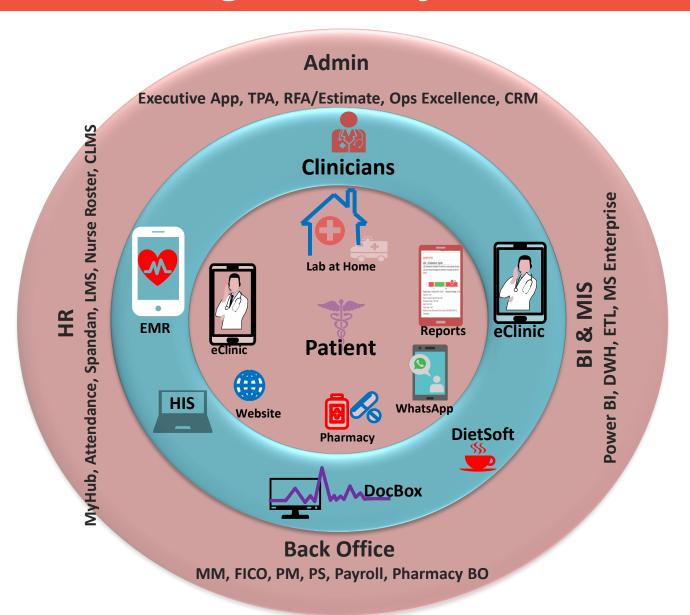
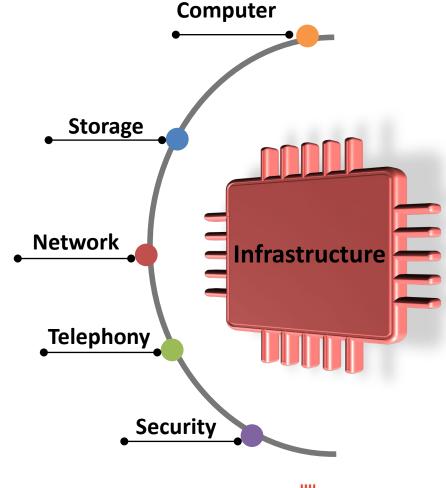




Medanta Digital Ecosystem



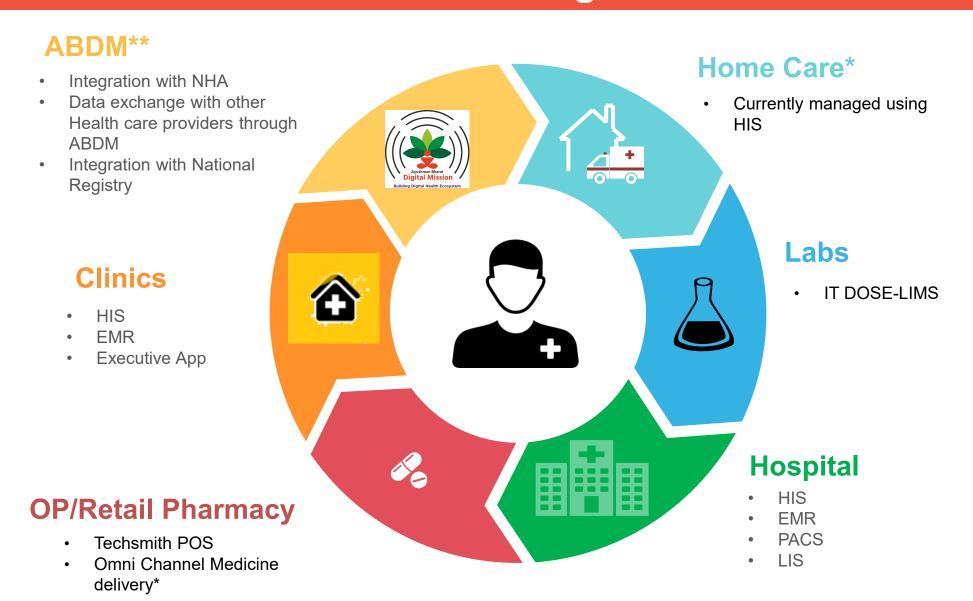




Current IT Landscape



Medanta Health Information Exchange





"To-be" IT landscape



Care away from Hospital

Diagnostic **Appointments** **Medication Orders & Refill request**

Chat bot & website

Porter Management



ML driven OPD Prescription

BCMA

Tele-radiology

Radiation Exposure Management

e-ICU



Admin **Back Office**

ICMS

Healthcare Analytics

CCC

Budgeting & Controls

DMS (SAP)



IT Infra

Cybersecurity

Enhanced Interoperability

BCP & DR

SOC

Infra Refresh



Home care solution





Patient Satisfaction

Customize Lead Pipeline and Lead workflow automation

Leads from various channels

- Incoming and Outgoing call Integration for Lead
- Lead Engagement based on pipeline, location & status
- Lead auto conversion process and Lead LTV metric



- Membership Plan & Loyalty to retain & benefit patients
- Patient Experience Survey, Feedback and NPS Score
- Patient Engagement by Text, Email, Messaging & Video call
- Patient Campaign management to generate additional revenue
- · Prospect Management for conversion of leads to sale



Physician Workflow



Patient Monitoring



Real-time messaging



Feedback Management

Lead Management

Careflow **Management**

Patient Experience Management

Operation Management



Billing on the Go

- Custom Outcome Assessment Forms
- Home IPD/ICU
- · Short Term and Long Term Care Plans (Pre-Planned/Custom)
- Medicine Home Delivery & Sample Collection at Home
- Work List for Clinical & Non-Clinical Staff or Team

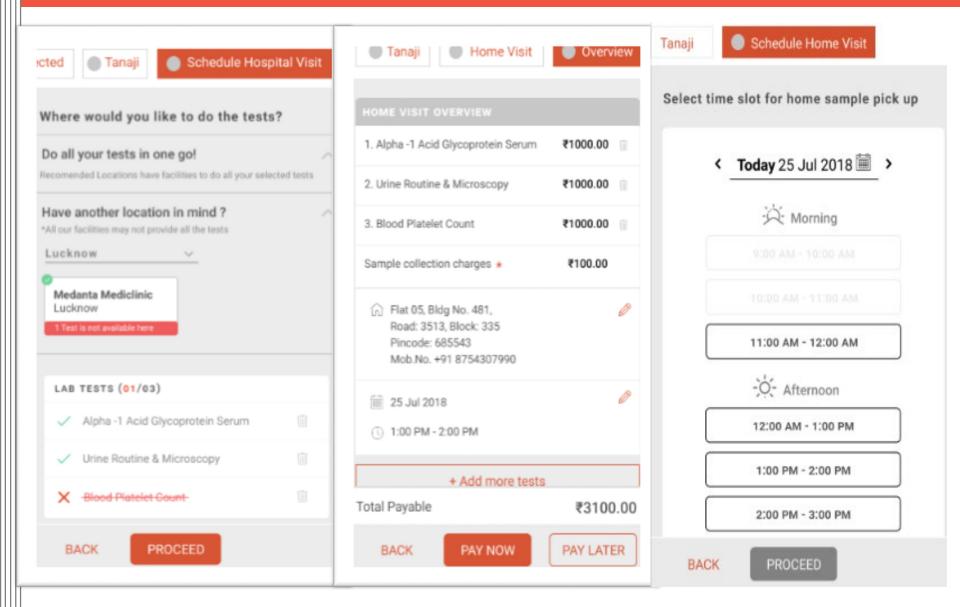
- Billing enabled with estimation, discounts, offers, package
- Multiple encounter OPD packages
- Roster Management supporting multiple shift hours for providers
- · Appt. Mgmt by specialty, skills, grade, proximity & locations
- Patient Area Locator With Assisted Map
- Reports & MIS for clinical operation



Nursing / Phlebo worklist

Mar: Contract; May: Requirement Gathering; Aug: UAT; Sep: Go-Live medanta

Diagnostics Appointment



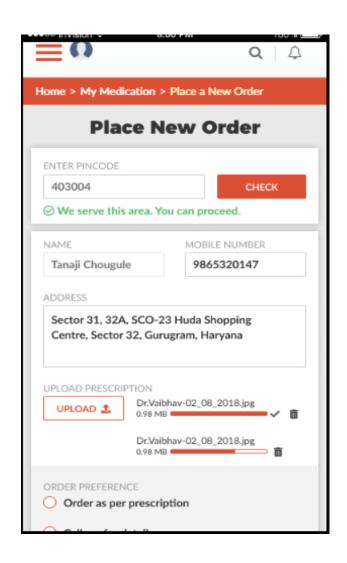
Scope

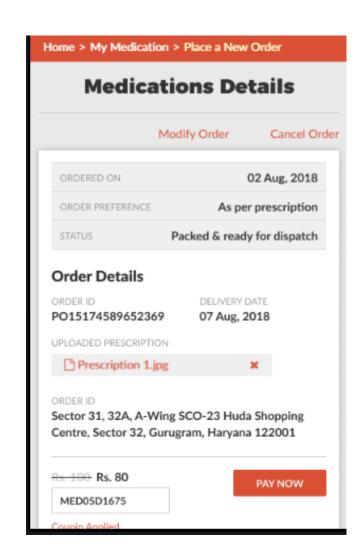
- Pin-code based service
- E-Commerce like cart based UX
- Location choice including home, hospital site
- Prescription upload
- Prepayments or Pay later
- Flexible slots
- Multiple areas of services

Go-Live: Q3



Medication Orders





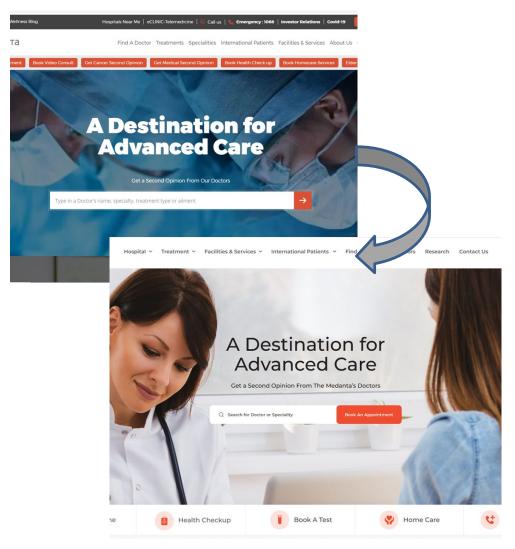
Scope

- Pin-code based service
- Prescription upload
- Order modification & cancelation
- Reorder with flexibility to change
- Notification / Reminders
- SLA & Real time order tracking
- Cross Sell
- Analytics

Go-Live: Q4



Website migration



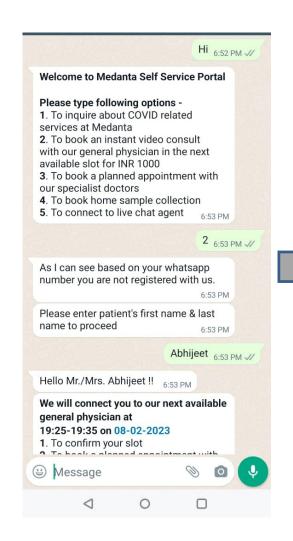
Scope & Timelines

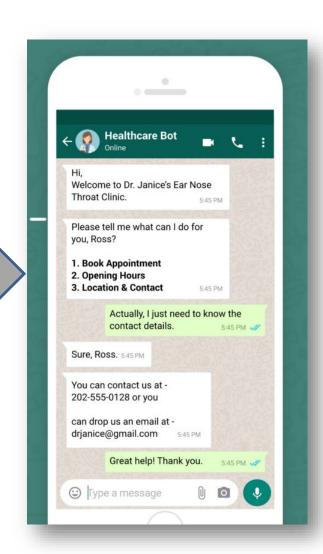
- More traffic
- 2. Improved UX
- Better customer retention.
- 4. Robust security
- 5. Segregation of transactions and information portal

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Q1: Design Ready; Q2: Content & development initiated; Q3: Go-Live

Chat bot based UX for navigating & engaging patients



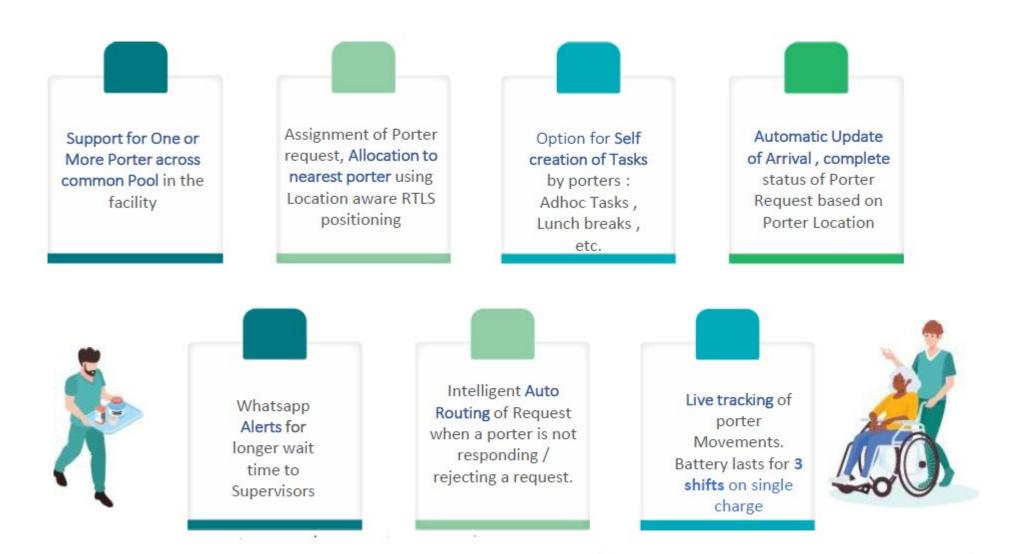


Scope

- Doctors Appointments (Q1)
- 2. Reports (Q1)
- 3. Diagnostics Appointments (Q2)
- 4. Medication delivery (Q3)
- Health Checks (Q3)
- 6. Homecare (Q4)



Better porter availability



Apr: Contract; May: Infra readiness; Aug: UAT; Sep: Go-Live



ML based smart OPD prescription



Touch based EMR

User-friendly touch based EMR designed for fast documentation



Embedded Terminology

Automatically codes from user input and text narratives using SNOMED CT terminology



ML driven perceptive capabilities

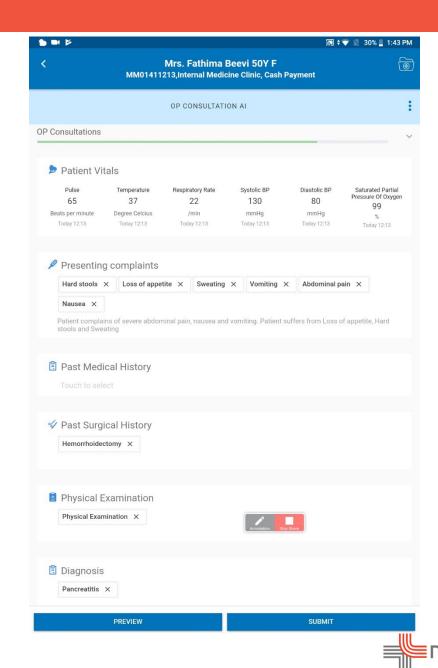
Learns user's documentation patterns and auto sorts diagnoses, investigations and prescriptions based on user's previous documentation



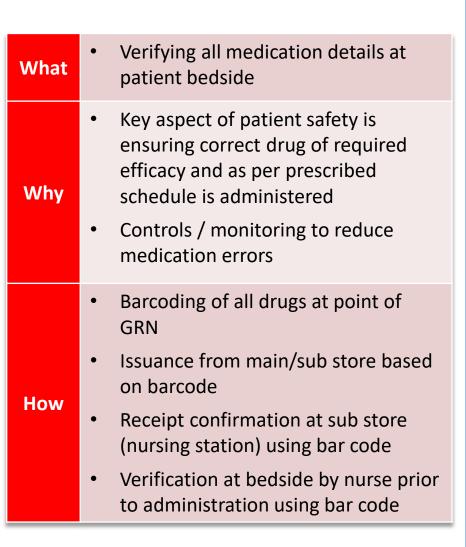
Integrated scheduling and referrals

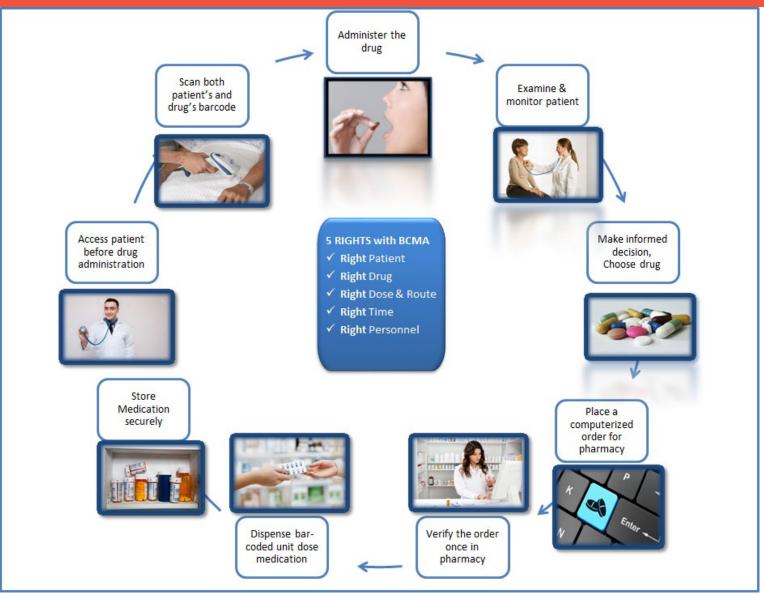
Automatically books an appointment or sends a referral to the selected team / practitioner reducing manual follow up work

Oct: UAT; Jan: Go-Live



Bar coded Medication Administration: From Rx to Administration





Mar: PoC; May: Requirement Gathering; Sep: UAT; Dec: Go-Live



Healthcare analytics & timelines



Faster TPA Clearance

Paper less Rule Engine Data Extract Tracking Enhancement MIS Display Board

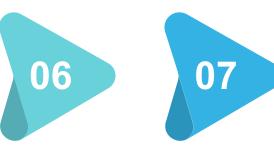












Pre-auth. Enhancement. Discharges. Filled Request. FTR & Better TAT. HIS Integration. Upload doc. Status wise claims.
Easy Recon.

Revise Amt. Add Doc. Case Status.
Outstanding
Dues.
TPA Perf.
TAT.

Real-time update on claim status. Status in App.

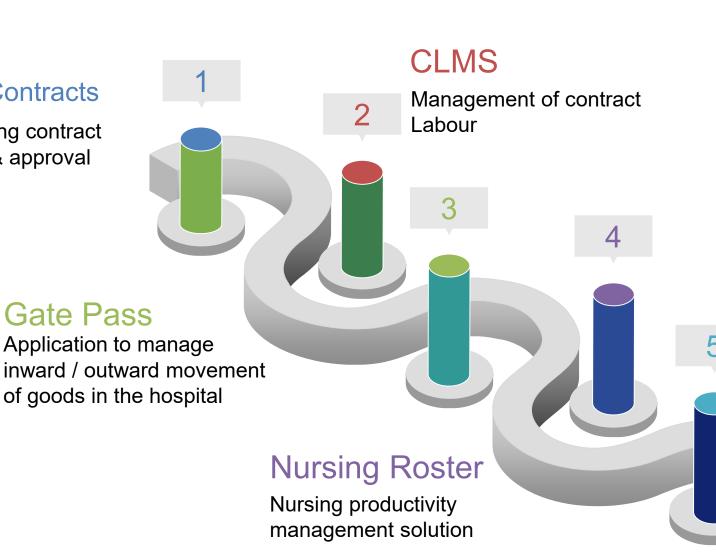
A Revenue Collection Management Solution; Go-Live:Q4



Planned rollouts to other sites (already in production in Gurugram)

Marketing Contracts

Online marketing contract management & approval workflow



Application LKO Patna Indore **GGN** Marketing Q1 Q2 Contracts Q2 **CLMS** Q3 Q1 Q2 Q3 Q1 Gate pass Nursing Q3 Q4 Roster Digital Q2 Q2 Q2 Q2 Marketing

Digital Marketing

Cohort based patient engagement platform & for effective lead management



Risks

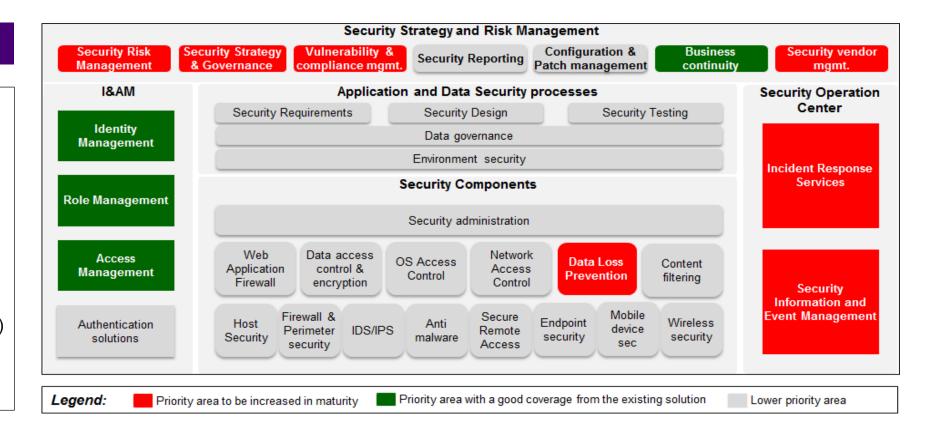


Cybersecurity risks

Gaps & Priorities

Gaps creating considerable risk to be addressed in short term:

- Security risk management establishment
- Data loss prevention management
- Vulnerability management
- Security governance implementation
- Security Operation Center(SOC) set-up
- Security vendor management



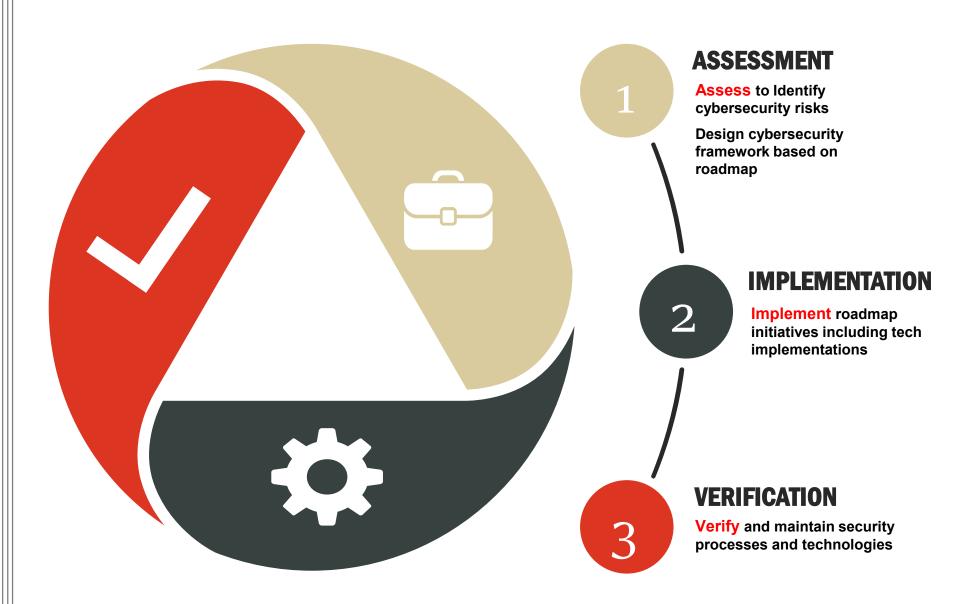
Goals

- Asses security implication
- Maintain control of IT assets from a security perspective
- Protect confidential patient data
- Maintain compliance with local laws and regulations

What we don't know we don't know



Cybersecurity Mitigation Planning



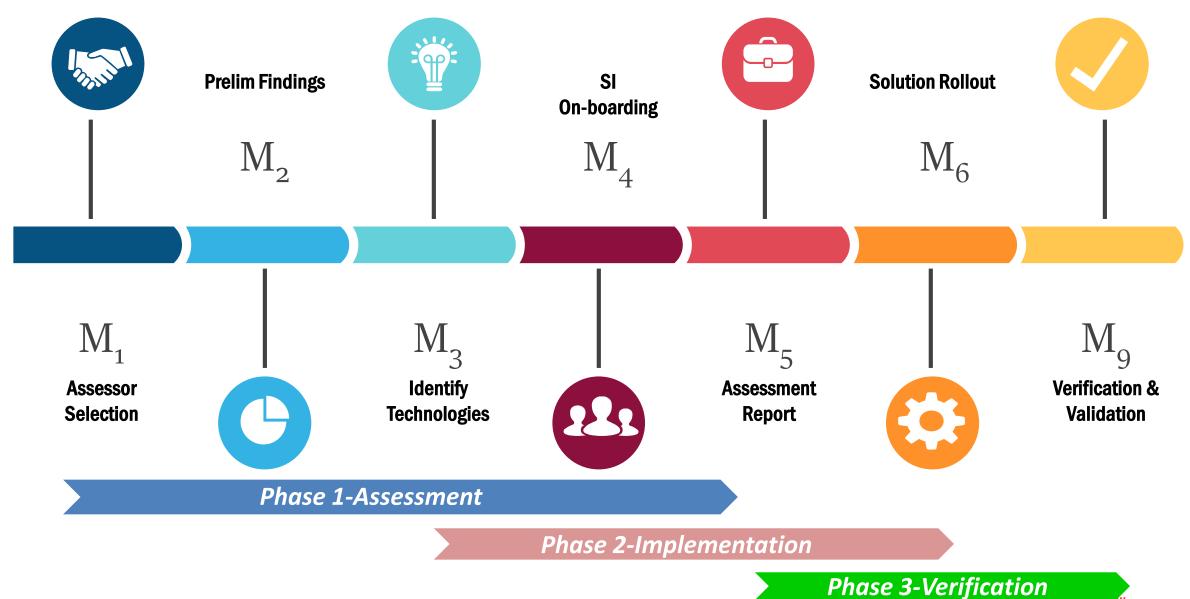
Engage **Big4** for performing assessments and designing frameworks

Leverage **niche technology** companies
for implementation

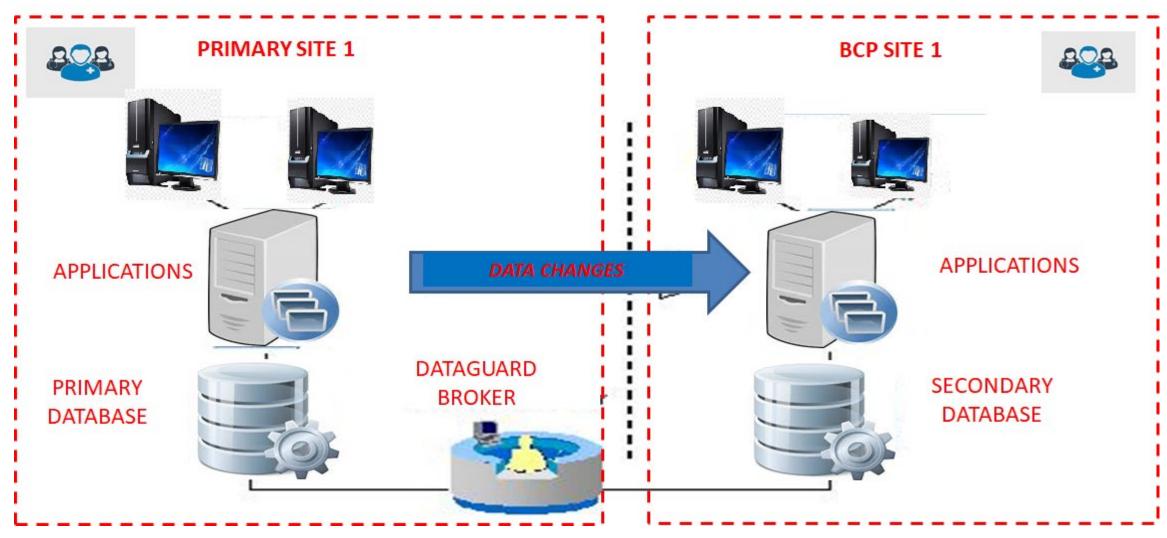
Selected **Big4** to do the verification of implementation



Cybersecurity Mitigation Timelines



Proposed BCP / DR Sites



IN CASE OF PRIMARY SITE FAILURE APPLICATIONS USERS CAN CONNECT TO SERVERS OF BCP SITE OR CAN EVEN PHYSICALLY MOVE TO WORK FROM BCP SITE IF PRIMARY SITE IS NON FUNCTIONAL

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BCP / DR: Budget and Timelines

			Cost in (₹) Lakhs		Timelines in
Application	Current Site	BCP/DR Site	**Capex	*Opex	Months
Gurgaon HIS	Gurgaon DC	Mini DC at Jivaka	610	15	10
EMR App	Gurgaon DC	Mini DC at Jivaka	16	15	10
Patient Portal	Gurgaon DC	Mini DC at Jivaka	16	15	10
SAP	Gurgaon DC	Patna DC	27	5	7
LIMS	Gurgaon DC	Lucknow DC	29	5	7
OPD Pharmacy	Gurgaon DC	Patna DC	25	5	7
HRMS	Gurgaon DC	Lucknow DC	30	5	7
Total Estimated Capex & Opex			753	65	

^{**} Capex includes costs of Infra and software licenses

Data loss elimination | Minimize critical process interruption | Continuity of business



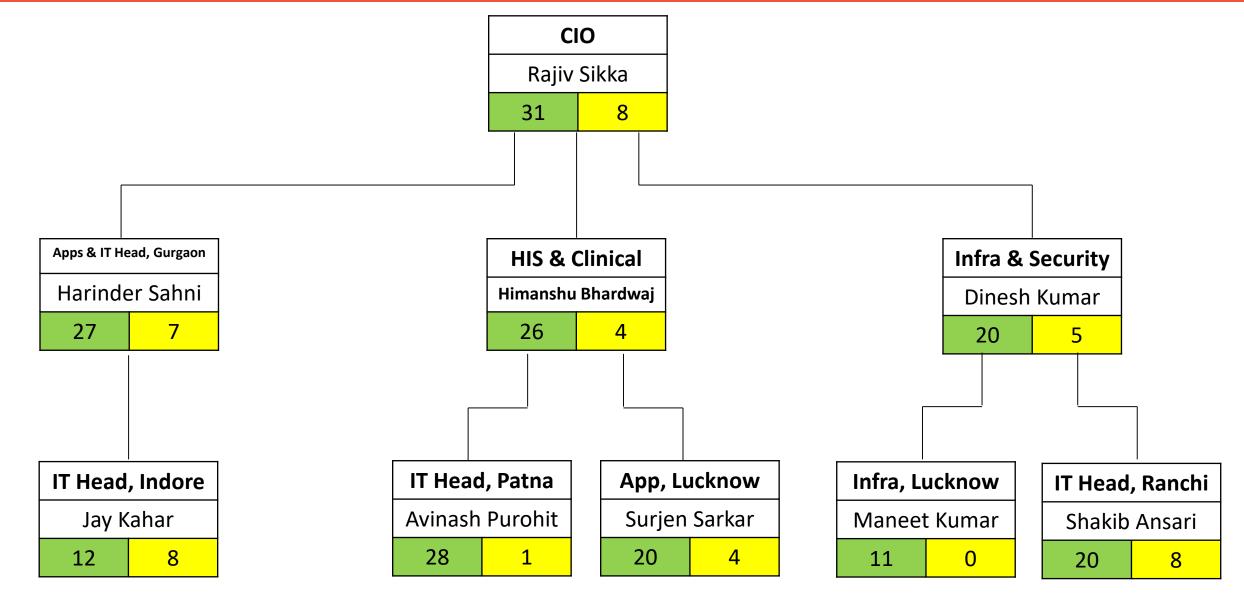
[•] Opex cost is per annum and includes cost of network connectivity, man power and operation

[•] Lucknow HIS, Patna HIS, BI and other applications will be considered in next phase

IT Organization



Infra: Assets under management





Thank You

