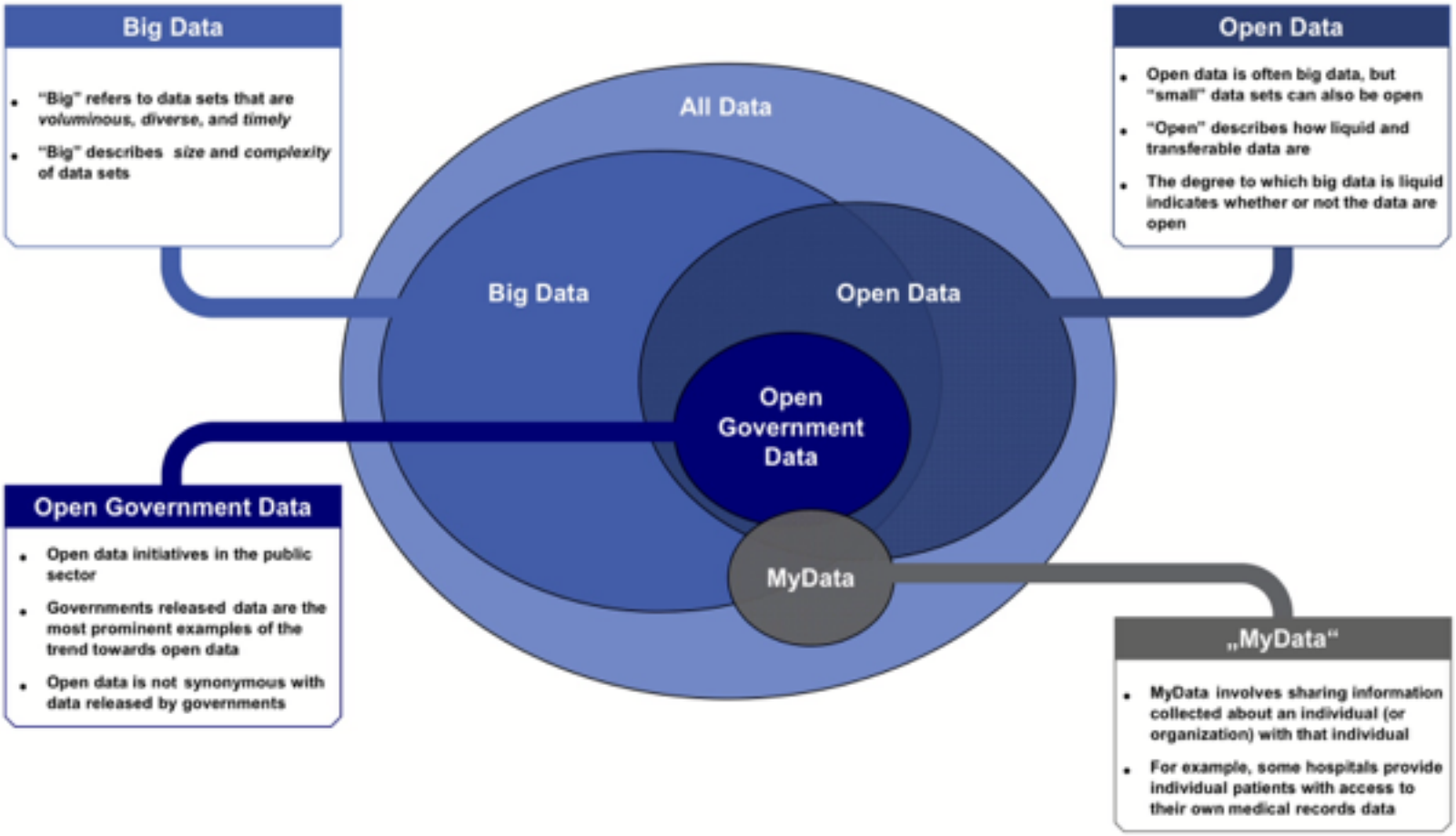
ผู้อำนวยการ
สำนักงานรัฐบาลอิเล็กทรอนิกส์ (องค์การมหาชน)

26 พฤษภาคม 2558

(ร่าง) กรอบยุทธศาสตร์เศรษฐกิจและสังคมดิจิทัล

Open Data
In
a nutshell

How Big Data and Open Data relates to other types of data



Source: McKinsey Global Institute analysis (2013)

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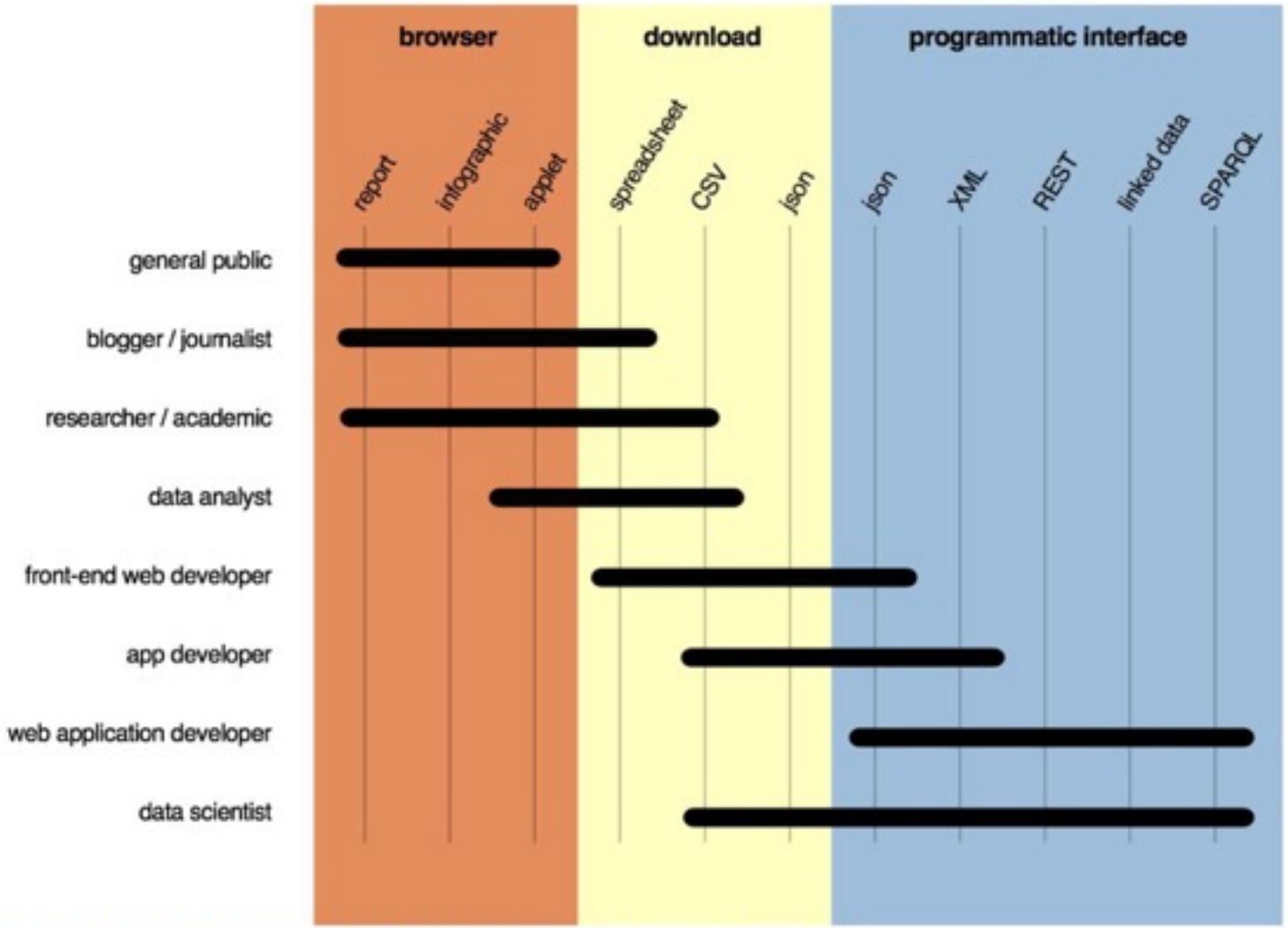
	Government Data	Citizen-Generated Data
Environment	• Air quality • Water quality • Water consumption	• Instant gas consumption/ carbon emission • Instant water consumption
Energy	• Instant power supply • Instant power demand • Energy consumption	• Instant home power demand • Active devices per type
Traffic	• Traffic light map • Number of vehicles per zone • Parking lot status • Traffic cameras	• Consumer GPS location • Traffic-related feeds & microblogs • Geolocated pictures & videos

Crowdsourced Traffic Management

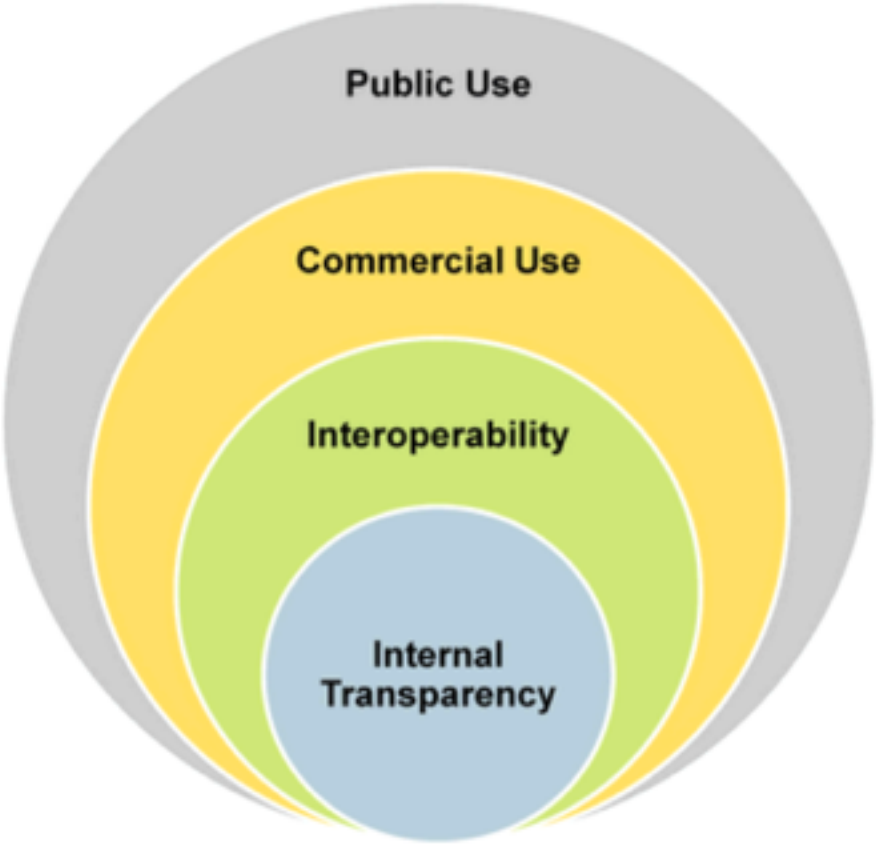
Consumer-Device to Government-Infrastructure

Collaborative Environmental Management


browser
download
programmatic interface
report
infographic
applet
spreadsheet
CSV
json
json
XML
REST
linked data
SPARQL
general public
blogger / journalist
researcher / academic
data analyst
front-end web developer
app developer
web application developer
data scientist

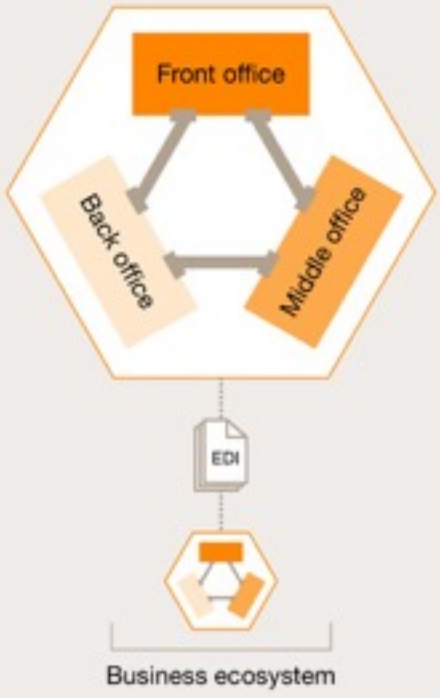
Open Data In Enterprises

Figure 5. The Progression of Opening Data



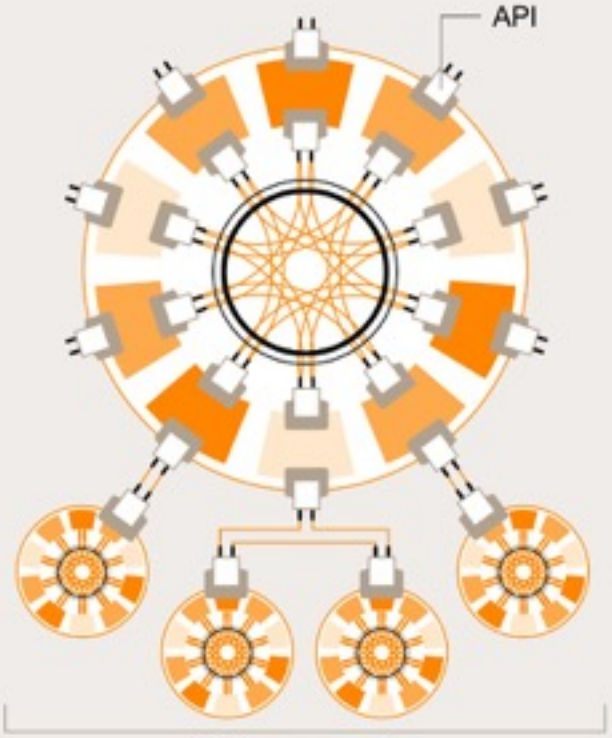
Source: Gartner (January 2014)

A1
Historically, the front, middle, and back offices of an enterprise were integrated point to point by tight coupling, suitable only for a small number of integrations.



A2
With SOA, enterprises adopted an architecture using a service bus for integration, creating loose coupling and the potential for reuse and flexibility. The complexity of integration meant use remained largely internal to the enterprise.

A3
The new architectural principle and programming model based on RESTful APIs reduces integration cost and complexity, so integrations can scale for many internal as well as external uses.



Open Data In Governments

- In 2009, he White House issued an unprecedented Open Government Directive requiring federal agencies to take immediate, specific steps to achieve key milestones in transparency, participation, and collaboration. The Directive https://www.whitehouse.gov/open/documents/open-government-directive

- In 2011, the Administration expanded its support of open government efforts when President Obama launched the Open Government Partnership at the UN General Assembly meeting with seven other heads of state.

- In 2013, President Obama signed an executive order that made open and machine-readable data the new default for government information.

OPEN GOVERNMENT NATIONAL ACTION PLANS

First White House Data Chief Discusses His Top Priorities

DJ Patil talks about how to get more our of public and private information while protecting that data from abuse

March 27, 2015 | By Larry Greenemeier

Data science is not entirely new to Washington, D.C.—nor is DJ Patil, who was recently named as the U.S.'s first chief data scientist. Pres. Barack Obama's administration launched Data.gov nearly six years ago and required all agencies to publish at least three "high-value" data sets to the publicly accessible Web site. Now it is Patil's job, at least in part, to ensure that the government continues to release data in a variety of areas while ensuring that the information is not misused.

"At the top of my list right now is the Precision Medicine Initiative. Science has enabled us to unlock the human genome"

"My second priority is opening up more data and making it available for people [both the government and general public] to build an ecosystem of research, mobile apps and visualizations on top of that information"

"The third main priority is inserting more data capacity into agencies throughout the government. We're seeing a rise of data scientists and chief data officers at the National Institutes of Health as well as within [the Department of] Health and Human Services."

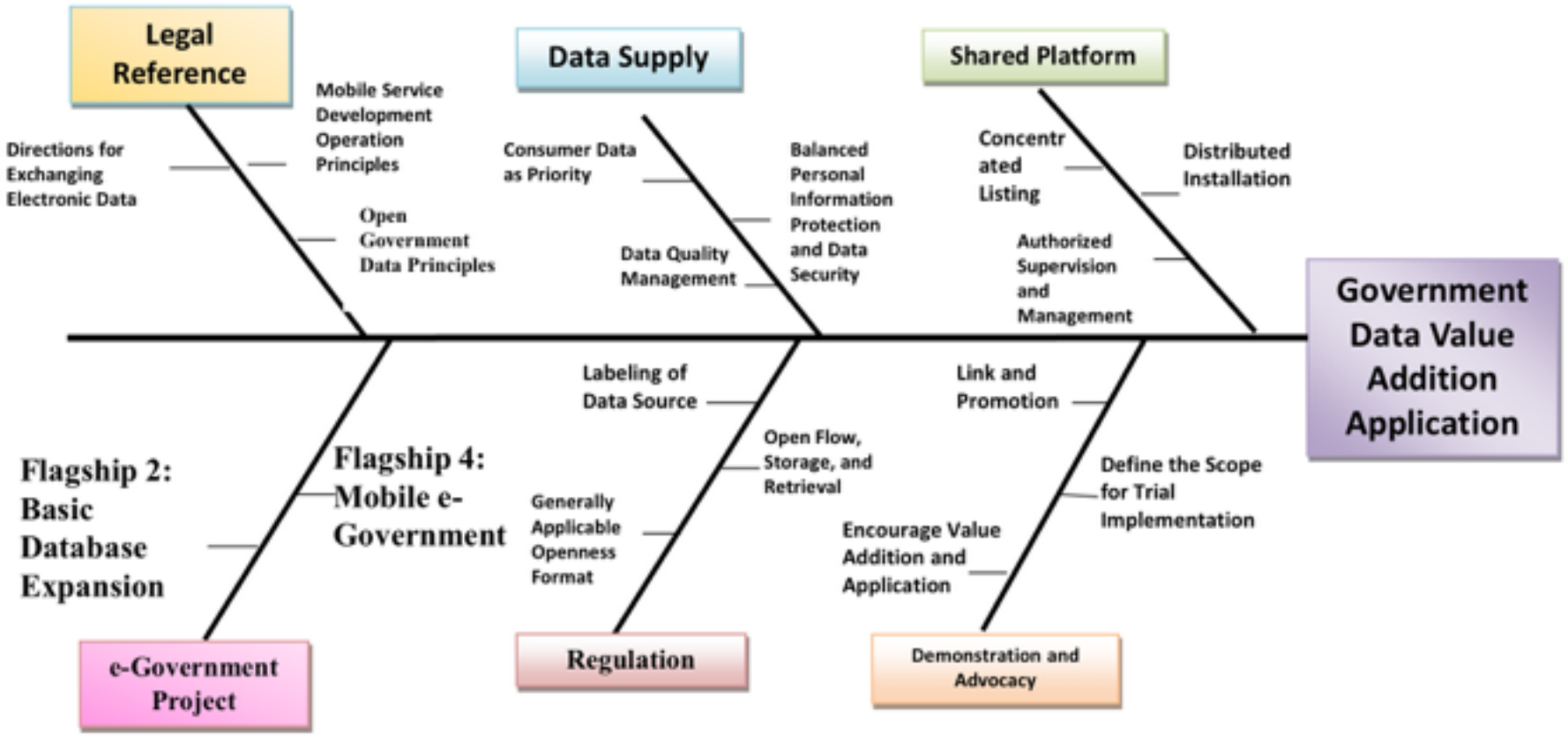
http://www.scientificamerican.com/article/first-white-house-data-chief-discusses-his-top-priorities/?page=1

- In 2009, The Cabinet Office Director of Digital Engagement issued a call for developers to help test the new developers beta. The launch includes a number of datasets in RDF.

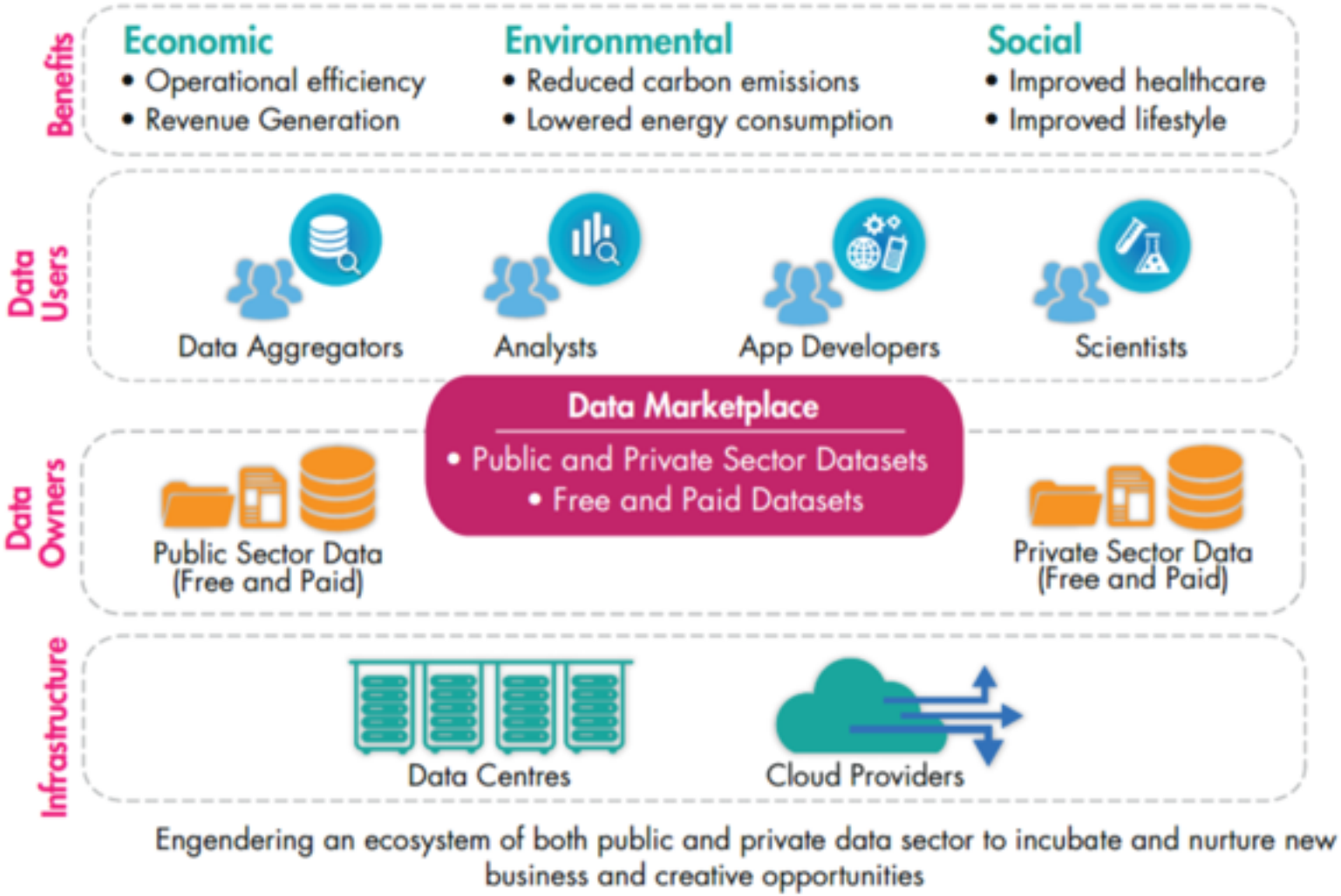
- In 2010, Prime Minister David Cameron sends a letter to government departments asking for specific action on opening up government data and establishes a new ‘Transparency Board' to include Tim Berners-Lee, Nigel Shadbolt, Tom Steinberg (Founder ofMySociety) & Rufus Pollock.

- In 2011, UK joined Open Government Partnership as the member.

DATA.GOV.UK Beta
Opening up Government

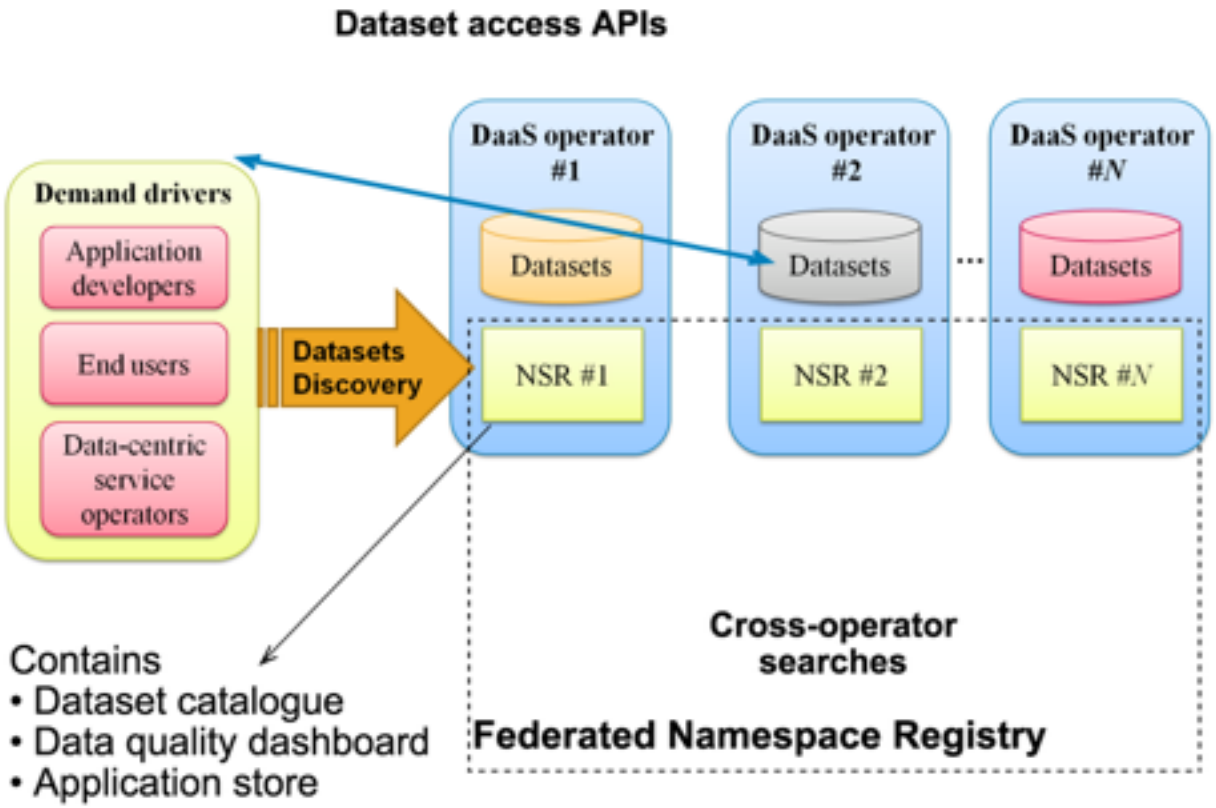

Legal Reference
Directions for Exchanging Electronic Data
Mobile Service Development Operation Principles
Open Government Data Principles
Data Supply
Consumer Data as Priority
Data Quality Management
Balanced Personal Information Protection and Data Security
Shared Platform
Concentrated Listing
Distributed Installation
Authorized Supervision and Management
Government Data Value Addition Application
Flagship 2: Basic Database Expansion
Flagship 4: Mobile e-Government
e-Government Project
Labeling of Data Source
Open Flow, Storage, and Retrieval
Generally Applicable Openness Format
Regulation
Link and Promotion
Define the Scope for Trial Implementation
Encourage Value Addition and Application
Demonstration and Advocacy

Intelligent Operations
To the Cloud: Paperless Receipts
8 billion issued annually
Wrap around the globe 46x
At cost of 80,000 trees
Digitize into the cloud
+ Apps for personal financial mgmt
+ Big data analytics of spending patterns



Engendering an ecosystem of both public and private data sector to incubate and nurture new business and creative opportunities

Data-as-a-Service



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ESTABLISHING THE ONLY TEST DATA BANK IN KOREA

Continue to collect useful public and private data
and use them for facilitating industry and fostering manpower

- Inter-ministerial collaboration
- Open public data (Open API)
- Connection to pilot projects
- Web crawling
- Purchase of global research data
- ⋮

Pilot Project Data
- Healthcare, medicine
- Commercial areas, real-estate
- Real-time weather data
- Transport, Communications, SNS

Public and Private Open Data
- Crime analysis database
- Status of maritime distress
- Remote emergency medical service

Other Data
- Research network traffic log
- Internet traffic data
- Korean map data
- Census data, etc.

SUPPORTING STARTUPS AND S&M VENTURE COMPANIES

Support fostering of data-based startups and global companies that are small yet strong

Environment for Developers

Provide hardware and software resources that are required in the entire process of service development

Startup Competition

Support connecting excellent ideas with startup opportunities

Technology Verification/ Standardization

Support performance verification and standardization of technologies developed in Korea

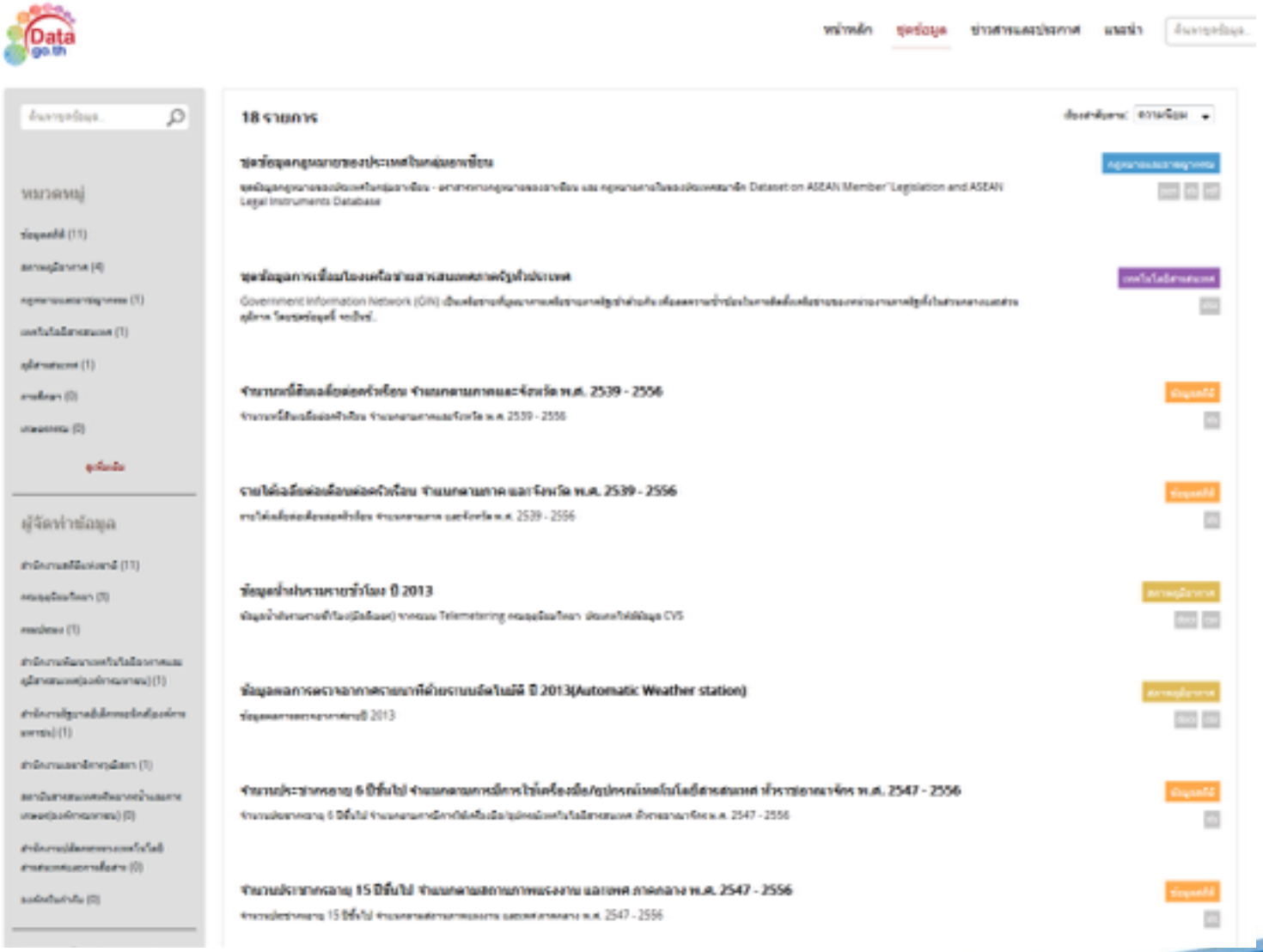
Promote Excellent Technologies

Identify excellent technologies of SMEs and support their market entry

Test Infrastructure for Big Data Analysis and Use

Provide cluster-based hardware resources considering data access security

OGD in Thailand: data.go.th



Open Data World Ranking

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Open Government Data Hackathon

วันเสาร์ที่ 14 มีนาคม พ.ศ. 2558

หาตำบลจาก lat long

วันก่อนเห็นมีคนเอาข้อมูลจาก opendata จาก http://data.go.th/ มาใช้งานวันนี้ผมลองเขียน api สำหรับบอกข้อมูลว่า ณ. location ที่เราอยู่เราอยู่ใกล้ตำบลอะไร จังหวัดอะไร ส่งข้อมูลเป็น lat long ที่เป็นเลขฐาน 10
ไปลองทดลองใช้กันได้ครับที่ http://api.conf.in.th:8081/distance?lat1=100.1&lon1=30.2

What is this data representing ?

“Data is more interesting than information”

--- Sak Segkhoonthod

www.ega.or.th
www.data.go.th
https://www.facebook.com/groups/OpenDataInTh/