

### Public Health Foundation of India (PHFI) Knowledge | Action | Impact | Equity

**Working Towards A Healthier India** 

Affordable Health Technologies Developed by PHFI: An Overview





#### MITH.AI

Mass Modular Integrated Transformational Health with Artificial Intelligence



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### **Box Inside & Outside**







Temperature controlled storage box ( for vaccines etc.) for maintaining 2-8degrees









Point of Care Technology: Wi-Fi -enabled integrated Primary healthcare delivery device that works with an android device



## Swasthya Sahayak



- Wi-Fi -enabled integrated Primary healthcare delivery device that works with an android device
- Equipped with various applications to provide all the required services and multiple diagnostic tests
- Intended for use by the frontline health workers in resource limited settings to facilitate their job without additionally burdening them
- Conforms to NDHB guidelines









## Tests Available on Swasthya Sahayak (SS)

- Blood Pressure
- Body Temperature
- Pulse oximetry
- Urine Protein
- Urine Sugar
- Blood Glucose
- Hemoglobin

- Malaria
- Pregnancy
- Hepatitis B
- Typhoid
- Dengue
- Syphilis
- HIV



#### How does SS address an unmet need?













- Mere availability of health facilities may not necessarily convert to improved utilization rates
- Poor availability & access leads to high OOP and ultimately poor outcomes

## Swasthya Sahayak Pro

- ECG (12 lead)
- HbA1c
- Lipid Profile
- Kidney Function Test
- Urine creatinine, micro albumin
- In addition to all tests in SS Basic



Specifically designed to focus on next level of care



## Swasthya Sahayak Deployments

- Impacted, more than 6500 villages
- Provided service to more than 10,00,000 beneficiaries
- More than 1100 happy users
- Conducted 1,50,000 tests



## Swashya Sahayak Journey-2014-2021

aur,Solan,Lahaul Spiti





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## Swashya Sahayak Training





## Accolades



Our Project being launched by Hon Union Minister for Women & Child Development **Ms. Smriti Irani** & Hon CM **Dr. Pramod Sawant** in Goa Feb 2020



Our Solution being presented to **Sh. Narendra Modi,** Hon. Prime Minister of India at Global Call to Action Meet, 2015





## **Digisahayam – An Assisted Telemedicine Solution**





# Digisahayam



Digisahayam is an initiative that aims to improve access to quality healthcare through bridge personnel trained in providing assisted tele-medicine solutions

Barriers in telemedicine today	Our Solution
Literacy, language or technological barriers among patients	Trained healthcare workers connect, convey findings, facilitate doctor-patient interactions and also prevent wasteful visits
Lack of good clinical history, physical examination findings and laboratory parameters for physicians	Trained healthcare workers collect history, perform physical examination and carry out lab investigations before initiating tele-consultation, thereby saving time and improving quality of care
Multiple innovations –no inter- operable system single platform	The PHFI telemedicine platform embeds electronic health records, PoC diagnostics, in-built e-CDSS & numerous state-of-the-art digital health technologies



Upscaling skills of health workers in providing assisted telemedicine







Improving quality of care through point of care diagnostics and electronic clinical decision support systems

Real time monitoring and feedback mechanisms that assure quality standards







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Improving access to primary and tertiary care through trained personnel

**Reducing the need of follow up visits** to health facilities



## **Digital Health Technologies**









**M-Power** 

Electronic Clinical Decision Support System



### Swasthya Sahayak

Point-of-Care Diagnostic Device



KardioScreen FDA approved Cloudbased 6-12 lead

portable ECG

**Eko Steth** Digital Stethoscope

#### Minnray

Paired remotely controlled HD camera

## **Designated Telemedicine Centre (TMC)**



- The TMC is run by a trained nurse and lab-technician that provide assisted telemedicine solutions under the supervision of a project quality assurance officer
- General physician, specialist as well as super-specialist tele-consultations are made available



## **On-foot Telemedicine Assistance**



Telemedicine Assistant – for small populations with less than 1000 or 1/1000 population

Backpack will contain:



## **Potential Impact**





Bridge the gaps between community, technology and digital healthcare through trained personnel

Continuity of care and longitudinal health data through use of inbuilt electronic health records





Create an innovative model for health service delivery that enhances sustainability, accessibility & affordability of care

Reduce **indirect healthcare costs** related to **travel** and **loss of daily wages** 





## **Thank You**