



EMPOWERED BY INNOVATION

# Smart Care For Improved Healthcare Outcomes

IMPROVING EFFICIENCY & REDUCING OVERHEADS IN HEALTHCARE THROUGH  
CONNECTED CARE



# Who We Are

We are a **healthcare technology** company specializes in **Tele-health** and **Connected Care** Products and Solutions. Products are purpose built atop our proprietary platform and optimized for **small-to-medium** health and wellness settings allowing integrated and personalized care delivery to patients.



# What we Offer

Broad spectrum of healthcare products suite includes:

Connected Care, Tele-medicine, EHR and Patient-side smart solutions.

FHIR based integration with EMR such as Cerner and Epic

AI Chatbot and Process Automation Solutions

Fully Integrated platform pre-integrated with medical devices and capable to get integrated with Pharmacies to enhance patients' experience.

Care Platform-as-a-Service (PaaS) for ISVs and System Integrators



# Business Model

Since 2017, we have established footprints in **USA, UAE** and **Asia**.

We run our sales cycles through **channel partners, OEMs** and **direct sales**.

Typical customers range from small **hospitals/clinics, private practicing doctors, augment care delivery** centers and **ISVs**.



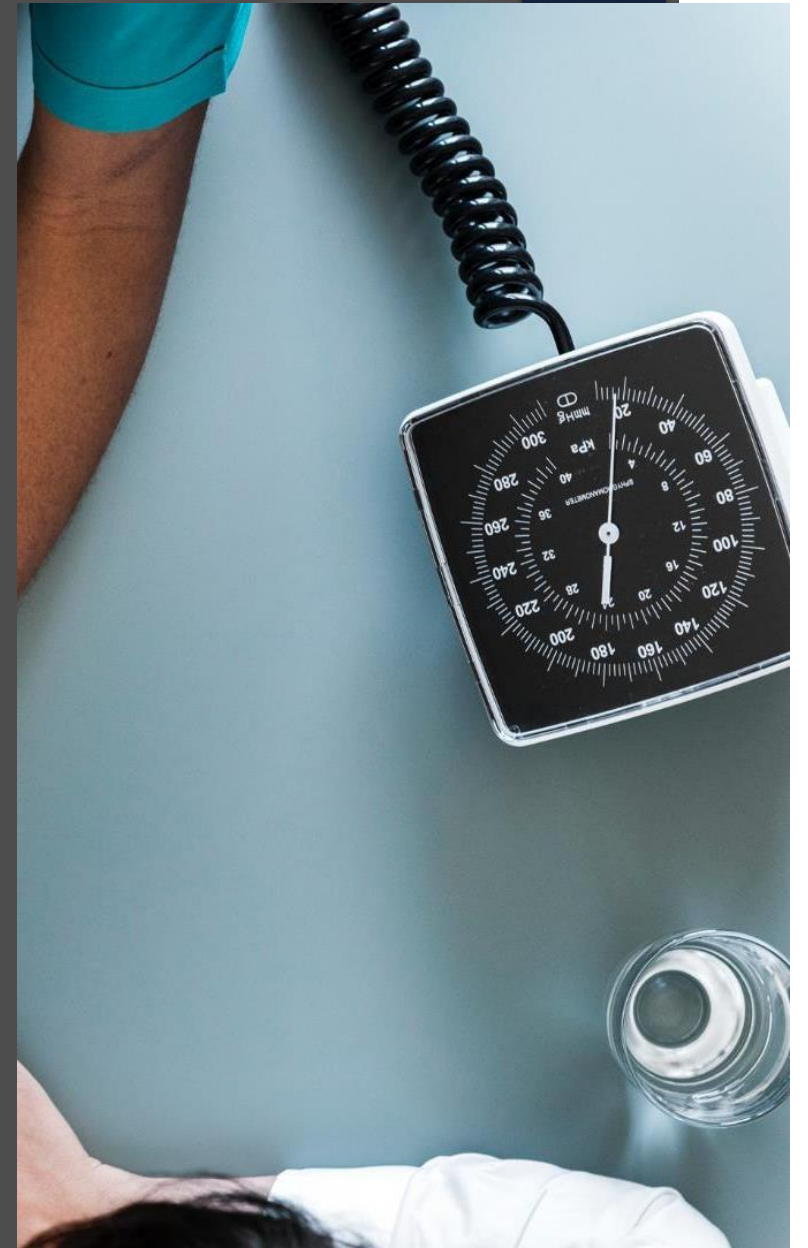
# Sales and Growth Strategy

Since 2019, reasonable **year-over-year growth** in sales owing to our strategic **alliances** and **partnerships**.

As part of our growth strategy we offer Care **Platform-as-a-Service**, **AI** based **applications** (such as chatbot), **Tele-health** and **Connected Care** solution for **augmenting** service **delivery**.

# Electronic Health Records

WHAT DOES IT MEAN TO HOSPITALS AND  
DOCTORS



# Electronic Health Records

Patient vitals history, lab results and ECG, etc. are vital elements to improve care and outcomes

Vitals, lab reports, imaging

Demographics

Know your patients better by knowing family history, race, etc.

Admittance & Discharge

Entering registration info directly EHR prevents mistakes

Patient EHR

Hospital Visits & Doctor notes

Keep track of doctor visits, maintain history of doctor notes/prescription

Drugs, Allergies & Procedures

View of food/drug allergies, past n current procedures saves time and improve outcomes

Conditions, Diagnosis & Reporting

Patient conditions and past diagnosis are weigh importantly in prescribing new treatments

EHR is the practice of acquiring, analyzing and recording traditional Medical and Health information in a digital format.



With the widespread computerization of health records, traditional (paper-based) records are being replaced with EHRs



A well-organized Electronic Health Record system is vital to providing quality, values-based patient care



EHRs may include a range of data, including demographics, medical history, medication and allergies, immunization status, laboratory test results, radiology images, vital signs, personal statistics like age and weight, and billing information

Fundamental elements of Electronic Health Records

# Hospital Information System



Hospital Information System (HIS) is a data collection system specifically designed to support planning, improved management, and decision making in health facilities.



A well-organized EHR (vital element of HIS) is important for a thriving health system. Hence the Information digitization.



Users (Patients, Doctors, Physician, Nurses) are essential elements of any HIS



Centered around Patient outcomes, several (small and large) systems collectively make up the foundation of HIS that maintain holistic view about patients



# Connected Care

CHANGING TIMES AND NEW TRENDS IN  
CARE DELIVERY MAKES IT CRUCIAL TO HAVE  
FOR PROVIDERS TO STAY RELEVANT



# The Problem



## Total Cost of Care

Cost for doctor visits and hospitalization is getting exorbitant



## Time Management

Imbalanced doctor to patient ratio in hospitals and long wait times



## Overloaded OPD

Insufficient staff available to cope with the patients load especially in the wake of COVID-19



## Lack of Adherence

Patients find it hard to adhere to chronic treatments without a good support system



## Health worries for the staff

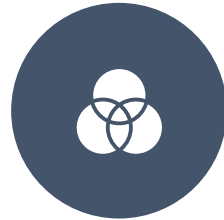
Too many and frequent physical visits take its toll on management and facilities

# Value Proposition



## Decreased Costs

Patient monitoring done on a real-time basis and seamless transfer of information, cuts down on costs due to decreased in-patient stays and by cutting down on unnecessary visits to doctors.



## Improved Outcomes

Real-time feedback from all parties of the care team, creates scope for a much more informed decision making. This ensures healthcare provision is timely and treatment outcomes are improved.



## Reduced Errors

Accurate collection of data, automated workflows combined with data driven decisions are an excellent way of cutting down on waste, reducing system costs and most importantly minimizing on errors.



## Enhanced Patient Experience

Proactive treatments, improved accuracy when it comes to diagnosis, timely intervention by physicians and enhanced treatment outcomes result in accountable care that is highly trusted among patients.



## Enhanced post-acute care & drug management

Harmonization between patient and physician post hospitalization, ensures proactive care and better drug management, thereby reducing re-admissions and increasing scope of full recovery.

# Importance of Connected Care

- ✓ **Smart care delivery** causes improved outcomes and patient satisfaction; **decrease** in **re-admissions** and physical visits.
- ✓ **Tele-consultation**, **treatment** & **nutrition** plans, health discussions and health tips with professionals via MMS and virtual visits.
- ✓ Almost **no overhead** to **reach patients** in timely manner and **intervene** promptly when needed.



# Digital Care Eco-system

## Health Devices

Connect and share vitals with your doctor from home based medical devices.

## Push Notificaiton & Alerts

Securely send messages and push notificaiton

## Lab Reports, Blood Tests

Share reports between providers and patients

## EHR & Pharmacy Integration

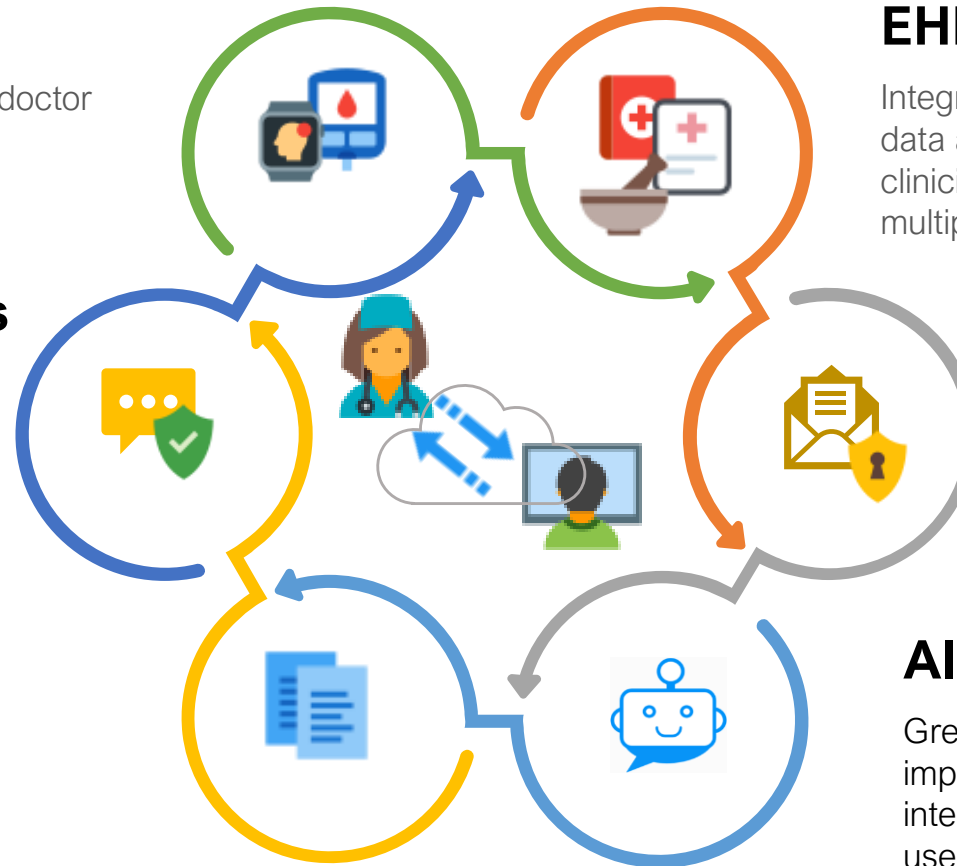
Integrating digital health products both in terms of data as well as clinical workflow. It requires clinicians and other users to login and use multiple products

## Secure Communication

All patient data within the system is secured and clinician and patient can access the data without risk of a breach.

## AI Chatbot

Great way to disseminate care knowledge, implement process automation (RPA), tailored and interactive user experience delivery as well as be used to help doctors fetch information, order supplies, etc.

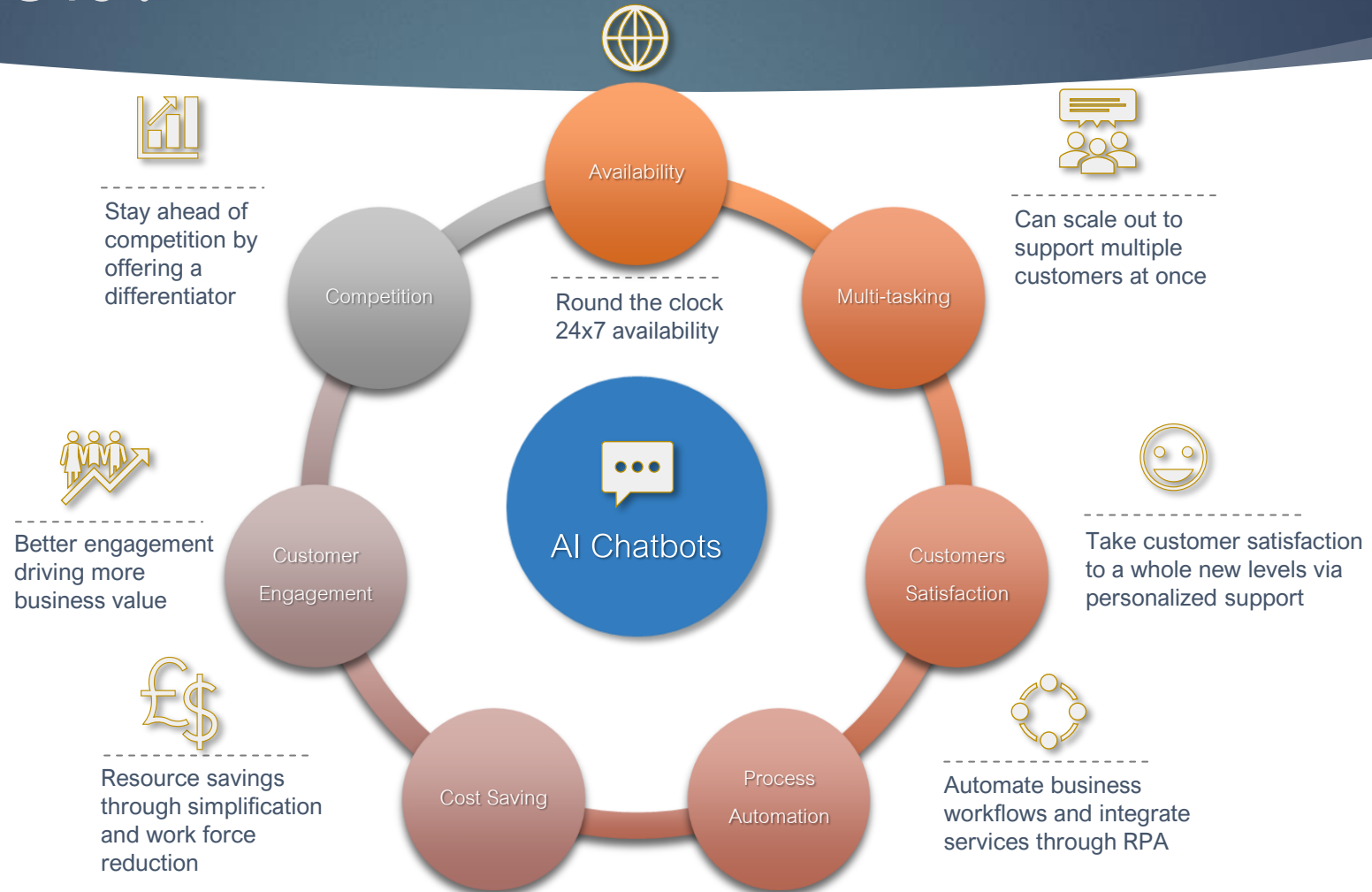




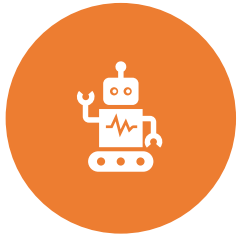
# AI Chat Bots

CONVERSATIONAL VIRTUAL ASSISTANT USING NLP

# Why Do Businesses Invest in AI Chatbots?



# Operational Benefits



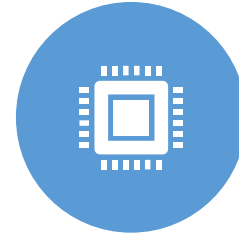
BUSINESS PROCESSES  
AUTOMATION AND MULTI-  
TASKING



TAILORED AND  
INTERACTIVE USER  
EXPERIENCE DELIVERY



COLLECTIVELY SUPPORTING  
COMPLEX QUERIES AND  
PERMUTATIONS



SCALABILITY, DEPENDABILITY,  
TRACEABILITY AND SELF-  
LEARNING



TIME AND COST SAVINGS  
THROUGH ADMINISTRATIVE  
BURDEN REDUCTION



# Chatbot Relevance In Healthcare



## Medical Knowledge

Trained using real historical data, bots can guide the parents or patients by understanding symptoms, assessing conditions, demographics, etc. and identify the care needed.



## Context Awareness

Much like a real conversation between a doctor and a patient, bots learn the dialog flow and stay relevant.



## Relevant and Data driven

Data and evidence drive them, as opposed to hard coded logic making them effective learner. It can remind patients to take their medication, help them stay motivated to stick to their schedules.



## Operational Efficiency

Not only they can provide relevant medical information, they can also be used to help doctors look up medication information, order supplies, write prescriptions and other practitioner-specific administrative tasks.



## Process Automation

Bots are the enablers for Robotic Process Automation (RPA). Patient history, training materials and other notes can be sent to relevant parties to create treatment plans or keep patients on track with their health goals.



## Provider's Assistant

Chatbots can also help healthcare providers with customer service, assisting with tasks like taking patient information, answering medical questions, and booking appointments.



## Patients' Administration

Used to streamline admissions, create discharge or transfer requests, schedule patients, send and receive referrals and quickly retrieve pertinent patient information from EMR/EHR files.

# Chatbots Landscape

## Sensely

Patients can report their symptoms and receive either a referral or self-care advice. In partnership with the Mayo Clinic.

## Ada

You tell the bot your symptoms, and it gives you a possible diagnosis.

## \*Pollak

NLP (AI) based bot helps in automating tasks such as health records retrieval, sending custom reminders, basic symptoms checker, appointment booking and much more.

## Babylon

Provides a symptom checker bot. It helps in booking in-person or tele-health appointment with a doctor.

## Sophie

Helps in navigating healthcare journey. AI chatbot allows to upload medical data and evaluate symptoms

# Chatbot In Healthcare System

Scenario #1:

Patient  
Conversation

Hi Sam! What can I do for you today?

I have been *feeling dizzy* for the *last hour*.

Oh! What is your *current body temperature*?

*39 C*

I see. That is *above normal*. Are you *feeling any other symptoms*?

I'm also *feeling slightly feverish*.

Okay. I *recommend you meet your doctor*. He is available at *6 PM today*. Would you like me to *book an appointment* for you?

*Yes, please!*

*Done! I have fixed your appointment.*

# Chatbot In Healthcare System

Scenario #2:

Doctor  
Conversation

Hi Dr. Filipe! What can I do for you today?

I am looking for [treatment plan](#) for [patient Dennis](#)

You have treated 2 patients by the name Dennis, [which Dennis](#) will it be?

[Dennis Jackson](#)

[Dennis Miller](#)

You selected [Dennis Miller](#), here are the links to his treatment plan based on certain [priorities](#):  
[Telemedicine notes](#), [EHR record](#), [Questionnaire](#), [Prescriptions](#)

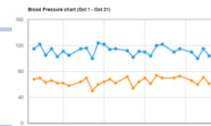
Great, thanks! One more thing, I need to send [email reminder](#) to this patient for [follow up visit](#)

I see that he doesn't have an appointment setup. Will provide him [3 available appointments](#) choices based on [your schedule](#).

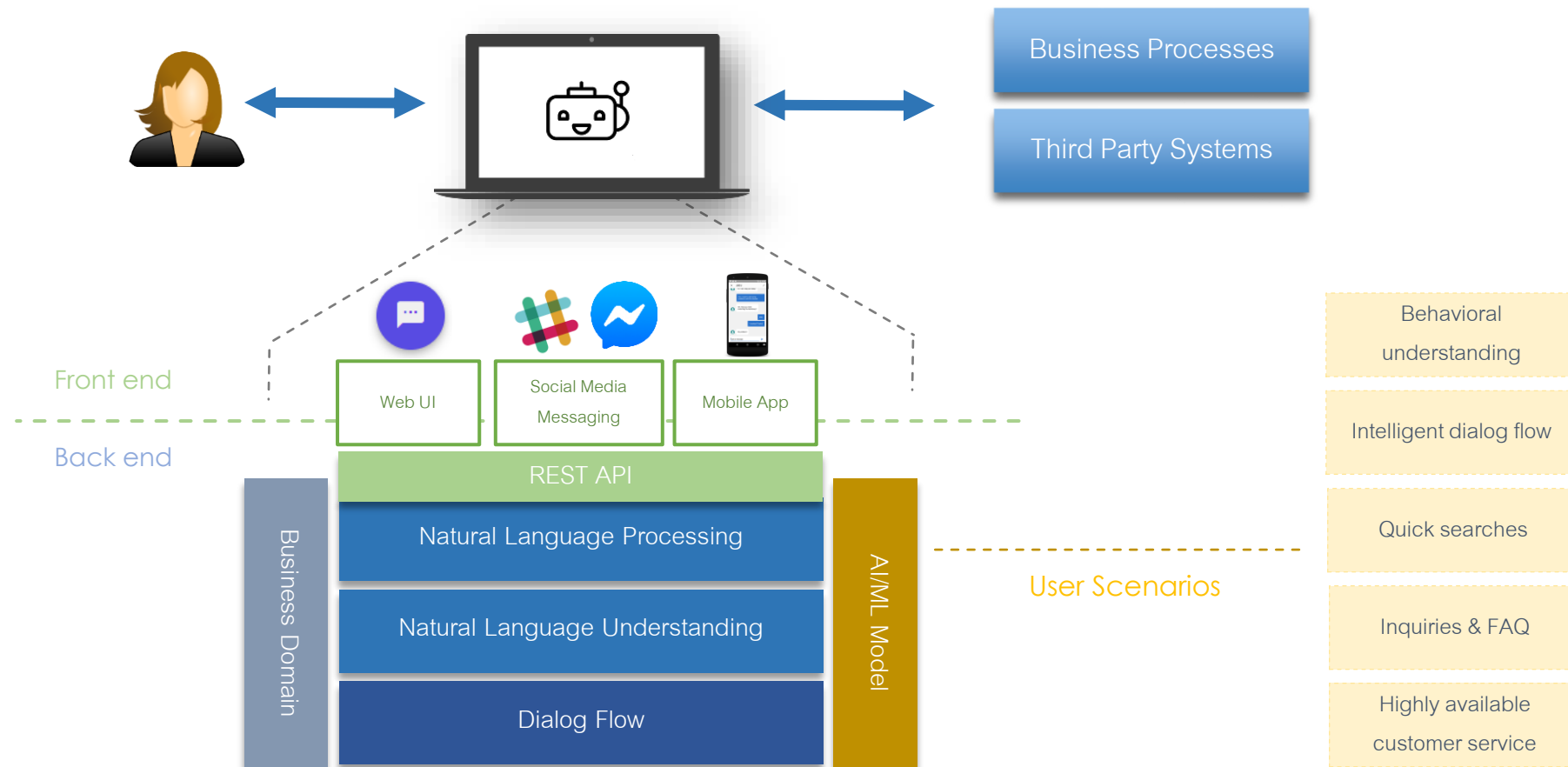
Anything else?

Lastly, email me his [blood pressure chart](#) over [2 months period](#).

Here it is



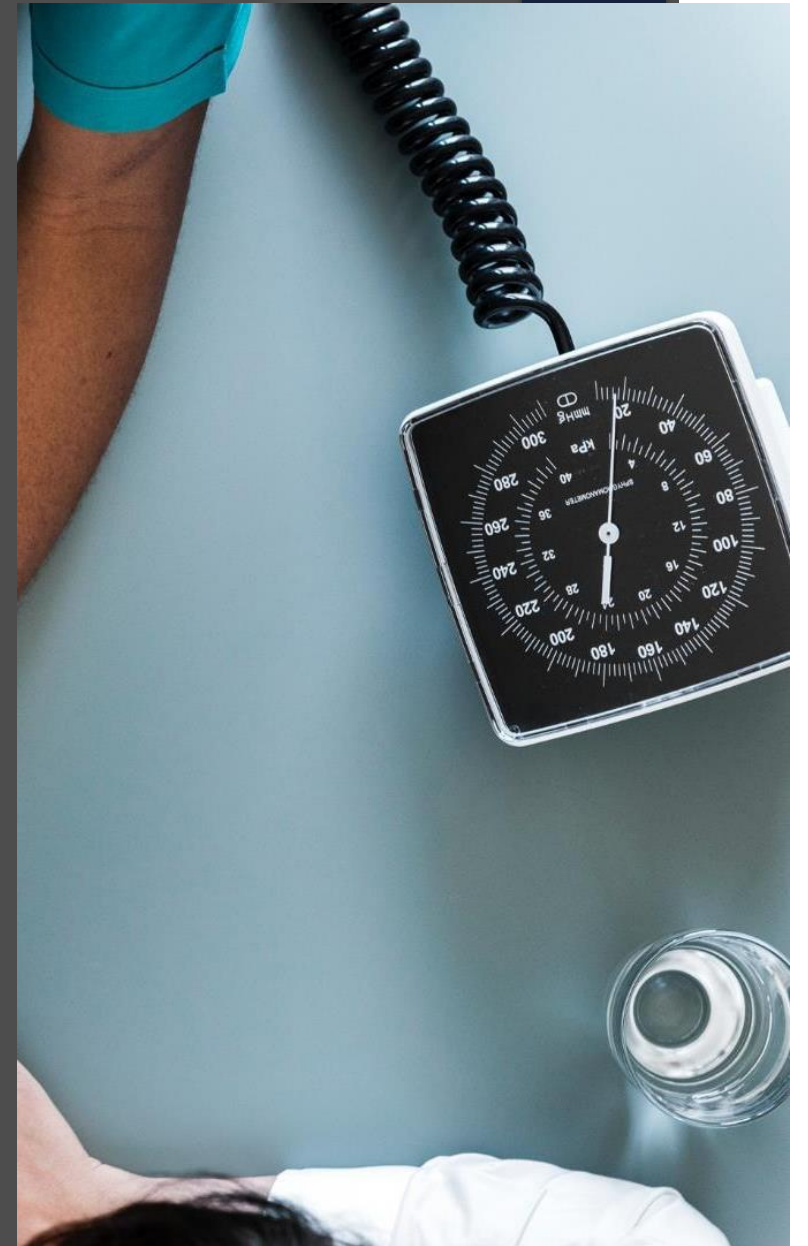
# Architectural Components



# Telemedicine

REMOTE CARE TO GO BEYOND THE PHYSICAL LIMITATIONS OF HOSPITALS

– RELEVANT AND MODERNIZED FORM OF VIRTUAL CARE DELIVERY



# Solution benefits



## For Patients

- Improved care reception
- Cost-effective healthcare
- Awareness & empowerment
- Personalized care & Engagement
- Care availability without boundaries



## For Providers

- Virtual care delivery
- Increased patient satisfaction
- Focused medical prevention
- Improved outcomes
- Population health management



## For Payers

- Transparency
- Cost-effective healthcare
- Claims reduction
- Social and community care at scale

# Capabilities Differentiation



AI BOTS PART OF OUR  
EXTENDED OFFERING  
TO SUPPORT BUSINESS  
PROCESSES  
AUTOMATION



REMOTE CARE DELIVERY  
THROUGH ALL-IN-ONE  
TELE-HEALTH AND  
CONNECTED CARE  
SYSTEM



CAPABILITY TO  
SECURELY INTER-LINK  
PHARMACIES, LABS,  
INSURANCE PROVIDERS  
AND OTHER ECO-  
SYSTEM PLAYERS



MAINTAIN LIBRARY OF  
SELECTED ARTICLES AND  
DISSEMINATE TAILORED  
INFORMATION TO  
PATIENTS



GROW NETWORK OF  
CARE GIVERS  
THROUGH SECURE  
HEALTH DATA  
SHARING



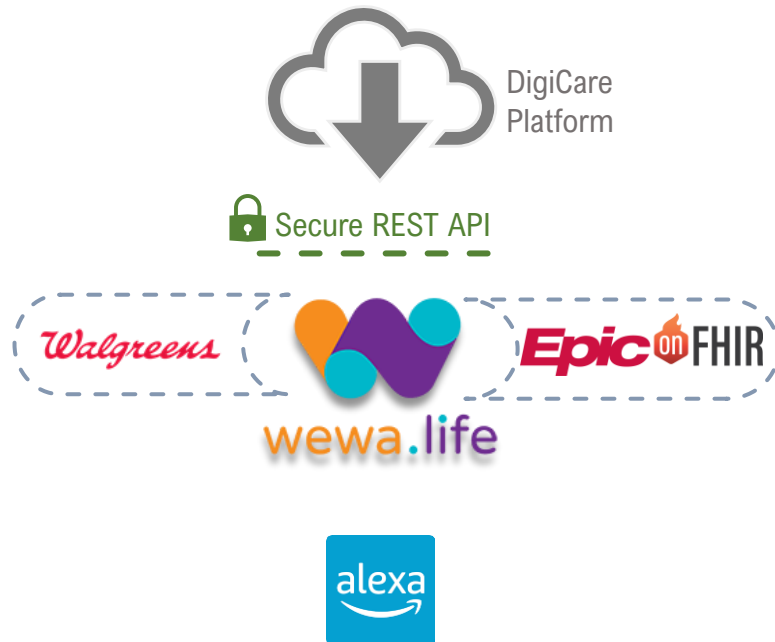
SECURELY  
INTEGRATED WITH  
LEADING DEVICE  
MAKERS AND EMR  
VIA FHIR (HL7)



# Case Studies



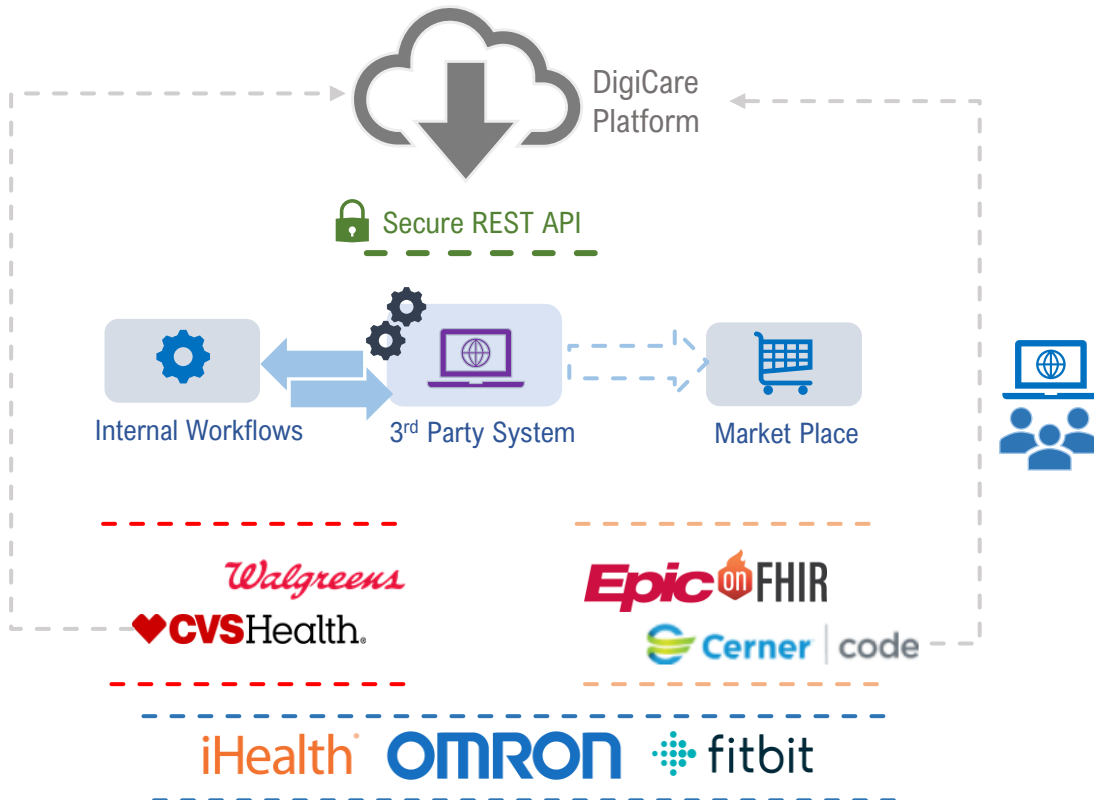
# #1: WeWa Life App



- ✓ WeWa.Life\* – A personal health navigator platform & app
- ✓ Medication Adherence, Education and Elderly Care
- ✓ Enabled for Alexa Skills
- ✓ Incorporated Walgreens Refill and Transfer API
- ✓ Integrated with Epic FHIR (STU3 specifications)

\* Runner up of AHRQ 2020 challenge - <https://www.ahrq.gov/mcctransitions-challenge/about.html>

# #2: Connected Care Continuum



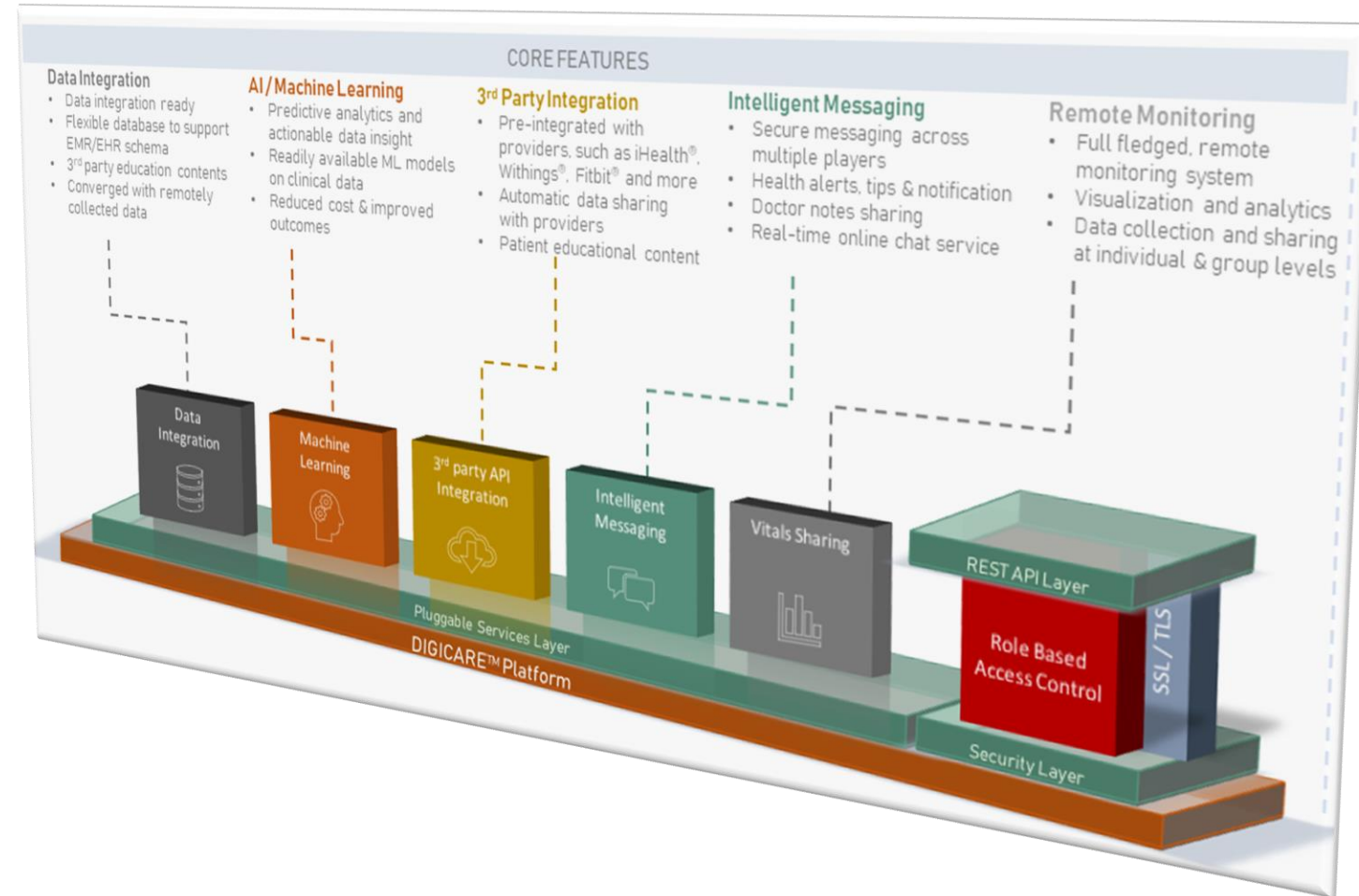
- ✓ A Typical scenario showing fully connected and secure care continuum
- ✓ Eco-system layers connected via secure OAuth2 / OpenID Connect
- ✓ Automation to achieve higher quality of customer care and improved outcomes
- ✓ AI driven chatbot to support customer service and care delivery

# Digital Health Products



# DigiCare Platform

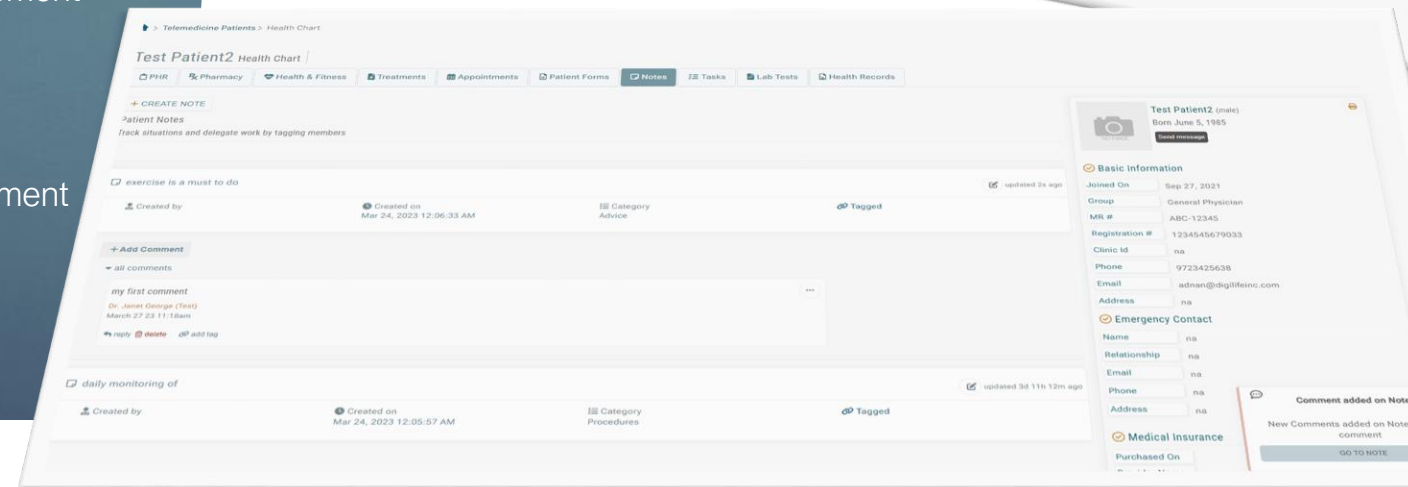
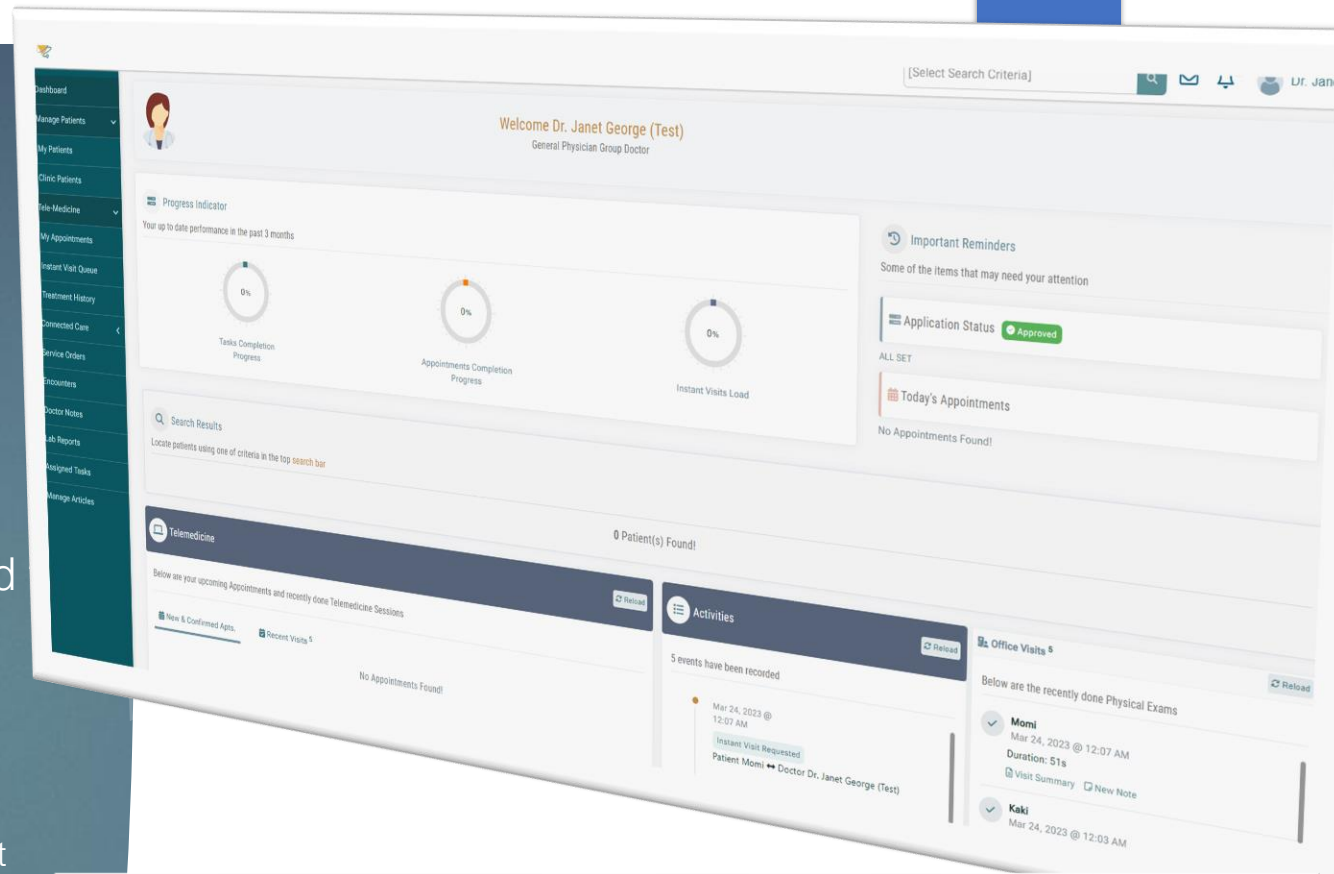
- ▶ A secure, modern, connected-care platform built with a vision to create flexible healthcare use cases for patients and providers.
- ▶ Offers flexibility for quickly pivoting and developing integrated apps for the health eco-system players.
- ▶ Availability of Health API for OEM to perform B2B Integration.
- ▶ HIPPA Compliant.



# DigiCare EHR

## Salient Features

- ✓ An EHR and a Practice Management product for Clinics, Doctors, Nurses Practitioners, and Lab Admins.
- ✓ A comprehensive solution including (but not limited to)
  - ✓ Patient/Doctor Portals
  - ✓ Patient Records and Health Charts
  - ✓ Patient Engagement via Smart Alerts, Feedback loops
  - ✓ Doctor Notes, Appointments and Prescriptions management
  - ✓ Staff Productivity and Patient Cases management
  - ✓ Physical and Virtual visits
  - ✓ Customizable Forms and Educational material management
  - ✓ Reminders and Secure Messaging
  - ✓ Payment Processing and Finance module
  - ✓ Reports and Statistics





# DigiCare EHR

## Salient Features

- ✓ Interoperable with several integration points:
  - ✓ Messaging platforms - WhatsApp and Slack
  - ✓ Payment gateways – Strip, Gpay and Abhipay (local gateway)
  - ✓ Pharmacies & Labs – Email or API (where supported)
  - ✓ FHIR (STU3) - Epic, Cerner\*
  - ✓ Benefits verification – Truepill\*
  - ✓ Claims management – Pega\* or similar
- ✓ HIPPA compliant cloud-based or on-prem offerings.

\* Future targets

The image displays the DigiCare EHR interface, showing a dashboard for system administrators and a detailed patient health chart.

**Admin Dashboard:** The top navigation bar includes "Dashboard", "Administration", "User Management", "Businesses", "B2B Customers", "Laboratories", "Pharmacies", "Payers", "Health Records", "Allergies", "Medications", "Surgical Procedures", "Conditions", "Family History", and "Document Templates". The main content area features sections for "Customers" (Manage your corporate (B2B) customers to create personalized experience), "Labs" (Manage third party laboratories that work as your value-add partners), and "Pharmacies". A "Statistics" section shows "Customers - Total members 0".

**Patient Health Chart:** The chart is for "Test Patient1" and includes tabs for PHR, Pharmacy, Health & Fitness, Treatments, Appointments, Patient Forms, Notes, Tasks, Lab Tests, and Health Records. It displays "AVAILABLE FORMS" and "Patient Forms". A specific form is shown: "Instant Pre-telemedicine session questionnaire" for "Test Patient1" on "Feb 15, 2023 9:00:53 PM". The form includes fields for "Name" (Instant Pre-telemedicine session questionnaire), "# of cols." (3), "Doctor" (Dr. Janet George (Test)), "Doctorid" (janet.george@mailinator.com), and "Vitals".

**Notes Section:** The "Notes" section shows "My Patients Notes" for "Test Patient1" with a search for "lower back" (Ex. painful arm [red eyes]). A table lists patient notes:

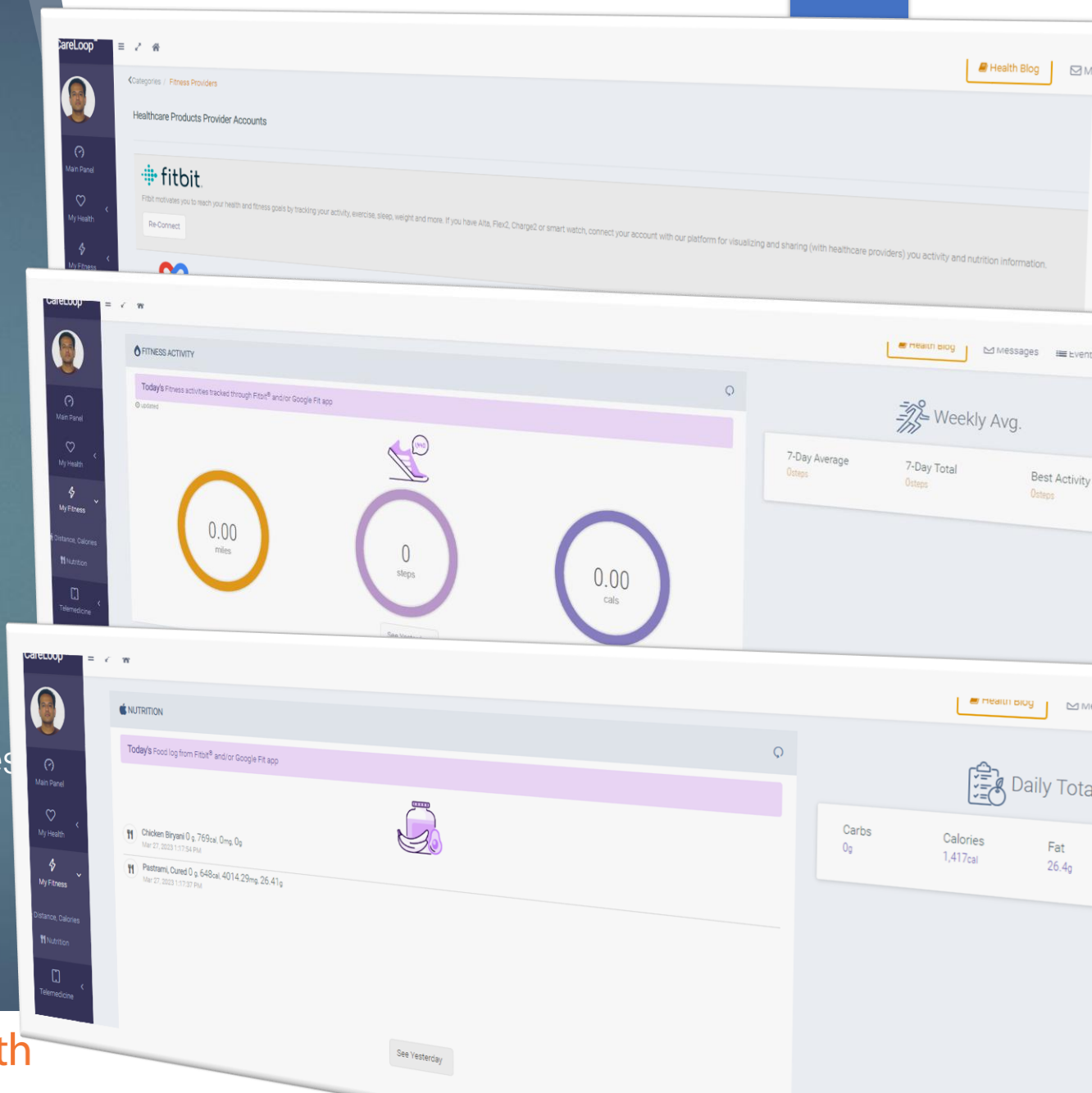
Patient Name	Patient Id	MRN #	View/Edit Notes
Test Patient2	patient2@mailinator.com	ABC-12345	See notes
Test Patient1	patient1@mailinator.com		See notes

# CareLoop

## Salient Features

- ✓ Enabler for integrating 3<sup>rd</sup> party businesses with multiple health platforms and apps, such as:
  - ✓ Google Fit, Fitbit
  - ✓ Apple HealthKit\*
  - ✓ Withings, Omron and iHealth
- ✓ API based integration to business offering connected care solutions to their users.
- ✓ Secure, reliable and easily pluggable, supporting REST, TLS v1.3, OAuth2 and relevant technologies
- ✓ Maintains integrated view from multiple sources (devices), such as, Fitbit, Xiaomi (Mi), etc.

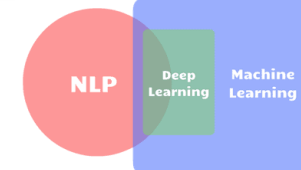
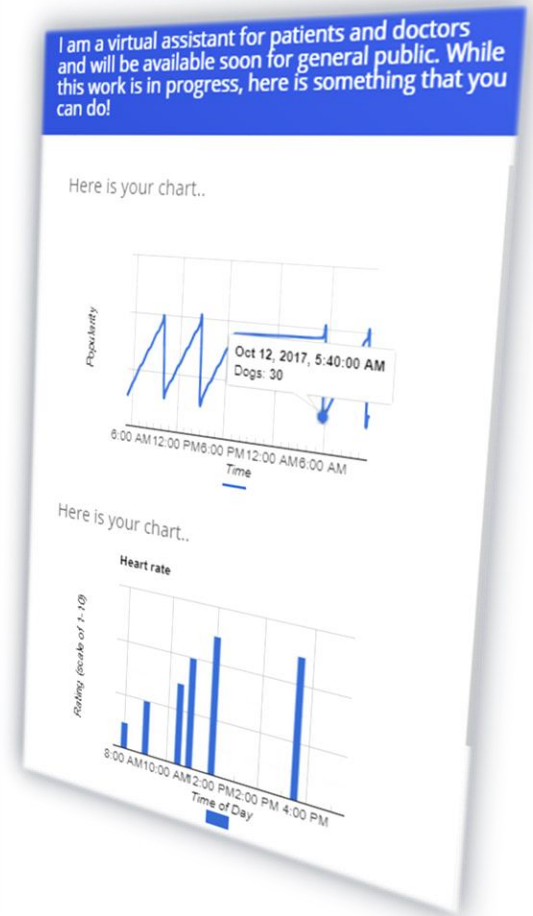
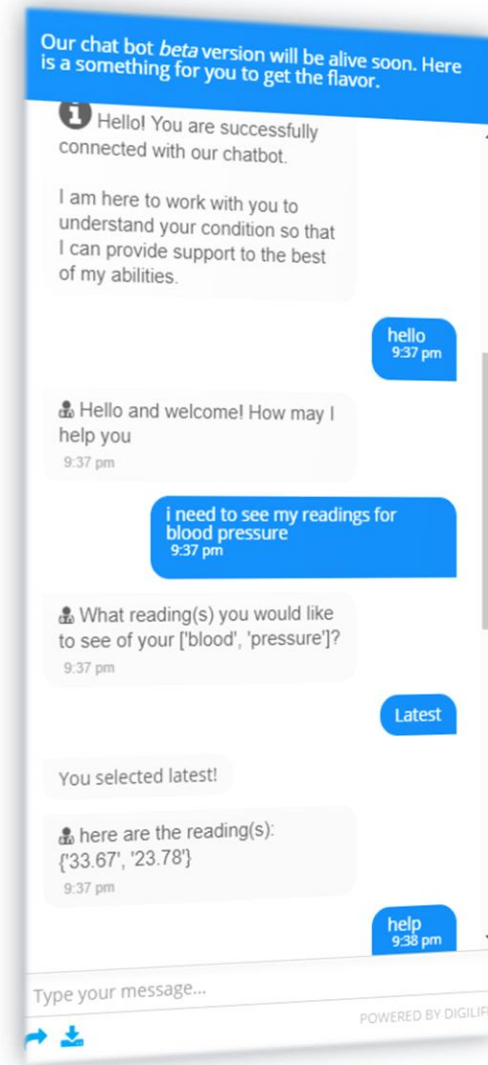
\* Future target





# AI / ML Chatbot

- ✓ Create on-the-fly charts from EHR records
- ✓ Robotic Process Automation (RPA)
- ✓ Customized Dialog Flow to fit your organizational workflows

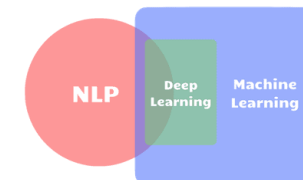
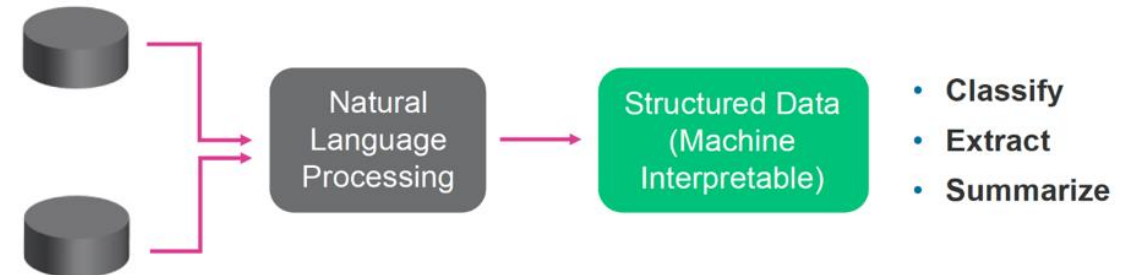


# AI / ML

## Clinical Documentation (Concept stage)

- ✓ NLP can help in transforming raw data into meaningful insights to improve healthcare outcomes.
- ✓ NLP classifies, extracts, and summarizes unstructured text. Processes unstructured data from different sources (EMRs, literature, etc.) for analytics systems.
- ✓ Some example are patient report status, past and present medical history, symptoms, and diagnoses.

### Electronic Medical Records



A person in a dark suit and light-colored tie is pointing their right index finger at a white medical cross icon on a screen. The background is dark and slightly blurred, showing a smartphone on the left and a blue vertical bar on the top right.

# Virtual Clinics

1. Virtual visits is a new norm. Safe and Sustainable.
2. Speedy, Effective and Hassle-free.
3. Integrated EHR, patient engagement, improved chronic care management

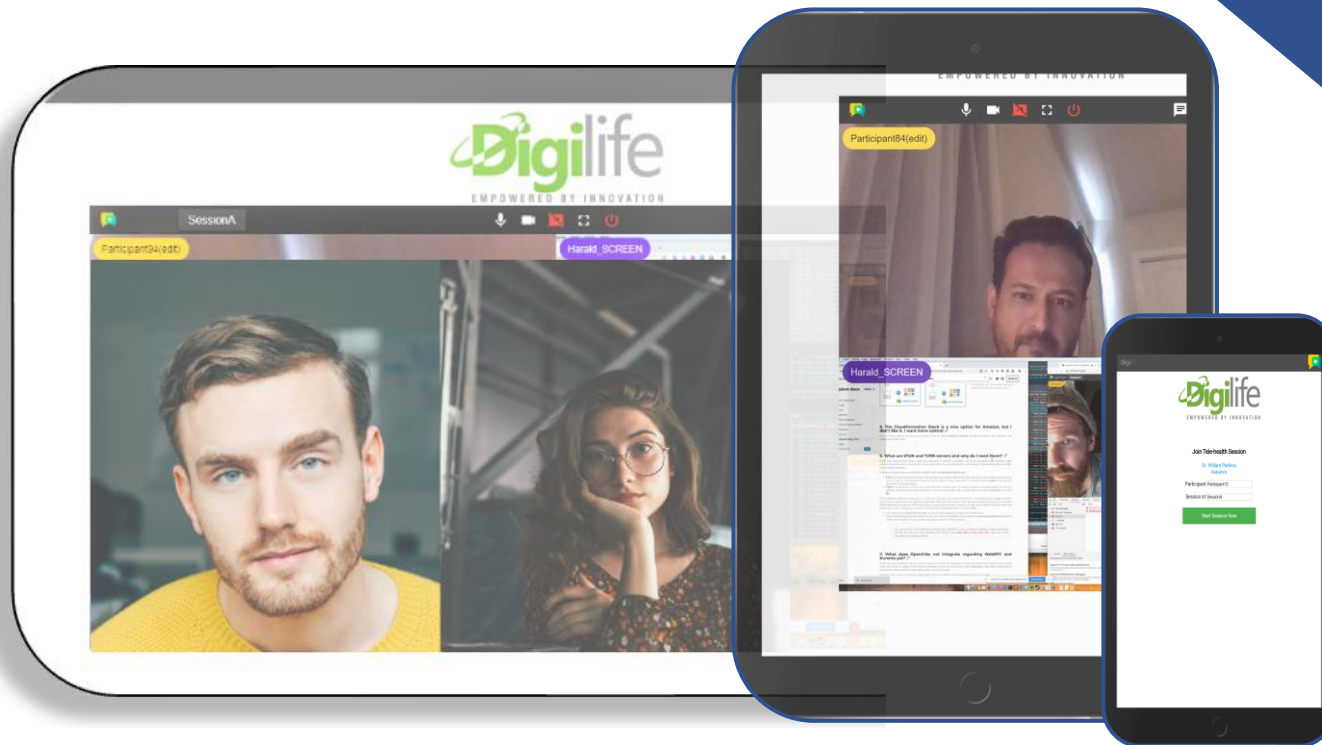
# DigiCare Live

Receive care for common illnesses and chronic diseases, schedule your annual wellness check-up, or even get a prescription refill.

Patients

Treat patients safely while limiting the risk of getting exposed to diseases like COVID-19. Effective way to perform regular checkups, post-acute and chronic care.

Providers





# Thank You

DigiLife

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