



**national
health
authority**

Ministry of Health
and Family Welfare
Government of India



Ayushman Bharat Digital Mission

Dr. Raunaq Pradhan
Product Lead

6th Apr, 2024

Before we begin

We all are excited about technology and the use of AI

ChatGPT , Generative AI, queue management, CDSS

We all have heard of it somewhere!

So, why is it that hospitals are often thought of as the most resistant to adopt technology changes?

Well the answer is.....

Lets talk about it as we go along!

Prowess of Digital India



139 crore

Aadhaar IDs Issued



1812 crore

e-KYC Transactions



10,730

Aadhaar based
Authentications
crore



51.61

Jan Dhan Account
90% Adult
Coverage
crore



Rs. 18 lakh

crore
Transactions per month



30 crore

Bills processes per month

C+WIN

Winning Over COVID



1.1B+

Registered
Citizens



2.20B+

Total Vaccines
Administered



25M

Vaccinations
Recorded in One
Day

~65

Maximum Rate of
API Hits per
Second
K

Global Milestone: Highest Number of Vaccinations recorded in a Day across the world in one Nation

Figures as of Feb 05

2024
Sources: Aadhaar Dashboard (https://uidai.gov.in/aadhaar_dashboard); BBPS Dashboard (<https://www.bharatbillpay.com/statistics/>);

Success in Digital Health - Scalable and Frugal



20.57 cr+
Patients Served



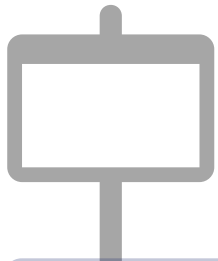
4 lakhs
Consultations per day



202,626
Providers Onboarded



128
Specialities



12%
Senior Citizens

57%
Women

Huge Impact: Addressing the healthcare needs of the most vulnerable sections of the population



208,569
Spokes Operationalized



14,837
Hubs Established

Overall Statistics

as of February 5, 2024

Internet Access in India



TRAI Data Dec'23 :

1158 mn wireless phone subscribers ; 866 wireless broadband subscribers



Urban Teledensity: 127.88% (633.44 mn / 488.7 mn)

Rural TeleDensity: 58.26% (525.05 mn / 899.78 mn)



Total Households – 302 million (Urban – 97mn & Rural – 205 mn)

ASER 2023 : 95% households have phone & 75% households have smartphones

***Average mobile data consumption in India – 19.5 GB per user per month**

What ails digital health in India?

Lack of Infrastructure/Resources

Cost and availability of Hardware, Software, Connectivity,
Human Resource

Lack of interoperability

Fragmented and siloed approach
Lack of Standardization

Disinclination for use

Comfort with pen & paper, Data Entry as an additional task,
Lack of digital literacy, Telehealth limits ability to
demonstrate empathy

Islands of Excellence

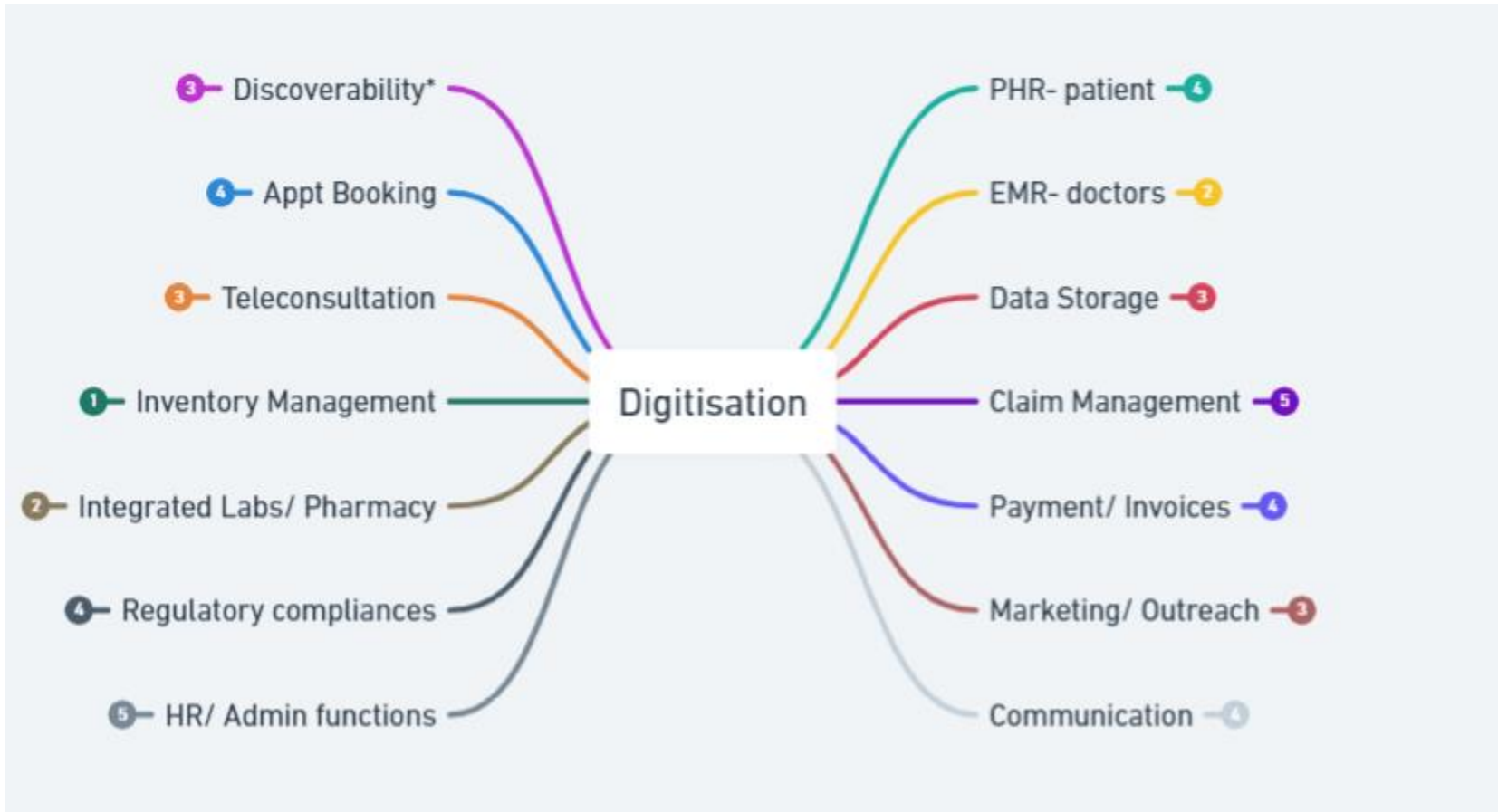
Vertical (CoWIN, Aarogya Setu, PM-JAY)
Horizontal (Few hospital chains, State Govts.)

Privacy & security concerns/Regulatory concerns

Legal provisions - inadequate/difficult to implement
Lack of awareness

Poor adoption of digital health

What does digitization for a hospital mean?



What does digitization for a hospital mean?

Will ABDM be able to help in achieving digitization or making it smart?

Let us try to understand this a bit more!

Ayushman Bharat : A total approach to Health

4 Pillars of Ayushman Bharat

PM Ayushman Bharat Health Infrastructure Mission

- Launched on 25th October 2021
- Build new infrastructure and strengthen existing institutions
- To make India ready to effectively manage any future Pandemics and Health Emergencies

Ayushman Bharat – Health & Wellness Centers

- Launched on 14th April 2018
- 1.50 lakh Health & Wellness Center across India
- Deliver Comprehensive Primary Health Care by bringing healthcare closer to the homes

Ayushman Bharat Digital Mission

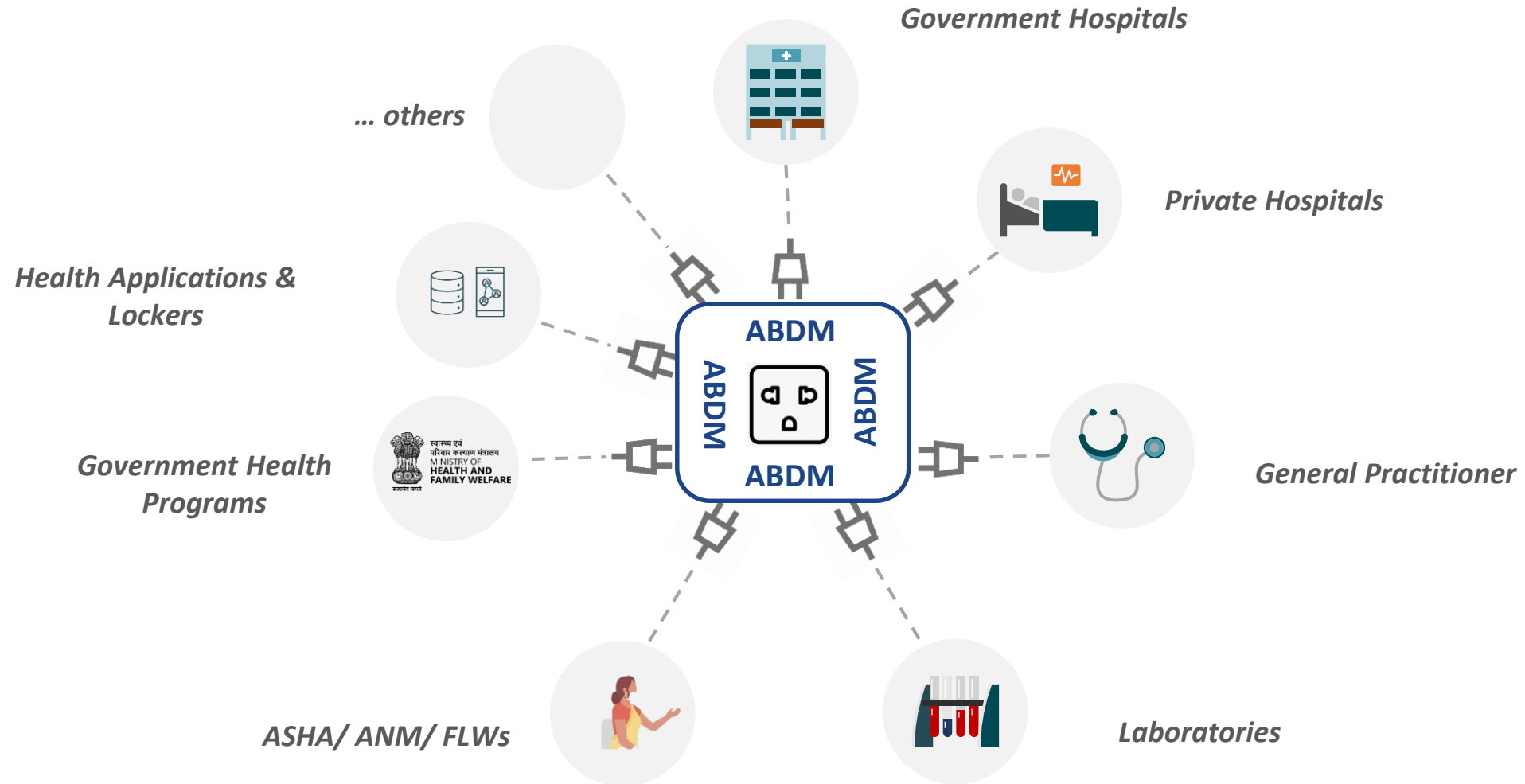
- Launched on 27th September 2021
- Leveraging technology to improve access to health
- Developing the backbone necessary to support the integrated digital health infrastructure of the country

Ayushman Bharat – Pradhan Mantri Jan Arogya Yojana

- Launched on 23rd September 2018
- Health insurance to more than 10 crore families
- Protection against catastrophic health expenditure
- More than 4.80 crore people benefited so far

Interoperability with ABDM

ABDM enables interoperability so that multiple applications can talk to each other



What does ABDM intend to achieve

Each and every stakeholder has to gain from digitizing of health sector

Citizens



Better control over their medical records

No loss of medical records leading to **no repetitive diagnostic tests**

Discover, access and avail health services and products

Digital records **save time**

Healthcare Providers



Better Clinical Decision making

Promote use of **Tele- consultations**

Easy and accurate record management

Faster and cost effective settlement of claims

Policy Makers



View and Analyze public health at a National and State Level

Aid in evidence-based policy making

Implement Policies effectively at a Local Level

ABDM Core Registries

ABDM's Core Building blocks are also the DPIs that has the potential to unlock hassle - free real time Health Data Exchange



ABHA

- 14 digit random number designed to be a unique patient identifier for citizens
- Helps to identify and verify the patient at healthcare facilities/ programs; easy capture of patient demographic information, rapid registration etc.
- Voluntary and consent driven

Live



HPR

- Centrally maintained comprehensive registry of all health delivery staff (medical and non-medical staff)
- Establishes authenticity and maintains a single unique 14 digit identifier for each Healthcare Professional using HP ID
- Enabled by an ecosystem of trusted entities who can authenticate a Healthcare Professional's role and establish credibility.

Live



HFR

- Centrally maintained comprehensive registry of all information of health facilities in the country
- Establishes authenticity and maintains a single unique 12 digit identifier for each Healthcare Facility using HFR ID

Live

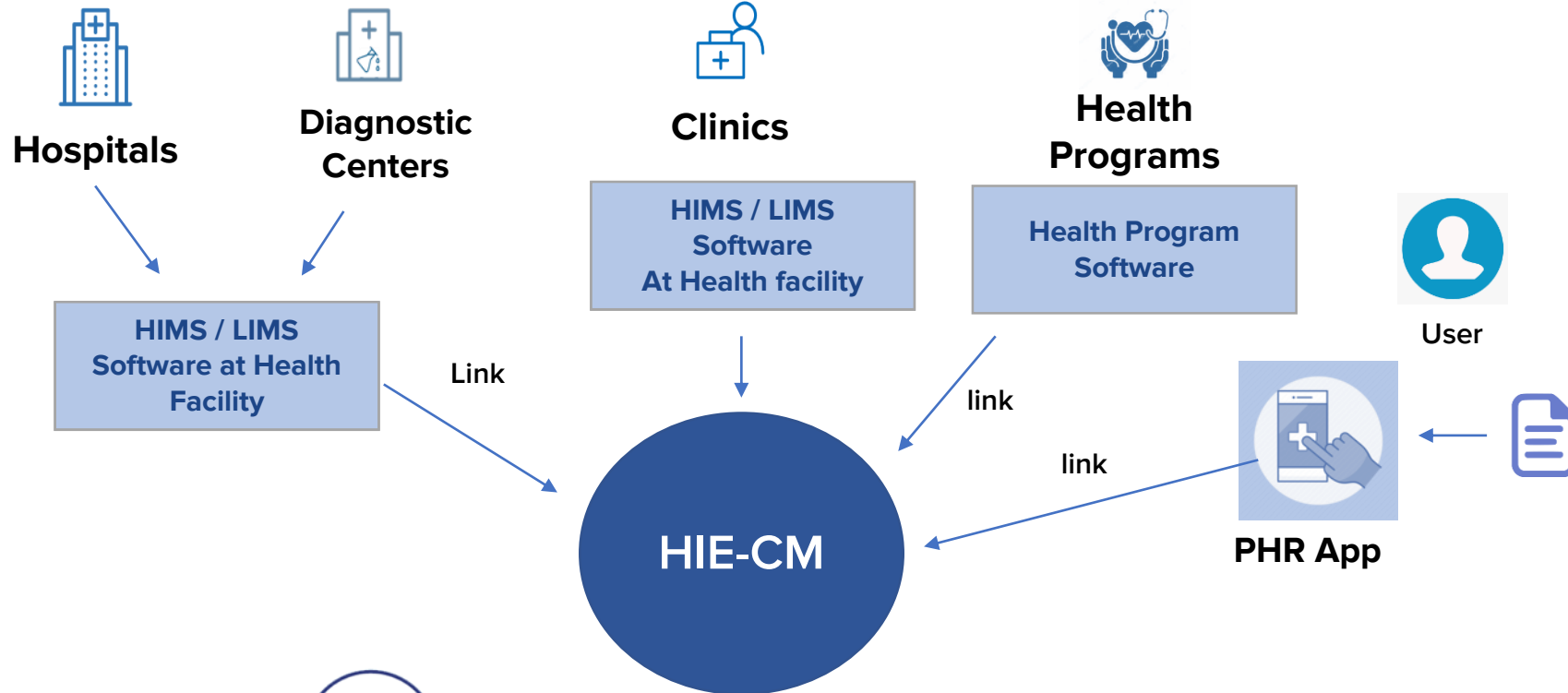


Drug Registry

- A single, up-to-date repository of all the drugs present in the Indian market.
- A unique drug code and information corresponding to every drug registry
- Primary source of information for all other databases and lists and facilitates the exchange of standardized data across all systems of medicine, from allopathy to Ayurveda.

Under Development

Federated Architecture



ABHA Address: raunaqpradhan@abdm

Diagnostic Centre x: { Link to OPD records for 3 Aug 2015 }

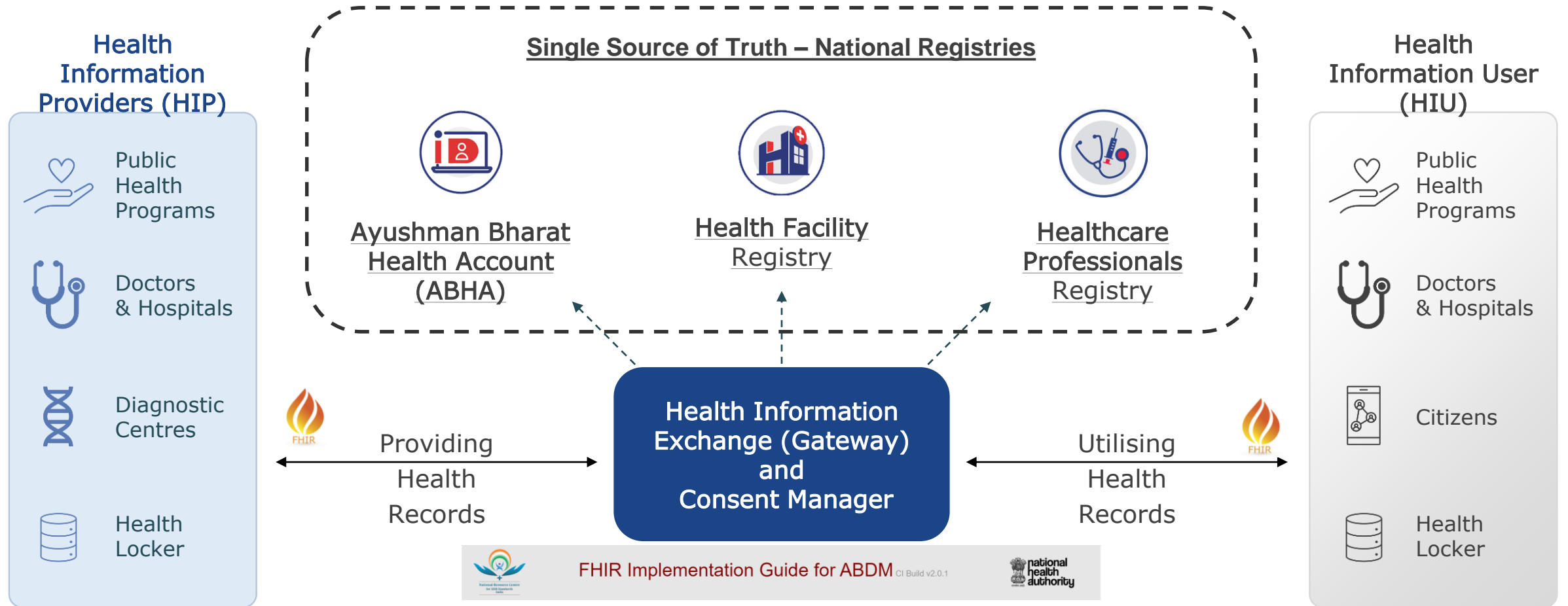
Hospital y: { Link to IPD records 5 Aug 2015 }

Clinic z: { Link to OPD prescription on 20 July 2020 }

User Uploaded: { Prescription on Sep 2021 }

- **No central repository with all health records** – strong design for privacy, security and user control
- **Easy for Health facilities to participate**– Facilities can enhance the software being used by their facilities to participate in ABDM. ABDM changes do not affect the user experience / data capture screens
- **Designed to work for people with and without phones** – ABHA is also available as a physical card and consent is managed via biometric authentication linked to their national unique id (Aadhaar).
- **Aligned with India's personal data protection laws** - Using an ABDM compliant software will help a health provider be compliant to the laws
- **Ecosystem approach** – Stakeholders integrate with the digital public goods for consumer features, incentives or legal compliance

Health Information Exchange & Consent Manager

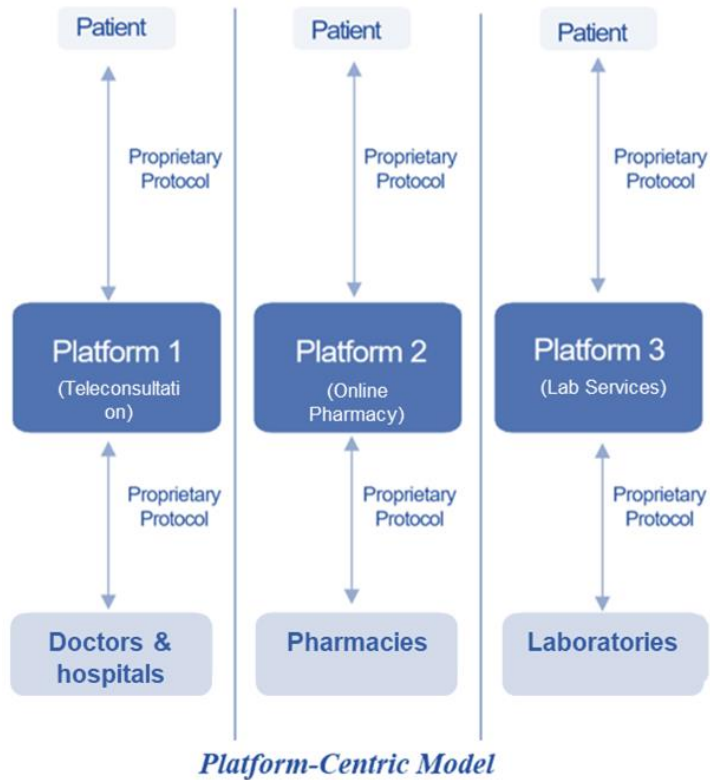


Health information with user consent is exchanged seamlessly between ABDM building blocks and entities involved

Unified Health Interface

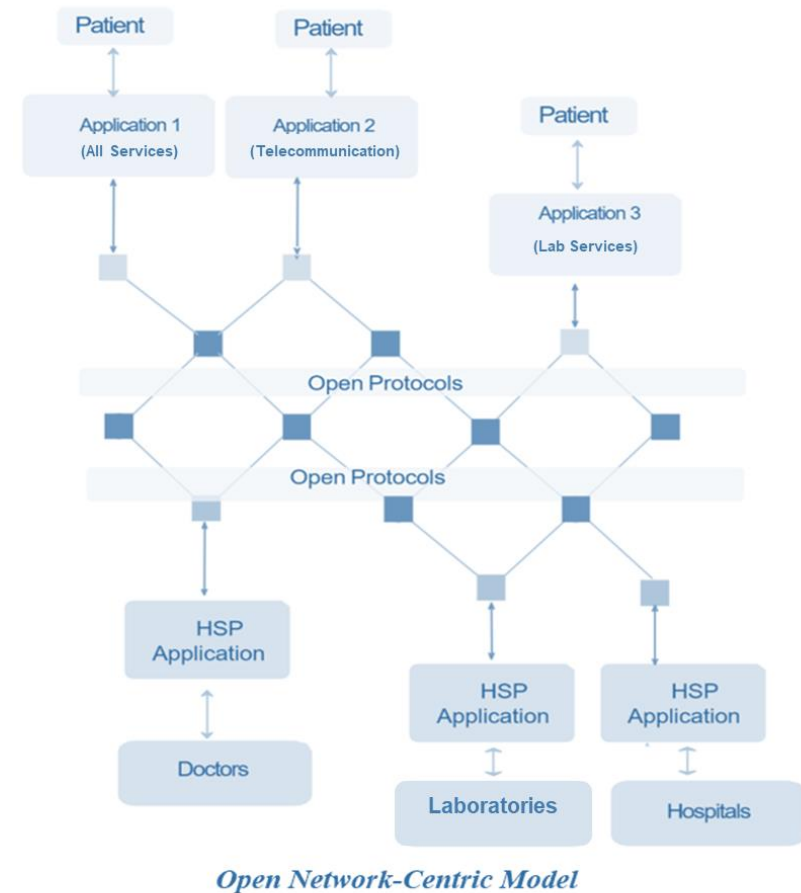
Platform Based Systems are siloed

No provision to communicate across platforms



ABDM is providing a Unified Health Interface

An Open Network for Digital Health Services



*HSP: Health Service Provider

Services Enabled by UHI

UHI aims to increase accessibility of services by promoting interoperability



Digital
Consultation



Booking Physical
Consultations



Ambulatory
Services



Lab Diagnostics
Services

UHI aims to expand digital health service market by:

- Making it easier for a doctor to be searchable
- Transparent pricing
- Reducing friction for and enabling easy monetization of second consultations, lab report consultations and similar under monetized services
- Moving patients towards preventive care

ABHA as Common Health Identifier



Ms. Ranidevi
Female, 28
years old

ABHA

Reproductive & Child Health (RCH)

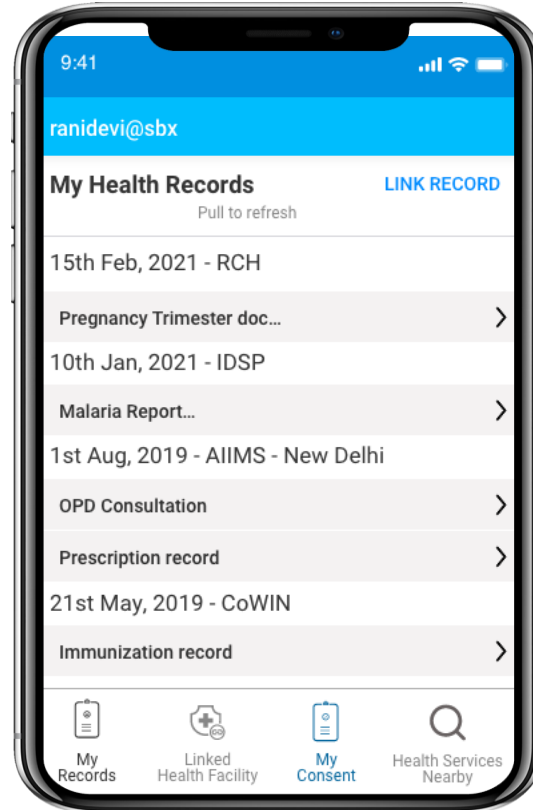
Tuberculosis Elimination Program

Integrated Disease Surveillance Program (IDSP)

AYUSH Hospitals

Private Hospitals

CoWIN



Citizen's longitudinal health record

RCH	IDSP	AYUSH Hospitals	CoWIN	Private Hospital Data
Pregnancy Trimester : Hb: 9.8 Weight 52kgs Tab IFA Date: 15/02/21	Malaria confirmed Tab - chloroquine Date: 10/01/21	1 TDS 30 days Date: 01/08/19	Covid vaccine dose 1 Date: 21/05/19	URTI Tab cefixime 1 BD - 5 days Date: 21/02/19

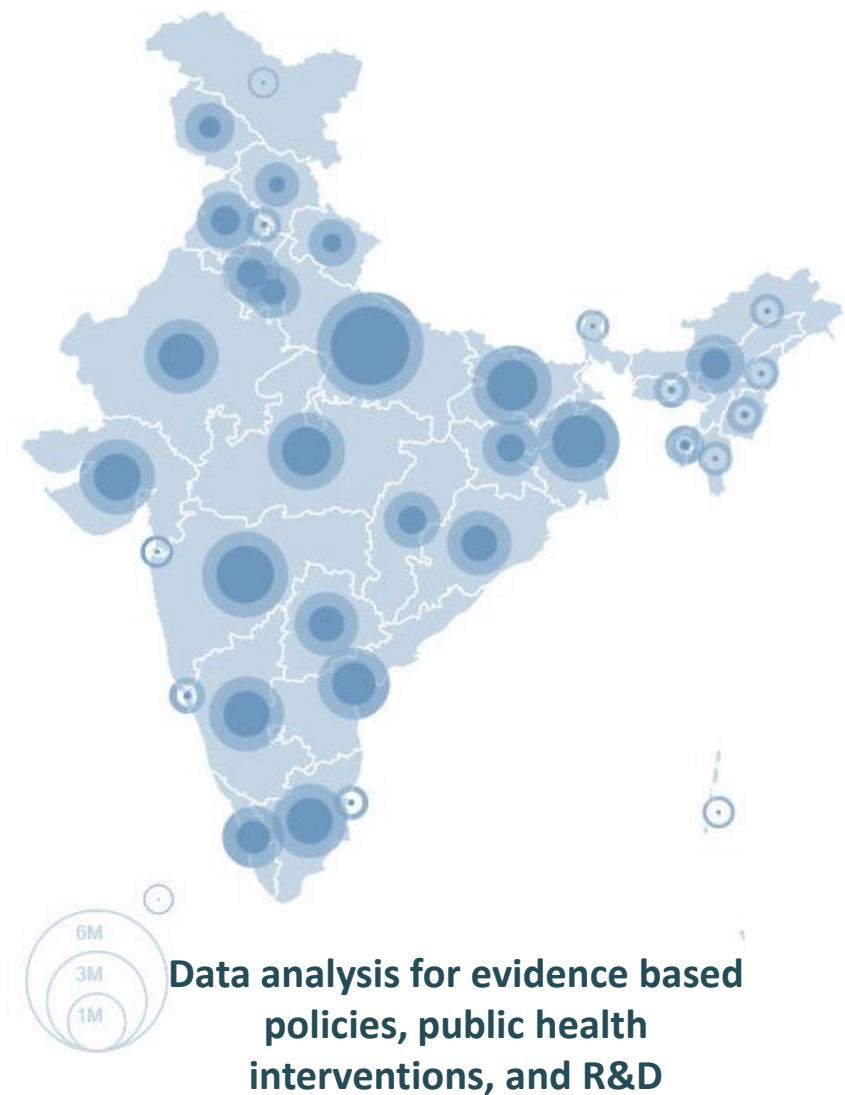
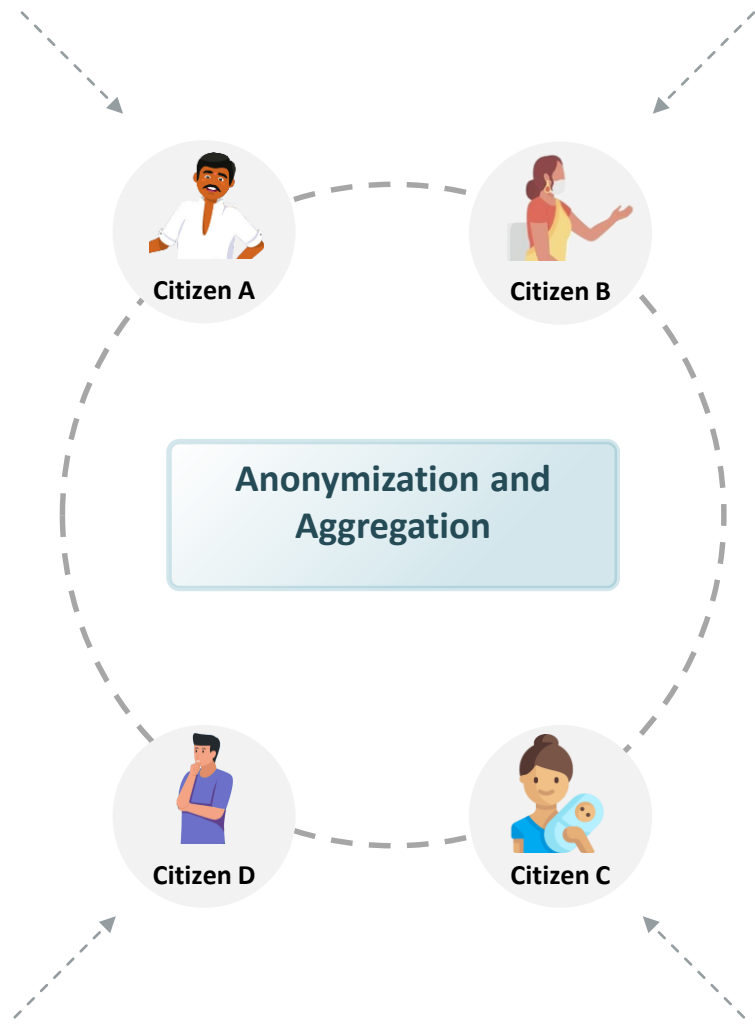
Longitudinal health record available to all health workers of programs in their jurisdiction

Frontline Workers

Nurses

Doctors

Anonymized and Aggregated Data



Impact of ABDM : Sectoral Expansion



Health Account Number



Health Facility Registry



Healthcare Professional Registry



Health Information Exchange & Consent Manager



Reference Medical Records Application for Hospitals and Clinics



Sandbox for integrators

Integrators



\$200 Billion impact of ABDM for India estimated by independent private experts*

Market expansion

- New demand pools (e.g. teleconsultation)
- Home based care
- OPD insurance coverage
- Increased patient compliance to treatment

Cost efficiencies

- Reduced admin burden
- Higher productivity
- Efficient claim processing
- Reduced marketing expenditure

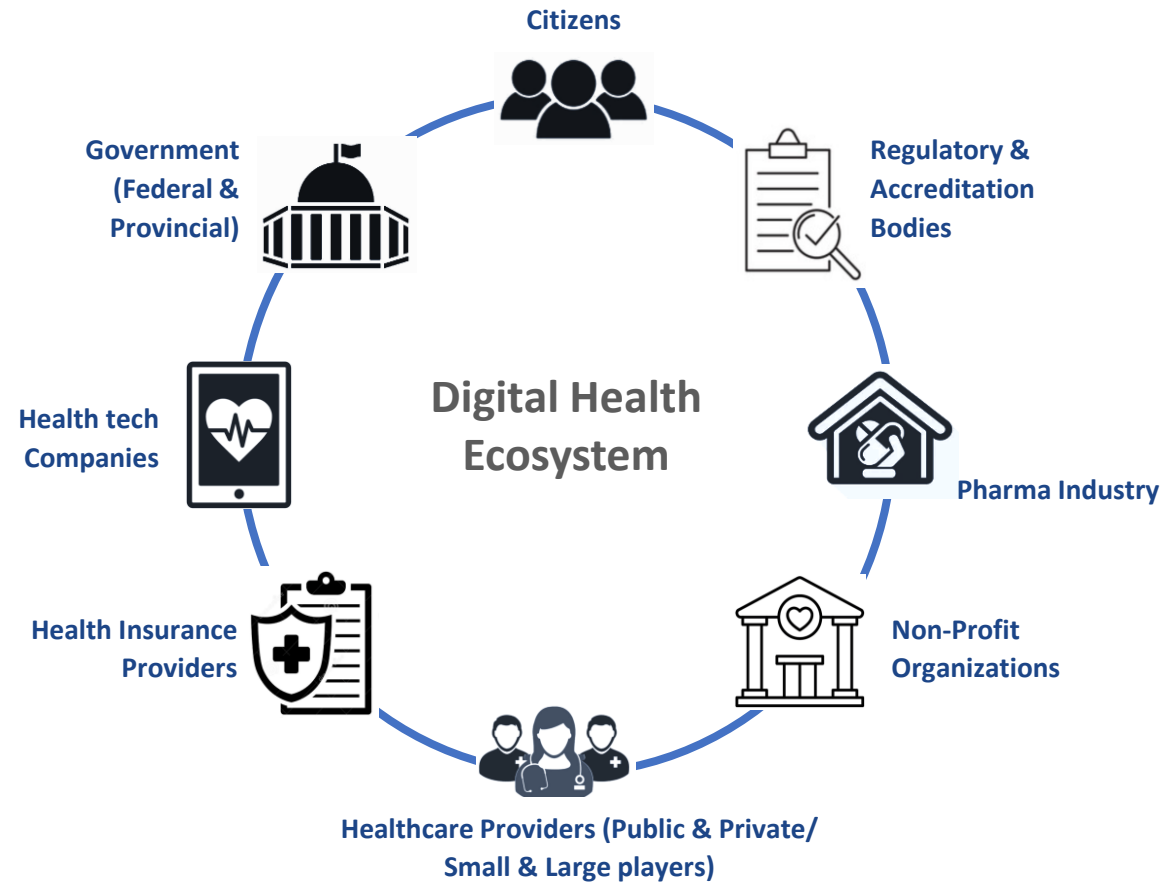
CREDIT SUISSE



“UHI: Game Changer for Digital Health in India”

A report on UHI by Credit Suisse talks about how **UHI will kickstart new models** for health data aggregation and analytics, and health service aggregators.

ABDM Stakeholders



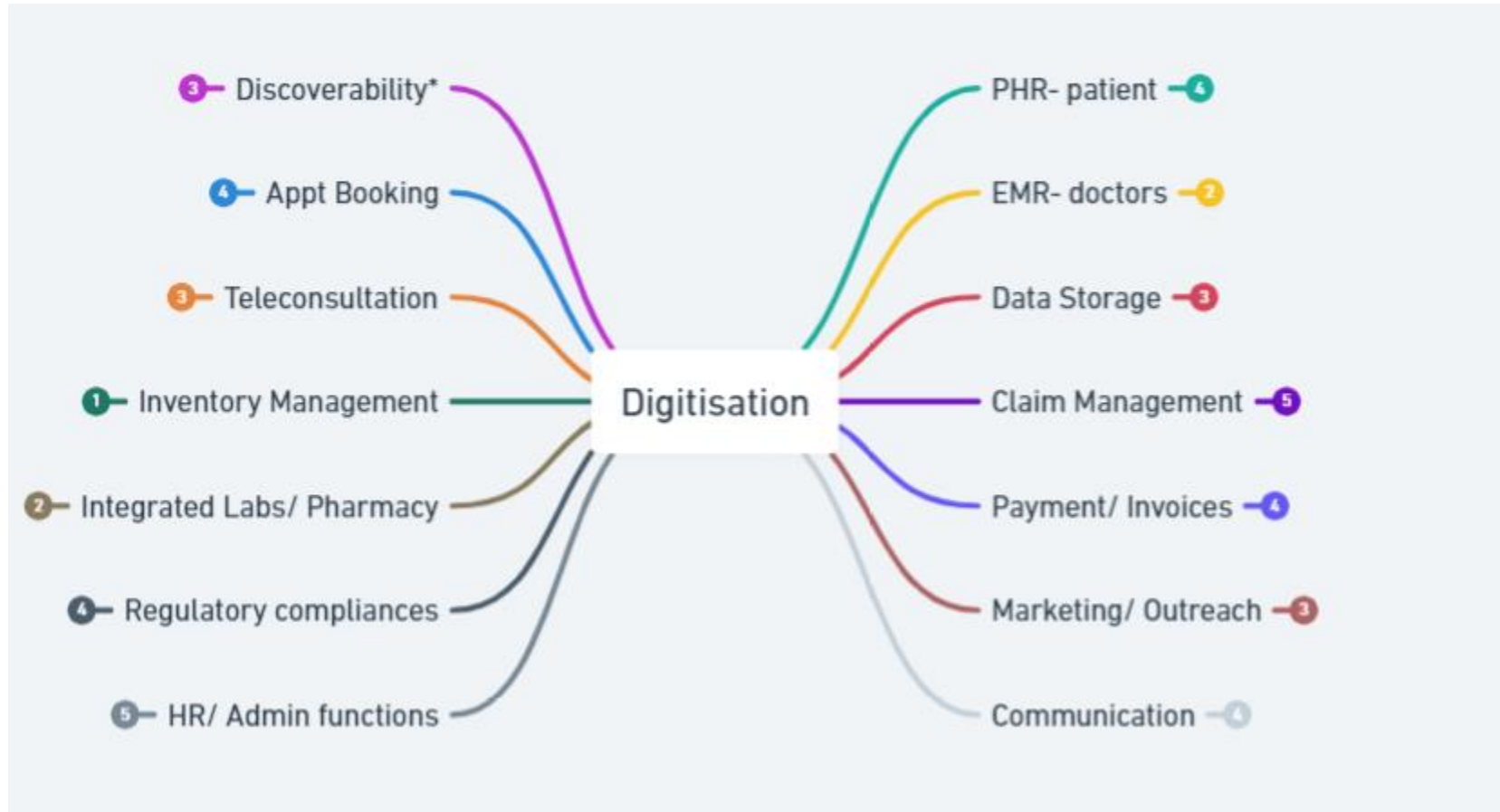
- **Diverse stakeholders in ecosystem; each of different shapes and sizes**
- **Important to Engage with all stakeholders for seamless adoption**
- **Customized engagement approach for each stakeholder**

Ecosystem has diverse stakeholders; each to be uniquely engaged with for ABDM adoption



we get patient's previous medical record

Recapping digitization for a hospital



How does ABDM help a hospital become smart?

UHI/ Scan and Share

1. Discoverability
2. Appt Booking
3. Teleconsultation
4. Integrated Labs/ Pharmacy

ABDM Milestones M1-M3

1. PHR App
2. EMR for doctors
3. Data Storage
4. Regulatory Compliance

SMART HOSPITALS

1. AI for smart diagnosis
2. Fast patient registration
3. Summarised patient history for diagnosis
4. Automated faster claims
5. Providing care at home

ABDM MVP software

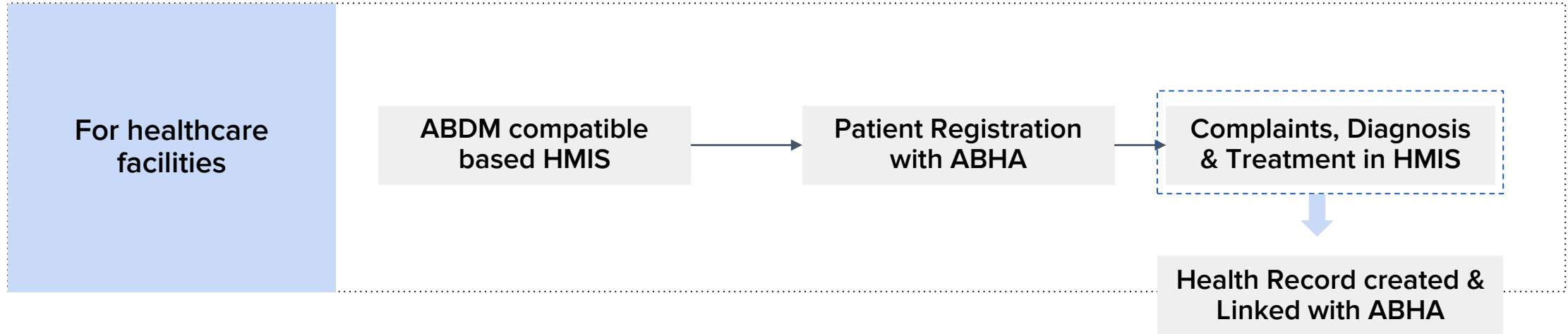
1. Inventory Management
2. HR/ Admin functions
3. Marketing/ Outreach
4. Communication

Health Claims Exchange

1. Claim Management
2. Payment
3. Invoices

Kickstarting your journey with ABDM

Integration with ABDM is easy and quick, and is driven by mobile first approach



Where you can get access to an HMIS ?

Any ABDM compatible HMIS can be used, or your existing vendor can be asked to make themselves compatible with HMIS

You can visit sandbox.abdm.gov.in for details and Visit the [ABDM GITHUB](#) page and check [ABDM wrapper](#) for a more simplified integration process.

Advantages

Integration with ABDM is easy and quick, where you have to call 6 APIs as compared to 30+ APIs in the current process

Simplified integration

Easy to understand APIs

Encryption & Decryption

FHIR conversion supported

Open source

Mock gateway also available

In the beta-pilot, we have helped entities like ThirdAI and Khushi Baby complete integration in less than a week!

Delivering Health Care via Digital Means

=

**Improving access, Increasing discoverability, Going
paperless, Integrating with global workforce**

Thank You



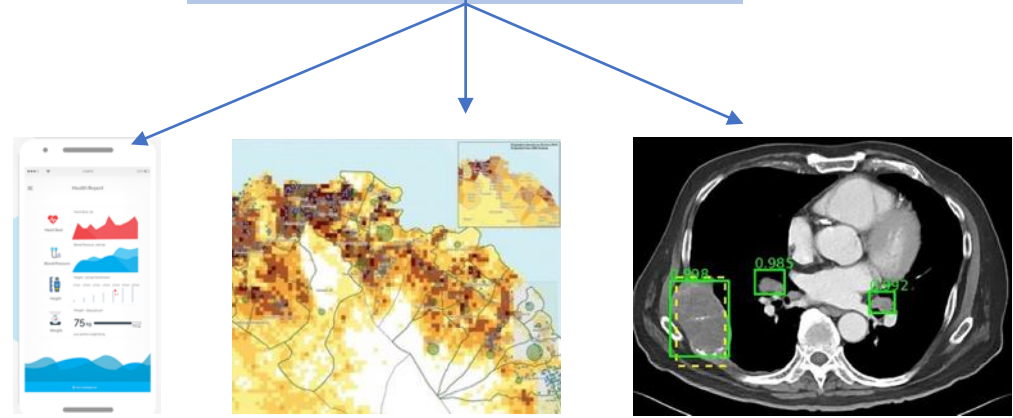
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**Dr Raunaq Pradhan, Product Lead, ABDM
National Health Authority**

3 Gateways for Digital Health

Interoperable
Health Data



Personal
Health
Records

Disease Surveillance
& data for public
Health management

Anonymized
large datasets for
machine learning

Live

design

design

Interoperable
Health Claims



Standardize the
interchange of information
between payers and
providers

Sandbox

Inter-operable
Health Services



Allow consumers to choose any
UHI app to reach any
participating health care provider
for these services

Sandbox

3 Simple Steps to Register In Healthcare Professionals Registry ?

1

Generate Healthcare Professional ID

Generate Healthcare Professional ID using
Aadhar or other KYC

2

Fill Registration Form

Fill Registration Form: Enter personal,
registration, academic and work details.

3

Submit Form

Review and submit form for verification.
Respond to queries (if any)

Link to video: [Process of Registration](#)

<https://hprid.abdm.gov.in>

Ayushman Bharat Digital Mission

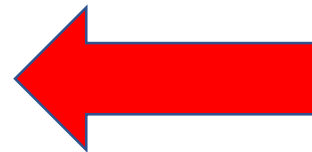
Participate in India's Digital Health Ecosystem

The Healthcare Professional ID allows healthcare professionals to connect to India's digital health ecosystem and access a host of services through the Healthcare Professionals Registry

In the future, the Healthcare Professional ID and Healthcare Professionals Registry will be expanded to include other categories of healthcare professionals in India



Create your Healthcare Professional ID now



Create your Healthcare Professional ID

The Healthcare Professional ID will allow healthcare professional to connect to India's digital health ecosystem.

Healthcare Professional Category




I AM HEALTHCARE PROFESSIONAL

I AM AN ADMINISTRATOR/FACILITY MANAGER

Already have a Healthcare Professional ID? [Login](#)

Create your Healthcare Professional ID



Generate via Aadhaar

Generate via Driving Licence

Already have a Healthcare Professional ID? [Login](#)

*If you choose to register using Driving Licence, you will be required to visit respective National/State Council for due verification.

Generate ID » Aadhaar

We will send an OTP on the mobile number linked to this Aadhaar

AADHAAR NUMBER / VIRTUAL ID*

Aadhaar Number / Virtual Id

English हिन्दी

I, hereby declare that I am voluntarily sharing my Aadhaar Number / Virtual ID and demographic information issued by UIDAI, with National Health Authority (NHA) for the sole purpose of creation of Healthcare Professional ID. I understand that my Healthcare Professional ID can be used and shared for purposes as may be notified by Ayushman Bharat Digital Mission (ABDM) from time to time including provision of healthcare services. Further, I am aware that my personal identifiable information (Name, Address, Age, Date of Birth, Gender and Photograph) may be made available to

I agree

21+7=?

Type answer- Code

Submit

Enter the 6 digit OTP code for Aadhaar received on your linked
mobile
number - *****2062

AADHAAR NUMBER / VIRTUAL ID

AADHAAR OTP*



Submit

Didn't receive OTP? [Click here](#) to resend.

82 seconds

Create your Healthcare Professional ID

The Healthcare Professional ID will allow healthcare professional to connect to India's digital health ecosystem.

[Generate ID](#) » [Aadhaar OTP](#) » [Mobile](#)

We will send one time password on this number

MOBILE *

+91 Enter Mobile Number

Submit

Create your Healthcare Professional ID

The Healthcare Professional ID will allow healthcare professional to connect to India's digital health ecosystem.

Create ID > Create ID via Aadhaar > Registration Form

We need the following details for creating your profile

UPLOAD YOUR PROFILE PHOTO * (MAX UPLOAD PHOTO SIZE:100 KB, TYPE: JPG/PNG)



MOBILE

+91 9958432062

FIRST NAME

Kunal

MIDDLE NAME

Middle Name

LAST NAME

Last Name

DATE OF BIRTH

DAY

20

MONTH

10

YEAR

1989

HEALTHCARE PROFESSIONAL CATEGORY LIST *

Healthcare Professional Category List

HEALTHCARE PROFESSIONAL ID / USER ID *

Healthcare Professional ID / User ID

@hpr.abdm

Suggestions: kunal, kunal20101989, kunal1989, kunal2010

EMAIL *

Email

NHA ABDM Work U...

Council | ABDM

Launch Meeting - Z...

National Health A

You can verify your Email ID through the profile section after the successful submission of this form.

PASSWORD *

Password

PASSWORD CONFIRM *

Password Confirmation

STATE/UT *

DELHI

DISTRICT *

District

PERMANENT ADDRESS

C/O : Lt. Sh. Sukhdev Raj 129 New Lajalpur Colony Krishna Nagar

GENDER *

Male

Submit

Need Help?

If you have questions regarding Healthcare Professional ID, please go through our [FAQs section](#)

If you are not able to register or are facing other issues with registration, please contact us at <https://grievance.ndhm.gov.in/> or call us at our toll free number - **1800-11-4477 / 14477**

Get Help








Kunal


kunalarora1989@hpr.abdm


Profile Actions

 View Healthcare Professional ID card

 Edit Profile

 Change Password

 Update/Verify Email Address

 Re-KYC Verification

Please complete your registration in the

Kindly keep the following documents ready with you in digital format before filling up the form:

1. Registration card/ certificate
2. Degree certificate
3. Appointment letter/ Recent Pay slips/ Recent Transfer order (in case of Government employees)

Please complete your registration in the Healthcare Professionals Registry [click here](#)

Healthcare Professional ID card available for verified registrations only



Profile



Kritika Koli

Date of Birth : 17/12/1986

Gender : Female

Aadhaar Verified

Edit Profile Picture

Healthcare Professional ID

71-0XXXXXXXX-4154

Council Verification Status

Draft

Work Detail Verification Status

Not Applicable

Email (For official communications)*

kritika.oth12@gmail.com

Verify

Mobile Number (For official communications)

91-9818557307

Add/Update Mobile

Profile Completeness

91%

1

Personal Details

2

Registration & Academic Details

3

Work Details

4

Preview Profile

Additional Personal Details

Salutation *

Dr. Mr. Ms. Do Not Specify

Do you want to show a different public profile picture ?

Yes No

First Name (For Public Display) *

Kunal

Middle Name (For Public Display)

Middle Name

Last Name (For Public Display)

Last Name

Father's Name

Mother's Name

Spouse's Name

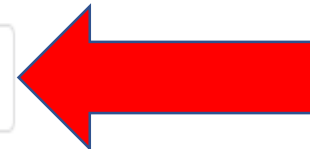
Nationality

Indian



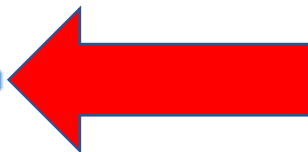
Languages spoken *

Note: Multiple language can be selected



Communication Address

Is this communication address same as your address as per KYC ?



Name *

Kunal

Address *

C/O : Lt. Sh. Sukhdev Raj 129 New Layalpur Colony Krish

Country*

India

State/Union Territory *

Delhi

District *

East

Sub District

-- Select City --

City/Town/Village

--Select--

Postal Code(PIN) *

110051

Contact Information

Should your public mobile number be same as your official mobile number?

Yes No

Should your public E-Mail ID be same as your official Email communication?

Yes No

Mobile Number (For public display) ⁱ

+91

9958432062

Email ID (For public display) ⁱ

doner.kunal@gmail.com

Landline Number (For public display)

Save Draft

Save & Next

Profile Completeness

23%

Draft

1

Personal Details

2

Registration & Academic Details

3

Work Details

4

Preview Profile

System of Medicine (for public display) *

Modern Medicine Dentistry Ayurveda Unani Siddha Sowa-Rigpa Homeopathy

Back

Save Draft

Save & Next



Registration Details (Unani)

Registered With Council *

Board of Ayurvedic & Unani System of Medicine, ...

Registration Number *

JK-23232

Registration Date (if available)

26/05/2023

Is this registration permanent or renewable? *

Permanent Renewable

Registration Certificate Attachment *

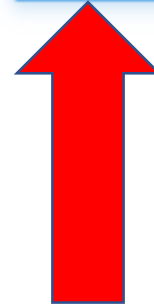
Choose File Boarding_Pass(GOI-DEL).pdf

Max Allowed File Size 5 MB. (Allowed Formats : PDF, PNG, JPEG, JPG)

Is your name in registration certificate, different from your name in Aadhaar?

Yes No

 Pull From DigiLocker



Basic Qualification Details (Unani)

Name Of Degree Or Diploma Obtained (for Public Display) *

BUMS - Bachelor of Unani Medicine & Surgery

Country Name *

India

State (in which college is located) *

Jammu And Kashmir

College *

Kashmir Tibbia College, Hospital and Research C...

University *

University of Kashmir

Month Of Awarding Degree/Diploma

February

Year Of Awarding Degree/Diploma (for public display) *

2023

Degree Attachment *

Choose File Boarding_Pass(GOI-DEL).pdf

Max Allowed File Size 5 MB. (Allowed Formats : PDF, PNG, JPEG, JPG)

 Pull From DigiLocker

Is your name in degree, different from your name in Aadhaar? *

Yes No

Add Additional Qualification

1

Personal Details

2

Registration & Academic Details

3

Work Details

4

Preview Profile

Self Declared

Current Work Details

Are you currently working? *

Yes No

Nature of Work *

× Practice

Choose work status *

Government only Private Practice only Both

Attachment *

Choose File No file chosen

Max Allowed File Size 5 MB.

(Allowed Formats : PDF, PNG, JPEG, JPG)

Please upload proof that you work for government such as Appointment Letter, Recent Pay-slip, Recent Transfer Order etc

Pull From DigiLocker ⁱ

Place of Work (For Public Display)

Choose Facility Type

Facility Organization

Place of Work (For Public Display)

Choose Facility Type

Facility Organization

Please fill in the below details to add a new facility and declare your association with them. Upon completion of this form, the facility manager will be notified, and they can approve or decline. Upon approval, the declaration status will be changed to Approved in the place of work section.

Search My Facility

Enter Facility ID(if known)

Search

OR

Facility Name

On The Map

Facility Name

State *

District *

Facility Name

--Select--

--Select--

Search

Declared Place of Work

Please ensure that all facilities you practice at are listed below

Facility ID	Facility Status	Name	Address	State	District	Type	Department	Designation	eLoc	Status	Action
		Agarwal	F/758,	Uttar	Ghaziabad			Dentist		Declared	Delink

Declared Place of Work

Please ensure that all facilities you practice at are listed below

Facility ID	Facility Status	Name	Address	State	District	Type	Department	Designation	eLoc	Status	Action
IN0710000022	Submitted	ticket 279283	test address	Delhi	East	Medical College	a	b		Declared	Delink



Pending Facility Declarations

Please approve or deny the below declaration from health facilities who have listed you as an associated health professional in the Health Facility Registry

Facility ID	Name	Address	State	District	Type	Department	Designation	Action
No record Found								

Add Teleconsultation URL

Teleconsultation Url

[Back](#)

[Save Draft](#)

[Save & Next](#)

1

Personal Details

2

Registration & Academic Details

3

Work Details

4

Preview Profile

**Dr. Kritika Koli****System of Medicine: Dentistry****Contact Number: 9818557307****Email ID: kritika.koli86@gmail.com****Work Status: Practice****Language Spoken: English , Hindi****Do you want your profile to be visible to the public? *** **Yes** **No****Note :** You provide your consent to this application to display your profile in public**Anyone assisted you to register in HPR ? *** **No** **Yes**

Qualification

BDS - Bachelor of Dental Surgery

Years of Experience

11

Work Status

Practice

Place of Work

Agarwal Dental Clinic**About**



Dr. Kunal

Specialization - Abdominal R

Book Appointment

System of Medicine: Modern Medic

your profile in public

Experience

Consented fields for public display



* Mandatory Fields

- | | |
|--|---|
| <input checked="" type="checkbox"/> Name | <input checked="" type="checkbox"/> Specialization |
| <input checked="" type="checkbox"/> Qualification | <input checked="" type="checkbox"/> Years of Experience |
| <input checked="" type="checkbox"/> System Of Medicine | |

Optional Fields

- | | |
|--|---|
| <input type="checkbox"/> Email Id | <input type="checkbox"/> Contact Number |
| <input type="checkbox"/> Work Status | <input type="checkbox"/> Profile Picture |
| <input type="checkbox"/> Place of Work | <input type="checkbox"/> Languages Spoken |

About

0/500

OK