Open Government Data
Platform India (OGD)

Alka Misra
Deputy Director General
National Informatics Centre, MeitY, GoI
amishra@nic.in
What is Open Data

Open data is machine readable data that can be freely used, reused and redistributed by anyone.
5 Stars Of Open Data

- Linked Open Data
- On the web
- Machine-readable data
- Non-proprietary format
- RDF standards
- Linked RDF

Is your data 5 ★?
Open data

Opportunity
- New social & business opportunities

Empower
- Every voice is heard

Participation
- Everyone has the means to actively engage

No restrictions
- Free & unrestricted access to all available data

Transparency
- Promotes accountability and provides information

Availability
- Committable, operable & usable upon demand

Digital
- Convenient & reusable data

Access
- Available to all

Availability & Access
Open data must be available as a whole and at no more than a reasonable reproduction cost, preferably by downloading from the internet in a convenient and modifiable form.

Reuse & Redistribution
Open data must be provided under terms that permit reuse and redistribution including the interoperability with other datasets.

Universal Participation
Everyone must be able to use, reuse and redistribute - there should be no discrimination against fields of endeavour or against persons or groups.

Sources: wikipedia.org, opendatahandbook.org, worldbank.org
Need of Open Data

- Citizen’s demand for Transparency and Accountability
- Need for informed policy making/planning
- Enhancing the relationship between Government & Citizen
- Citizen engagement in policy making
- Integrating stakeholders for governance process

So, Key Drivers – Transparency, Citizen Engagement, Collaboration, Innovation, Data Driven Decision Making, Research etc.
### Why Open Government Data?

<table>
<thead>
<tr>
<th>Evidence-based Planning of socio-economic development processes rely on quality data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Government Collects, Compiles &amp; Possess huge data</td>
</tr>
<tr>
<td>(Crime Statistics, Prison Statistics, Census, weather, market prices, Eco Indicators, price index, Demographic, Crime, survey, geo spatial data,..)</td>
</tr>
<tr>
<td>Often Little Used</td>
</tr>
<tr>
<td>Analyzed from one perspective</td>
</tr>
<tr>
<td>Possess huge untapped potential</td>
</tr>
<tr>
<td>Collected using tax payers money</td>
</tr>
</tbody>
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Open Government Data (OGD): Platform India
National Data Sharing & Accessibility Policy

NDSAP was Gazette notified on 17th March 2012

Objective of the Policy

Facilitate proactive Release of Data by the Government Departments/organizations

For all the data and information created, generated, collected and archived using public funds provided by Government of India
Department of Science & Technology (DST):
- Serve the nodal functions of coordination and monitoring of the policy

M/o Electronics and IT through National Informatics Centre
- Implementing Agency
- Formulate Implementation guidelines, technology & standards for data & metadata
- Design, Develop & Manage Open Government Data Platform (data.gov.in)
- Facilitate Identification & Publishing of datasets in Consultation with Depts.

Ministry/ Departments/States.....
NDSAP: Key Stakeholders

1. **Public at large:** Anyone can access the datasets and apps available on the platform.

2. **Developers and start-ups:** They are encouraged to develop mash-ups, apps and info-graphics using the datasets available on the platform.

3. **Open Data Enthusiasts/Activists**

4. **Data Journalists, Activists, NGOs, etc:** Datasets can be used to present facts and figures.

5. **Researchers, Academia and civil society organizations**
OGD Platform Ecosystem

DataGov SaaS Instances

- sikkim.data.gov
- tn.data.gov
- odisha.data.gov
- surat.data.gov
- smartsities.data.gov

- 3,12,005+ Resources
- 153+ Departments
- 7,458+ Catalogs
- 22,406+ M Times viewed
- 14,037+ APIs
- 7,735+ M Times Downloaded
- 286+ Chief Data Officers
- 1,827+ Visualizations

Last updated on 05 Sep, 2019
OGD Software as a Service (SaaS) instances

Tamil Nadu

Odisha

Sikkim
OGD Software as a Service (SaaS) instances

Empowering Cities Through Data

Smart cities are all about getting the right data to the right people at the right time to solve complex problems.
OGD Statistics as on Date

- **336** Chief Data Officer (107 Central and 229 State) have been nominated
- **3,12,600+** Datasets under 7,658 catalogs by 153 departments (85 Central and 68 State)
- **1,827+** Visualizations have been created

- **Datasets**
  - 23.65 Million times viewed & 7.35 Million times downloaded
  - 14,831+ Data APIs
### Sector-wise Datasets in OGD Platform

<table>
<thead>
<tr>
<th>Sector</th>
<th>Datasets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>1,56,016</td>
</tr>
<tr>
<td>Agriculture</td>
<td>81,128</td>
</tr>
<tr>
<td>Demography &amp; Census</td>
<td>34,891</td>
</tr>
<tr>
<td>Parliamentary Affairs</td>
<td>8,200</td>
</tr>
<tr>
<td>Crime</td>
<td>7,034</td>
</tr>
<tr>
<td>Water &amp; Sanitation</td>
<td>2,741</td>
</tr>
<tr>
<td>Transport</td>
<td>2,018</td>
</tr>
<tr>
<td>Economy</td>
<td>1,365</td>
</tr>
<tr>
<td>Environment &amp; Forests</td>
<td>914</td>
</tr>
<tr>
<td>Education</td>
<td>901</td>
</tr>
</tbody>
</table>
Resources
(Datasets/Apps)
• **Custom Search** API Module
• **Integrated Acronym & Synonym dictionary**
• **Spell Suggestions**: If search returns zero results, it shows results based on Suggestions (Inverted Index) and Synonyms
• **Strikethrough**: Any term missing in the search results is displayed below the search result as strikethrough
• **Exact match Search** implemented
• **Grouping/Collapsing similar search results**
• User’s searched term is highlighted with light green color as background
• Searching **term in Title, Keyword or in Body only**
• **Search by Organization name** such as NCRB, DLR, DGFT, CGHS, DRDO etc. using **Acronym dictionary**
• Provision given to filter the search results based on Content Type (Catalog/Resource), Organization (Ministry/State) and Group
## Indicator Dashboard

- **Drinking Water and Sanitation**
  - Households Using Improved Sanitation Facility
- **Health**
  - Children Aged Under 5 Years Who Are Underweight
  - Women (Age 15-49 Years) Whose Body Mass Index (BMI) is Below Normal (BMI<18.5 Kg/m²)
  - Pregnant Women Age 15-49 Years Who Are Anemic (<11.0 G/dL)
- **Transport**
  - Length of National Highways
  - Total Road Length By Category Of Roads
  - Total And Surfaced Length Of Rural Roads
- **Labour and Employment**
  - Changes in Employment In Selected Sectors
  - State-wise Labour Force Participation Rate (Per 1000)
  - State-wise Worker Population Ratio (Per 1000)
- **Economy**
  - State-wise Net Domestic Product (NDP) At Constant Price
  - Gross Domestic Product (GDP) At Current Price
  - Gross Domestic Product (GDP) At Constant Price
- **Education**
  - Gross Enrolment Ratio In Higher Education
  - Literacy Rate (7+ Years)
  - Percentage Of Schools With Electricity
- **Industries**
  - Foreign Direct Investment (FDI) Equity Inflows
  - Foreign Direct Investment (FDI) Equity Inflows In Machinery
  - Foreign Direct Investment (FDI) In Agriculture
Indicator Dashboard

/ Indicator / Households using improved sanitation facility

Dashboard

Top 5 States/UTs in % of rural Households using improved sanitation facility - NHSLA-4

- Goa
- Delhi
- Sikkim
- Kerala
- Kerala

Top 5 States/UTs in % of urban Households using improved sanitation facility - NHSLA-4

- Goa
- Delhi
- Sikkim
- Kerala
- Kerala

Data

Visualization

Login/ Register
Datasets Being Published through Web-services

80,000+ datasets from 100+ Webservices
Datasets as APIs

14,800+
Datasets as API
OGD Community

- Community
- Blog
- Visualization
- Infographics
OGD Events

- Open Gov Data Hackathon 2019 (Ongoing)
- Open Gov Data Hackathon in 7 Cities and Online
- Code For Honor
- CMA Hackathon
- #OpenDataApps Challenge
- In Pursuit of an Idea
- 12th Plan Hackathon
Workshops for CDOs & Data Contributors
National Conference & Open Data Challenge
Apps Developed in OGD Hackathon

1. Teeka Mobile App
   - Description: The Teeka Mobile app provides a platform for the citizens to track the vaccinations of children and the pregnancy of the female members in their family. As soon as a pregnancy is confirmed, the expecting women are informed about health and family welfare.

2. Data Cops
   - Description: Data Cops is a platform that aims to empower the vulnerable sections of society through the use of technology. It provides information about crimes against women and helps in identifying the perpetrator.

3. Accident avoidance & Transport Resource Management
   - Description: This app is designed to help commuters avoid accidents and manage transport resources efficiently. It provides real-time information about traffic conditions and helps in reducing congestion.

4. SafeIndia
   - Description: SafeIndia is an Information System for Crime Reporting, Analysis, & Intelligence. It includes an app that allows users to report crimes through the Google Assistant. The system uses Natural Language Processing and AI to analyze reports.

5. Roah Suvidha
   - Description: Roah Suvidha is a mobile app that simplifies the bus travel experience. It allows passengers to track buses in real-time, book seats, and receive notifications about delays and cancellations.

6. Lets Carpool
   - Description: Lets Carpool is a next-generation carpooling application that uses artificial intelligence and location-based advertising to help users find carpools. It suggests carpool options based on user preferences and travel habits.

Sections:
- Health and Family Welfare
- Internal Security
- Road Transport
Infographics Developed using OGD Datasets

**JUVENILES IN CONFLICT WITH LAW**

- Cases registered against juveniles: 18.9K, 22.2K, 31.4K, 33.5K
- Rate of crime of juveniles (per lakh population) from 2005 to 2015:
  - 2005: 1.7
  - 2006: 1.9
  - 2007: 2.0
  - 2008: 2.1
  - 2009: 2.0
  - 2010: 2.1
  - 2011: 2.3
  - 2012: 2.6
  - 2013: 2.7
  - 2014: 2.5

**THE KILLER BITE**

- Malaria in numbers:
  - 0.15 deaths per 100,000 population
  - 0.15 deaths per 10 million population
- India Malaria figures:
  - 5017394 cases
  - 1801 deaths

**TOP 5 STATES BY MALARIA DEATH RATE**

- 1.87
- 0.52
- 0.47
- 0.39
- 0.29

**TOP 5 STATES BY MALARIA CASES**

- 6.916
- 5.460
- 4.973
- 2.942
- 2.741

**MALARIA SYMPTOMS**

- Fever
- Headache
- Muscle pain
- Diarrhea

**MALARIA TREATMENT**

- Antimalarial drugs
--quinines, sulfones, and nitrofurans
- Artesunate
- Quinine

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For more information, visit [OGD Datasets](#).
Offering Models of OGD

**Model-1**
Open Datasets can be directly published either on data.gov.in
Publish datasets on data.gov.in

**Model-2**
States can have their own data portal for publishing Open Datasets as an exclusive instance of data.gov.in through Software as a Service (OGD-SaaS) Model

SaaS Instance of data.gov.in
- Smart Cities Mission Data Portal (smartcities.data.gov.in)
- Tamil Nadu State (tn.data.gov.in)
- Sikkim State (sikkim.data.gov.in)
- Odisha State (odisha.data.gov.in)

**Model-3**
States can have their exclusive data portal with maintenance responsibilities, which can be hosted at their own datacenter
Discover Possibilities with Open Government Data...

Thank You