



NATIONAL POPULATION REGISTER (NPR) BANGLADESH

One person. one record. one system - no deletion only update



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5W1H Method

- WHO → BBS → SID → MoP
- WHAT → NPR (National Population Register)
- WHEN → Golden Jubilee of Bangladesh
- WHERE → All over the country
- WHY → Digitalization and cost effectiveness
- HOW → Though Raw Data Crawling and Migr
Digital System.

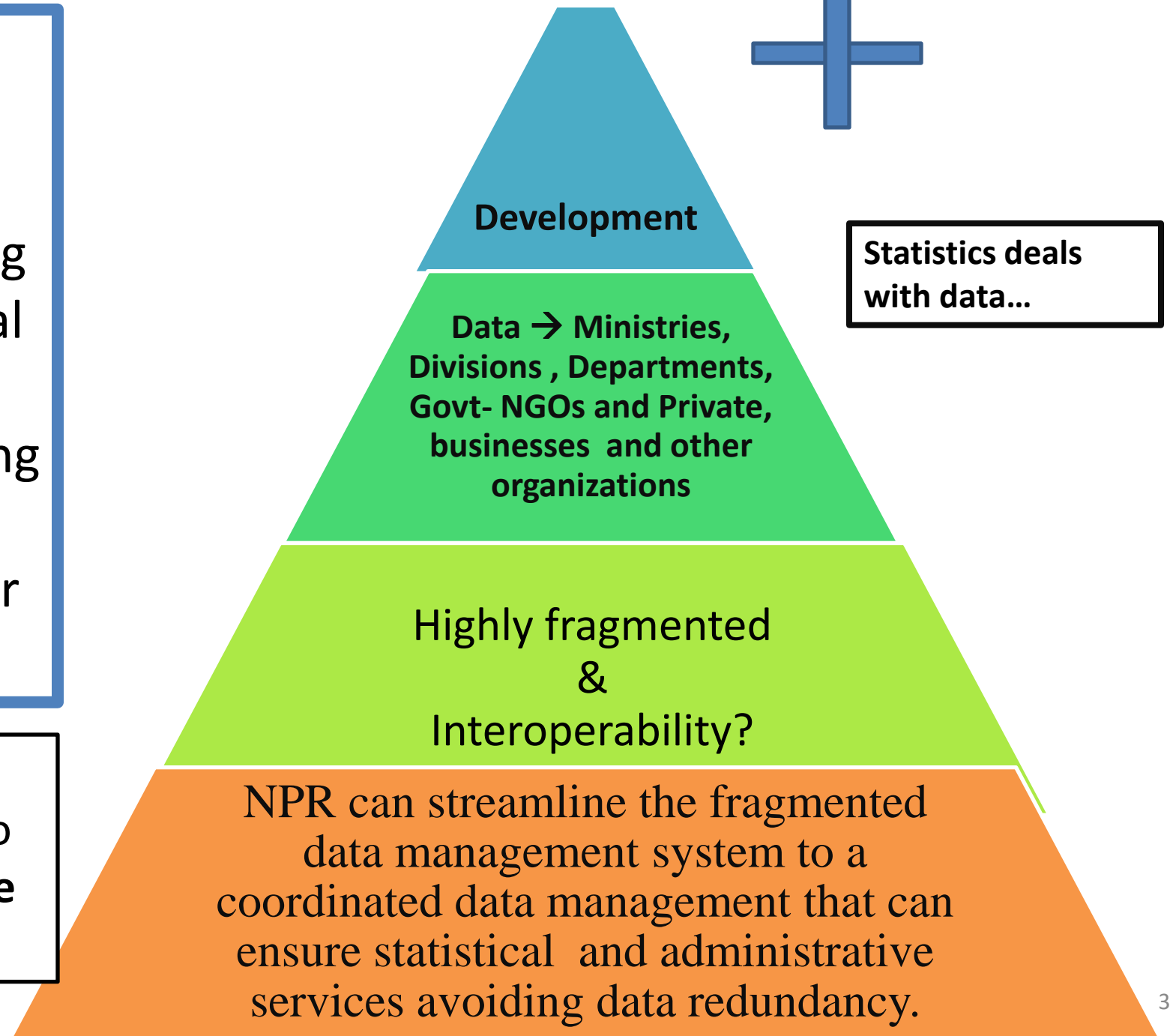
Less well known like –vital statistics, census and surveys



1. Background

NPR is a comprehensive database containing particulars identifying every usual individual resident +/-6 months in the country –having biometric and demographic & other information .

Precise data of every human being from born to death and onward.. **Cradle to grave onward**



Logic behind NPR- You are unique

- Babies born like thousand babies-
- After few months: name-apart from thousands
- **OTHER IDENTITY MAKES UNIQUE-**
 - ❖ Date of birth
 - ❖ Place of birth
 - ❖ Gender
 - ❖ Fathers / mothers name
 - ❖ Husbands / wife's name
 - ❖ School/ college / university

● **VERIFY :**

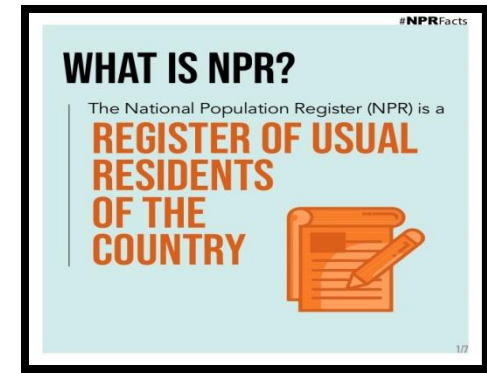
- ✓ Birth certificate
- ✓ School leaving certificate
- ✓ Ration card
- ✓ Driving license
- ✓ Passport number

How Bangladesh can be benefited through NPR ?

1. Proper monitoring & Supervision the benefits and services under Govt rules and authority.
2. Elimination of all wastage of resources like safety net program, all benefits etc
3. To prepare a credible up to date register of every family & individual of the country – Assets management - land litigations- criminal records- family tree
4. No Duplication and No elimination of data- every human being is unique – view only
5. Scientific mechanism of continuous recording & updating –digitization
6. Coordinated linkage of all selected information- interconnectivity and operability.
7. Single reference point of contract of every individual(16 digit – laminated card)
8. Tracking all delivered services for each citizen - all the time permanent and updated–treatment , education , marriage etc guarantees of highest confidentiality.
9. Central authentication system -no deletion only updating with new information if any .
10. Ensuring E- service for getting better services – quick but correct information delivery and recording.

Man may come and man may go but data will never die if once recorded then only updated under particular system and authorized person.

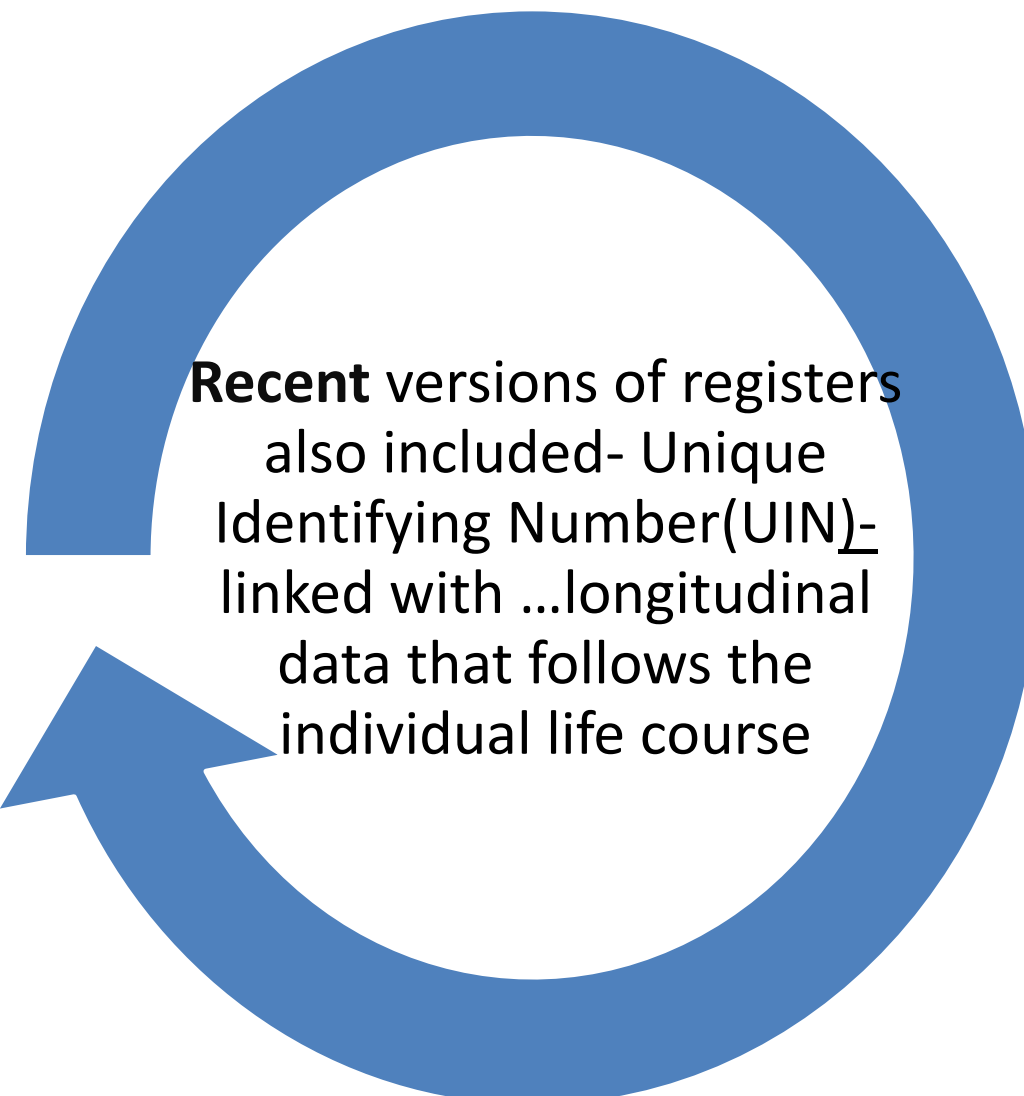
Who can get enrolled in NPR ?



- a) Resident for the past 6 months or more or
- b) Intends to reside in that area for the next 6 months or more.

No one's data should be deleted from the register .

- Once recorded the status will be updated continuously (every event)
- Centralized individual data in strict compliance with rules and protection .

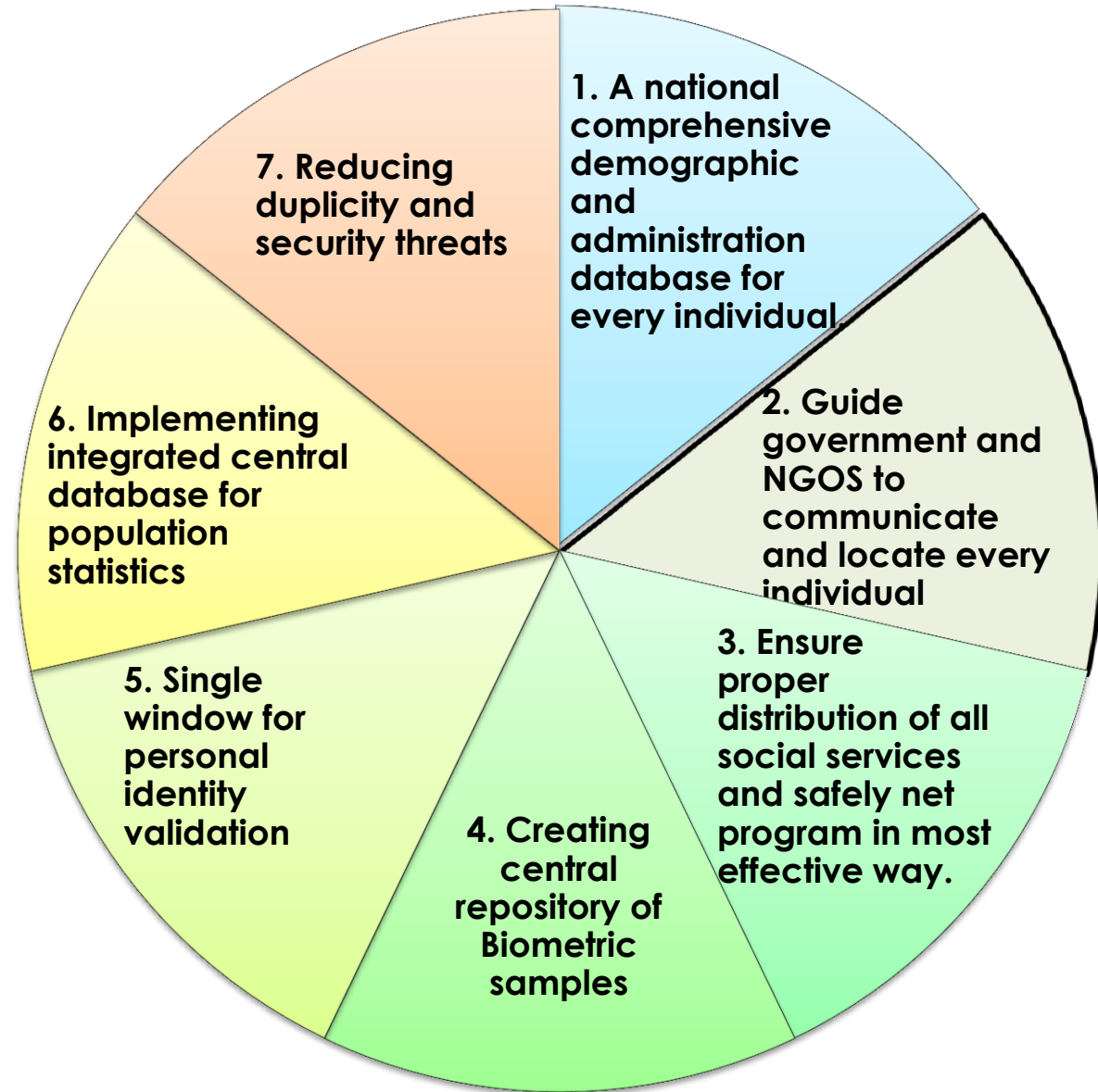


Recent versions of registers also included- Unique Identifying Number(UIN)- linked with ...longitudinal data that follows the individual life course

- Vital statistics,
- Social security,
- Health,
- Judicial statistics,
- Educational statistics,
- Statistics for household income and consumption,
- Labor statistics,
- Income tax statistics
- Housing statistics
- Trade ,Agriculture, Fisheries, Migration
- Housing, Transport

OBJECTIVES OF NPR

Improved & quick planning and decision making preventing all types frauds.



DATA CLASSIFICATION: DEMOGRAPHIC INFORMATION

To NPR –registration of data mandatory for all .Declaration of changed data-change of residence

1. Personal : (CCDS,2019)Name of the Person , sex, education, date of birth Place of Birth, marital status, religion, Duration of stay at present address, Permanent address etc.

2. Legal : NID, Passport, Mobile Number, Birth registration etc.

3. Family : Father's name, mother's name, spouse's name, Relationship with the household head etc.

4. Employment: Occupation ,Company name, address, designation, contact info.

5. Health : Disability status, Chronic & genetic diseases etc

6. Economic : Type of Household, water supply of the household, economic condition of the household

7. Other : Nationality, Education, Citizenship, Residence, Geo Code of Present and permanent address etc. .

1. [Finger Prints](#): 10 Fingers (Including new born)-fingers are unique-photographed and stored for future reference.
2. [Face recognition](#) : facial bio-metric .- most commonly identify us-recognized from video and photo –featured extracted and stored for future reference
3. [IRIS Scan](#) : [Capture](#) both eyes-unique structure for every person-capture the details of IRIS for an individual and store like photograph.
4. [Picture](#) : Full photo

- ✓ **Enumerators** will visit house to house- CAPI .
Activities– totally free.
- ✓ **Advertisement** - Print –electronic and all other social medias - drum beating, mike, banners ,posters official and unofficial meeting .
- ✓ **Enrollment camps** – 1st and 2nd in every locality .
- ✓ **Complain** –e-mail, SMS, Phone , Paper in person.
- ✓ **Appeal for enrollment** – printed forms -Upa-zila level – hearing and proofing by Govt. officers .

<h2 style="text-align: center;">Population Registration (PR)</h2>	<h2 style="text-align: center;">Civil Registration (CR)</h2>
<p>The PR depends on sharing data, both aggregated and individual records, across interoperable databases.</p>	<p>The CR has records of vital events i.e. Births, Deaths, Marriage, and Divorce, Separated, widow</p>
<p>Uses :</p> <ul style="list-style-type: none"> ❖ Biodata, Reduce Land litigation ❖ Travel , Family tree ❖ Biometric information. ❖ National security, ❖ Human trafficking, ❖ Drug trafficking ❖ International crime, ❖ Socio –economic development, ❖ Single version of truth about individual, access govt services , ❖ Entitlement with lot of ease , constitutional right – electioneering , <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Any authorized org can issue certificates using these data.</p> </div>	<p>Judge Family relationship</p>

National Population Register - Characteristics

1. For the usual resident of a country +/- 6 Mn
2. Continuous and up-to date recoding process with a legal basis
3. Automatically linked with current basis- always current
4. A digital hub of the country having demographic , biometric and other relevant data –Ethnic group, religious identity, life expectancy etc.
5. Single record –permanent – error and duplication free
6. Internal and international migrations though residence changes .
7. Much information easily added -Marriage , divorce , cause of death
8. Comprehensive identity database of every usual resident of the country .

Civil Registration (CR) System

1. Continuous permanent & compulsory recording occurrences of **VITAL** events – birth , death, fetal death , marriage , divorces ,judicial separation, adoption, legitimation and recognition .
- 2.CR is performed under a law, decree or regulation.
3. Obtaining detailed vital statistics on a regular basis
4. Vital records designing and implementing public health programs and carrying out social, demographic and historical research.

Census- Characteristics

1. The largest single source of a variety of statistical information on different characteristics of the people.
2. A basis for **reviewing** the country's progress in the past decade, monitoring the ongoing schemes of the Govt and plan for the future.
3. It provides detailed and authentic information on demography, economic activity, literacy , education, housing and household amenities, urbanization, fertility and mortality,
4. Census happens after 10 year interval .

Brief History of NPR

17th
century

- Japan
- China

18-19th
century

- Sweden and Finland
- Hungary

20th
century

- Belgium, Chile, Germany, Italy
- Korea, Luxembourg, Netherlands, Spain, Switzerland

1960 → Introduced electronic format and kept -local and national level

1990 → European countries- started some proposal identification number

2011 → India introduced NPR

*Defined by UN @ 1969

NPR

Statistical - 7

Administrative -3



1. Population Estimation

2. Generation of Internal Migration Statistics

3. Generation of International Migration Statistics

4. Planning and Designing Population Census

5. Validating results of Population Census

6. Determining and updating the sampling frame for the sample survey

7. Genetics Studies for generating statistics

8. Identification of an Individual

9. Electoral Roll

10. Others

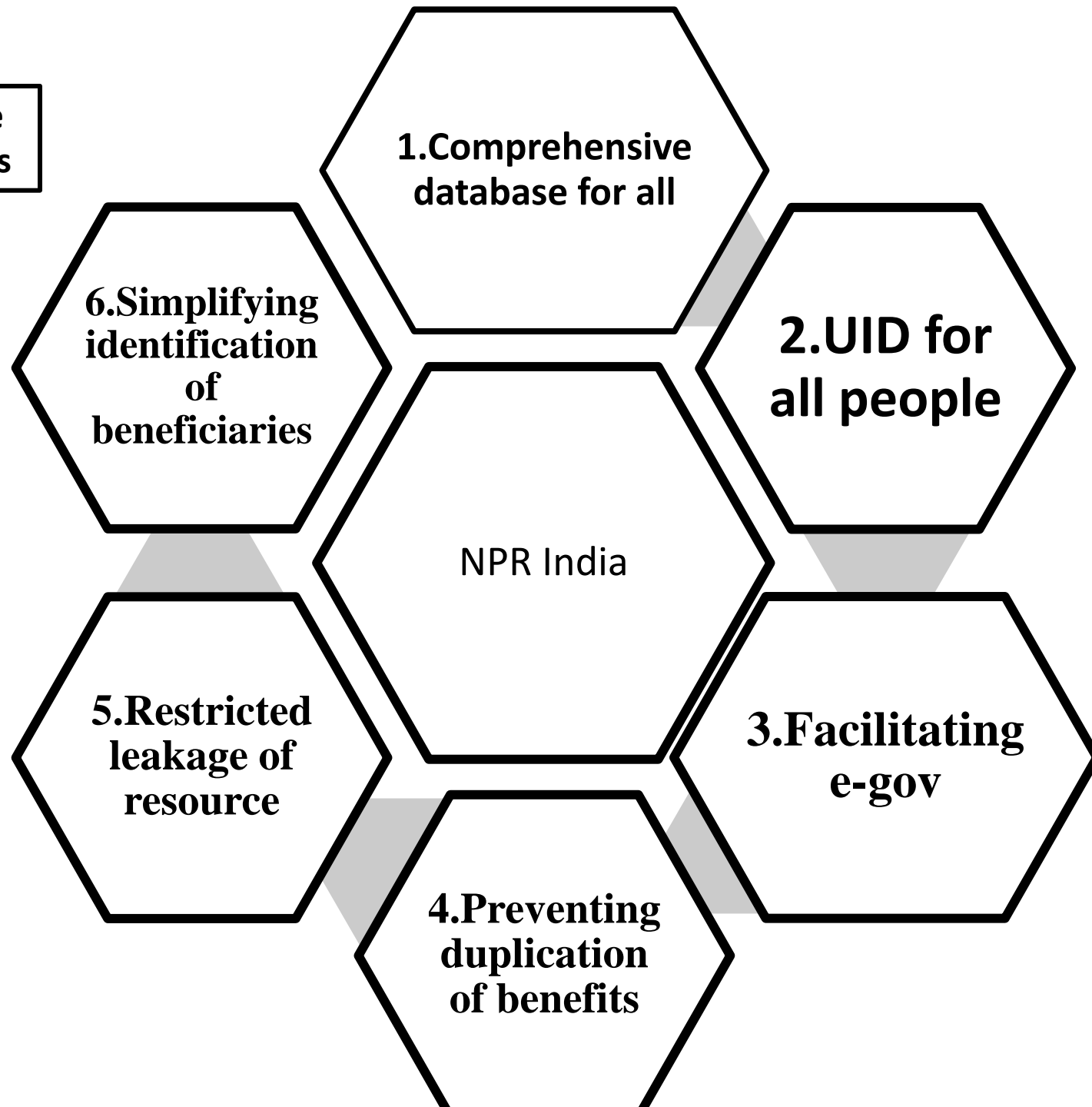
Mainly two-dimensional usage of a NPR:

1. Statistical.
2. Administrative

UN (1969) examined 65 registers globally and **identified 10 (ten)** specific categories of uses. These are

CASE STUDY -INDIA

Indian census is one of the largest census



1. Digitization of demographic data captured during house listing operation in 2010 census
2. Collection of biometric data (photo, 10 fingerprints, iris of both eyes) for **age 5+**.

- ❖ Primarily, the exercise of developing NPR was done in 19 states of two union territories.
- ❖ Updating the database of the NPR mobile application,
- ❖ The application also provides the option for individuals to study the collected data of a household and certify it using a signature.



AADHAAR

- ✓ World largest biometric ID (Wikipedia).
- ✓ WB chief-the most sophisticated ID program in the world.
- ❖ Not mandatory but voluntary. It is free of Cost. Plastic Glossy paper/limited QR code scanner .
- ❖ Considered a proof of residence and not a proof of citizenship.
- ❖ 16 Digit –Based on Biometric and Demographic information .

- ✓ Useful at all stages of life cycle.it is a number Virtual ID .
- ✓ If anyone takes false name ID card- protect the real one also.
- ✓ Used for customer care protection. Plastic Glossy paper/ QR code.
- ✓ Framing policy and procedure- quick delivery of all services but not guarantee for any benefit..
- ✓ Eliminate duplication and frauds or theft. Prevent ghost beneficiaries
- ✓ Holders can scan and save their documents on Cloud-share with anyone-no need to carry them.

AADHAAR



- ✓ Finger print of rapist – protect school girls
- ✓ Check late arrival and absenteeism of Govt service holders.
- ✓ Check criminal records- prevent fake profile
- ✓ Protect women from exploitation – marriage false person
- ✓ E KYC- Electronic Know your Customer.
- ✓ Land types and categories- rural and urban properties- Textual data, Spatial data

BANGLADESH – NPR?

NPR and BBS - ANY LEGAL BASIS?

To prepare ,update and maintain

1. Statistics Act 2013 : Section 6: “For carrying out the purposes of this Act, the functions of the Bureau shall be as follows, namely: **6 (p)** to make National Population Register and update the same, from time to time;”

2. Allocation of Business –Statistics and Information Division

- ❖ Preparation, maintenance and revision of National Population Register (NRP) as a central repository jointly with the other Govt. agencies
- ❖ Providing assistance for creation and maintenance of department system linked to NPR
- ❖ Providing NPR-based services security to various government and non-Government agencies and ensuring appropriate access control.

3. National Strategy for Development of Statistics (NSDS)-set Goal of Developing NPR.

4. 8TH FIVE YEAR PLAN :As NSO, BBS will prepare and update the NPR to provide information of each and every individual of the country with a unique identification number for ensuring effective service delivery.

Initiatives for NPR in Bangladesh??

- ❖ The development NPR in Bangladesh at the very initial stage.
- ❖ **The first-ever initiative:** Prime Minister's Office (PMO), a2i Project and the then Statistics Division in 2010.
- ❖ A kick-off meeting was held in PMO with the Chair of then Principal Secretary Mr. Md Abdul Karim **on 29 June 2010.**

Representatives and Secretaries Participated:

- ❖ Secretary, Statistics Division
- ❖ Director Generals of PMO were present in that meeting
- ❖ DG , BBS
- ❖ NPD a2i,
- ❖ System analyst BBS.
- ❖ Director Census/PD PHC -2011

It was decided in the meeting that **BBS will develop a NPR based on Population Census data** and all other databases e.g. National Identity database created by Election Commission will be **integrated** with that register.

MoU among SID, BBS and a2i

Date	Parties	Target
On 15 Nov 2010	BBS and a2i	To explore the problems and prospects of developing NPR in Bangladesh
On 21 May 2013	BBS and a2i	To strengthen the informatics dimension of BBS and SID which also include a specific purpose of developing NPR.

Piloting :Experience

Time	Location	Result/recommendation
1 st – 15 Nov ,2010	MOU- BBS +a2i A slum – Dhaka town and a Village ??	No out put ?
2 nd -20 July ,2011	Gazipur Dist – Kaligonj Upazila	Drowsy ? A2i and election commission
3 rd - Janu - Dec 2013	Manikgonj Sadar Upazila – Tangail – Nagorpur Upazila	Positive
Last -2015	25 April ,2013 – WB – Safety net System of the Poorest (SNSP) - Component -3> Bangladesh Poverty Data Base > But 15 th May,2013> Inter Ministerial Meeting >Development of the Poverty Database > National Household Database (NHD).	??? NPR ????

WAY-OUT FOR BANGLADESH ?

RECODING IN BOTH -BENGALI AND ENGLISH

No data in NPR no Govt facilities and benefits ...

BBS has expert manpower and logistic having legal mandate etc

One person, one record- no deletion only update

Each piece of information about an individual should be registered in **one place and one place only**.

EX-A tax office can register and process information related to a person's occupation and income.

- One Card for every one. Each household should one page.
- Constantly record the variation that occurs every persons life – birth death, change of dwelling , education , treatment, marriage , tax,
- Data change and updating is permanent.

Advantages of single registration for multiple uses

1. One central authority will manage the entire system
2. Same forms and procedure used through out the country
3. Consistent training and technical assistance
4. Uniform archival practices for maintaining vital records
5. Easy to govern collection, sharing and disclosure of data

1.1. NHD-MIS AS A BASELINE DATABASE

- Assigning Unique Individual ID for each person
- Assigning Household ID



1.2. INTEGRATION OF DIFFERENT DATABASE

- Link Census data
- Linking NID, Passport, Driving License, Tax etc. (Details Attached)
- Extracting Information from the databases



1.3. ANALYSIS OF DATA GAP FOR NPR

- Analysis of Demography Data
- Biometric data – demographic etc



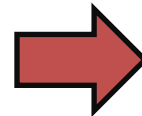
1.4. DEMOGRAPHIC DATA COLLECTION

- Field operation for Data Collection
- Data processing and entering into database



1.5. COLLECTION OF BIOMETRIC DATA

- Setting Up Infrastructure of Biometric Data Collection
- Collection of Biometric Data



1.6. FUTURE UPDATING

- Two color cards – Residents – Green – Non residents – Red
- Setting Up Infrastructure of Biometric Data Collection
- Administrative/ Human Resources Set up

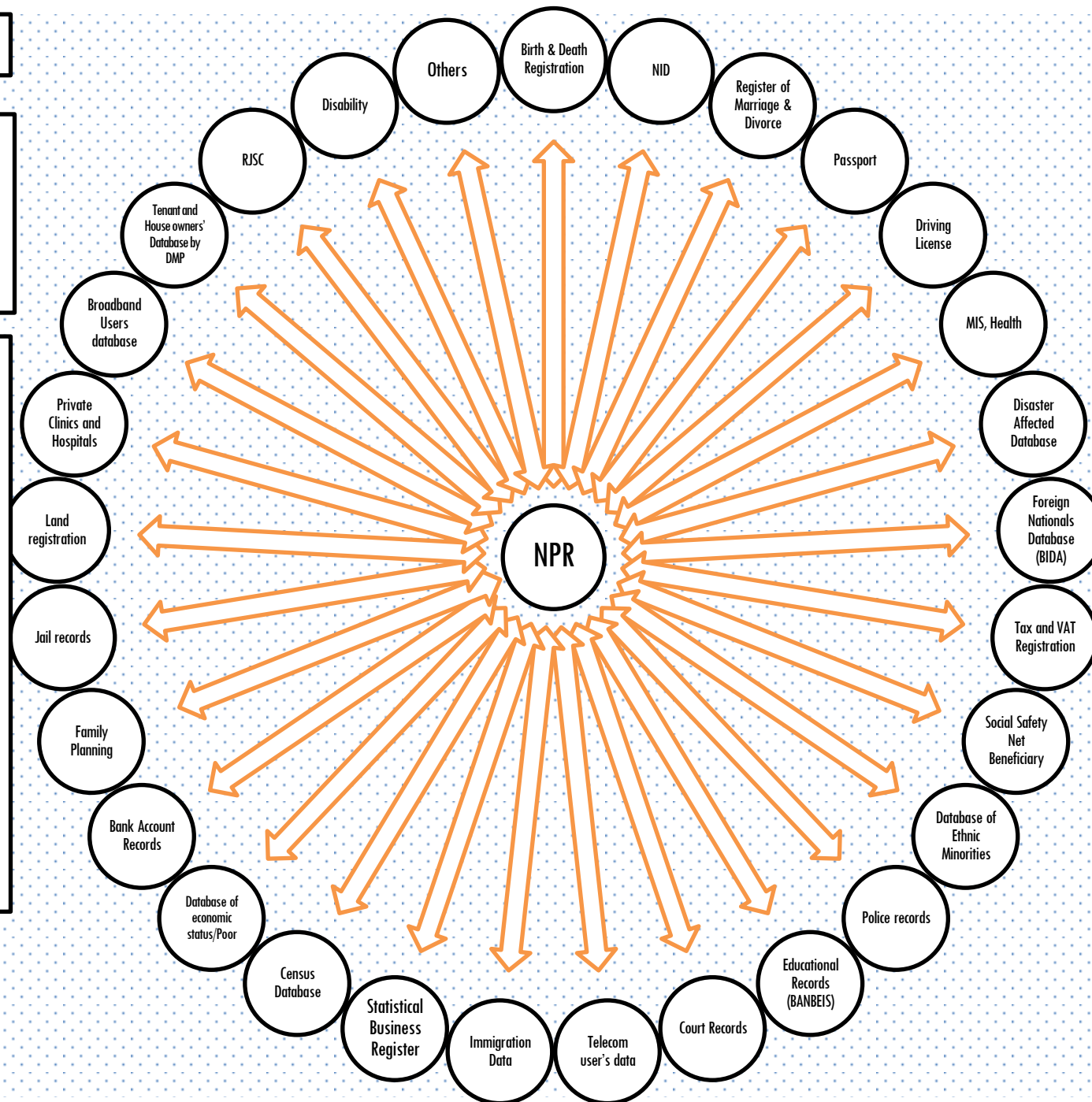
Work flow – NPR (BBS – Data center)

Link of NPR with others

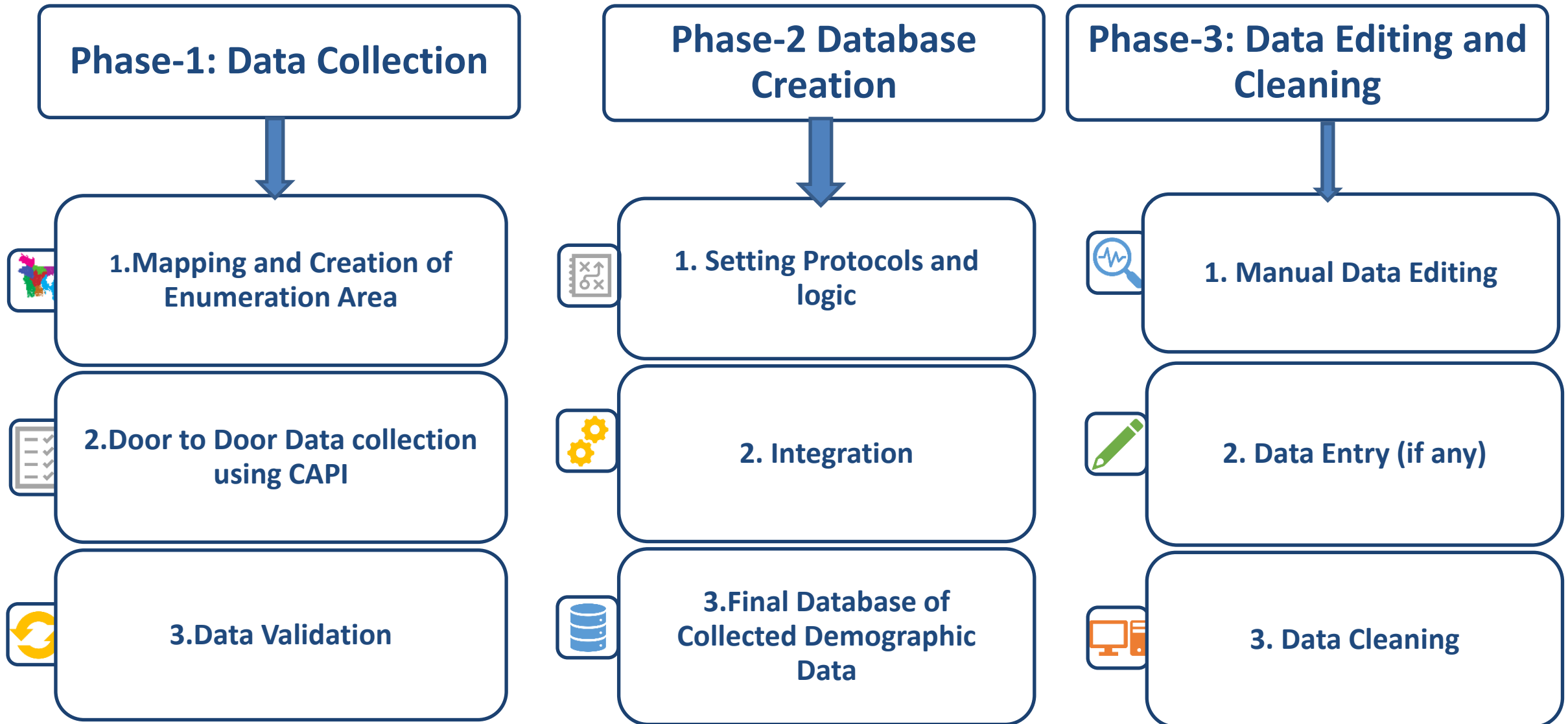
Integration is mandatory.

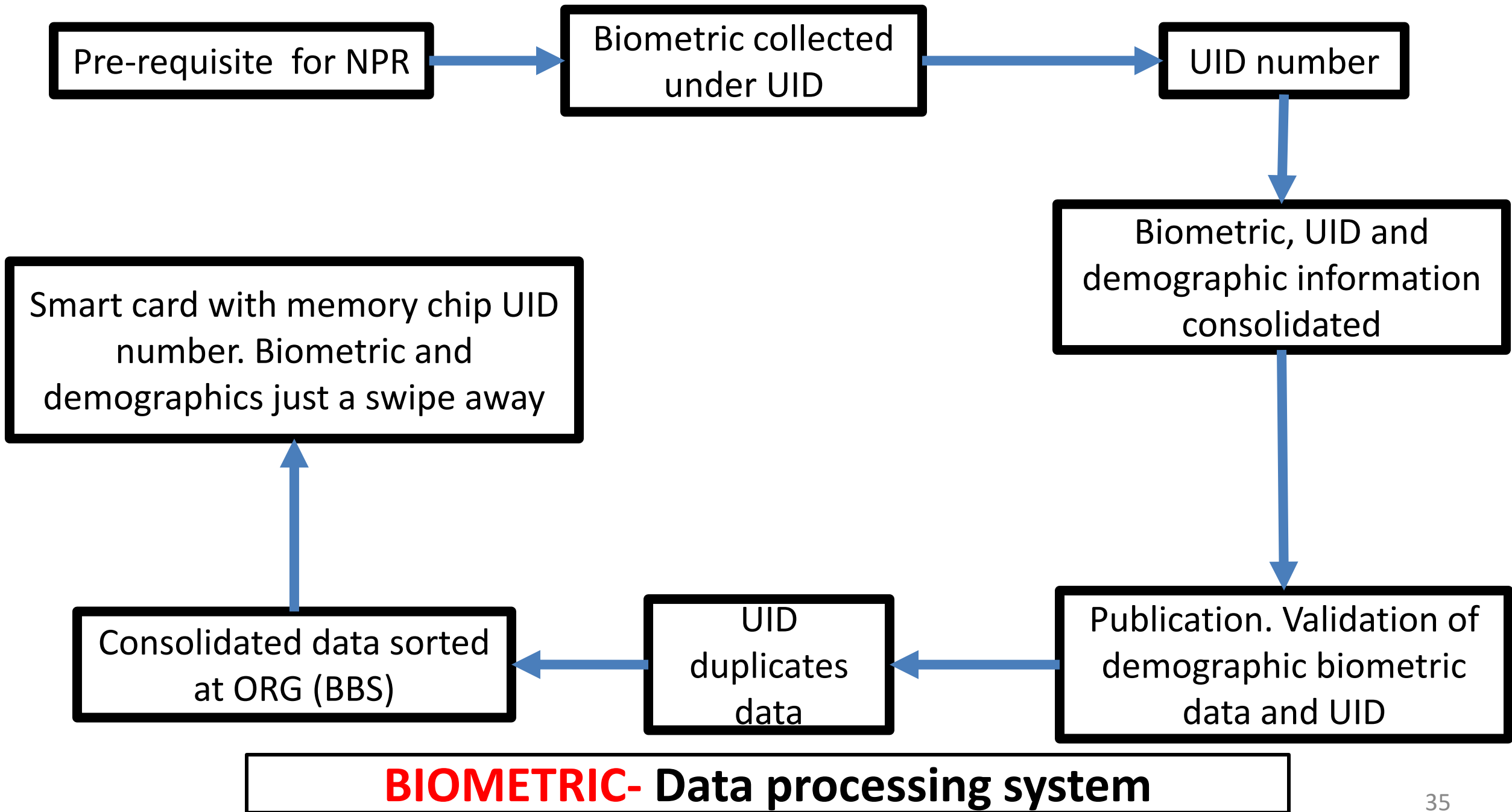
Benefit ?

1. Accuracy and reliability in all Govt data.
2. Quick & cost effective.
3. Use of different organization 's efficiency and new collaboration



Phases – **DEMOGRAPHIC** data collection and processing

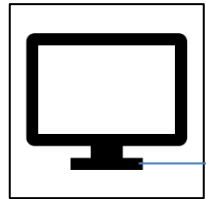
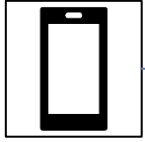




Total NPR Work Flow- Central Database

System Integration

Mobile app

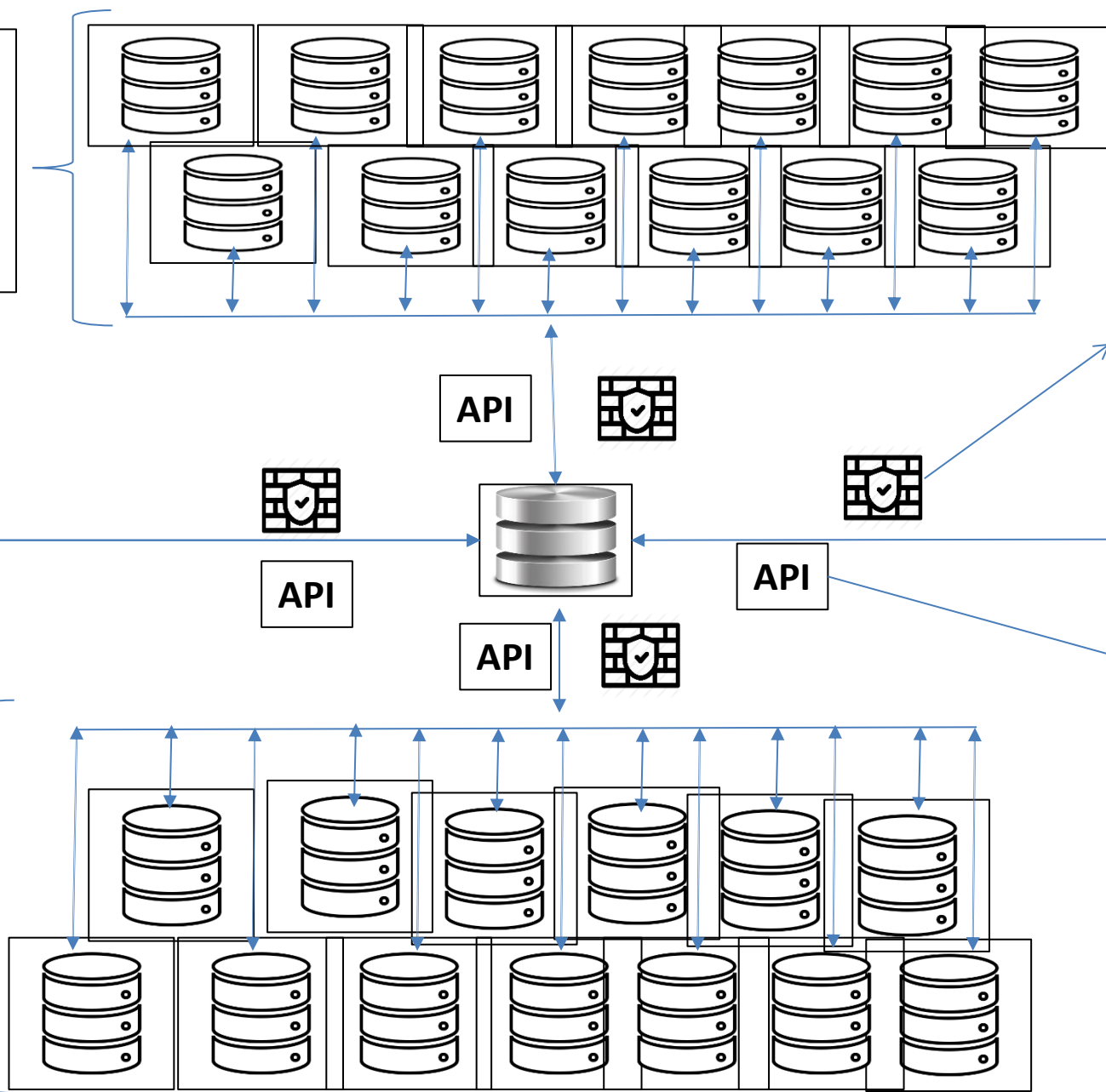


Web

System will ensure Confidentiality, Privacy & Security

Databases

Databases



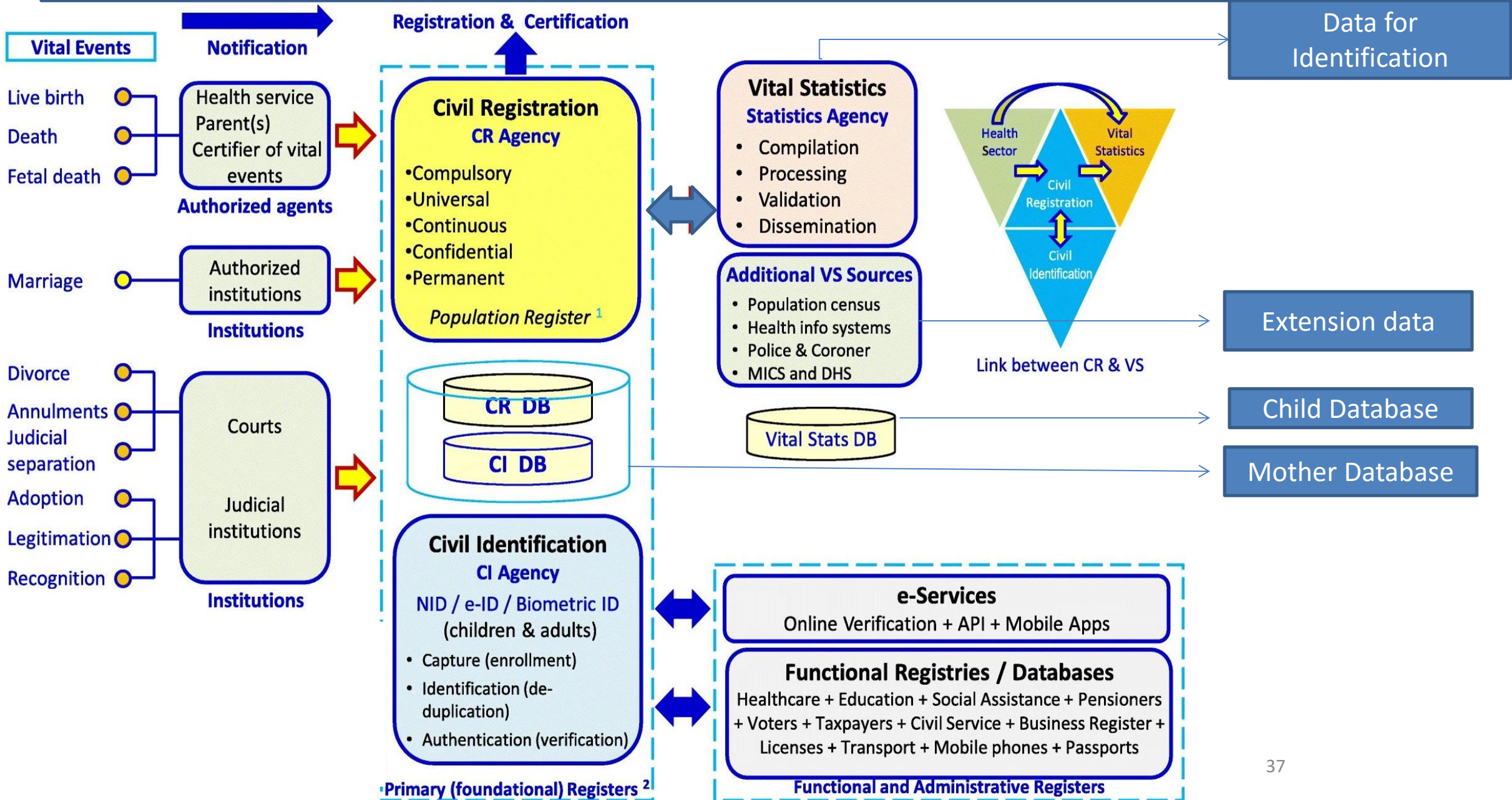
A **firewall** is a network security device that monitors incoming and outgoing network traffic and decides whether to allow or block specific traffic based on a **defined** set of security rules.



View only

Application programming Interface
 -interactions
 -customized
 - Interoperability

Coordination arrangements among the PR, CR and other registers



CAPI-Computer-Assisted Personal Interviewing Technique- use electronic questionnaires on Laptops, Tablet PCs, Smartphones etc

1.TIME BENEFITS

- ✓ No data entry period,
- ✓ Communication and Analysis immediately possible
- ✓ No much cleanings and all those struggles

2COST BENEFITS

- ✓ Printing and Transport of Questionnaire,
- ✓ ICR scanning and Storage space
- ✓ Operator's salary, Computers room

3.QUALITY BENEFITS

- ✓ Quality check control,
- ✓ Quick Feedback,
- ✓ Easy modification of questionnaire,
- ✓ Introduction of various validity checks and control totals

4.OTHER

- ✓ Integrated Maps and Global Positioning System (GPS) used. Computerized case management system.
- ✓ Automated skip patterns,
- ✓ Simultaneous process for data collection, data capture, editing and consistency and non-response check,
- ✓ Automated coding, Ability to pre-load questionnaire responses and customized questions.

FUTURE PLAN – Sustainability -Committee ??

- 1. National level** –Chair – Secy SID/Cabinet Secy.
Co- Chair- DG, BBS
MS- Director CW/ PD
- 2. Division Level-** Chair- Div. Commi.
MS- JD , BBS
- 3. District Level –** Chair – D C
MS- DD, BBS
- 4. Upa-zila Level-** Chair- UNO
MS- SO
- 5. Union Level -** Chair- Govt nominated any cadre off
MS-Upazila - SI

Continuous
recording and
updating
information

1. New Technology – population dividend
2. NHD and Census database- Geo coding system .
3. Physically person identified at any moment
4. Reduction of number of mistakes due to human error
5. Dynamically updated for births, deaths and migration
6. Useful for several government programs
7. Technology driven –unbiased-centralized - unduplicated list

Strengths

1. Wrong 3W(Man, Time, Place)
2. Lack of IT infrastructure and facility
3. It is an expensive process
4. Not include citizens living abroad for more than six months.
5. Pre collected data-quality?
6. Instability of wireless/broad band connectivity

Weaknesses

Opportunities

1. Legal Support
 - 1.1 Allocation Business
 - 1.2 Statistical Act -2013
2. Limited threats of data leaks
3. Willingness of National /Int'l Org – a2i-UNFPA .
4. Economy of the country is growing

Threats

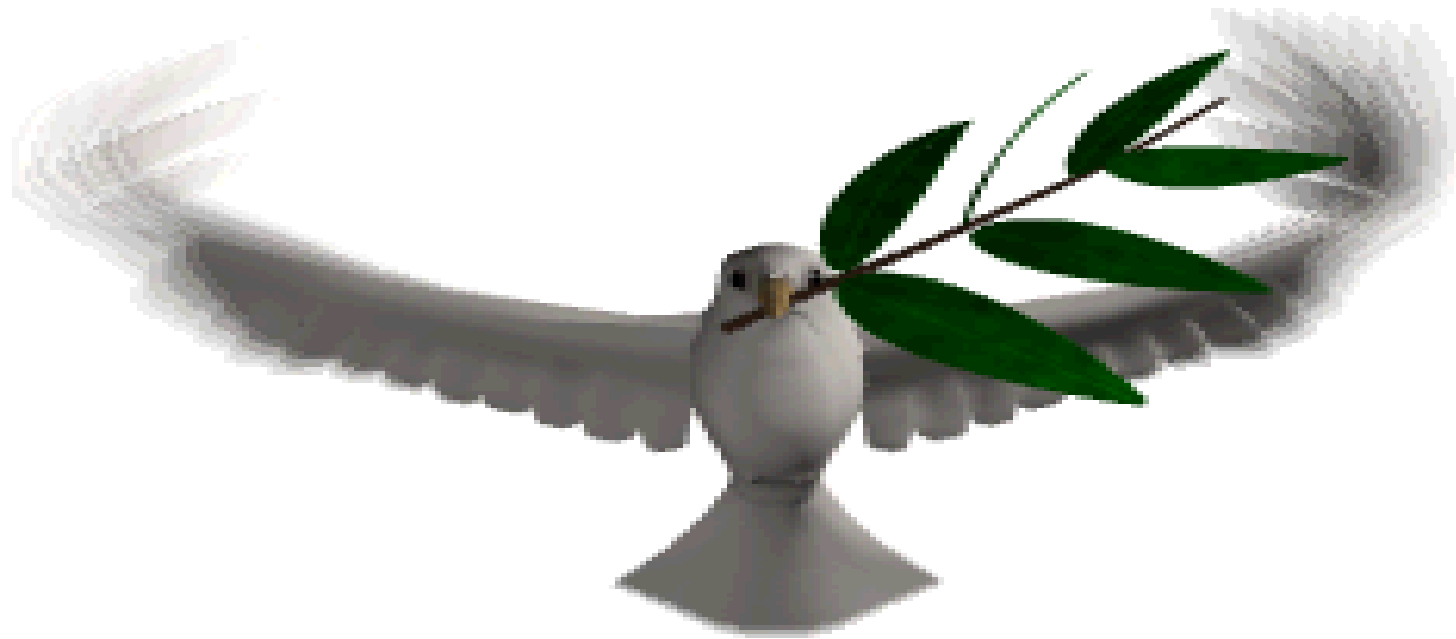
1. COVID-19 competitive disadvantages attacking funds
2. Supports from CVRS, NID and other database
3. How will one register living outside the country
4. Lot of matters to be included in NPR .

Any Feedback or Question?



- **Now is the best time → Digital Bangladesh through NPR.**

I have a dream — Martin Luther king



THANK YOU

DR. MD.SHAHADAT HOSSAIN