International Cooperation in Statistical Capacity Development – A case of Nepalese Experience

Conference on "Managing a statistical organization in times of change"

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Dilli Raj Joshi, DDG, CBS

Gyanendra Bajracharya, Director, CBS

Presentation Outline

- *National Statistical System (NSS)*

- *National Strategy for Development of Statistics (NSDS)*

- *National Data Profile (NDP) & Major Issues of NSS*

- *International Cooperation and Partnership for Statistical Capacity Development – A Case of post-disaster Survey in Nepal*

Introduction

- *The statistical history of Nepal goes even back to the first population census held in 1911, Statistics Act 1958, Statistics Regulation 1984 & establishment of Central Bureau of Statistics (CBS) in 1959 are the major incidents in the National Statistical System (NSS) of Nepal*

- *Formation of National Statistics Council in 1988, National Strategy for Development of Statistics (NSDS) approved in 2018 are other major events of the national statistical system of Nepal*

- *The Statistics Act 1958 seems the NSS as a centralized one. However, the growing demand for multi-sector data guided the NSS to move towards a decentralized system*

- *Founded on the Statistics Act 1958, the Central Bureau of Statistics came on existence in 1959 An indispensable characteristic of a sound NSS, that is a central statistical organization*
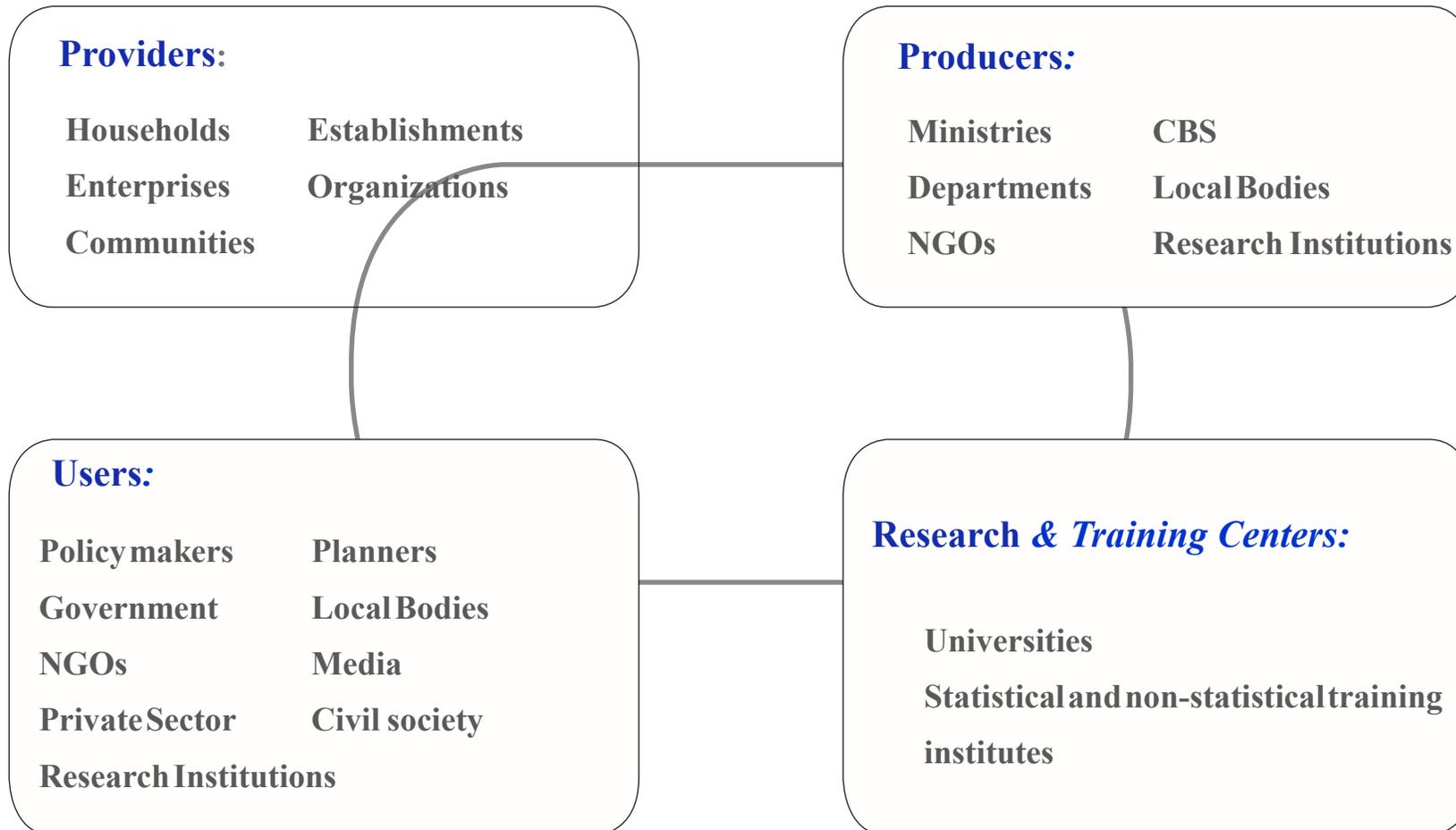
NSS of Nepal in the diagram
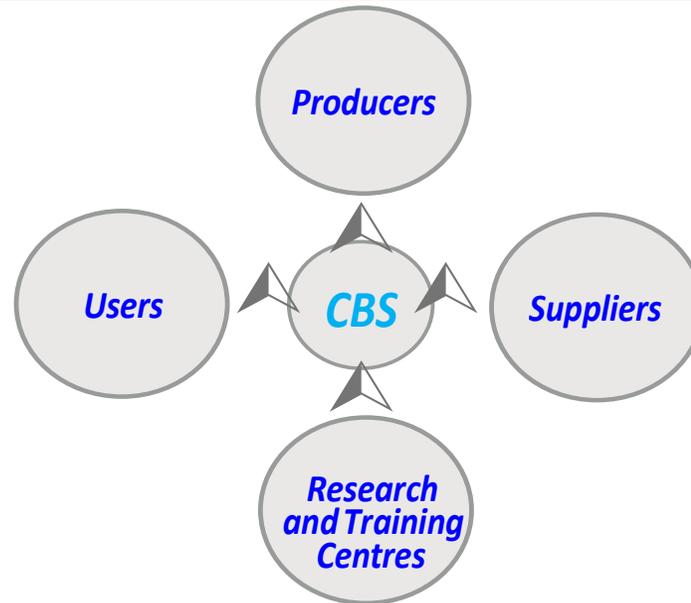
- *NSS comprises four equally important sectors. The producers, users, suppliers and research and training centers that are mutually bonded to build a sound national statistical system*

- *Being at the nucleus of the system the CBS totals the NSS of Nepal*

- *The diagram can be further expanded by disaggregating the CBS, ministries and other agencies under producers*

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Players of the Nepalese statistical system

Providers:

Households	Establishments
Enterprises	Organizations
Communities	

Producers:

Ministries	CBS
Departments	Local Bodies
NGOs	Research Institutions

Users:

Policy makers	Planners
Government	Local Bodies
NGOs	Media
Private Sector	Civil society
Research Institutions	

Research *& Training Centers:*

Universities

Statistical and non-statistical training institutes

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National Strategy for Development of Statistics (NSDS) – *An improvement in statistical process*

Vision

Establishment of a coordinated, functional and effective national statistical system

Mission

Develop a system of qualitative data production, management and supply for policies aimed at egalitarian development and prosperity in accordance with federal governance system.

Objectives of NSDS

1. Develop statistical system suitable of federal structure by maintaining a coordination among   central agencies of Government along with provinces and local level involved in statistical   activities.

2. Produce reliable and qualitative data and establish a system of regular supply in order to address evidence-based policy making and to meet the needs of the users.

3. Strengthen the institution by improving the legal and procedural means for the management of statistical operations.

Strategies to Achieve Objectives of NSDS

Strategy

Following strategies will be applied in order to achieve the above-mentioned objectives:

Strategies to achieve Objective 1

      a) Institutional development in accordance with federal system

      b) Establish an effective coordination mechanism in relation to statistics

Strategy to achieve Objective 2

      a) Production and supply of quality statistics

      c) Apply quality assurance tools

Strategies to Achieve Objectives of NSDS …

Strategy to achieve Objective 3:

      a) Reform the Statistics Law and Regulation

      b) Reform the Statistical Procedures

      c) Strengthen the statistical organizations

      d) Apply modern means of information technology in statistical activities (Appropriate digital technology will be applied in data collection, processing, analysis and publication)
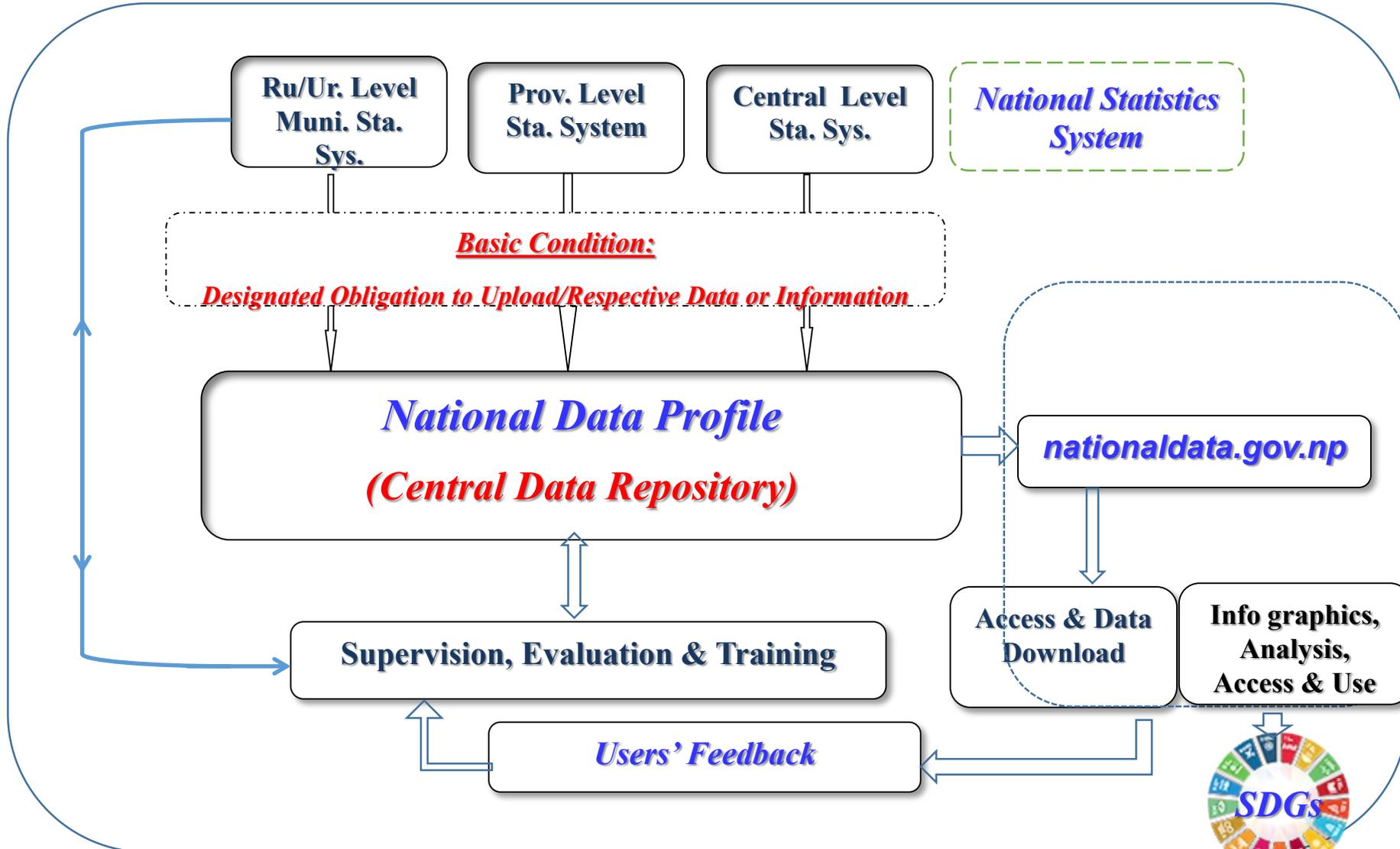
National Data Profile (NDP) – New data source

- *Central Bureau of Statistics (CBS) has prepared National Data Profile (NDP) portal to facilitate national, 7 provinces & 753 local levels for updating the necessary SDG indicators timely & accurately. It is historical development in the history of statistical system of Nepal*

- *The portal provides an easy access & updated statistical information mainly related to SDGs to all users.*

National Data ProfileM System Architecture

Ru/Ur. Level Muni. Sta. Sys.

Prov. Level Sta. System

Central Level Sta. Sys.

National Statistics System

Basic Condition:

Designated Obligation to Upload/Respective Data or Information

National Data Profile

(Central Data Repository)

nationaldata.gov.np

Supervision, Evaluation & Training

Access & Data Download

Info graphics, Analysis, Access & Use

Users' Feedback

SDGs

Geography and Nature

Resources

Capacity

Others

Development Potentiality

SDGs

Search   Advance Filter

Search

Status of Statistical Human Resources

- *Out of about 79934 (16th July, 2014) government employees, about 350 are under Statistics Service*

- *129 staffs are involved in statistical work in other Ministries and Government Agencies (MGAs).*

- *12 MGAs are having at least one staff assigned for statistical work*

- *7 MGAs has mentioned that they have professional statisticians & 5 reported the statistical work being done by non-statisticians*

- *A large number of Statistical HR work in CBS and very few in other ministries.*

Major Issues of NSS

- *Prevailing statistical laws and regulations have not been updated/amended*

- *Absence of effective coordination among the key players of NSS*

- *Duplication and inconsistencies in data generated by different producers. Data gaps specially for SDG monitoring.*

- *Limited use of administrative data/records & statistical advocacy/education*

- *Lack of a statistical training and research center for Statistical capacity development*

- *Survey clearance system and Data/information sharing*

International Support to CBS for Statistical Capacity Development (2015- 2019)

Major International partners to support CBS, Nepal

The World Bank

- *National Household Registration for Housing Reconstruction Program (Beneficiary Survey) Phase I-II (2015)*
- *GDP Rebasing (2019)*
- *Nepal Living Standard Survey (2019-20)*

DFID

- *Beneficiary Survey, Phase- III (2016)*
- *Population and Housing Census 2021*

UNICEF

- *Multiple Indicator Cluster Survey, Phase II (2019-20)*

UNFPA

- *Population and Housing Census 2021*

International Support to CBS for Statistical Capacity Development (2015- 2019)

UNDP
- *SDG Monitoring (2018-19)*

UN Women
- *Population and Housing Census 2021*

JICA
- *Economic Census 2018 (2016-2021)*

ADB
- *International Comparison Program 2017/ 2020*

IMF/ SARTTAC
- *Statistical Capacity Development for the compilation of Economic Statistics*

International Cooperation and Partnership for Statistical Capacity Development – A Case of post-disaster Survey in Nepal
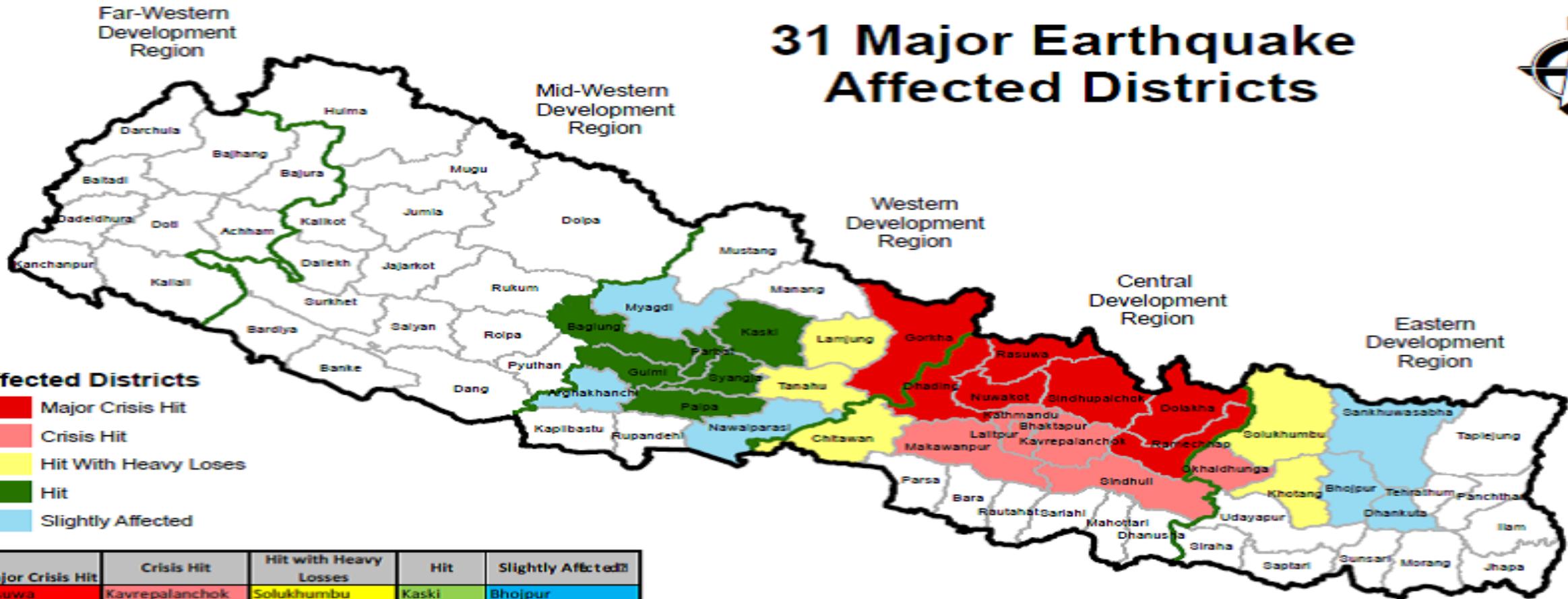
Major Earthquake in 2015 Nepal

- Apr 25, 2015 - **7.6 Rictor;** Apr 26, 2015 - 6.7 Rictor; May 12, 2015- 7.3 Rictor

P. Mathema, AFP

Niranjan Shrestha, AP

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Earthquake Affected Districts, Nepal 2015

31 Major Earthquake Affected Districts

Affected Districts

- Major Crisis Hit
- Crisis Hit
- Hit With Heavy Loses
- Hit
- Slightly Affected

Major Crisis Hit	Crisis Hit	Hit with Heavy Losses	Hit	Slightly Affected
Rasuwa	Kavrepalanchok	Solukhumbu	Kaski	Bhojpur
Gorkha	Sindhuli	Khotang	Parbat	Sankhuwasabha
Nuwakot	Okhaldhunga	Chitwan	Baglung	Dhankuta
Dhading	Makawanpur	Tanahun	Syangja	Argakhanchi
Sindhupalchok	Lalitpur	Lamjung	Palpa	Myagdi
Dolakha	Bhaktapur		Gulmi	Nawalparasi
Ramechhap	Kathmandu			

PDNA. Community Infrastructure Sector

Preliminary Estimates of Damages

Particulars	Nos./Amount
Persons dead	8,896
Missing	198
Injured	22,302
Affected Families	8,86,456
Displaced Families	6,49,815*
Houses Damaged (Fully)	6,04,930
Houses Damaged (Partially)	2,88,856
Total Material Loss	NPRs. 706 billion US$ 7 billion#

Source: Ministry of Home Affairs; *Situation Report of NRCS & #PNDA Report, NPC, the Government of Nepal

Urgency in Reconstruction of Damaged Houses

Launch Reconstruction Program (Building Back Better)

⬇

How to identify the affected HHs or beneficiaries?

⬇

Conduct Nepal Housing Reconstruction Survey (Beneficiary Survey)/ HRHRP

Objectives of Nepal Housing Reconstruction Survey (Beneficiary Survey)

The major two objective of the survey program are:

- To **assess the damage of houses** caused by earthquake and assign a grade (To identify the beneficiary for the reconstruction package)

- To **collect demographic and socio-economic data** of HHs in affected areas (to support the social security program)
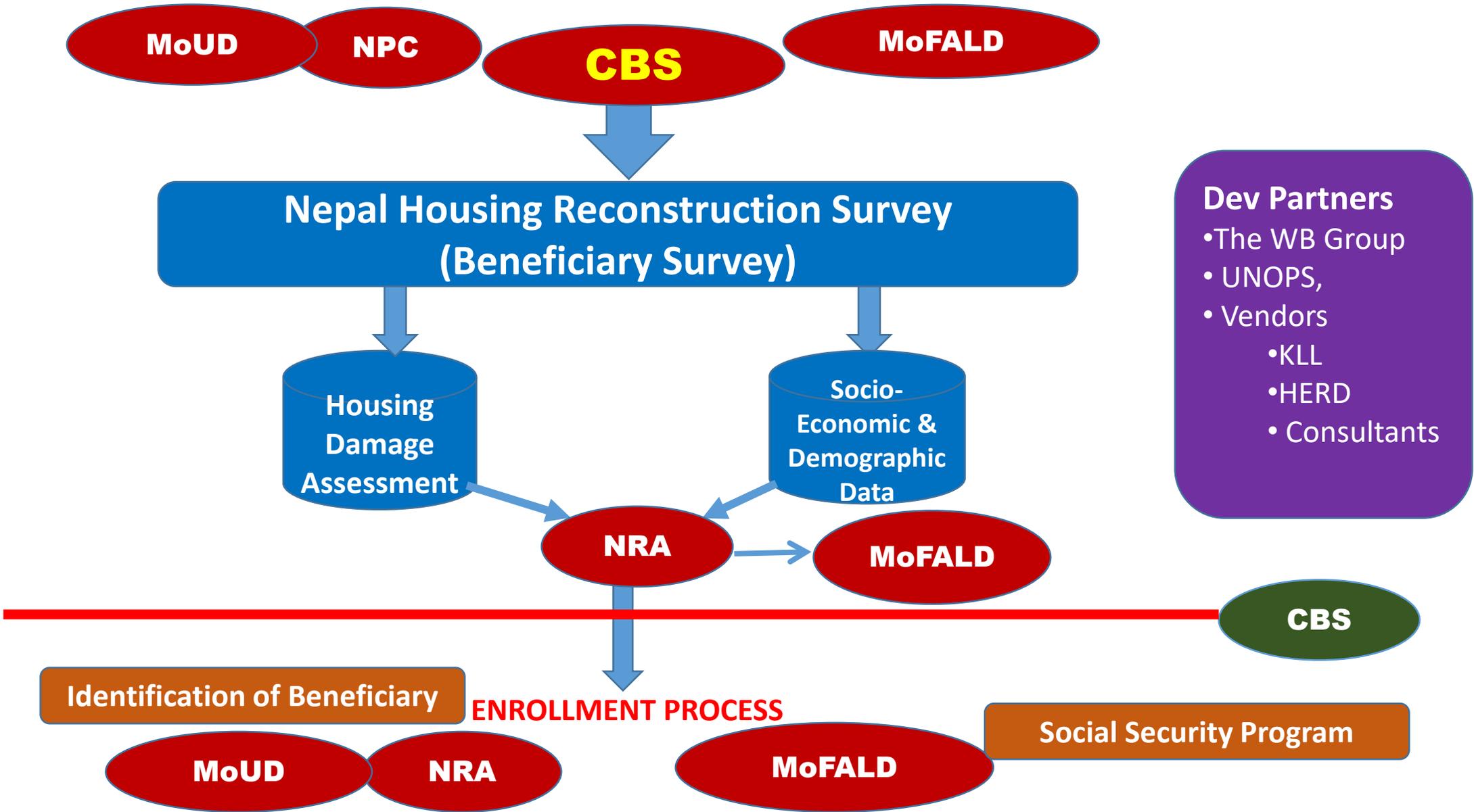
Agencies involved in Reconstruction Program

- **MoF**
- MoFALD
- MoUD
- NPC
- NRA
- **CBS**

DP
- **The World Bank Group**

Key
- UNOPS
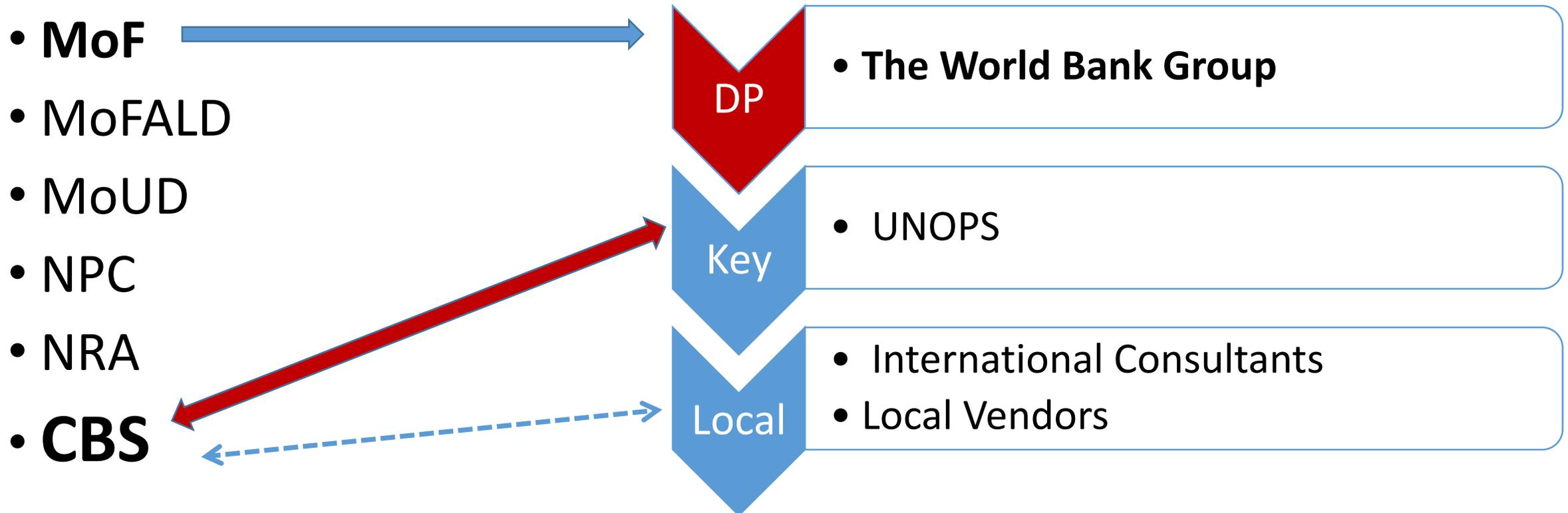
Local
- International Consultants
- Local Vendors

The proposed modality of the Survey

- Mobilizing **3000+ engineers** (civil/structural) as enumerators/supervisors and team up with SM (local facilitators)

- Adoption of **CAPI** (Tablet based) - Android

- Recording **GPS coordinates** of each houses

- **Photos** related to housing damage, house-owner, citizenship certificates and other docs

- **Daily uploading** of collected data to government server

- **Real-time Central supervision** with location tracking using dash board by Structural Engineers and Statisticians

- **Daily progress reporting** (SMS)

Coverage

- Census in 11 highly affected districts

- Verification Model (Survey) in 3 highly affected districts

- Verification Model (Survey) in 17 Moderately Affected districts

- Total HHs to be surveyed – One million +

- Expected a huge database with

  - Around 10 million photos of damages and related

  - detailed demographic and socio-economic data of affected HHs

Modality of support from DPs to CBS for the survey

- CBS finalized **survey program** and handed to the WB Group.

- Procurement/ logistic support/ hiring engineers and other HR by the DPs- Hence UNOPS introduced

- Based on the approved program, CBS (CTTF) requests UNOPS for he logistics, HR and other services to conduct the survey. Major procurements by UNOPS
  - Hired all 3000+ engineers with the help of the local vendor.
  - Tablets , Power banks and accessories
  - Application developer
  - Servers , software and accessories
  - IT Officer
  - Training support

Human Resource Management for the Survey
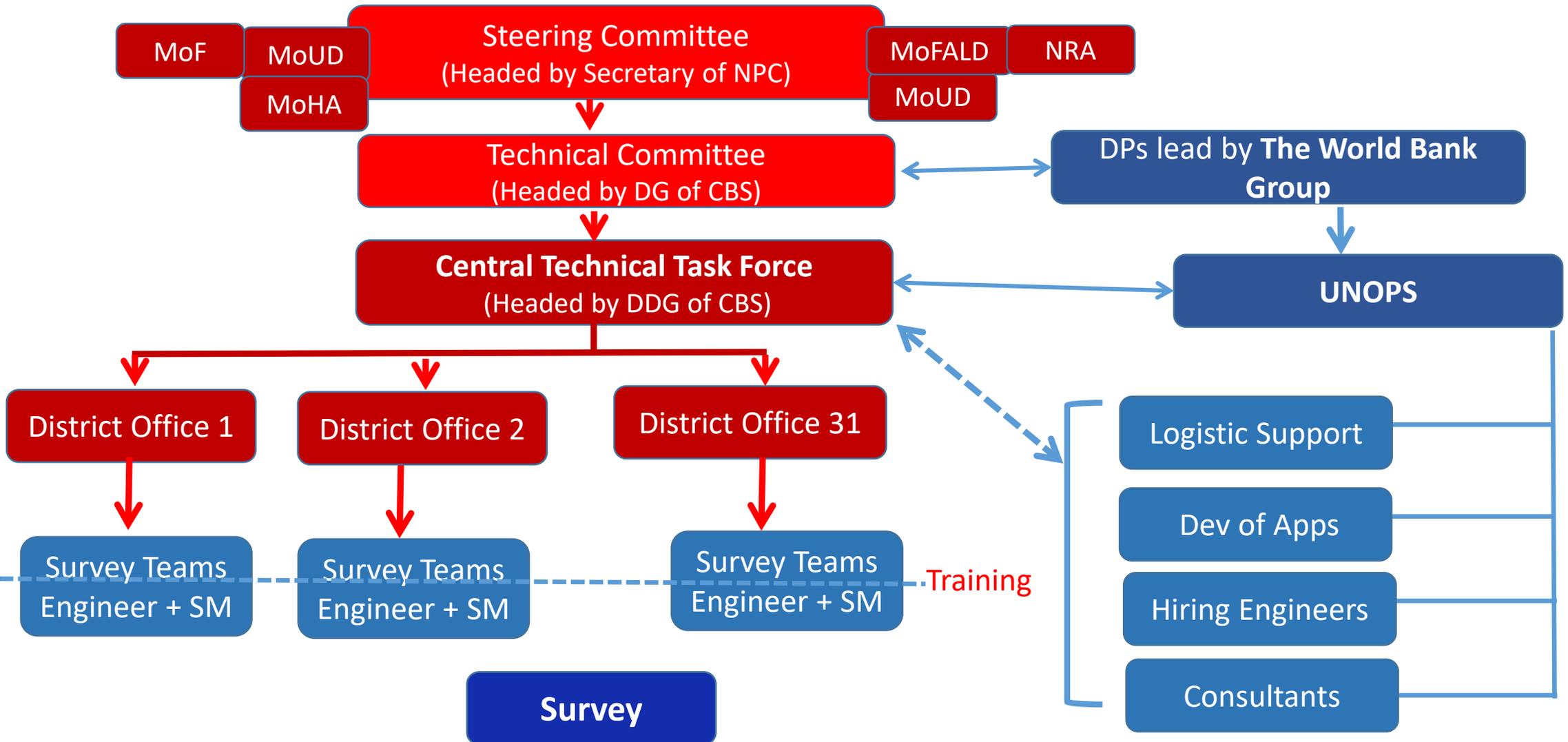
Human Resource from CBS and other GoN Agencies

Overall Survey Design/ Planning, Questionnaire, Manuals, Training and Field operation plan

Survey and Field Management Team

Database Management

Logistic Planning and Management

Logistic Planning and Management

Communication Plan

Areas that needed Support of DPs for Human Resource Management

Financial Management — Development Partner (WBG/ UNOPS)

Procurement and logistic for training — Procurement Specialist and vendors

Quality Control (Data) — Structural Engineers + Senior Statistician

Application and Support — Application Developers + IT experts

Field operation/Data Collection — Engineers + Social Mobilizers

Server Management — **Computer Officers + Server Managers**

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Government of Nepal

Collaborative Approach for Beneficiary Survey

MoF MoUD

Steering Committee
(Headed by Secretary of NPC)

MoHA

MoFALD NRA

MoUD

Technical Committee
(Headed by DG of CBS)

DPs lead by **The World Bank Group**

Central Technical Task Force
(Headed by DDG of CBS)

UNOPS

District Office 1

District Office 2

District Office 31

Survey Teams
Engineer + SM

Survey Teams
Engineer + SM

Survey Teams
Engineer + SM

Training

Logistic Support

Dev of Apps

Hiring Engineers

Consultants

Survey

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Government of Nepal

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Housing Reconstruction Data (HRD) Workflow

1. Surveyors collect data in tablets
1. Surveyors collect data in tablets

HRD Collect
(Tablet Data Collection App)

2. Data From Tablets

GIDC Server

3. JSON Data split into separate tables

MySQL Database in GIDC

4. CSV Tables for CBS

Data in Stata at CBS

5. Validated Data

Reconstruction Authority, MOFALD
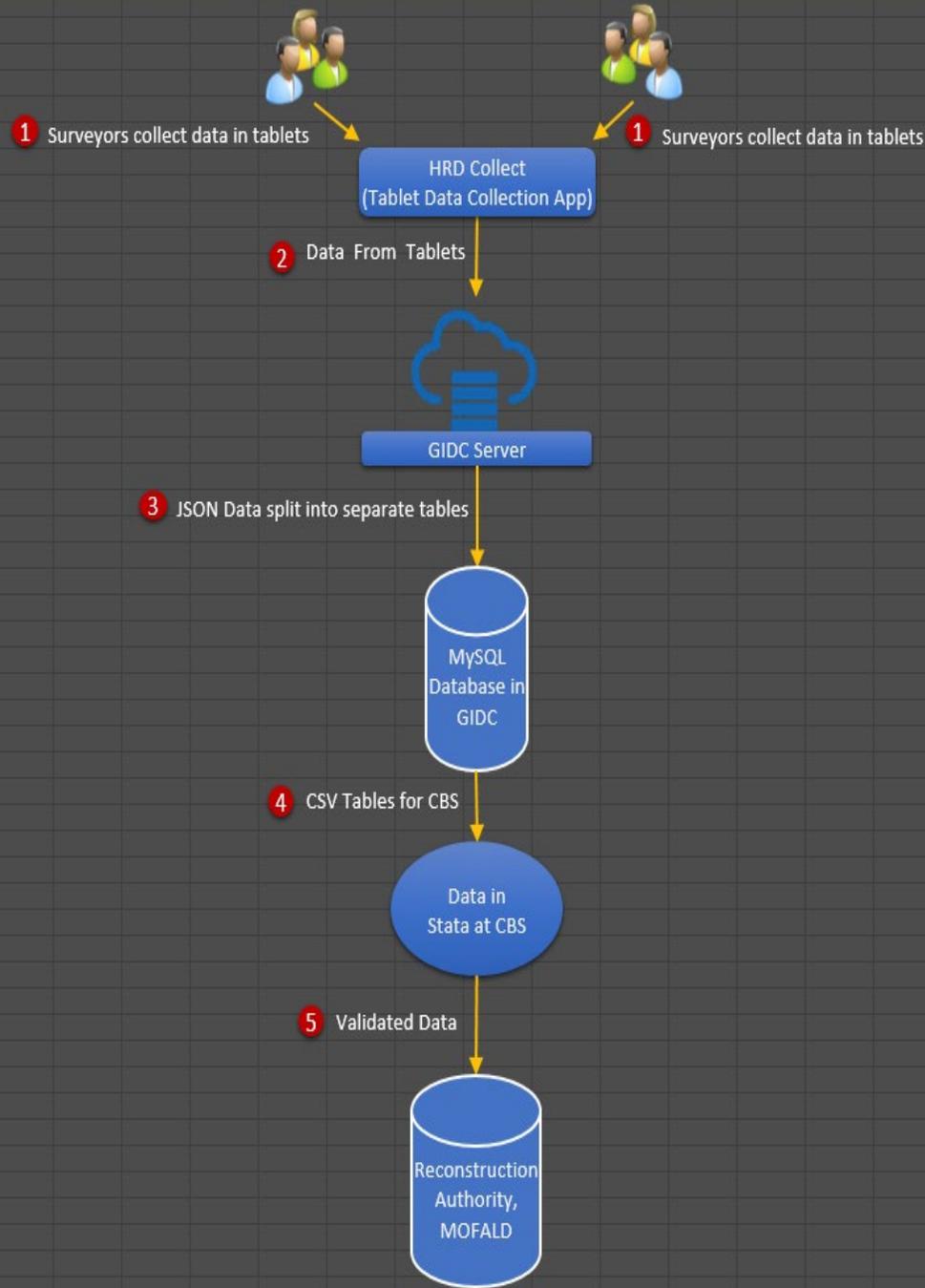
Timeline for
Nepal Housing Reconstruction Survey 2015
Phase-I (11 most affected districts)

April 25, 2015
Earthquake

June 10, 2015
Planning Survey

Jan 3, 2016
Data Collection
Phase I

May 13, 2016
Completed Phase I
11 districts

6 Months 24 Days

4M 9D
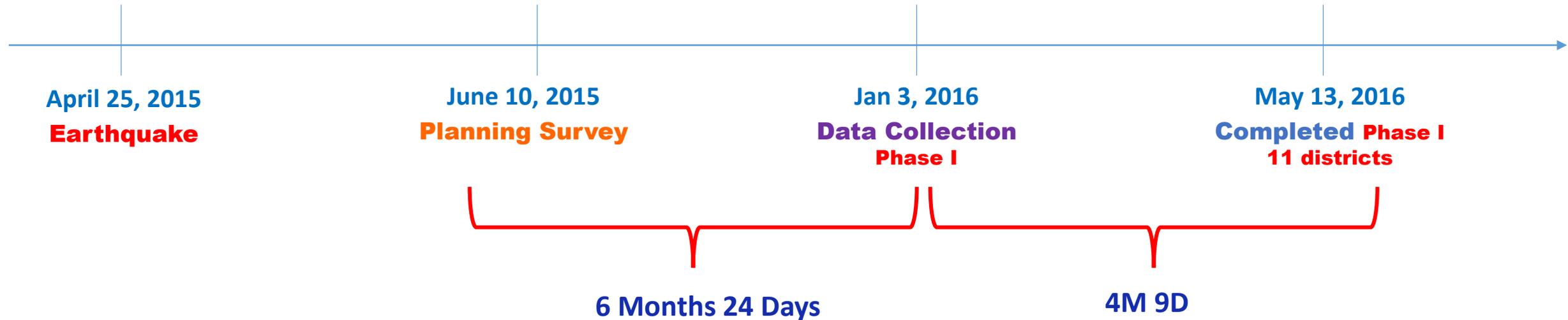
Surveyed in Phase I:

- Total Houses Surveyed – **762,106** houses
- Total HHs Surveyed – **747,363** Households
- About 77% of the total surveyed Houses are damaged with the grade 3 and above.

Outcomes of NHRS

- Total Households Surveyed: **1,036,568**

- Eligible for Housing Grants: **828,895 (80%)**

- Eligible for Retrofitting Beneficiaries: **69,973 (6.8%)**

- The progress of the reconstruction of houses is **86 percent** (As of Feb 05. 2020)

Government of Nepal

Magnificent Mountain View from Barpak Village

Thank