



Services

Big and Open Data Working For the Benefit of Citizens

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Microsoft Services



Agenda

Big Data

Concept

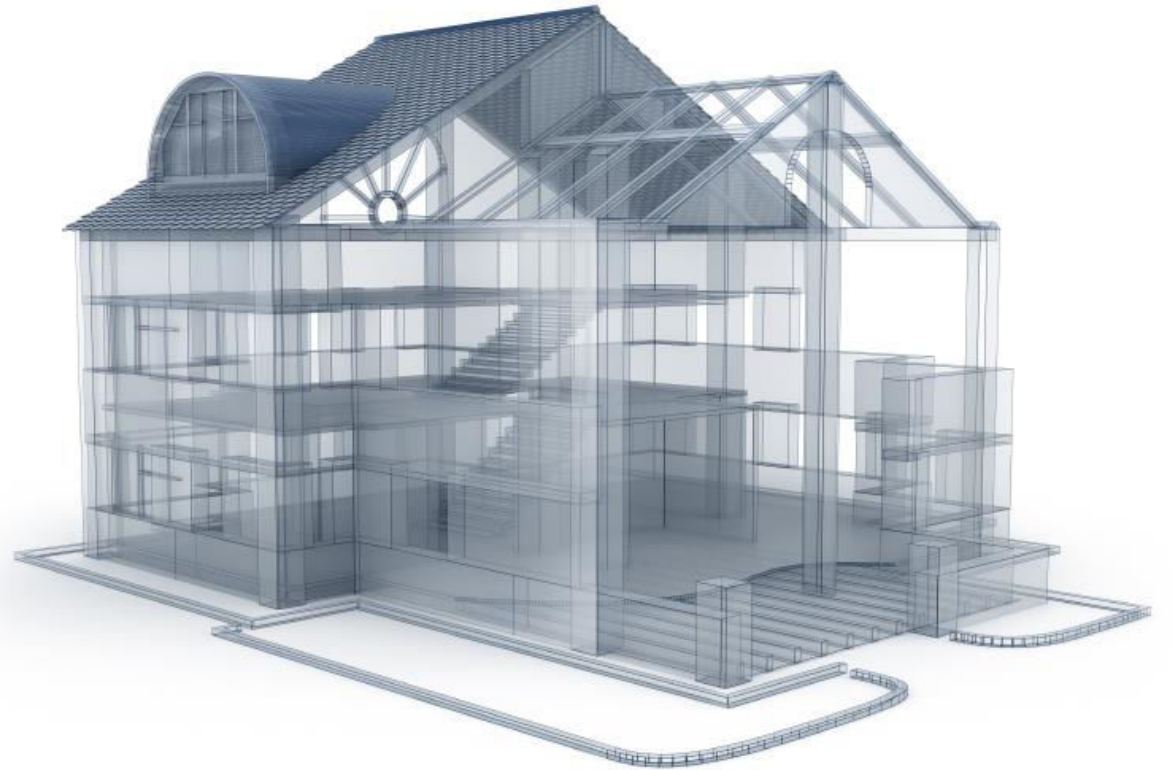
Examples to spark
some new ideas

Open Data

Nature,
Challenges,
Examples,
Suggested approaches



OpenData



Open Government/OpenData Principles

Transparency

Enable greater accountability, efficiency and economic opportunity by making government data more open.

Participation

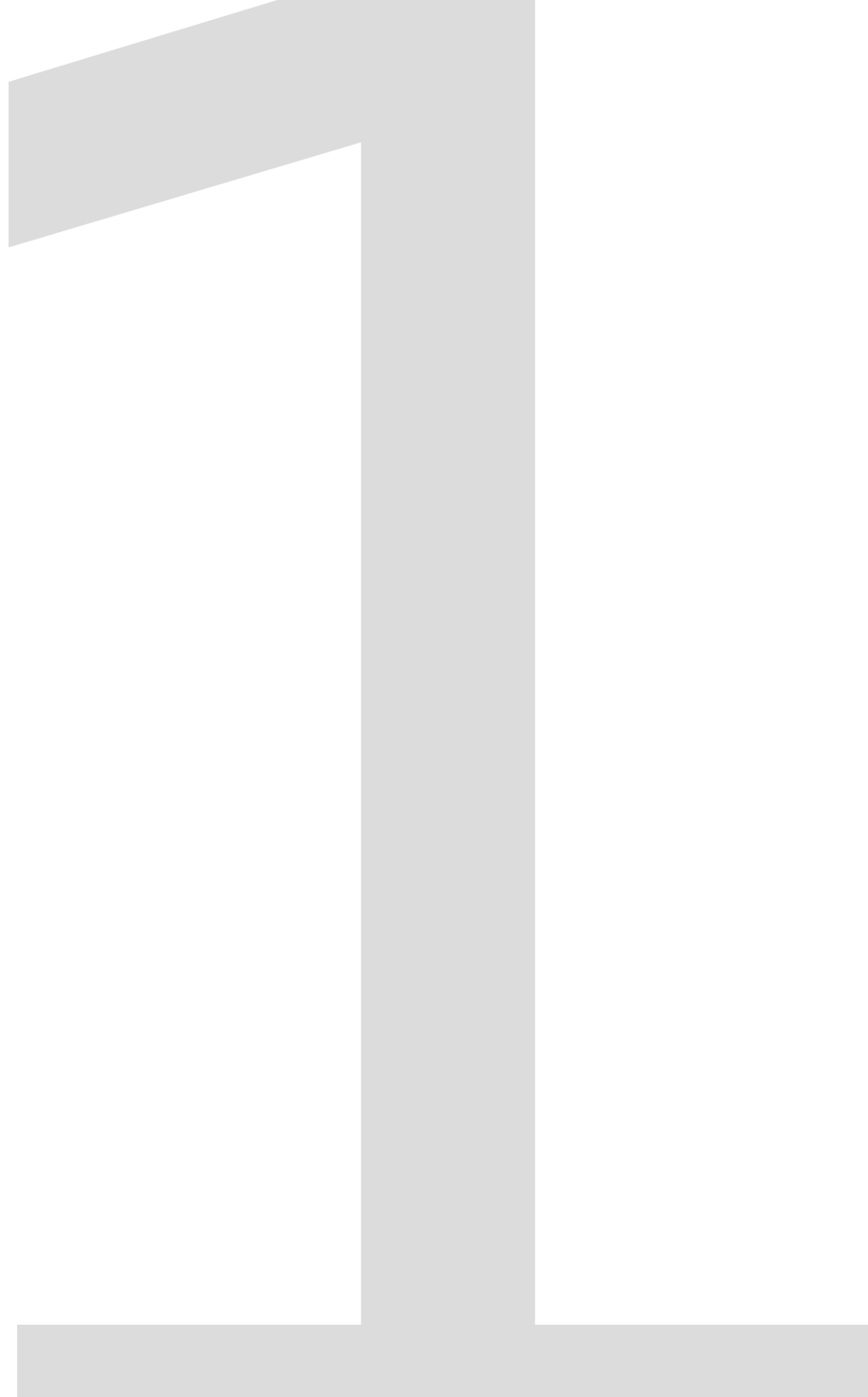
Through the direct involvement of citizens, developers and entrepreneurs to deliver better and more cost effective government based services.

Collaboration

Generate new ideas for problem solving by fostering cooperation across levels of government and departments, and with the public

Open Data is the idea that public data should be broadly accessible and usable by humans and machines, free of any technological, legal or usability barriers.

Usable by humans
and machines

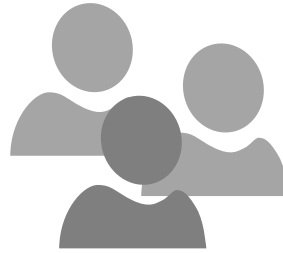


Users and their needs



Citizens

Mobile
app



Researchers,
Journalists

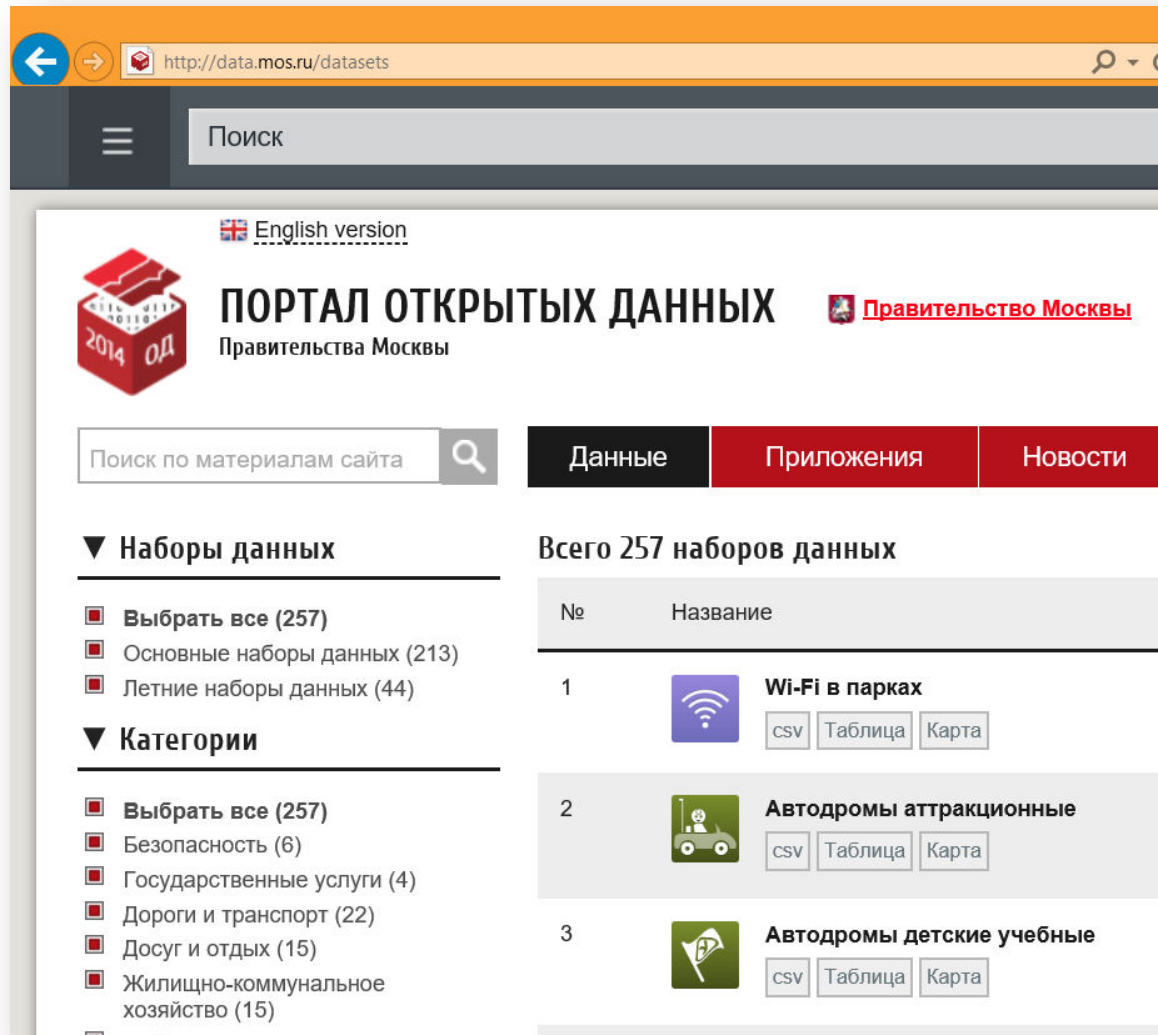
Access to data in
the common
tools



ISV and
Independent
Developers

Standardized,
documented
API

Where we start...



The screenshot shows the 'Портал Открытых Данных' (Open Data Portal) website. The browser address bar shows 'http://data.mos.ru/datasets'. The page features a search bar with the text 'Поиск по материалам сайта' and a search icon. Below the search bar, there are three tabs: 'Данные' (Data), 'Приложения' (Applications), and 'Новости' (News). The main content area displays a list of datasets under the heading 'Всего 257 наборов данных'. The list includes three items:

№	Название	Форматы
1	Wi-Fi в парках	csv, Таблица, Карта
2	Автодромы аттракционные	csv, Таблица, Карта
3	Автодромы детские учебные	csv, Таблица, Карта



Researchers,
Journalists



ISV and
Independent
Developers

What we really need...

Open Data Portal API | Get key | Documentation | Terms of Use | Log in | Русская версия

OData support

Thank you for your interest in the API of the Open Data Portal of Moscow.

This API version comes with partial support of the Open Data Protocol (OData). For a detailed description of the protocol, see <http://www.odata.org/>. All resources incorporated into the current API version support the parameters below. While these parameters are optional, they significantly facilitate operations with the API.

Parameters:

Parameter	Type	Description
<i>\$top</i>	number	Limits the number of return records. By default, all records are displayed.
<i>\$skip</i>	number	Enables users to specify a desired number of records to skip them. By default, all records are displayed.
<i>\$inlinecount</i>	string	Have the allpages value to get the total number of records. By default, total number of records is not displayed.
<i>\$orderby</i>	string	Used to specify the field for sorting the resulting list. For example: <i>\$orderby</i> = "Caption", <i>\$orderby</i> = "Number desc".

English version | Версия для слабовидящих

ПОРТАЛ ОТКРЫТЫХ ДАННЫХ

Правительства Москвы

Поиск по материалам сайта

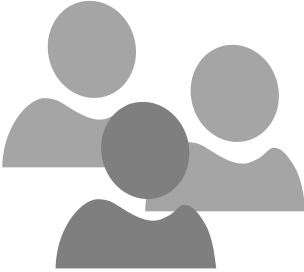
- Данные
- Приложения
- Новости
- Карта
- Разработчикам
- Информация

Всего 27 приложений

▼ Категории

- Выбрать все (27)
- Жилищно-коммунальное хозяйство (1)
- Здравоохранение (2)
- Культура (3)
- Образование (2)
- Органы государственной власти (2)
- Социальная среда (2)
- Дороги и транспорт (6)
- Физическая культура и спорт (3)
- Связь (1)
- Досуг и отдых (3)
- Забота о животных (1)

№	Название/Описание	Категория	Разработчик	Платформы
1	ЕМИАС Приложение "ЕМИАС" позволяет: записаться к врачу, в том числе по направлению; отменить запись; просм...	Здравоохранение	Фаворит Системы	iOS Android Windows Phone
2	ЖКХ Москвы Это приложение поможет найти ответы на многие вопросы, связанные с эксплуатацией и обслуживанием ваш...	Жилищно-коммунальное хозяйство	Правительство Москвы	iOS Android Windows Phone
3	Транспорт Москвы Приложение «Транспорт Москвы» - это не только полезные сервисы и информация для автолюбителей и пеше...	Дороги и транспорт	Правительство Москвы	iOS Android Windows Phone
4	Узнай Москву	Культура	Правительство Москвы	iOS Android



ISV and Independent Developers



Researchers, Journalists

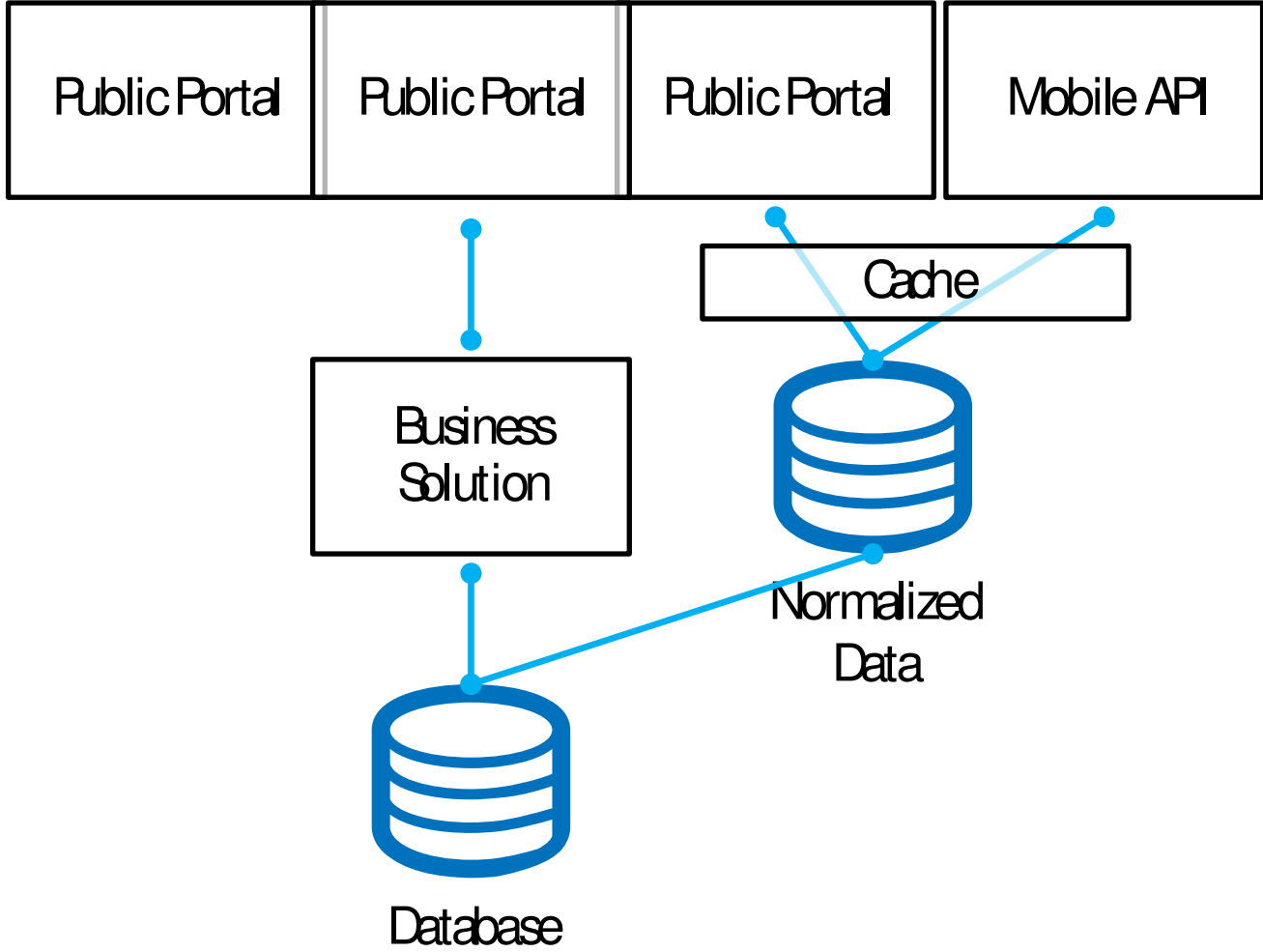
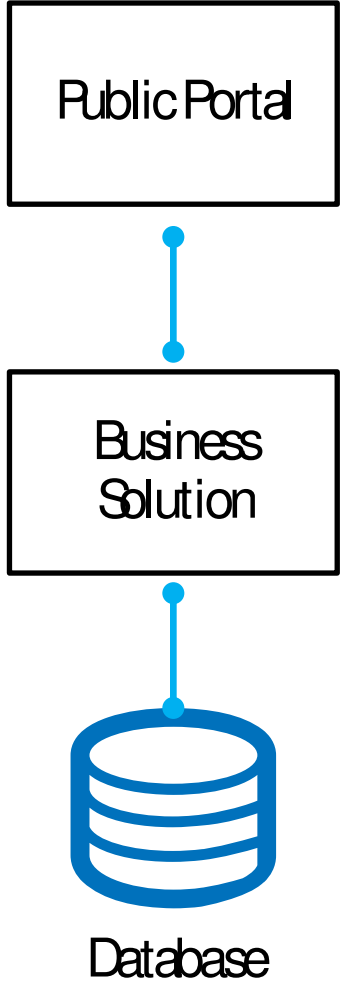


Citizens

Free of any
technological barriers



Opening Up Data Effectively?

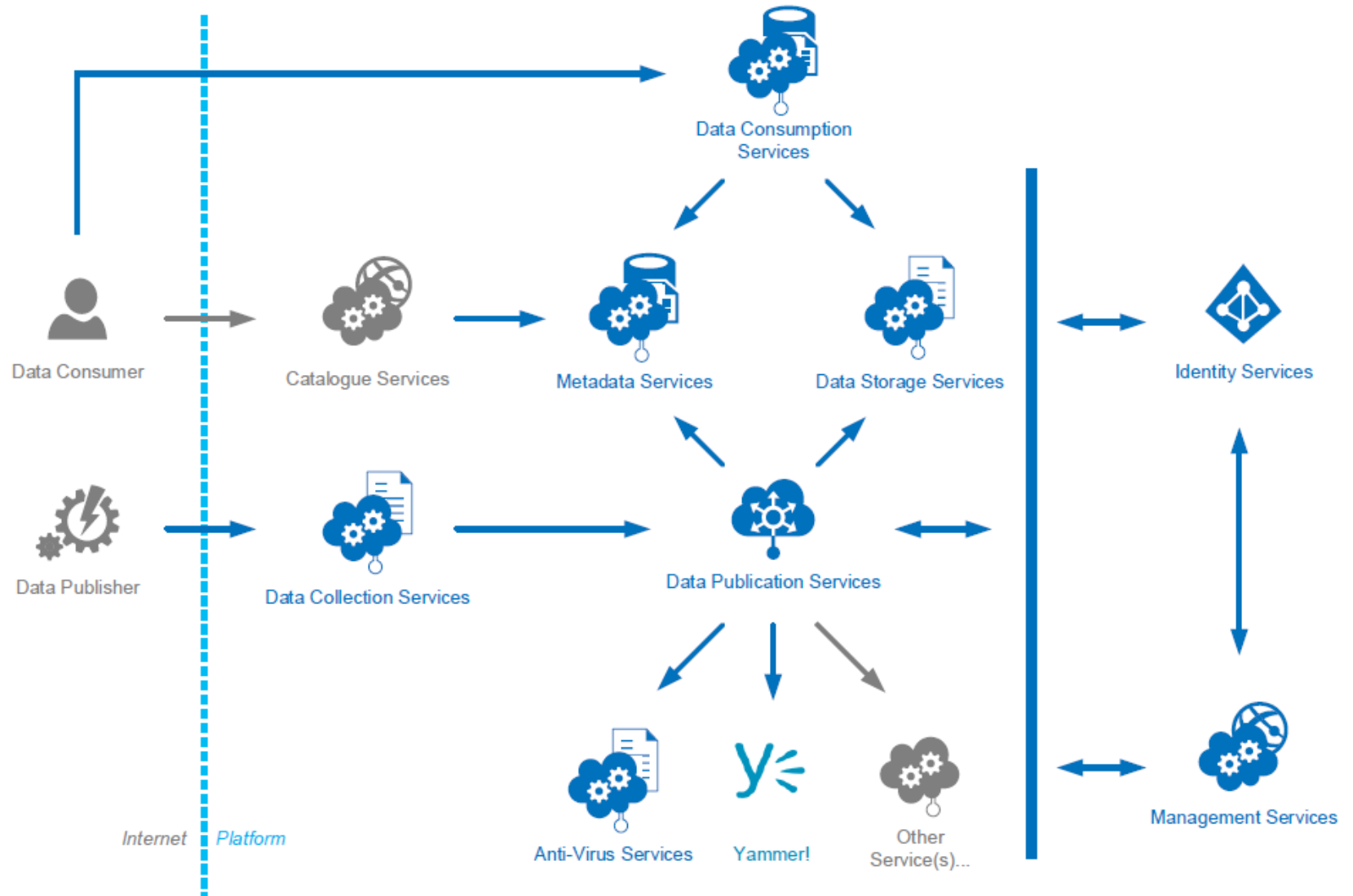


Centralized, public cloud approach

One entry point for consumers and developers

More efficient use of resources

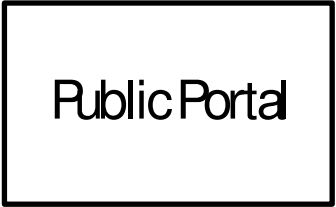
Faster time to market



Free of any
legal barriers



Organizational complexities



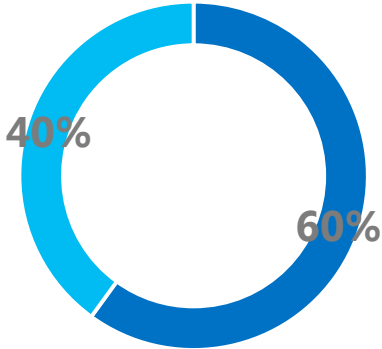
Database



Government Employees



Citizens



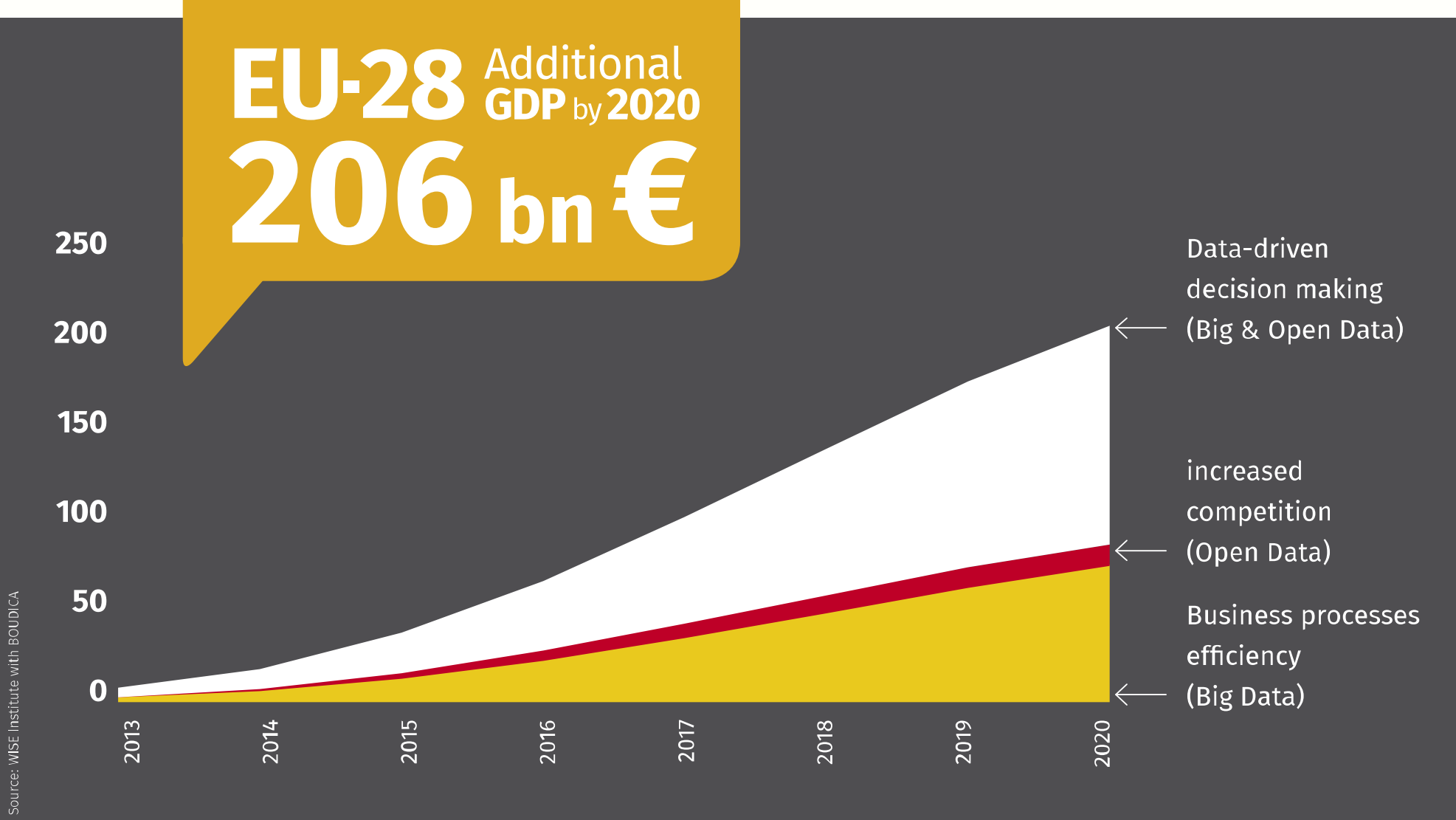
- Planned budget
- Earnings from services provided to citizens

Big Data

Big Questions
&
Big Insights

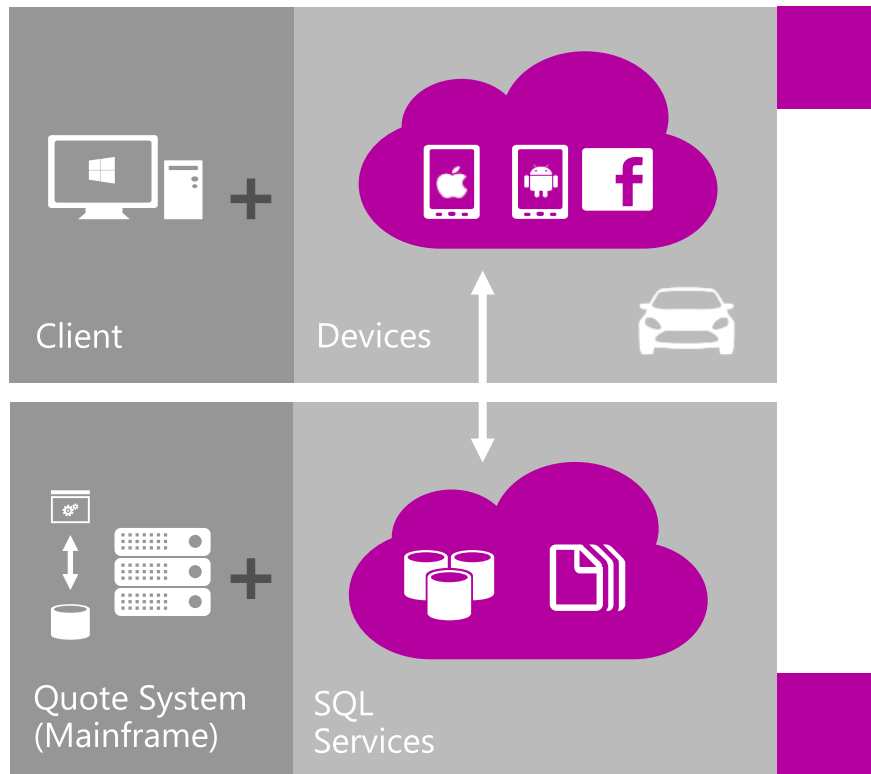


Transformational Impact



Big Uptake in Commercial Sector

Tailored car insurance



“Our app is very much a product of its time, we can take advantage of capabilities that were unavailable before”

AVIVA
DAVID WHITBY
SOLUTIONS DELIVERY
CENTER DIRECTOR

Benefits

- Lowered premiums by 20%
- Younger drivers
- Dynamic market response

Primary areas in Public Sector

Transportation

Sentiment analysis using social networks

Energy consumption optimization

Public safety/Situational awareness

Fraud detection

Environment

Predictive Analytics: Air Quality

The image displays three overlapping maps of Beijing, illustrating predictive analytics for air quality. The top map is the UrbanAir website interface, showing real-time air quality data for Beijing (北京) with a pollution level of "中度污染" (Moderate Pollution) and a temperature of 31°C. The middle map is a detailed street map of Beijing, showing various districts and landmarks. The bottom right map is a mobile application interface titled "Best Air Quality Route", which provides route information (Average) for a specific route in Beijing, including metrics like NO2, PM2.5, PM10, Wind, Humidity, Temperature, and Pressure. The route information is as follows:

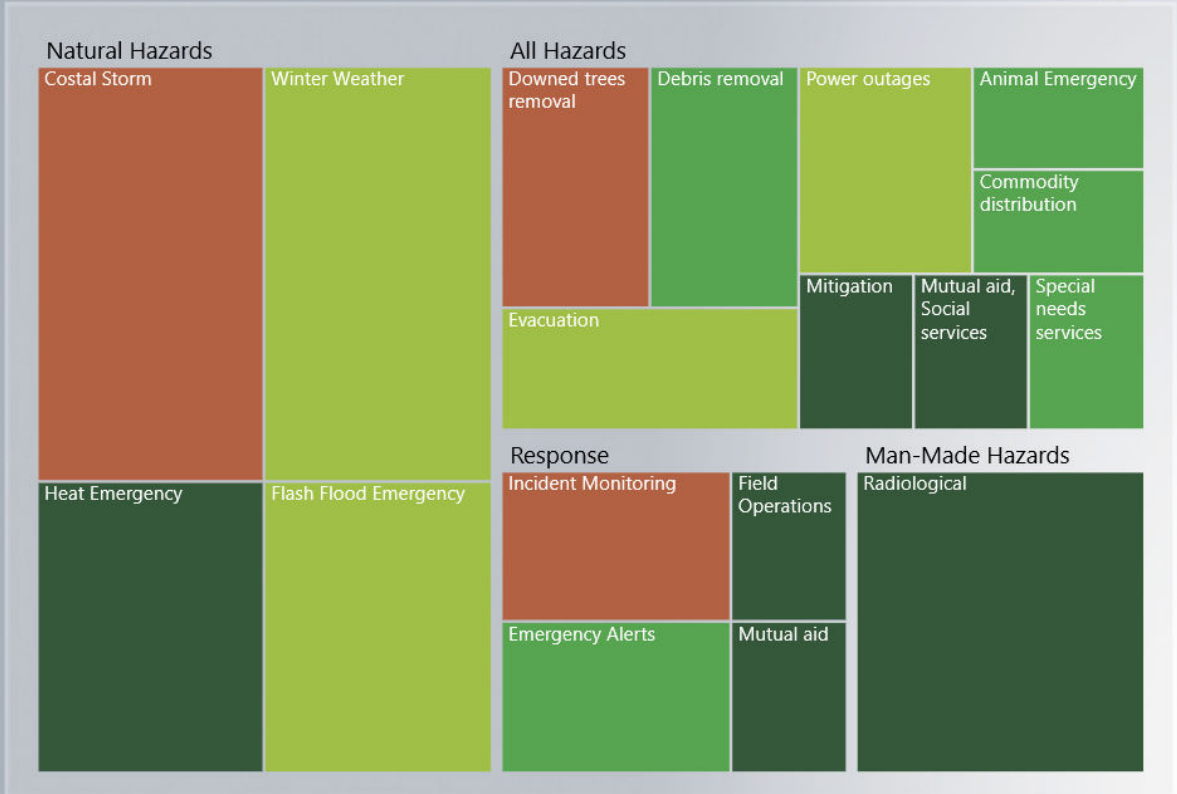
Route Info (Average)	
NO2	55
PM2.5	41
PM10	82
Wind	2.5
Humidity	34
Temperature	12
Pressure	1020

The mobile app interface also includes a "Check the box to enable location selection" option, a "Clear" button, and a "Find Best Route" button. The time displayed on the mobile app is 5:36.

City Dashboard

Operations

Situational Awareness



Contacts

	Category	Contact
1	Natural Hazards	Felix Wang
2	Costal Storm	Ronnie R. McCarthy
3	Heat Emergency	Eric J. Perdue
4	Winter Weather	Eric H. Muro
5	Flash Flood Emergency	Sam A. Wood
6	Man-Made Hazards	Jacky Hsu
7	Radiological	Karen S. Rogers
8	All Hazards	Gary Sun
9	Animal Emergency	John G. Ainsworth
10	Commodity distribution	Deeanna J. Staples
11	Downed trees removal	Donald G. Cox
12	Debris removal	Nicholas A. Wang
13	Evacuation	Amanda J. Suggs
14	Mitigation	E. Griffin

In Conclusion



