

# **Demand-Driven Open Data**

**Achieving the SDGs by focusing on data users**

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# Pharmaceutical Supply Chain



**Manufacturer**



**Wholesaler**



**Pharmacy**



**Patient**

**Real-time data**



Ministry of Medicines &  
Medical Devices

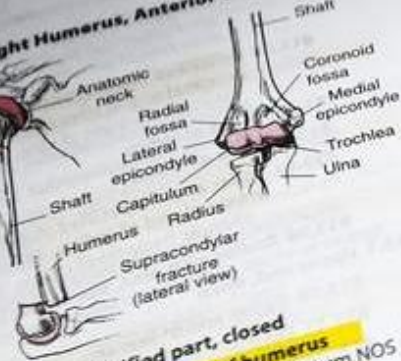


REPUBLIC OF SERBIA



**Annual  
publication**





2.20 Unspecified part of humerus Upper arm NOS  
Humerus NOS  
Humerus

2.21 Shaft of humerus  
AHA: 40: '05, 129; 3Q: '99, 14

2.21 Shaft of humerus  
AHA: 4Q '05, 1297-32  
shaft or unspecified part, open  
Unspecified part of humerus

12.30 Unspecified  
12.31 Shaft of humerus  
12.32 End, closed  
12.33 End of humerus

Distal end of humerus  
Distal end, unspecified part

812.42 Lateral condyle  
External condyle

Injury and Poisoning

810-813.02

[illegible]

**842.222** 2-part displaced fracture of surgical neck of left humerus  
CC Exclusion 7th character 1  
Appendix A PDX collection 1246  
MCC Exclusion 7th character 1  
MCC Exclusion PDX collection 1246

[illegible]

**S42.223** 2-part displaced neck of unspecified humerus  
CC Exclusion 7th character 089  
Appendix A PDX collection 1246  
CC Exclusion 7th character B see Appendix A PDX collection 1246  
MCC Exclusion 7th character B see Appendix A PDX collection 1246  
Appendix A PDX collection 1246  
**1300** 7th character A & B see Appendix B for IAC conditional logic

**S42.224** 2-part nondisplaced fracture of surgical neck of right humerus  
CC Exclusion 7th character A see Appendix A PDX collection 1246  
CC Exclusion 7th characters K & P see Appendix A PDX collection 0897  
CC Exclusion 7th character B see Appendix A PDX collection 1246  
MCC Exclusion 7th character B see Appendix A PDX collection 1246  
Appendix A PDX collection 1246  
**1300** 7th character A & B see Appendix B for IAC conditional logic

**S42.224** 2-part neck of humerus  
CC Exclusion A PDX collection 1246  
Appendix A PDX collection 1246  
CC Exclusion 7th character  
Appendix A PDX collection 1246  
MCC Exclusion 7th character  
Appendix A PDX collection 1246  
**HEAC** 1th character  
For 1246, conditional logic  
2-part nondisplaced fracture of surgical neck of left humerus  
CC Exclusion 7th character A see  
Appendix A PDX collection 1247  
CC Exclusion 7th characters K & P see  
Appendix A PDX collection 1247  
MCC Exclusion 7th character B see  
Appendix A PDX collection 1246  
CC Exclusion A & P see  
Appendix A PDX collection 1246  
HEAC 1th character

1. Adult ♀ Female-only ♂ Male-only

Manifestation

Unacceptable PDX CC-ARCO





**“We were dependent on whether or not someone saw something new on a box.”**

**– Pharmaceutical Wholesaler**

fake.



Genuine



# COUNTERFEIT MEDICINES

## IN LEGITIMATE SUPPLY CHAINS<sup>1</sup>

A study by

University of California, San Diego School of Medicine &  
the Pharmaceutical Security Institute (PSI)



AUTHENTIC



COUNTERFEIT







**“We need a dataset online in CSV format that is updated at least once a month..”**

**“..this data will help us keep track of changes to medicines without having to manually transcribe information from an outdated book.”**



еУПРАВА

Портал еУправа Републике Србије

PR



Моја еУправа

еУслуге

Вести

еПартиципација

Помоћ

Контакт

Грађани | Привреда | Преглед услуга по почетном слову | Преглед услуга по надлежном органу |

Ви се налазите: [еУправа](#) > [еУслуге](#) > Детаљи услуге

## Агенција за лекове и медицинска средства Србије

Агенција за лекове и медицинска средства Србије је регулаторна установа Републике Србије, одговорна за регулативу фармацеутског тржишта Србије. Агенција обезбеђује услуге издавања дозвола, одобрења и уверења за хумане и ветеринарске лекове и медицинска средства, као и контроле квалитета лекова и медицинских средства које испуњавају захтеве, потребе и очекивања корисника, захтеве закона и других нормативних докумената.

### Преузимање регистра лекова и медицинских средстава



еУслуга

Извршавање ове услуге је доступно само корисницима који имају креиран кориснички налог. Кликните на дугме да бисте извршили услугу.

#### Назив услуге

Преузимање регистра лекова и медицинских средстава



# GOAL 3



ENSURE HEALTHY LIVES AND  
PROMOTE WELL-BEING FOR ALL AT ALL AGES

## **TARGET 3.8**

**“...to achieve access to safe, effective, quality and affordable essential medicines for all.”**



## **TARGET 3.9**

- **“...to substantially reduce the number of deaths and illnesses from hazardous chemicals and contamination.”**





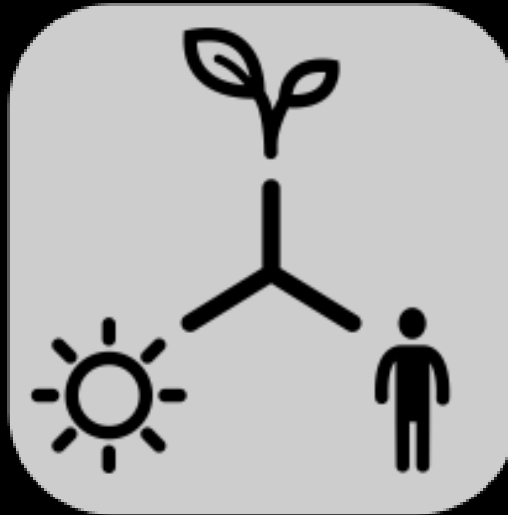
# **Demand-Driven Open Data**

**Identifying, prioritizing, and improving datasets  
based on the needs and insights from data users**

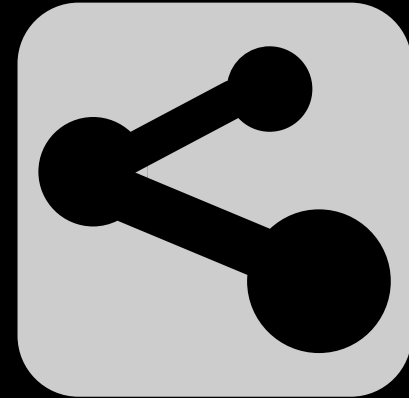
# Why Demand-Driven Open Data?



**High Value  
Data**



**Greater  
Context**



**Data  
Sharing**

# How to engage stakeholders?

- ✓ **Mapping data users**
- ✓ **Convenings**
- ✓ **Interviews**
- ✓ **Surveys**
- ✓ **Feedback forms**
- ✓ **Social media**



THE CENTER FOR  
**OPEN DATA ENTERPRISE**



🏠 HOME

📍 MAP | DATA

🌐 FINDINGS BY REGION

📁 FINDINGS BY SECTOR

📄 USE CASES

✉️ CONTACT

# Open Data Impact Map

A public database of organizations that use open data from around the world.

96  
countries

1778  
organizations

• TOP

• ABOUT  
• THE MAP

• METHODOLOGY

• CONTRIBUTE  
• EXAMPLES

• REGIONAL  
• SUPPORTERS

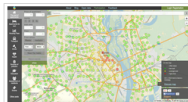
• TEAM

[Map View](#)[Data View](#)[Country](#)[Country Income Level](#)[Organization Type](#)[Type of Data Used](#)[Clear Filters](#)[Download CSV Data](#)[Download JSON Data](#)

## City Scale

Information portal that provides citizens and professionals access to data on the different conditions of life

<http://www.cityscale.com.ua/>



**Country:** Ukraine

**Sector:** Housing, construction & real estate

**Impact:** Empowers urban citizens with relevant statistics about their city

**Data Used:** Ukraine's local crime data, environment data (pollution levels), healthcare data (hospital facilities), transportation (public transport stop, schedules, and routes)

## Code for Ghana

Developer group focused on using open data to promote responsive, innovative and effective governance

<http://www.codeforghana.org>



**Country:** Ghana

**Sector:** Governance

**Impact:** Empowers civil society with access and skills to make use of public data

**Data Used:** Election data from the Electoral Commission of Ghana, education data from the Ministry of Education, and demographic statistics from Ghana Statistical Service

## CrowdMap IT

A geocoding startup that creates visualizations of water, energy, and public health, as well as tracks and digitizes attacks from Fulani herdsmen.

<https://cmait.com>

**Country:** Nigeria

**Sector:** IT and geospatial

**Impact:** Raises local and global awareness on issues in Nigeria and opens up local communities to technological innovation

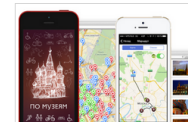
**Data Used:** Geospatial, water and sanitation from Nigeria's open data portal



## Cultural Routes

App which helps users plan walking and biking routes, linking routes to historical and cultural sites in Moscow

<http://culturalroutes.ru/>



**Country:** Russian Federation

**Sector:** Arts, culture and tourism

**Impact:** Reduces time spent browsing tourist information sites

**Data Used:** Bicycle parking, museums, and city taxi parking datasets from the Department of Information Technology of the Government of Moscow

## DATA Uruguay

Nonprofit seeking to support open civic data to strengthen communities and social activism

<http://www.datauy.org/>



**Country:** Uruguay

**Sector:** IT and geospatial

**Impact:** Increases citizen access to open government health data through interactive visualizations

**Data Used:** Ministry of Public Health - National Health Insurance Providers, National Open Data Catalog or Catálogo de Datos Abiertos

## DataMeet

A community group for data science and open data professionals in India

<http://datameet.org/>



**Country:** India

**Sector:** IT and geospatial

**Impact:** Promotes the use of open data in India

**Data Used:** Electoral data from the Election Commission of India, education data from the Indian Ministry of Human Resource Development, and geospatial data

## Datos El Salvador

An open data portal developed by civil society

<http://www.datoselsalvador.org>



**Country:** El Salvador

**Sector:** Governance

**Impact:** Provides access to public data in an open format

**Data Used:** Data from the Ministry of the Economy, Ministry of Agriculture and Livestock, Ministry of Education, Ministry of Health, National Directorate of Medications, Legislative Assembly, Supreme Electoral Tribunal, and the Port Authority

## De Olho nas Metas

Platform for monitoring the progress of municipal projects in São Paulo, Brazil

<http://deolhonasmetas.org.br>



**Country:** Brazil

**Sector:** Governance

**Impact:** Helps civil society monitor municipal projects in their community

**Data Used:** Education data from the Brazilian Ministry of Education and Brazilian Institute of Geography and Statistics (IBGE), government operations data from the municipality of São Paulo

## District Metrics

Online service displaying household consumers in India at a disaggregated level

<http://districtmetrics.com/>



## Economics Association of Zambia

Undertaking research, training, education, and consultancy in the field of economics and related disciplines



## Eduweb

Centralized portal of open education data (schools, colleges and universities) in Kenya

<http://www.eduweb.co.ke>



## Ennovent

Company providing services to accelerate for-profit innovations for sustainability in low-income markets

<http://www.ennovent.com>





# Open Data Roundtables





# United States





# Jamaica





# Sierra Leone



# Kazakhstan







# New Zealand





# Recommendations for Demand-Driven Open Data

## ✓ **Create data inventories**

- **Data providers across government + external stakeholders need to know what data already exists**

## ✓ **Map data users**

- **Identify key stakeholders from each sector**

## ✓ **Develop engagement strategy**

- **Create strategy to gather input and feedback on data needs and data sharing**
- **Utilize existing channels to engage with stakeholders on an ongoing basis**

## ✓ **Identify High Value Data**

- **Convene stakeholders to assess data gaps and determine priority datasets**

## ✓ **Build iterative cycles for feedback**

- **Check in with data users and key stakeholders throughout the process and adjust data strategy as needed**

A banner for the SDG National Reporting Initiative. The background is a photograph of three women in a tea plantation. The woman in the foreground is smiling and looking towards the camera. She is wearing a light-colored, short-sleeved button-down shirt. Behind her, two other women are working in the tea field, one is bending over a basket and the other is standing and smiling. They are all wearing headwraps. The tea plants are lush green, and the sky is a clear blue. A horizontal bar with segments of red, orange, yellow, green, and blue is positioned above the title text.

## SDG NATIONAL REPORTING INITIATIVE

Supporting government reporting on  
the **Sustainable Development Goals**  
for data-driven policymaking



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