



Re-Imagining  
Healthcare  
with  
National Digital  
Health Mission

# About the National Digital Health Mission

Launched by  
the PM on Aug  
15 2020

Being  
implemented  
by the National  
Health  
Authority

Will provide  
digital building  
blocks for  
Healthcare

# Guiding principles

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**Voluntary participation**



**Privacy & security by design**



**Inclusivity**



**Seamless portability**

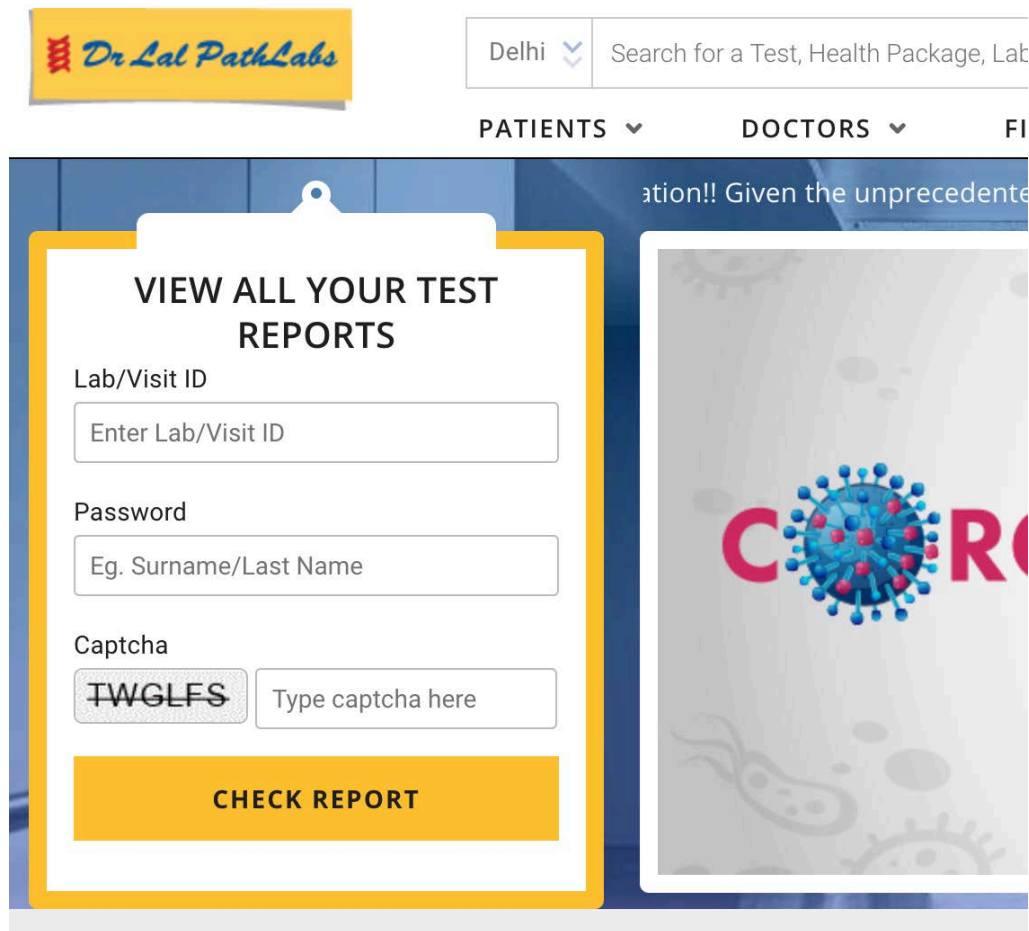


**Educate & Empower**



**Wellness-centric**

## Healthcare is already going digital in many areas



The screenshot shows the Dr. Lal PathLabs website interface. At the top left is the logo. To the right is a search bar with 'Delhi' selected and a search prompt. Below the search bar are navigation links for 'PATIENTS', 'DOCTORS', and 'FI'. The main content area features a large yellow-bordered box titled 'VIEW ALL YOUR TEST REPORTS'. Inside this box are three input fields: 'Lab/Visit ID' with the placeholder 'Enter Lab/Visit ID', 'Password' with the placeholder 'Eg. Surname/Last Name', and 'Captcha' with a captcha image showing 'TWGLFS' and the text 'Type captcha here'. A yellow 'CHECK REPORT' button is at the bottom of the form. To the right of the form is a graphic with a blue and red virus particle and the word 'CORONA' in large letters.

Most labs already share diagnostic reports with patients digitally

- Go to the lab website
- Put in a code the patient got via SMS
- View / download a PDF report

Challenges:

- Report is not added to patients longitudinal health record. Patients will lose information unless they are very organized and save all their records carefully
- Report format is not standardized – It is not machine readable – this makes it hard to present data to clinicians in useful ways

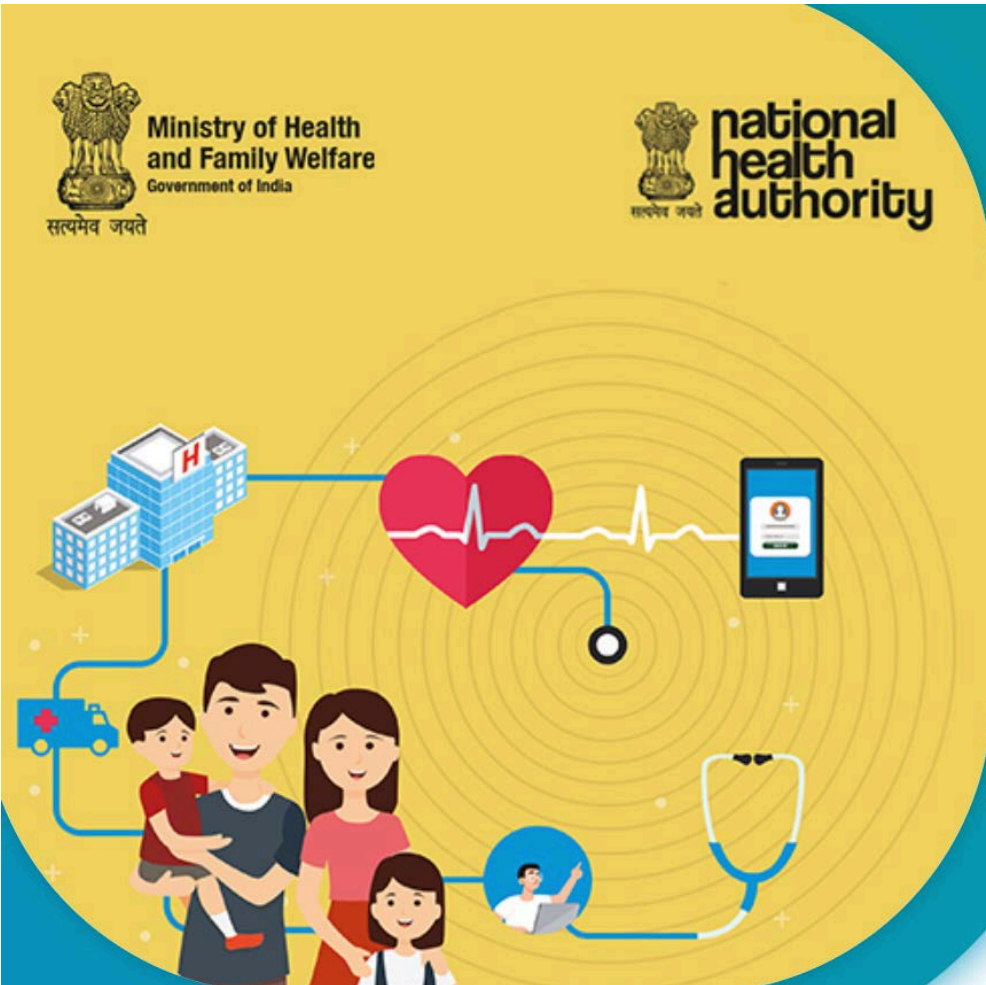
## Sharing Health Records under the National Digital Health Mission

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Any Health record that is being given as a **PHYSICAL** copy to the patient should also be shared digitally with the patient by **linking the record with their Health ID**

The digital health record when shared should be in a **standardized FHIR format**. This will enable the report to be easily interpretable by software systems



# What type of Health records can be digitally shared with patients?



**Diagnostic reports**  
– imaging reports (x-ray, CT scans, MRIs)  
- Pathology / Lab reports



**Discharge Summaries**  
**Op Consultation Notes**



**Prescriptions**



**Immunization records**

Clinics > **Ray**

20 MAR'17 Appointment with Dr. Upasana 2:30 pm for 30 min 🔔 🔗 🖨️ Add Records ▾

**Clinical Notes**

Complaints - Headache, profuse sweating, nausea, vomiting (3-4 episodes/day), diarrhea (1-2 episodes/day)  
- Muscle pain, back pain, fatigue, for the past 3 days.

Observations - Patient is conscious oriented  
- No Pallor/Icterus/Cyanosis/Clubbing/Koilonychia/Lymphadenopathy, and Edema

Diagnosis - Malaria

**Lab Orders**

TEST	INSTRUCTION
Hb, RBC, ESR(1 Hour), Platelet, Potassium, Bilirubin (T), Bilirubin (D), Bilirubin (ID)	-
Dengue test	-
Typhoid	-
Malarial Parasite	Malarial Parasite repeat test recommended after 14 days

**Prescriptions**

DRUG	FREQUENCY	DURATION	INSTRUCTIONS
Cap. Larigo 600mg	Once a day	14 days	-
Tab. Dolo 650mg	3 times a day	7 days	-

Take adequate rest and drink plenty of clean water.

# Health ID



The image shows a digital Health ID card for Kiran Mandyam Anandampillai. At the top, there are logos for the Ministry of Health and Family Welfare, Government of India, and the National Health Authority. The card includes a profile picture of Kiran, his name, and a Health ID icon. Below this, a list of details is provided: Health ID Number (45-2134-3620-0568), Health ID (kiranma@ndhm), Name (Kiran Mandyam Anandampillai), Date of Birth (1972), Gender (Male), and Mobile (767). A QR code is also visible on the right side of the card.

Health ID Number	45-2134-3620-0568
Health ID	kiranma@ndhm
Name	Kiran Mandyam Anandampillai
Date of Birth	1972
Gender	Male
Mobile	767





Health ID: <UserChosenName>@ndhm

Health ID No: 14 digit random number

Every person who wishes to participate in the digital health ecosystem must start by getting a Health ID

Creating a Health ID is super simple – all it needs is your Name, Date of birth (or just Year), Gender along with either Mobile number or your Aadhaar

**Key benefits** of creating an Health ID are-

-  **Easy access** to health information in a paperless manner
-  **Voluntary opt-in** and **opt-out\*** at anytime
-  Enables **authentication for consent driven** access to health data along with capabilities to manage and revoke consent
-  **Inclusive access** to people with smartphones, feature phones, and even no phones using assisted methods

# Getting your Health ID

## Self Registration



Health ID

<https://healthid.ndhm.gov.in>



Personal Health Records

NDHM PHR App (Android)

Creates Health ID using Aadhaar or Mobile Number



Health ID is created and HID e-card generated

## Assisted Registration



For elderly, illiterate and those without mobile phones



Participating Health facility

Receive consent from the applying individual



Helpdesk/ Kiosk at the healthcare facility

Biometric authentication (Aadhaar)



Health ID is created and HID card is printed and given to patient



# Sharing your Health ID at a Health Facility

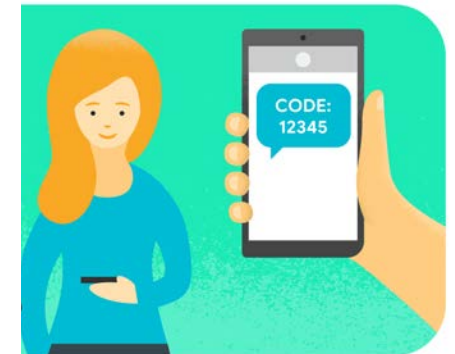
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Patients can scan a  
**Health Facility QR code**  
Pasted at the facility registration  
counter on their PHR mobile app



Facility can scan a Health ID QR  
code at the registration desk



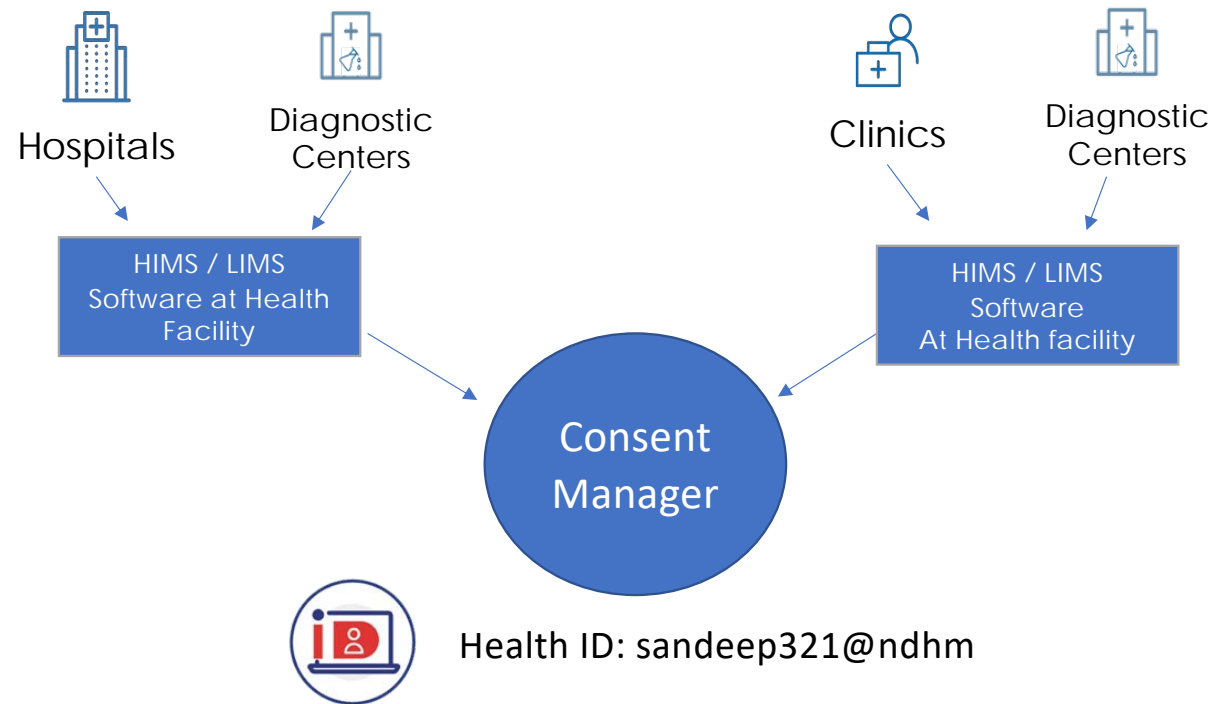
Patient can share their  
health id verbally and  
have it verified via an  
OTP

## Benefits:

Error free capture of patient demographic and contact information  
Rapid registration, reduce wait times at facility counter

# How does Health ID help create longitudinal records

- Health facilities collect Health ID from patient
- Hospital or Lab information software at Health facility holds the record for the long term
- Health facility software links the Health record with the Health ID and associated consent manager
- Software used by the Health Facility needs to become NHDM compliant



Diagnostic Centre x: { OPD records for 3 Aug 2015 }  
Hospital y: { IPD records on 5 Aug 2015 in cardiology Dept }  
Clinic z: { OPD prescription on 20 July 2020 }

# Sharing your Health records with Consent

1



Facility sends a consent request to the patient requesting access to their medical history

2



Patient chooses what data to share with the hospital/lab & for how long the facility can have access

3



Consulting doctor/lab has medical history of patient available when they walk into chamber

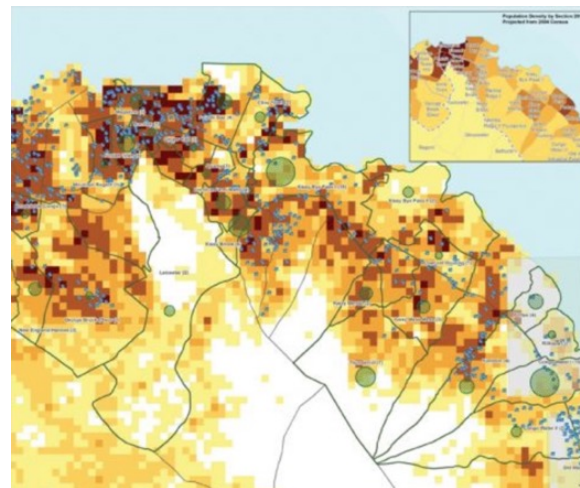
# NDHM also enables flow of aggregated and anonymized data sets

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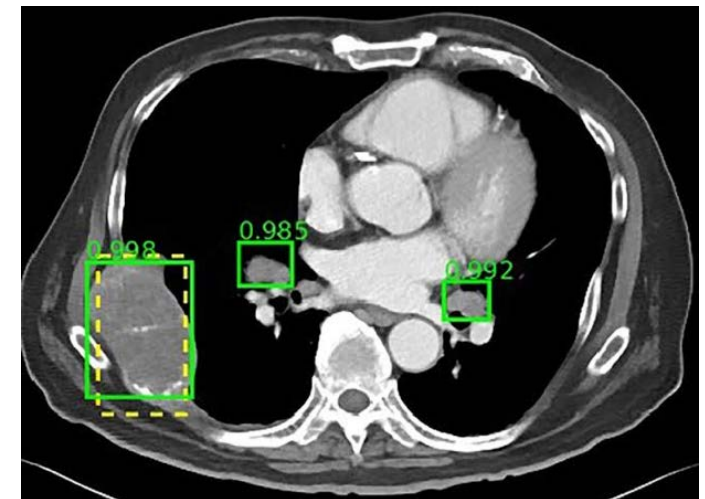
Access to Personal Health data will enable better treatment



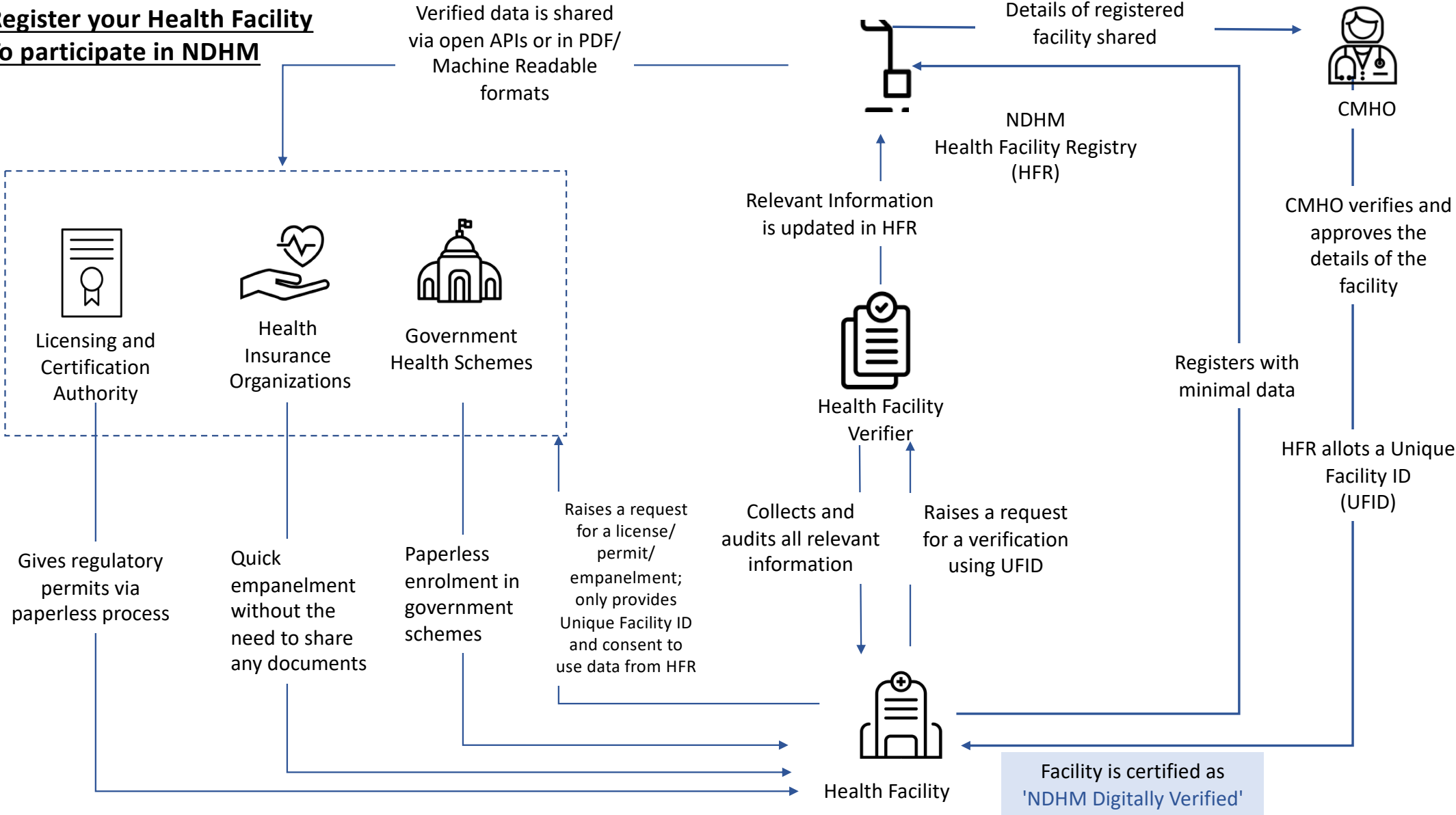
Aggregated data sets will enable epidemic tracking and better health policy making



Anonymized data sets will provide training data to enable new AI based systems



**Register your Health Facility  
To participate in NDHM**



# NDHM will Simplify Hospital Empanelment

## Empanelment Data



Standard Machine Readable Format

Rapid, Paperless, Strongly Verified Empanelment Process

## Empanelment Process



Hospital

Apply for empanelment using Verified **UFID** + Consent to provide information

Insurance Provider / Third Party Agency (TPA)

Consent

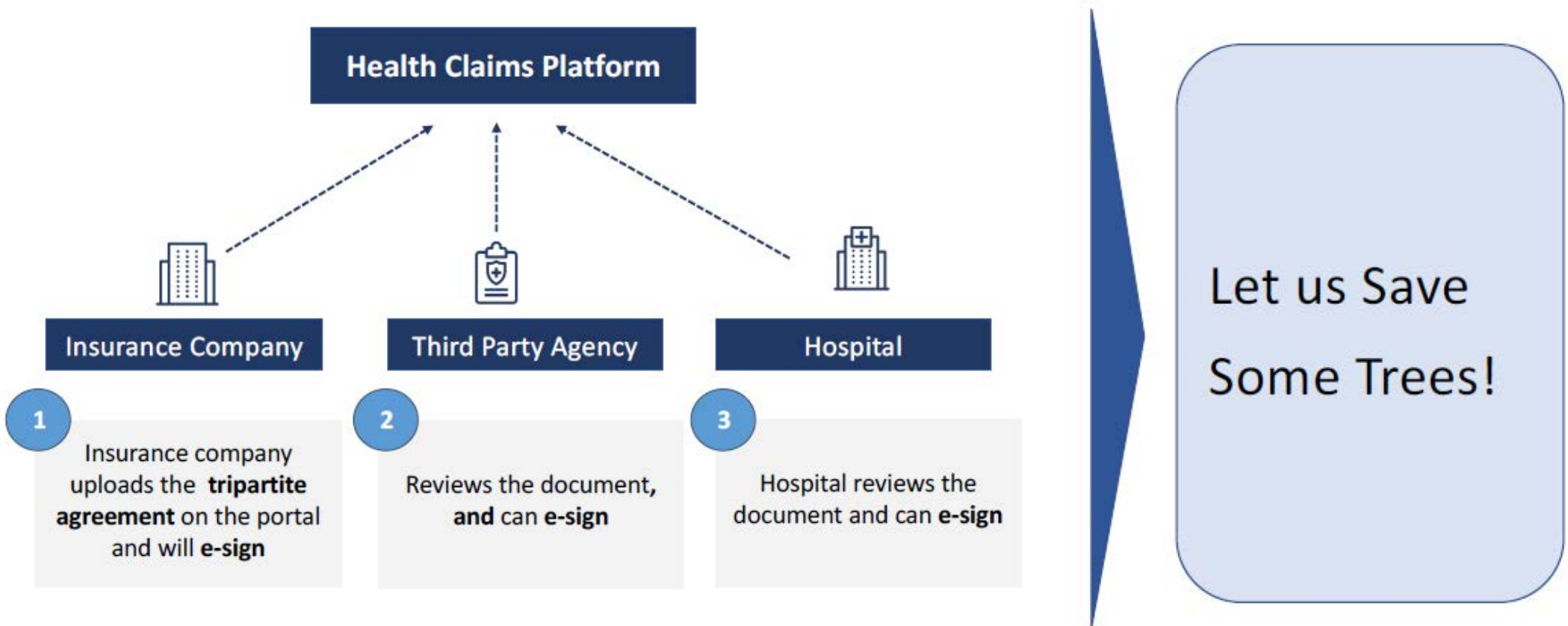
Release of verified data

Option to update any empanelment details or update on verification details

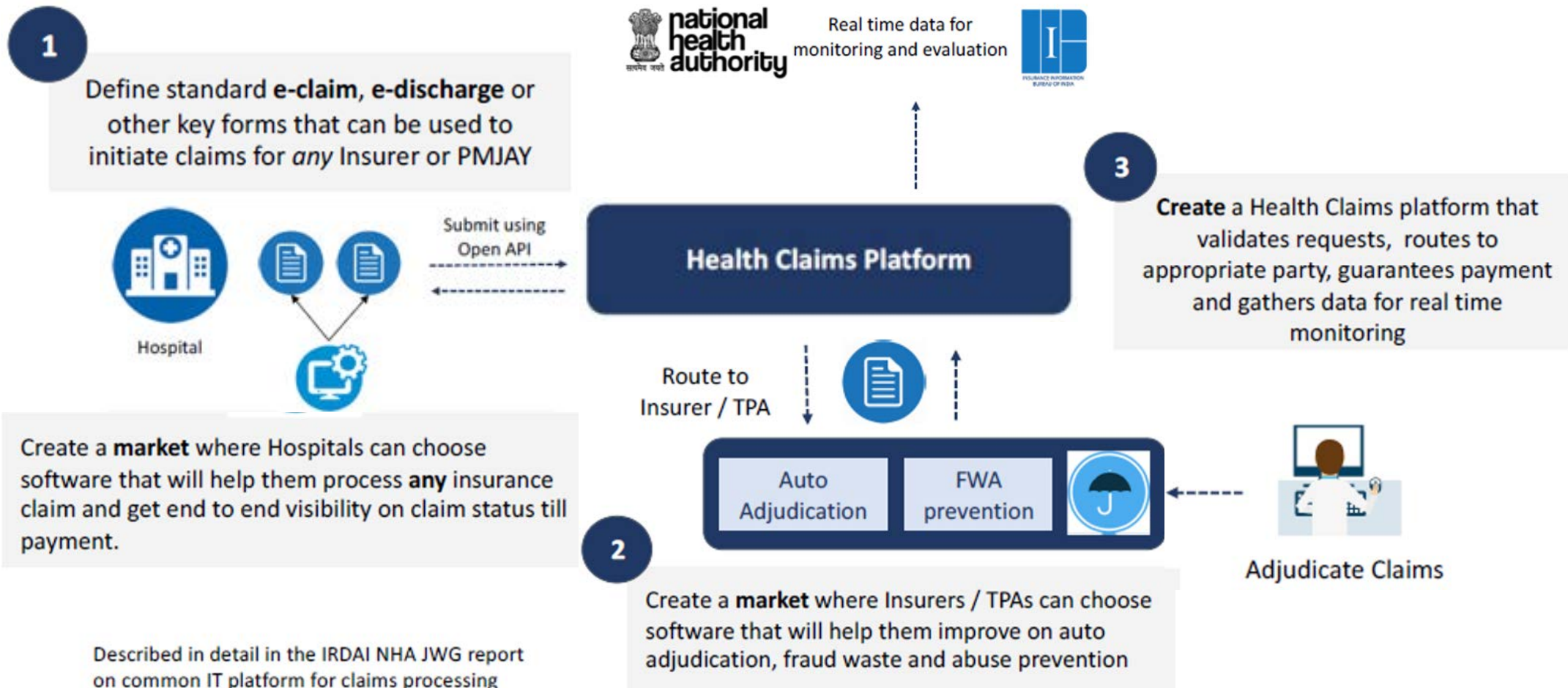
Health Facility Registry (HFR)

# Contracting under NDHM will be 'Paperless' & 'Simplified'

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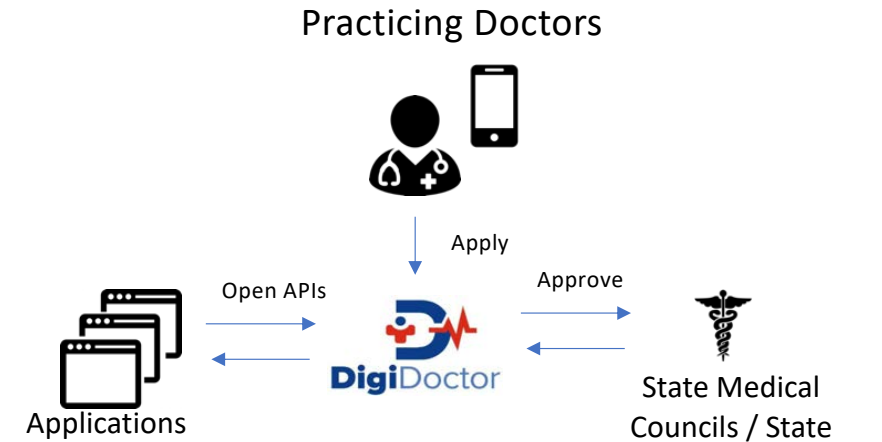
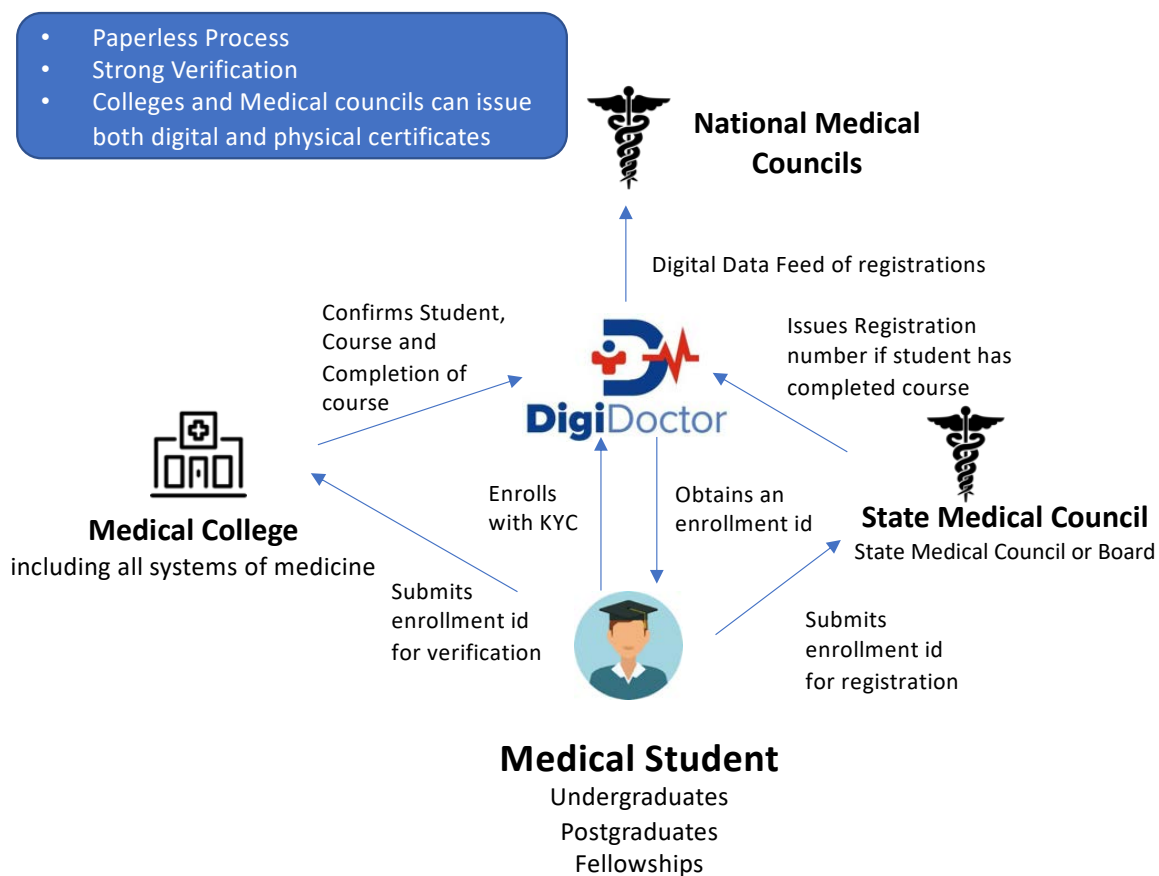
# How will NDHM Simplify Health Claims Processing



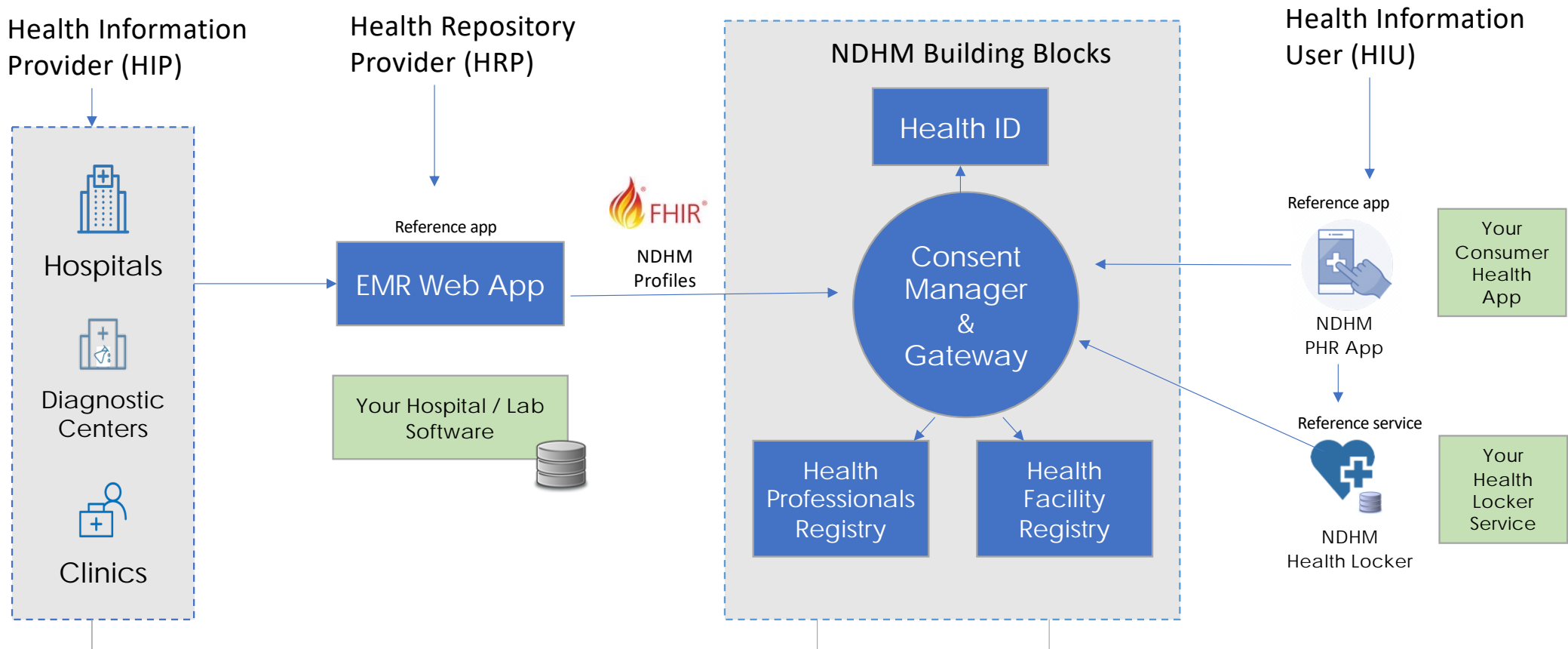


# Health Professionals Registry - Doctors

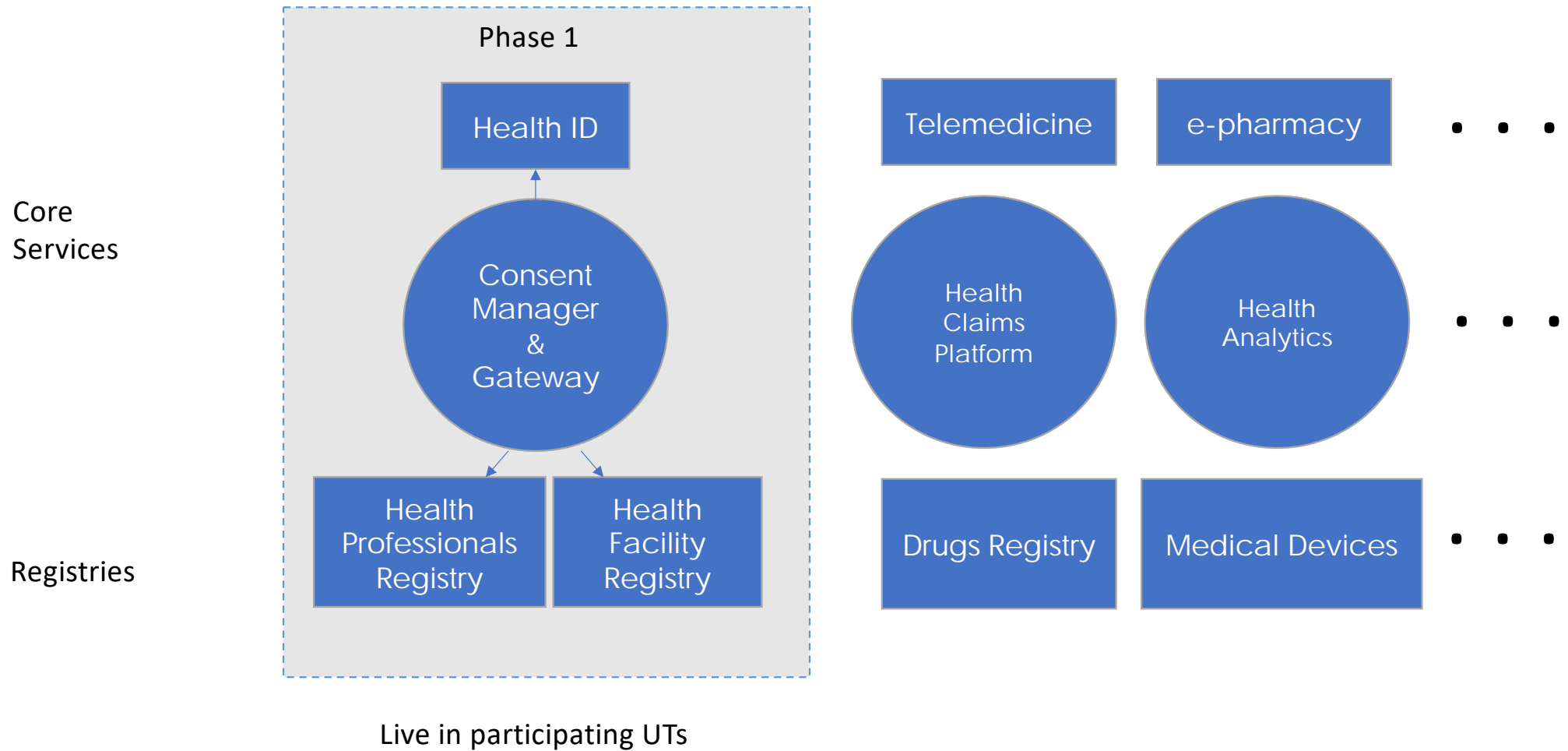
- Paperless Process
- Strong Verification
- Colleges and Medical councils can issue both digital and physical certificates



# The NDHM Ecosystem



# NHDM BUILDING BLOCKS

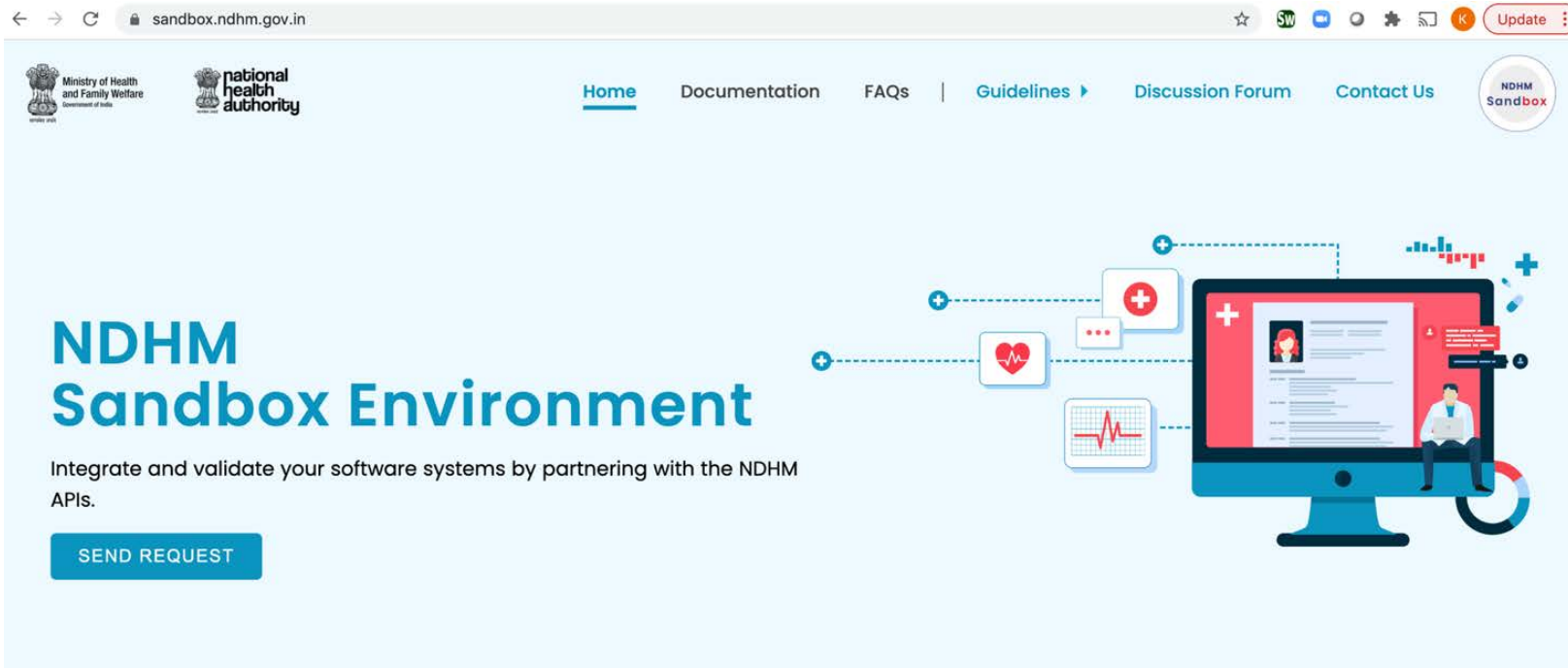


## How do you get started on the NDHM journey?

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- Does your Hospital already use a Hospital information management system? A lab information management system?
- Identify the software vendor, get hold of a contact name and number
- Share the details with the NCG team
- NCG and NHA will co-ordinate with the vendors to help them make their software NHDM compliant
- NDHM compliance is achieved using the NDHM Sandbox – A system that allows vendors to integrate and test their application with the NHDM building blocks
- Once the vendor's software is NDHM compliant – upgrade the software at your hospital
- Your Hospital will become part of the NDHM ecosystem

# The NDHM Sandbox



← → ↻ sandbox.ndhm.gov.in ☆ SW ⓘ ⚙️ 📄 ⌂ Update

Ministry of Health and Family Welfare Government of India national health authority

[Home](#) [Documentation](#) [FAQs](#) | [Guidelines](#) ▶ [Discussion Forum](#) [Contact Us](#) NDHM Sandbox

## NDHM Sandbox Environment

Integrate and validate your software systems by partnering with the NDHM APIs.

[SEND REQUEST](#)

APIs for all building blocks are available for integration

Over 300 organizations have enrolled and are actively integrating

National roll out in a few months

## Who Can Enrol For Sandbox?

NDHM Sandbox is open to everyone

# Active participation already from Top public & private HMIS/LIMS orgs

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## Government HMIS

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- **E-Aarogya** (Govt facilities in DNHDD)
- **E-Hospital** (NIC)
- **E-Sushrut** (CDAC)

## Top corp. hospital/lab chains

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## Private HMIS/LIMS

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*(Supporting smaller clinics/labs)*



Currently NHDM is live only in select union territories. Over 80 facilities at the UTs are expected to go live during this pilot phase.

# Working Together to make the mission a success

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Ministry of Health & Family Welfare  
Government of India



**national  
health  
authority**



NATIONAL  
CANCER  
GRID

COLLABORATION FOR CANCER CARE



Open House with  
Dr Praveen Gedam (IAS)  
Additional CEO, NHA  
Mission Director, NDHM  
[addlceo@nha.gov.in](mailto:addlceo@nha.gov.in)  
+919766620000