

# Integrating Geospatial Data with Temporal and Contextual Data to Derive Insights for Governance in the Indian Context

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PRESENTATION BY CENTRE FOR OPEN DATA RESEARCH, PUBLIC AFFAIRS CENTRE

# Introduction

## Public Affairs Centre, Centre for Open Data Research

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**PUBLIC AFFAIRS CENTRE**  
*Committed to good governance*

- Enhance Quality of Public Governance
- Active Civil Society Engagement
- Inclusive Growth (“Leave no one behind”)
- Action Research to generate evidence
- Focus on Sustainable Development Goals
- Informed Advocacy
- Well designed action to enhance community agency
- Partner with Governments to improve quality of development



- Data Research arm of PAC
- Make Open Government Data easily **Accessible, Understandable and Actionable**
- Empower **data enabled decision making** through insights and intelligence from Open Government Data

# Governance Problems

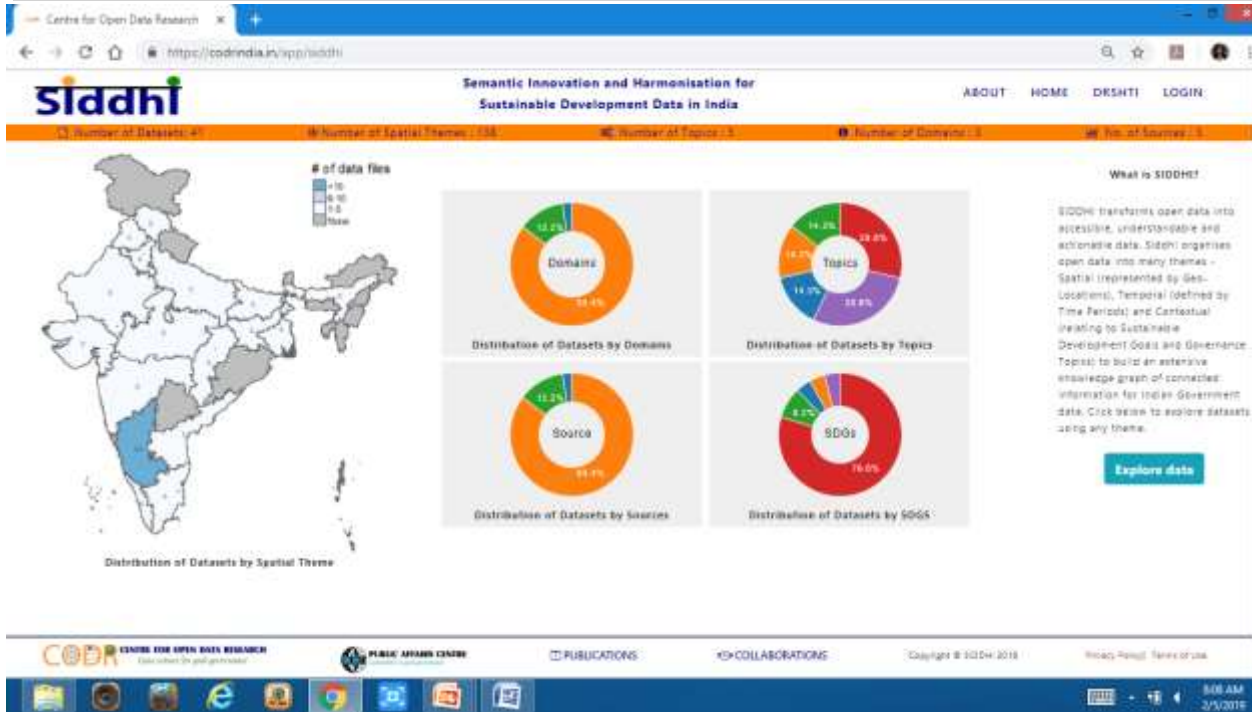
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- Department of Women and Child Development, GoK
  - Provide a data enabled intervention to address the problem of stunting and wasting in children in Karnataka
- Department of Labour, GoK
  - Understand the Growth Model of Karnataka to provide the necessary enabling framework for “decent work for all” under SDG-8
- Office of the Principal Accountant General, GSSA, GoK
  - Building a semantics enabled data framework to support the audit process
- Sarva Shiksha Abhiyan, GoK
  - Provide a data enabled intervention to address the low learning outcomes in the bottom quantile districts of Karnataka
- National Health Mission
  - Optimal deployment of health care infrastructure and personnel for efficient delivery of primary health services

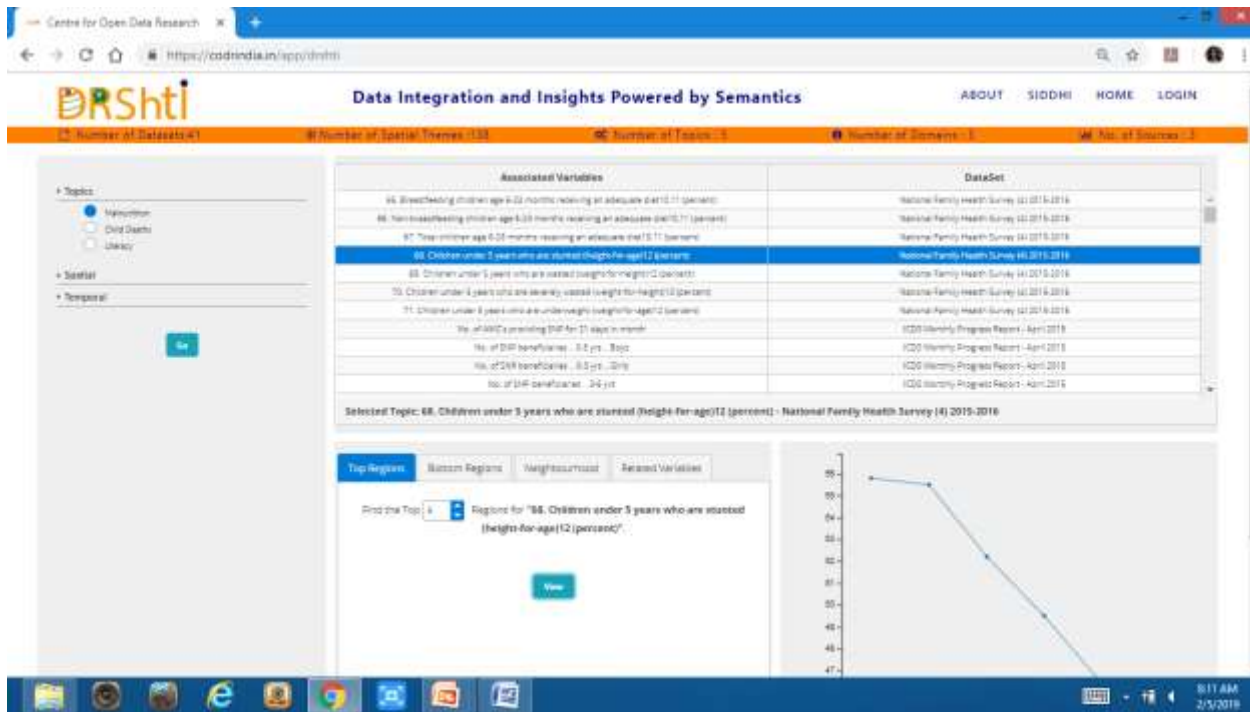
# CODR research tracks and products

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- ✓ Products
  - SIDDHI – Semantic Innovation and Harmonisation for Sustainable Development Data in India
  - DRSHTI – Data IntegRation and InsigHts powered by Semantics
  
- ✓ Open-Data Research Tracks
  - Track **UDIT**: The Universal Data Integration Platform powered by Semantic Integration of Open-Data
  - Track **Panini**: Building Working Ontologies for Open-Data generated in the Indian context
  - Track **Bhuvan-Setu**: Integration with ISRO Bhuvan Maps
  - Track **Darpan**: Visualizing Open-Data Integration and Insights
  - Track **Gyan-Manthan**: Deriving Insights and Intelligence from Open-Data



- Comprehensive view of integrated information across different themes – sustainable development goals/targets, spatial, temporal and contextual themes
- Helps identify Data Inter-Dependencies across themes
- Insights on Data Gaps and Data Quality
- Intuitive visualisation based on semantic intelligence associated with the data
- Technology Partners : SDGIO, a UN endorsed semantic framework for SDG
- End Users : Labour Department, Sarva Shiksha Abhiyan, Women and Child Development -- Karnataka



The screenshot displays the DRSHTI web application interface. At the top, the header includes the DRSHTI logo and the tagline "Data Integration and Insights Powered by Semantics". Navigation links for "ABOUT", "SIDDIHI", "HOME", and "LOGIN" are visible. Below the header, a summary bar shows statistics: "Number of Datasets: 4", "Number of Spatial Themes: 133", "Number of Topics: 3", "Number of Datasets: 3", and "No. of Sources: 3".

The main content area is divided into two columns: "Associated Variables" and "DataSet". The "Associated Variables" column lists several topics, with the selected topic being "68. Children under 3 years who are stunted (height-for-age) (2) (percent)". The "DataSet" column lists the corresponding data sources, including "National Family Health Survey (2) (2015-2016)".

Below the table, a section titled "Selected Topic: 68. Children under 3 years who are stunted (height-for-age) (2) (percent) - National Family Health Survey (4) (2015-2016)" is shown. This section includes a "Top Regions" tab and a "Find the Top" search box. A line graph on the right displays the data for the selected topic, showing a sharp decline in stunting rates across different regions.

- Systematically explore insights starting from a topic (Theme)
- Exploits the reasoning power of the Knowledge Graph to generate insights
- Intuitive Graphs to understand outputs

# Integrating Geospatial Data from Governance Data : A Use Case to Understand Malnutrition

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- STUNTING -> A GRAVE MANIFESTATION OF MALNUTRITION
- A COMPLEX TOPIC -> NEEDS ANALYSIS OF DIVERSE DATA FROM DIFFERENT SOURCES TO UNDERSTAND CORE ISSUES
- SPATIAL, TEMPORAL AND CONTEXTUAL INTEGRATION OF DATA ENABLES INTELLIGENT ANALYSIS OF THE ISSUE
- DEMONSTRATION .....

# Thank You

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