DISHA
A Game Changing Data Driven Governance Solution
Brainstorming with Ministries
June 26, 2018, New Delhi
Structure

- Background
- Disha Eco System
- Dashboard Architecture
- Challenges & Issues
- Progress so far
- Way Forward
## DISHA Mandate

- Greater coordination - elected representatives & district administration for efficient and time-bound development.
- Synergies in planning & monitoring of scheme implementation.
- Convergence for greater impact.

## DISHA Committee Meetings

4 meetings per year - quarterly review of developmental activities

## DISHA Committee Composition

**Elected Representatives**
- MP (Chairperson of DISHA Committee)
- MLAs
- Local Government Representatives - ZPs, GPs, Municipalities

**District Administration**
- District Collector (Member Secretary - DISHA Committee)
- District level Nodal Officers from various departments
Government Data Systems Operate in SILOS!

- GARV
- PMUY
- SBA
- PMAY
- MGNREGA
- NSAP
दिशा
(पिला विकास समन्वय और निगरानी समितियों)
ग्रामीण विकास मंत्रालय की एक पहल
Disha’s Journey

JUNE 2016
- Project Conceptualized.
- DISHA Committees Formed

OCT 2017
- Launched by Hon’ble PM
  11th October 2017
  6 Schemes

JULY 2017
- Technical Partner & PMU onboarded.
- Dashboard work initiated.

JAN-MAY 2018
- 9 more schemes onboarded

JULY 2018
- 10 more schemes in pipeline for onboarding
- State Level DISHA Committees to be set up.

AUG 2018
- Multiple Views
- LGD Mapping
- What If Analytics

JUNE 2018
- DISHA Week
- 18 Schemes Live
- Launch of DISHA Guidelines
- Launch of Meeting MgMT Software.
- Launch of E-book.

JULY 2018
- Onboard all schemes

JUNE 2016 - AUG 2018
- 6 Schemes
- Project Conceptualized.
- DISHA Committees Formed
- Technical Partner & PMU onboarded.
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- Onboard all schemes
PM on Disha Dashboard

“DISHA is a crucial step towards good governance through which we will be able to monitor everything centrally. It will enable us to effectively monitor every village of the country.”
DASHBOARD ECOSYSTEM
DISHA Dashboard Stakeholders

NIC MoRD

NIC MoPR

Elected Reps
29 States & 7 UTs
717 Districts

MoRD

22 Central Ministries

PMU Team

Social Cops
Administrative Structure of Project

Figure: Depiction of (a) data flows and (b) communication flows between the stakeholders in the DISHA Dashboard Project.
Disha PMU Team

Project Director

PMU Consultants
• Scheme Onboarding
• Meetings with Ministries
• eBook

LGD Team
• Location Data Analysis
• LGD Code Seeding
• Follow-up with MoPR/NIC
• Technical support

Development and Meeting Soft
• Web service development
• Meeting Management Software

Data Analytics
• Data Analysis
• View Design

Helpdesk
• Helpdesk support to Dashboard users
• Follow-up with Departments for Action
• Testing of Dashboard

Follow-up with MoPR/NIC
Dashboard Building Blocks

Schemes with Key KPIs

Meeting Management Software

E-book

LGD Seeding

GIS Integration

Helpdesk

Data Analytics
One Dashboard - Three Dimensions

Dimensional Data Visualization

- Daily/ Weekly/ Monthly Yearly Snapshots
- Month on Month / Year on Year Comparisons

- 42 Schemes – 22 Ministries
- Key KPIs
- Multiple Views

- Drill down from State > District > Sub-District > GPs
- Drill down to PCs > ACs > GPs
- Compare geographies across KPIs
Multiple Views : Different Insights

**HIGH LEVEL VIEWS**
Designed to provide overall picture

**DEEP DIVE VIEWS**
Designed for deep-dives, comparisons & bottleneck identification

**QUICK VIEW**
KPIs and Overview

**MAP VIEW**
Compare indicators across geographies

**FUNNEL VIEW**
Identify process bottlenecks

**ANALYTICS VIEW**
To help focus agenda, deep dive on a given indicator, etc.
DISHA Dashboard- A Game Changer

- No data lag
  - Access to real-time data for real-time checks

- No operational delays
  - Intensive monitoring and timely corrective action

- Policy Reform Tool
  - Suggest policy changes in Parliament/State Legislatures

Re-engineering of Nation wide decision making process

- Real-time accountability
- Drive convergence
PROGRESS SO FAR
Status of On-boarding: 42 Schemes

1. Live on DISHA Dashboard
   - MNREGA, NSAP, PMUY SBM-G, PMAY-G, NRLM, DDUGJY, PMGS-Y and MDM, HRIDAY, AMRUT, SMART Cities, NRDWP, MPLAD, PMKKKY, NHM, SBM-U and PMAY-U

2. Web Services Shared
   - NLCPR, ENAM, PMEGP, PMKSY-PDMC, PMKVY, SSA, RKVY, AIBP, CADWM, SHC, PMFBY and PMAGY

3. Advanced Stage
   - ICDS

4. Discussions Initiated
   - PKVY, DDUGKY, NRuM

5. YET TO START
   - BBBP, Digital India – PIAP, Infra Related Pgms, Sugamya Bharat Nirman, NFSA, DILRMP, PMKSY-Watershed, IPDS
Other Activities

- Helped in developing web services of some schemes such as MPLADS
- Helping in designing of scheme dashboard
- Helped LGD seeding in several schemes using in-House developed tools such as AUTOLGDSSeed
- Carried data quality checks of MISs
- Ready for launch on June 28:
  - Meeting Management Software
  - Disha E-book launch
  - Disha Guidelines launch
- Work in progress:
  - Onboarding of remaining schemes
  - LGD seeding of schemes
  - GIS layering
  - Data Analytics
CHALLENGES & ISSUES
Scheme On-boarding Process

- Communication to participating Ministry
- Scheme Research and analyzing its MIS
  - Indicator/Parameter finalization
  - Location Data sharing
- Data Structuring
- Data cleaning
- LGD Seeding
- Web-Service Integration
- Data Indexing
- Dashboard Design
  - Quality Testing (Views, Data & Content)
  - Demonstration to participating Ministry
- Operations, Maintenance & Support
  - User Engagement
  - Deployment at Production Environment
  - Pipeline deployment for Realtime data synchronize

Sensor data sharing
Integration
Dashboard Design
Quality Testing (Views, Data & Content)
User Engagement
Deployment at Production Environment
Pipeline deployment for Realtime data synchronize
Bringing Data Together has Challenges

Lack of Standardized Geographies

- Different schemes may follow different geography hierarchies – solution unique LGD code.
- Location Government Directory (LGD) codes not updated or seeded in many scheme datasets.

Challenge: All datasets to use LGD Master for locational uniformity.

Acquiring Schemes Data through Web Services

- Not all 42 schemes have structured MIS with available data.
- Data from internal MIS/databases to be obtained for others.

Challenge: All Schemes to have structured MIS with all geographies seeded.
LGD Master created by Ministry of Panchayati Raj
Challenges in LGD seeding
Lack of requisite level of minimum maturity by MIS of schemes
Lack of required IT Infrastructure
Issues regarding data ownership
Lack of clarity about data Life cycle
Wide variation in Data Granularity

Acquiring Schemes through Web services
### Granularity Level of Schemes

<table>
<thead>
<tr>
<th>Level</th>
<th>Schemes</th>
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<tbody>
<tr>
<td><strong>STATE</strong></td>
<td>PMAY-G, MDM, NSAP, MGNREGA, NRDWP, SBMG, NRLM, SSA, PMGSY, NHM, DDUGJY, ICDS (POSHAN), PMAY-U, SBM-U, HRIDAY, NULM, Smart Cities, Amrut, PMKVY, RKVY, PMUY, PMKKKY, PMEGP, AIBP, CADWM, PMKSY, <strong>NLCPR</strong></td>
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<tr>
<td><strong>DISTRICT</strong></td>
<td>NSAP, MGNREGA, NRDWP, SBMG, NRLM, SSA, PMGSY, NHM, DDUGJY, ICDS (POSHAN), PMAY-U, SBM-U, HRIDAY, NULM, Smart Cities, Amrut, PMKVY, RKVY, PMUY, PMKKKY, PMEGP</td>
</tr>
<tr>
<td><strong>SUB-DISTRICT</strong></td>
<td>Same as Block since Scheme data does not differentiate between block and sub district</td>
</tr>
<tr>
<td><strong>BLOCK</strong></td>
<td>PMAY-G, MDM, NSAP, MGNREGA, NRDWP, SBMG, NRLM, SSA, PMGSY</td>
</tr>
<tr>
<td><strong>PANCHAYATS</strong></td>
<td>PMAY-G, MDM, NSAP, MGNREGA, NRDWP, SBMG, NRLM</td>
</tr>
<tr>
<td><strong>VILLAGE</strong></td>
<td>PMAY-G, <strong>MDM</strong>, NSAP, MGNREGA, DDUGJY, ICDS (POSHAN)</td>
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WAY FORWARD
Vision for Dashboard

Convergence with GIS Layers
- Preparation of GPDPs
- Prediction and Policy Making

Compare Geographies
- Decision based Indices
- Cross Sector/Scheme Analysis

Track Mission Antyodaya
- Cluster Profiles
- Sector Deep Dives

Track Inspirational Districts
- All Schemes in Single View
- Automatic Performance Alerts
- Targeted Insights Newsletter
How PMU can Support Ministries

- Conduct technical discussions and sensitize Ministries about:
  - Data Sharing formats
  - Best practices about MISs
  - Identifying KPIs
  - LGD seeding process

- Draft individual roadmaps for the schemes & support their on-boarding on Dashboard through help in:
  - Developing web-services if non-existent/improving weak web-services
  - LGD seeding
  - Resolution of various technical issues
Key Issues for Discussion Today

- **How to Build up Robust Architecture**
  - Development of web-services/Improvement of weak web-services.
  - LGD seeding of schemes as per common LGD Master and GIS Mapping
  - Sharing MIS best practices

- **How to Exploit Potential of Data Analytics for Decision Making**
  - Development of data analytics- comparisons across time/geographies, creation of Indices, convergence etc - to facilitate decision making

- **How to Secure Dashboard Environment**
  - Securing Data: Creating wrapper API in conformity with latest security standards and sharing data with stakeholders
THANK YOU.