



For International seminar on Open Data for the Sustainable Development Goals, Seoul, Republic of Korea



# Overview of the achievements in enabling open data in Mongolia

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[www.nso.mn](http://www.nso.mn)



# Agenda

- Open Data activities- National Statistics Office
- Open Data activities-Mongolia
- Challenges for bringing Open Data to use
- Conclusion





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# The benefits to national statistical systems



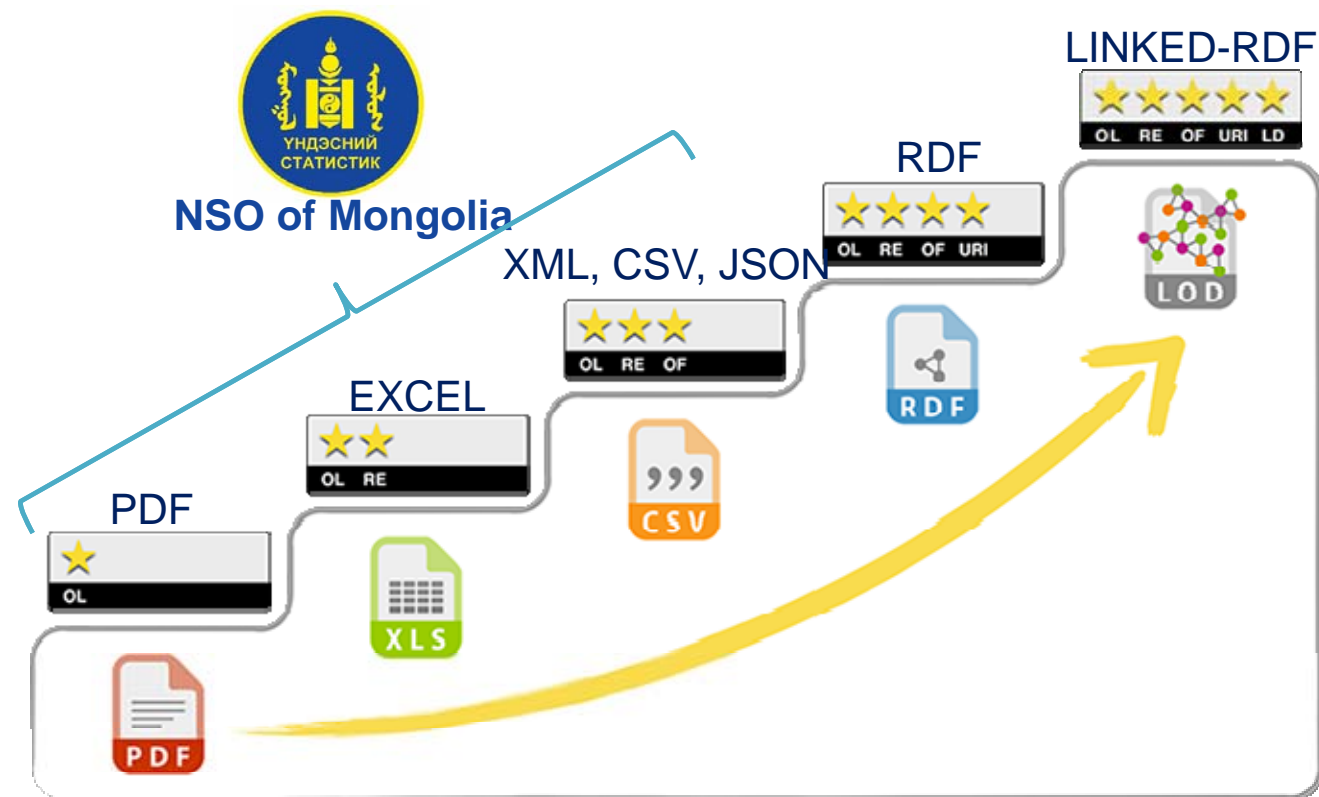
- Making data more accessible to users.
- Making use of new data sources accessible through other open data initiatives.
- Cost saving, avoid respondent burden.
- Making comparisons, coherence.

- Raising the profile and influence of the NSO (Improving trust in official statistics)
- Improving quality of official statistics (adopting Open Data policies).
- Making data sets available for research, analysis, and other social and economic benefits.

## 5 stars of Open Data applied to NSOs

- Developing open data NSO's website
- Enabling primary data

## 5 stars of Open Data applied to NSOs



# Open data service- National Statistics Office



The Statistical data is delivered to users as online services.

Currently, 660 indicators of 38 statistics are being disseminated as services.

## ДОТООДЫН НИЙТ БҮТЭЭГДЭХҮҮН

HTTP-ээр хүсэлтээ явуулснаар мэдээллийг JSON, XML зэрэг төрлөөр авах боломжтой.

## Сервистэй холбогдох холбоосын загвар

[http://srv.nso.mn/Monsis\\_Service/Monsis\\_Service.svc/\[Функцин нэр\]/\[Мэдээллийн формат\]/\[Мэдээллийн төрөл\]?\[параметр\]=\[параметрийн утга\]](http://srv.nso.mn/Monsis_Service/Monsis_Service.svc/[Функцин нэр]/[Мэдээллийн формат]/[Мэдээллийн төрөл]?[параметр]=[параметрийн утга])  
ЖИШЭЭ

[http://srv.nso.mn/Monsis\\_Service/Monsis\\_Service.svc/StatService6/xml/1](http://srv.nso.mn/Monsis_Service/Monsis_Service.svc/StatService6/xml/1)

## Оролт, гаралтын утгууд

Оролтын утга:	Гаралтын утга:
<ul style="list-style-type: none"> <li>Функцин нэр (заавал) – (string) StatService6</li> </ul>	
<ul style="list-style-type: none"> <li>Мэдээллийн формат(заавал)–(string) <b>JSON</b> <b>XML</b></li> </ul>	
<ul style="list-style-type: none"> <li>Мэдээллийн төрөл (заавал) – (string)                             <ul style="list-style-type: none"> <li>1 = үйлдвэрлэлийн аргаар, салбараар</li> <li>2 = эцсийн ашиглалтын аргаар_REC</li> <li>3 = үйлдвэрлэлийн аргаар, улирлаар, салбараар</li> <li>4 = орлогын аргаар</li> <li>5 = бүс, аймаг, нийслэлээр</li> <li>6 = улирлаар, эцсийн ашиглалтын аргаар</li> <li>7 = үйлдвэрлэлийн аргаар, улирлаар, 2005 оны зэрэгцүүлэх үнээр</li> </ul> </li> </ul>	
<ul style="list-style-type: none"> <li>year (сонголттой) – (string) 2010 – 2015</li> </ul>	
	<ul style="list-style-type: none"> <li>ITM_RCGN_SN (string) – Үзүүлэлтийн дугаар</li> <li>PRD_DE (string) – Үзүүлэлтийн хугацаа</li> <li>CODE (string) – Бүрэлдэхүүн код</li> <li>SCR_MN (string) – Бүрэлдэхүүн</li> <li>CODE1 (string) – код</li> <li>SCR_MN1 (string) –</li> <li>DTVAL_CO (string) – Тоон утга</li> </ul>

Input

Гаралтын утга:

Output



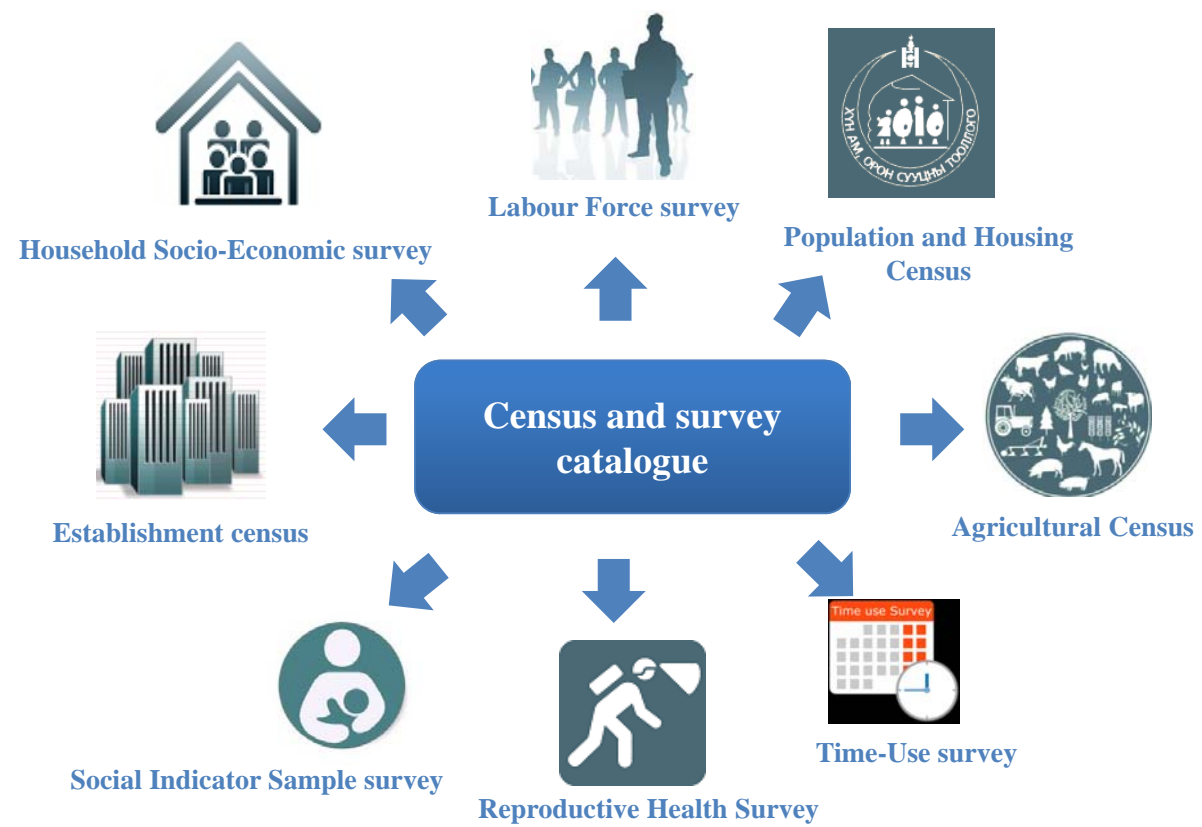


Ундэсний Статистикийн Газар

# Census and survey catalogue



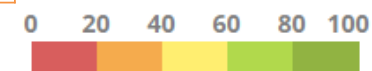
A total of 11 types of 33 censuses, sample surveys, reports, questionnaires and primary databases are delivered to users in Mongolian and English.



# Open data inventory 2016



	Overall Ranking	Coverage Ranking	Openness Ranking
Eastern Asia	2	2	1
World	<b>23</b>	22	25



	Coverage	Openness	All Elements
Social Statistics	58	63	60
Economic Statistics	63	66	65
Environment Statistics	54	62	58
<b>All categories</b>	<b>58</b>	<b>63</b>	<b>61</b>







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# Open Data Initiatives, Mongolia



Initiative

Year Started

Key actions taken so far

Open government  
partnership

2013

The initiative was launched in 2011, and became a participant in 2013. The key priorities of the relevant Government action plan are:

1. improving public service,
2. increasing the transparency of public institutions, and
3. enhancing justice and reducing corruption.

Open Data

2014

The Open Data Initiative and the related concepts started raising attention in Mongolia in 2014. Under the initiative, some projects were carried out such as the Open and Big Data project of Ulaanbaatar City Council.

IT department of the Ulaanbaatar Municipality- to create big data-open data platform. 65 agencies of the city administration-Project ended only covering 10 agencies Resulted in big data platform on Hadoop technology, an open data platform based on Comprehensive knowledge Archive Network technology



УНДСНИЙ СТАТИСТИК



МОНГОЛЫН  
УЛСЫН СТАТИСТИК  
АГЫН ТӨВ



# Example- Mongolia

service.gov.mn/api/address

MN EN MNG туршилт Системийн тухай Мэдээ мэдээлэл

**SERVICEGOV** ТӨРИЙН ҮЙЛЧИЛГЭЭ **МЭДЭЭЛЭЛ СОЛИЛЦОО** НЭЭЛТТЭЙ ӨГӨГДӨЛ НЭВТРЭХ

Нүүр хуудас / Хаягийн мэдээлэл

## ХАЯГИЙН МЭДЭЭЛЭЛ

### Улс, орон

Сервис: <http://service.gov.mn/api/address/country.json>

### JSON format for jQuery

```
jQuery.ajax({
  url : '//service.gov.mn/api/address/country.json',
  data_type: 'json',
  success : function(data) {
    jQuery.each(data, function(index, row) {
      // Format
      // row.country_code      - Улсын код
      // row.name              - Улсын нэр
      alert(row.name);
    });
  }
})
```



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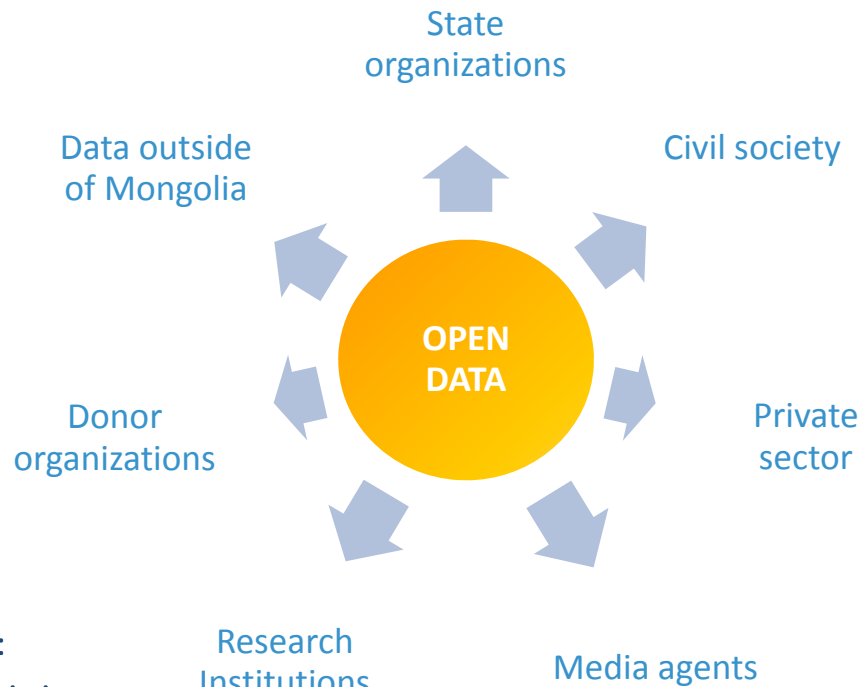
# Challenges



- As of now, two key groups of Challenges ahead:
  - LEGAL CHALLENGES
  - TECHNICAL CHALLENGES



# Legal Challenges



## For bringing OPEN DATA in USE:

- Establishing legislation on:
  - data protection
  - processing of data related to individuals/legal entities
  - how much data an individual/legal entity is entitled to provide about himself
  - data acquisition/exchange from or between government, private and non-government organizations
- Copyright issue of data author
- Etc.

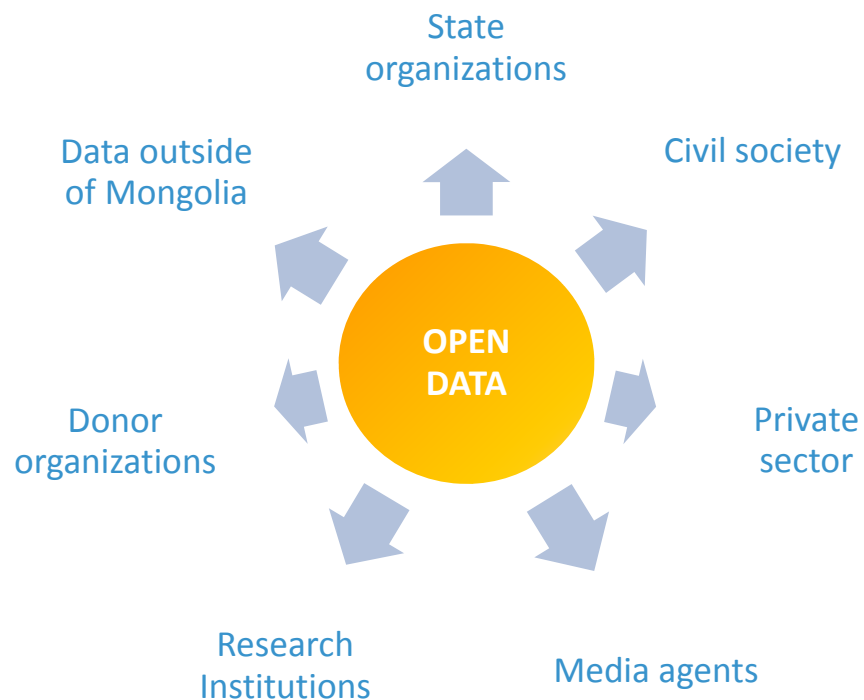
### The key laws:

- Law on Statistics
- Law on Civil Privacy
- Law on Legal Entity Secret
- Law on State Secret
- Data transparency and Right of receiving data





# Technical Challenges



## For bringing OPEN DATA in USE:

- Establishing common language:
  - National standard (e.g., Classification standard code, Data quality) that aligned with international standards
- Establishing infrastructure:
  - Data collection platform
  - Data exchange platform
  - Data processing platform
- Capacity building
  - Developing skilled people
  - Advanced Technologies
- Etc.

## In further



- Developing the wide Open Data platform under government (government and non-government organizations + metadata).



- Advocating towards data producers and other stakeholders on the benefits of opening the data.
- International organization can develop sub-menu on their website for showing good examples of Open data.





УНДСНИЙ СТАТИСТИК



THANK YOU FOR YOUR ATTENTION

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