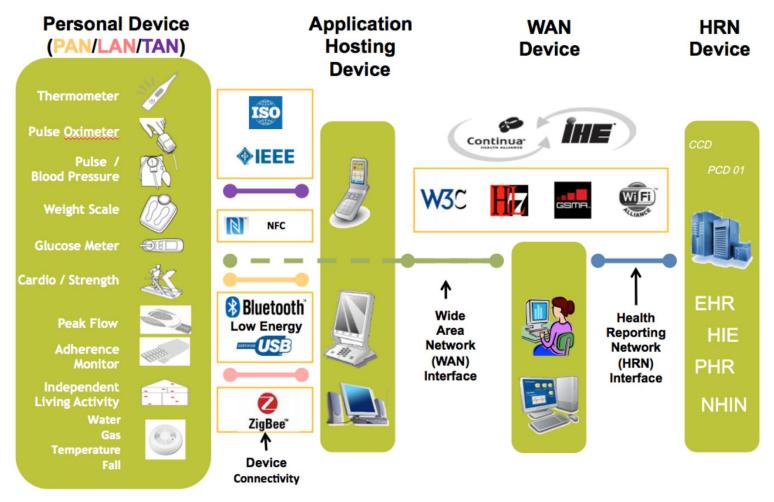
Personalised, remote patient health management

Ananda Sen Gupta
Founder & CEO
Trackmybeat Healthcare



Architecture of IoT for Health

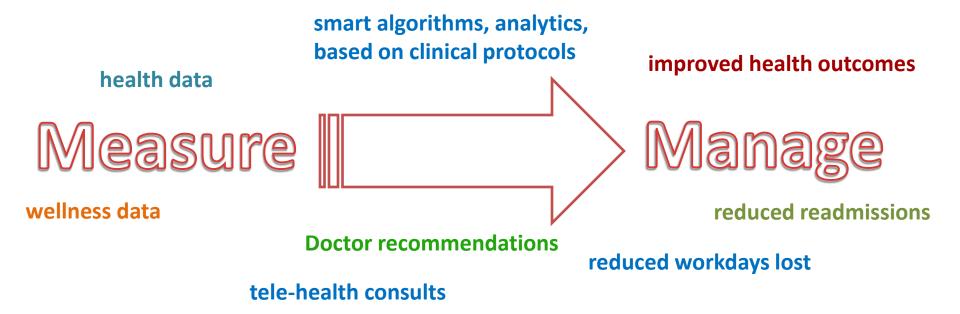


[Source: ITU-T Technical Paper HSTP-H810, July 2014]

Healthcare IT is about *Healthcare*!

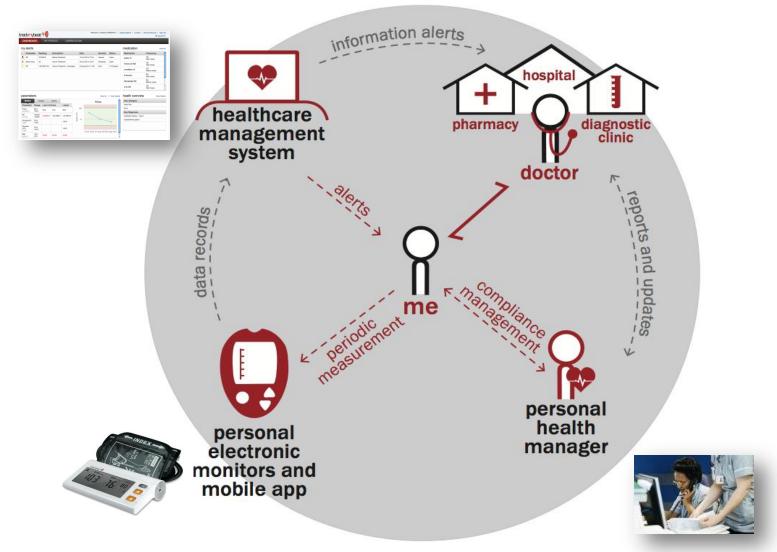
- The largest challenge is that doctors are averse to the use of technology
 - Doctors do not want to spend time learning to use information technology, unclear about Rol
 - Patients want to look for compassion in the Doctor's eyes and not see him typing into the system
- The focus needs to be firmly on improving patient health outcomes!

Bridging the gap



new, scalable and secure care model

Patient-centric Service Model



A structured approach

Harness the expertise of Doctors

- Comprehensive Care Plan
- Personalized, digital health management plan
- Create once, use many times

Health outcome Analysis - Correlation

- Enables Tele-health consult / Telecounseling
- Engage with patient adjust plan

Data available for viewing by Doctor's office - Remote Monitor

- Remote monitoring wireless devices
- Tracking of medical parameters
- Drive Patient compliance

Solution has to save costs and increase revenues for care providers

Quick feedback to patients & caregivers, for action – Alert/Reminder

- Personalized health alerts in case of protocol violation
- Reminders for plan compliance

Template driven Care Plan

Personal Information

Name: Haley Patrick Age: 27

Gender:Female

Contact No. +1-6654582680

Key Diagnosis:

Doctor Information

Name: Alex Parish (Registration No. AST002401)

Contact No.: +1 7191899191

Created through a standard template

Medical parameters to be monitored

Parameter Frequency		Next date	Comments	
BP	1 per day	12-Mar-2016	Test BP	
Pulse	1 per week	16-Mar-2016	Test Pulse	
HbA1c	1 per week	24-Mar-2016	Test Blood Sugar	

Other Investigations

Investigation	Investigation Frequency		Comments	
Pathology	1 per day	12-Mar-2016	R & M test	
Cardiology tests	1 per day	14-Mar-2016	Echocardiogram	

Doctor Interaction

Doctor's name Kind of review		Date of review	Instructions	
John Legend	Alternative medicine	12-Mar-2016	Alternate Meds	
Adam Hash	Endocrinology	20-Apr-2016	For Hypothalamic disorders	
Henier Green	General Physician	12-Mar-2016	General Health Check Up	

Care Manager Interaction

Care Manager's name	Kind of review	Date of review	Instructions	
Ross Gellar	Home sugars reviewed	12-Mar-2016	Review home sugar	
Ross Gellar	Lipid control reviewed, ordered if due	23-Mar-2016	Control lipid	

Lifestyle parameters

Parameter	Target / Unit	Frequency	Instru	ctic
Alcohol Intake	1.0 unit	2 per day	Limit Alcohol intake	
Waist Hip Ratio (WHR)	0.75 ratio	1 per week	Check Waist to Hip r	

Activity parameters

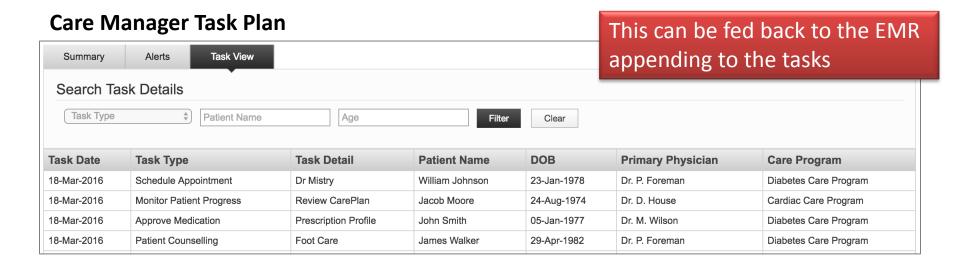
Parameter		Target / Unit	Frequency	Instru	
	Cycling	5.0 km	1 per day		
	Joaqing/Running	3.0 km	1 per day		

Medicine details

Medicine	Strength	Frequency	Instructions	Brand	Start Date	End Date
Brufane	500	OD	After meals	ntial	12-Mar-2016	04-Mar-2024
Calcium Sandoz	500	OD	After meals	IItiai	17-Mar-2016	15-Mar-2017

This can be stand alone or received from EMR, and appended to

Leads to Action Plans



Patient's Daily Plan

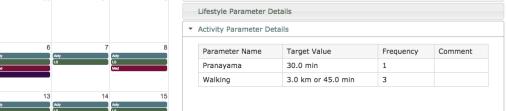
Key Diagnosis

Allergies

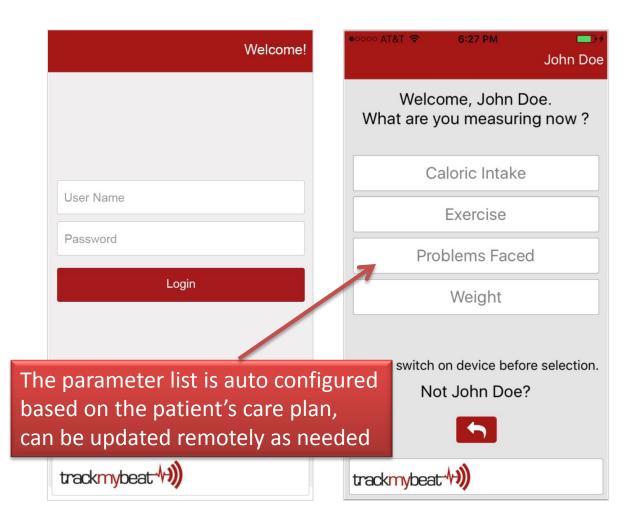
Patient receives daily reminder set as per the plan. This can be by text, email or in App messages

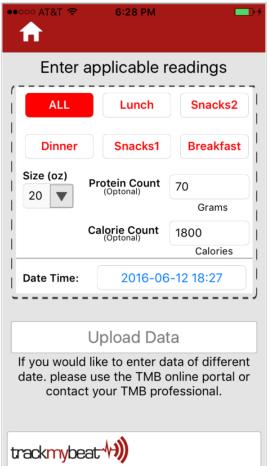
Sun Mon Tue Wed Thu Fri Sat Other Investigations

Other Investigations



Patient data captured in App





Patient data captured from devices

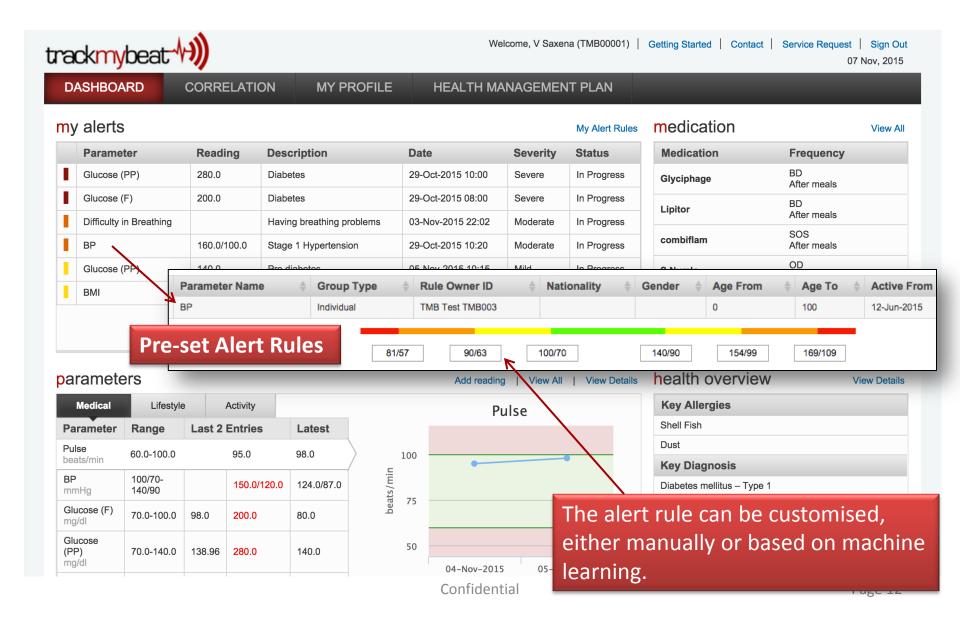


Solution is pre-integrated, and can be connected to any device.

Health Monitoring

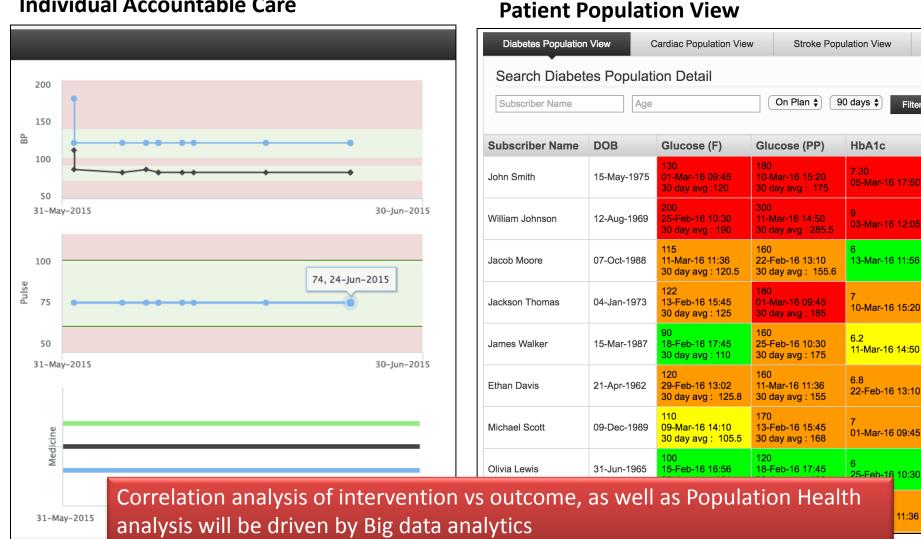
- Data can be captured from
 - EMR's (integration required in back end)
 - Connected devices, wearables (wireless interface)
 - Activity information (direct data entry or web interface)
- Specific parameters will be tracked over time based on the Health Management Plan
- All activity and communication with patients is safe and secure, with standards that support a HIPAA compliant medical practice.
- We only use industry-standard datacenter security practices, and technical protocols, including SSL and HTTPS encryption. Thus we help mitigate the risk that texting patients or using insecure third-party apps.

Monitoring as per Plan



Impact analysis of Plan

Individual Accountable Care

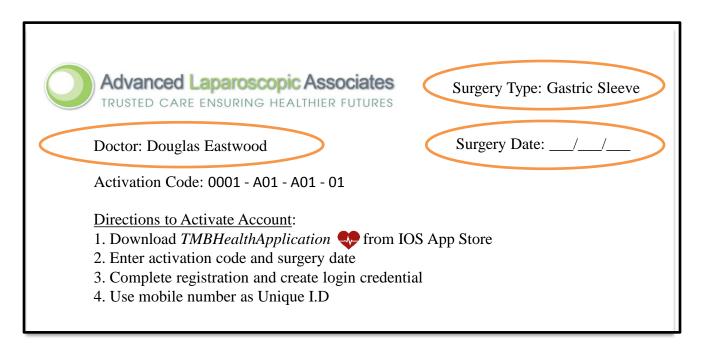


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Filter

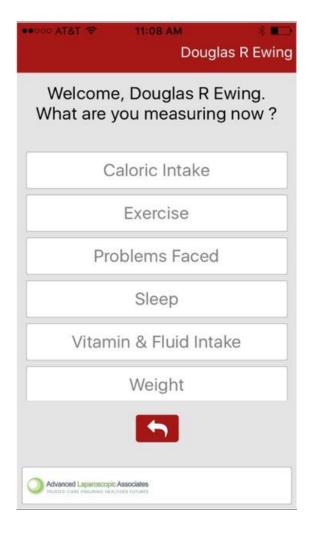
US deployment - compliance

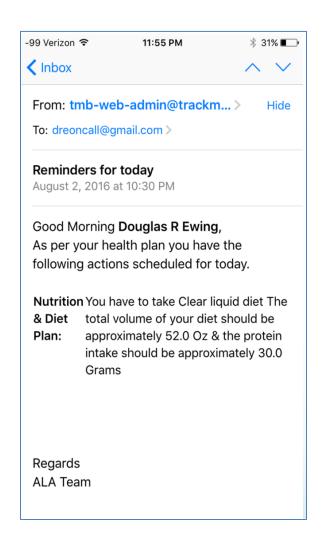
Activation card given to patients in perioperative period



- Based on activation code, Health Plan is auto-generated
- Mobile App gets configured with applicable parameters
- Patient calendar gets auto generated with reminder system

Monitoring and Reminders



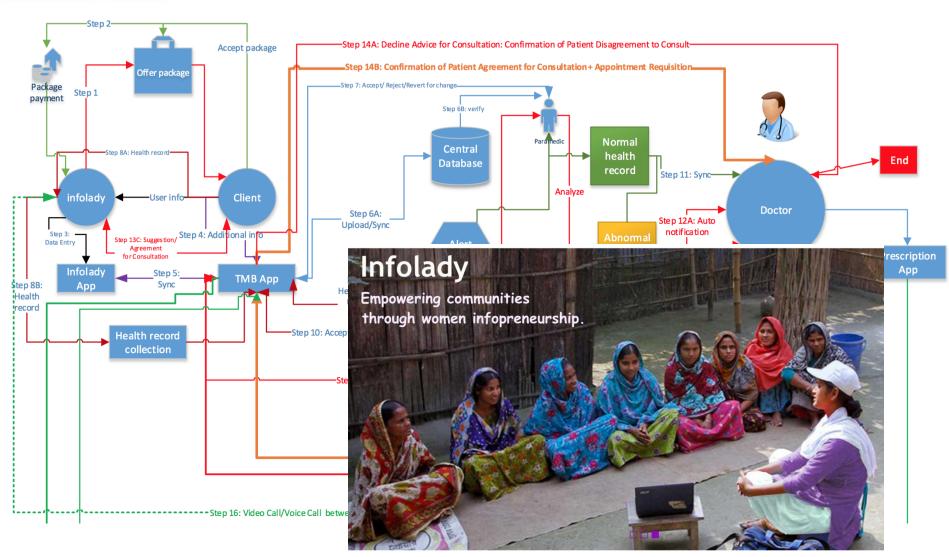


 Based on information from monitoring, and expected outcomes, doctor offers advice, and adjusts Health Plan



Rural Health deployment

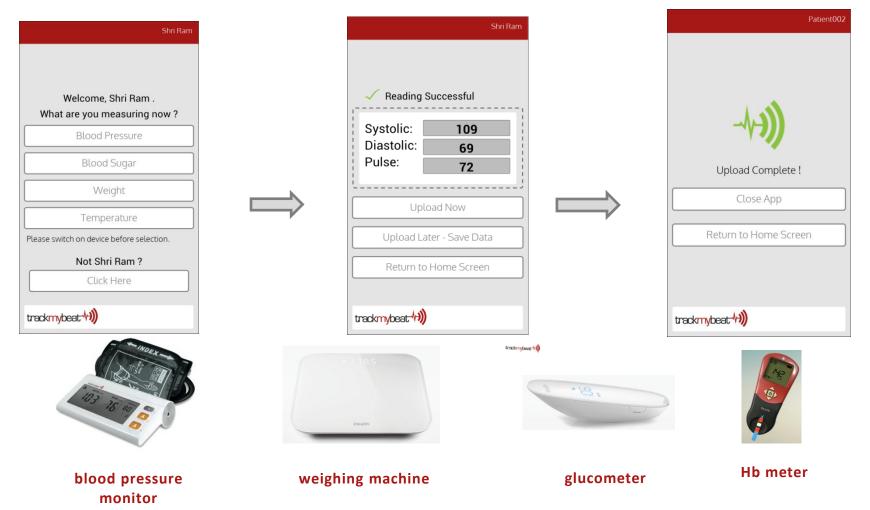
Flowchart of Dnet-Infolady-Lifechord-Track My Beat Telemedicine Service



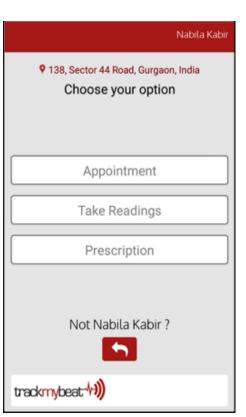
Rural Health worker function

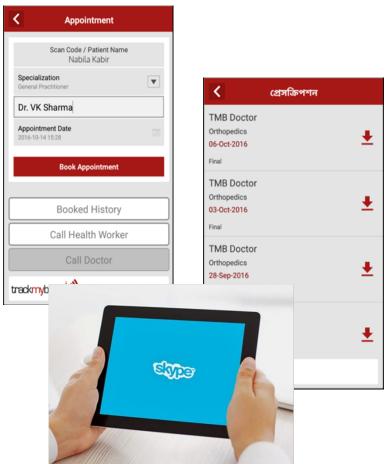
- Local Health worker offers following services:
 - Registers patient
 - Takes health readings with connected devices
 - Organizes diagnostic tests and captures data
 - Makes appointment with remote doctor
 - Organizes Skype call
 - Prints prescription
 - Dispenses medication

Connected device readings



Telehealth with remote prescription - Health worker Mobile App







THANK YOU

Contact: ananda.sengupta@trackmybeat.com

Meet the team

A company built on strong ethics and deep expertise in technology and healthcare

We have watched for many years the apathy of the medical system and the clear lack of incentives to keep people healthy, and our loved ones being affected by that.

With many years in the communications and health industry, we have now devised a better way to track and communicate healthcare information - so that any medical professional, health worker or caregiver can take action to help people achieve health and wellness. The approach supplements doctor care, and scales easily.



Ananda Sen Gupta
CEO & Founder

- + 20 years in communications technology, health IT
- + Start-up experience: executive team of DTI, acquired by Agilent
- + Executive roles in multiple organizations

Agilent Technologies







1

<u>Dr. Vishwakirti Sharma</u> <u>Co-founder</u>

- + Clinical program management and product development
- + Experience at large healthcare practices in India



Confidential



Charles (Chuck) Parker
Business Development Lead

- + Former Executive Director of Continua Health Alliance.
- + 25 years experience in healthcare technology, policy, regulation, strategic design of evaluation and measurement strategies.
- + Led national programs for practice transformation.





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Meet the Advisors



<u>Dr. George Smoot</u> Chief Scientific Advisor

- + Nobel Laureate in Physics 2006 + Advisor to the Union Minister,
- + Director, Paris Center for Cosmological Physics, University of Sorbonne Paris
- + Professor, Physics Department, University of California, Berkeley







Massachusetts Institute of Technology



Rajendra P Gupta Advisor

- + Advisor to the Union Minister
 Health & Family Welfare,
 Government of India
- + Board Member, International Society for Telemedicine & eHealth (ISfTeH)
- + Advisor, Vital Health (Mayo Clinic & Noaber Foundation Joint Venture)
- + Former Member, World Economic Forum's Global Agenda Council - Digital Health
- + Former Board Member , Care Continuum Alliance, USA







Biju Nair Board Member

- + CEO of HYLA Mobile, USA
- + A telecommunications industry leader
- + recognized entrepreneur with several start up creations and successful exits (Sapience acquired by Synchronoss, PCTel acquired by Smith Micro).











Dr. Atul Adya
Technology Advisor

- + Architect, large-scale distributed systems, Google.
- + Previously, Architect in Microsoft in the Windows Live Core division and Architect in the Data Programmability team of the SQL Server;



