

Open data in Russia key figures and insights

Mikhail Parfentev

Department for IT and data processing,

Analytical center for the Government of the Russian Federation

Abstract

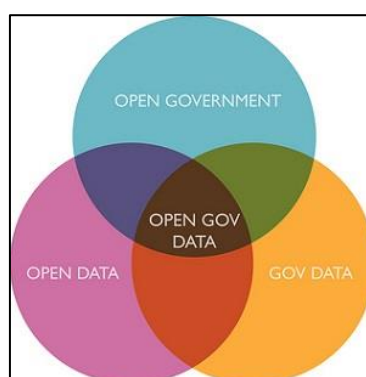
Open data is data that anyone can access, use or share. According to the McKinsey's report open data - public information and shared data from private sources - can help create \$3 trillion a year of value in the seven areas of the global economy. Another survey of economic potential conducted by the Higher school of economics shows that open data usage could save about 50 billion roubles in the sphere of transport of Moscow.

Nowadays, we do not underestimate the role of such kind of data. This working paper is devoted to the open data analysis in Russia and key figures of the Open data portal of the Russian Federation.

Keywords: *open data, open government, open data portal, hackathon, datasets.*

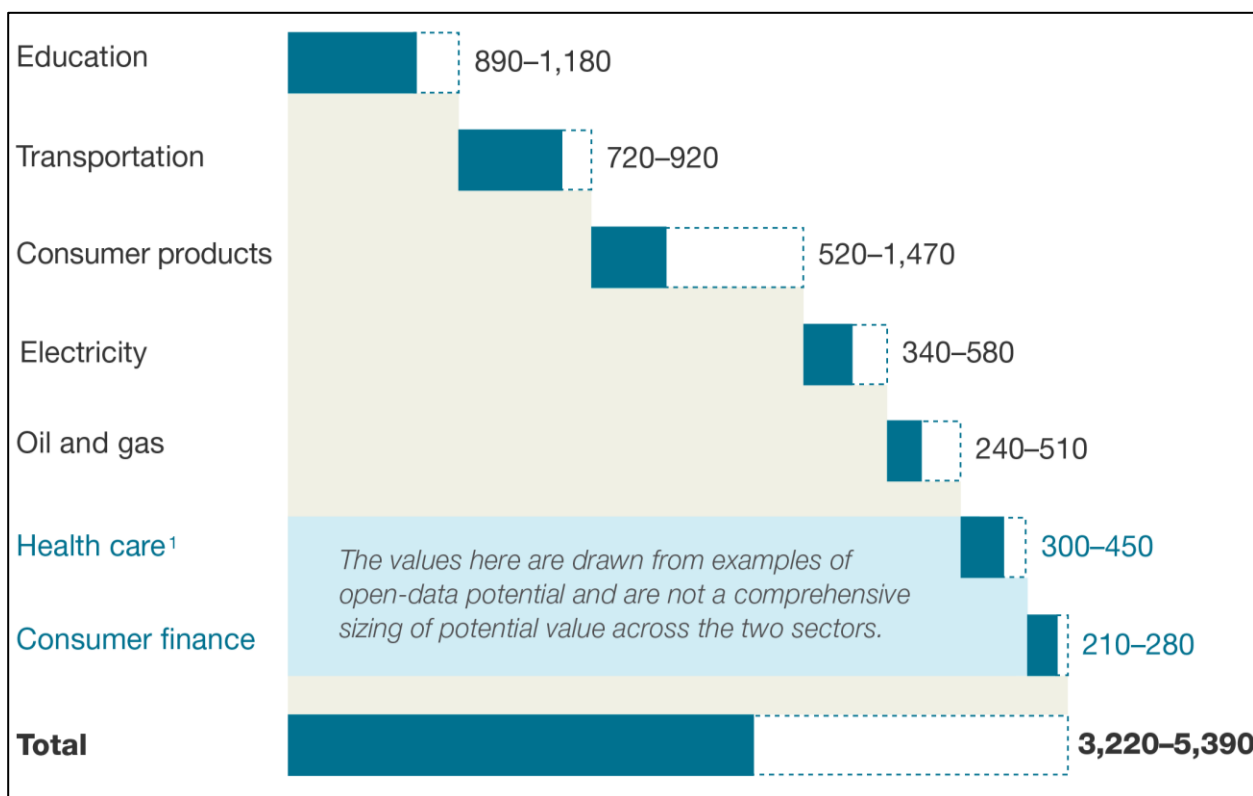
Body text

A few years ago it was a very debatable topic on the role of open data and its interconnections with big data. However, in Russia by the term “open data” we assume, first of all, “open government data” that is why it is possible to observe open data through Venn diagram as a node with logical relations between government data, open government concept and open data.



Picture 1. Open data Venn diagram

To illustrate the role of open data let's have a look at the public value in money terms. The diagram represents the potential of open data in the United States (Picture 2).

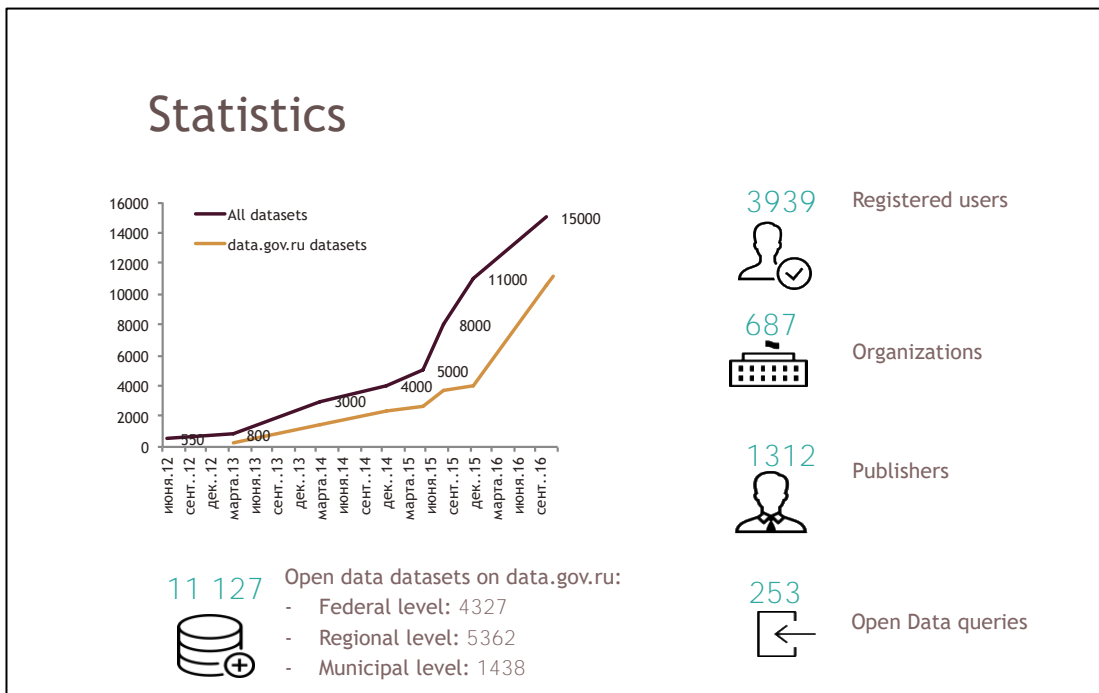


Picture 2. Potential of open data in USA (source: McKinsey report, 2013)

According to the McKinsey's report open data - public information and shared data from private sources - can help create \$3 trillion a year of value in the following seven areas of the global economy.

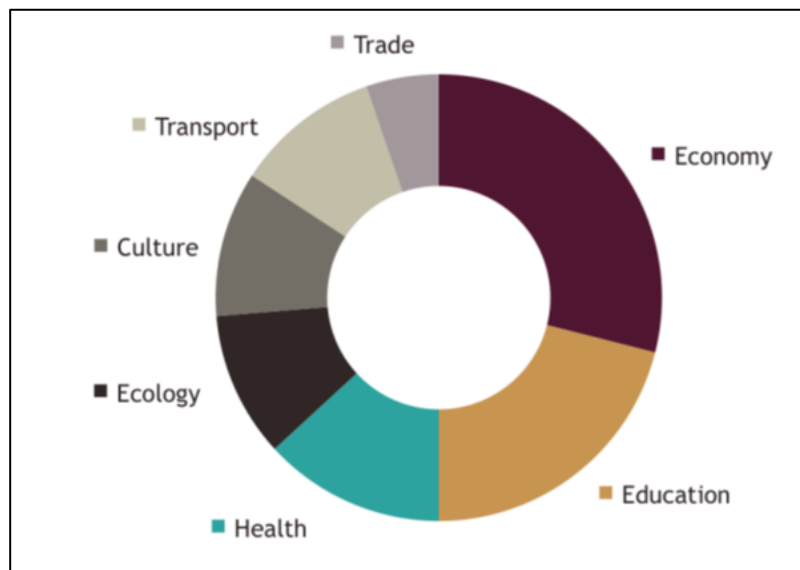
Another survey of economic potential conducted by the Higher school of economics shows that open data usage could save about 50 billion roubles in the sphere of transport of Moscow (NRU HSE, 2015). So, we do not underestimate the role of such kind of data.

Speaking about open data in Russia it is necessary to analyse key figures of the Open data portal of the Russian Federation (Picture 3).



Picture 3. Open data portal of Russia, Q4 2016

Today we have about four thousand registered users on the open data portal of Russia from more than 6 hundred organizations of different governmental levels. About twenty five percent of registered users are open data publishers and we have more than 11 thousand datasets. The diagram represents TOP-7 topics of datasets except the Government topic, which is marked by the majority of 57% of all datasets (Picture 4).



Picture 4. Open data datasets

Nowadays, there are more than two thousands of governmental information systems in Russia. Some of information systems consists data, which could be published in the format of open data and make an additional value (Table 1).

Supervisor	Description	Open data datasets
Ministry of Economic Development	Government websites' rankings	2 datasets
The Federal Treasury	Public procurement	3 132 datasets
Ministry of finance The Federal Treasury	Budget data	68 datasets
Federal State Statistics service	Official statistics	2 336 indicators
The Federal Treasury	State and municipal institutions	16 datasets
General Prosecutor's Office	Governmental inspections	48 datasets

Table 1 Open data and governmental information systems

Each time before publishing we need to identify the type of data: is it closed, shared or open; what are potential risks of publishing, how to do the publishing process much easier? It means that publisher should define the format, update frequency and where they will publish: on the website of the public body, on the local portal or on the federal portal. All open data publishers should follow Methodological guidance and technical requirements called the Russian open data standard.

Dataset	Number of records	Update frequency	In bulk
Unified timetable of sports events	46 890	n/a	16,36 MB

Unified Register of small and medium-sized businesses	> 6 433 xml's	monthly	2,92 GB in archive
State Register of Medicinal Products	> 100 000	quarterly	22 MB
Jobs of the All-Russian base of job vacancies in Russia	344 951 vacancies 1 136 482 jobs	daily	> 800 MB
Executive proceedings against legal persons	> 3 millions	daily	> 2,3 GB

Table 2. Open data datasets: key characteristics

To support the topicality and to form more useful applications Analytical center organizes open data contests for programmers and coders called open data hackathons. Open data hackathon is a 24 hours contest aiming to achieve working prototype of an app or service based on open data.

This year there were more than 30 open data contests of all level: municipal, regional and federal. At the end of 2015 were held the first All-Russia contest “Open data in the Russian Federation” and first Open data summit. Next year in February Analytical center plans to organize the second Open data summit.

References

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