

RuralEdge

Digital Health, Education at the Rural Edge

 THE **LINUX** FOUNDATION

 **LF** EDGE

Treating the last “patient” on the digital lane

- › 850 Million in Rural India
- › 1 Doctor per 1497 person



- › 600K HealthCare workers
- › No Digital Aid
 - › Low Internet Bandwidth
 - › No Internet No Apps
- › Basic resources are not available

Educating the last “**student**” on the last mile: For all age and stage



Giving Edge to the last mile: Lean-Green-Smart Network

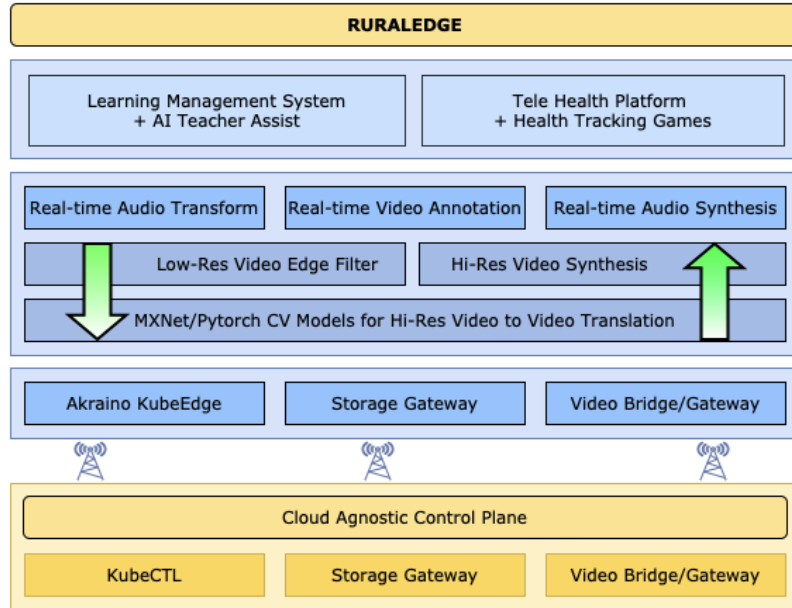


Proof of Concept
10 Tribal Villages
45 Km from nearest City
Partner : BSNL in remote zones



RuralEdge

BP Family: Tami COVID-19



Target Industry: HealthCare, Education in Rural/Remote areas

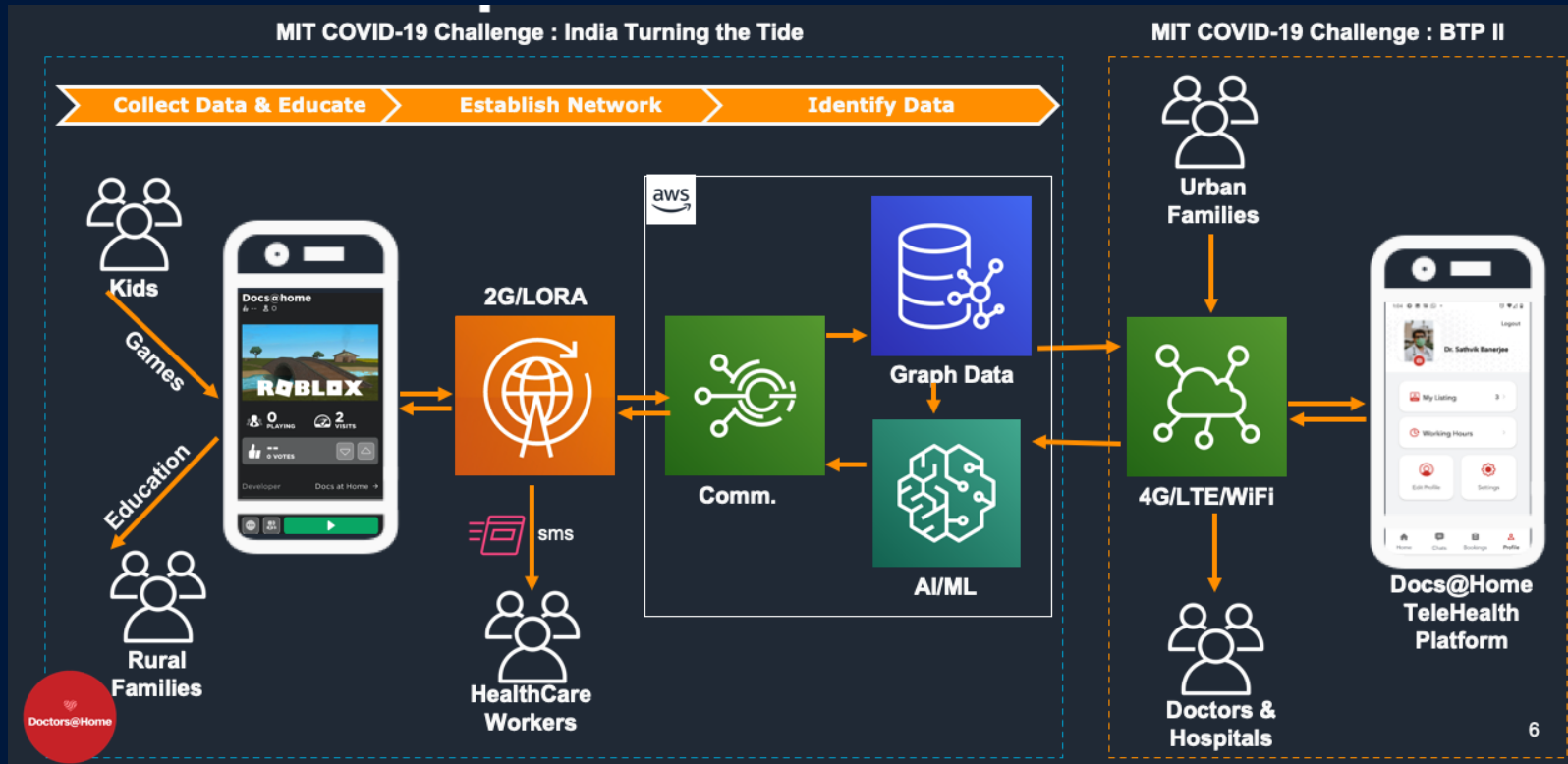
Purpose/Features:

- ML Audio/Video Enhancements using GAN
- Tele-Health, and LMS on the edge.
- Control plane on the cloud
- Media plane close to customer site such as MEC servers in telco central offices.

Use cases & Applications

- Video Processing : Enhance Engagement Quality, Augment Video with information, Create Virtual environment, Transcribe engagements
- Telehealth : Appointment Scheduling, Payment Processing, Electronic Health Records
- Gamification : Reinforce Corrective Behavior, Track Progress, Generate Trends
- Learning Management System : AI Teacher Assist, Early Progress Prediction

Docs@Home Solution Component



Validation and Engagement

MIT COVID-19 CHALLENGE
Presents **INDIA TURNING THE TIDE COVID-19**
August 28 - 30 | Virtual Event
Application deadline: August 26

Track E. Developing new ways to deliver care in a COVID-19 and post COVID-19 world

VaccinateIndia

- Problem:** How to facilitate safe delivery of vaccines to large populations of India during and post pandemic?
- Solution:** A digital platform for vaccine record-keeping, reminder, scheduling and inventory management

SIPPE

- Problem:** Frontline healthcare workers face a daily challenge to stay in the personal protective equipment (PPE) for a longer duration due to exhaustion caused by profuse sweating and discomfort.
- Solution:** An alteration/addition to the current personal protection equipment (PPE) used in the current pandemic of COVID-19 giving a physiological/physical push to the front line workers.

ASHA ki Kiran

- Problem:** Overworked community workers cannot deliver optimal healthcare in rural India.
- Solution:** Leveraging on-ground communication tech to optimize and enable community workers to deliver effective care through real-time patient monitoring and triage of health problems in rural India to reduce on-field burden.

Docs@Home

- Problem:** Patients without COVID-19 awareness is a big challenge for Pandemic management.
- Solution:** Connecting the evading rural COVID Patients to Healthcare Workers through education.

Our Team



solution components

MIT COVID-19 Challenge: India Turning The Tide

our unique team & our mentors

<p>Soami Daya Krishnananda</p> <p>Professor++ @ DEI Technologist, Tech Speaker</p>	<p>Surojit Banerjee++</p> <p>Solutions Architect @ AWS Data Scientist</p>	<p>Biswajit De</p> <p>Cloud Architect @ AT&T Network Specialist</p>	<p>Teesta Banerjee</p> <p>Director of Strategy @ Merck Doctor, Researcher</p>	<p>We Need You</p> <p>Legal, Full Stack, Game Developer.</p>
<p>Prof. Arnab De Alencar Falcão (Mentor) University Federal Aluminus</p>	<p>Ramesh Yoon (Mentor) Uber-Dev</p>	<p>Shiva Bhatt (Mentor) Stanford Partners</p>	<p>Edgar Yvelin (Mentor) Deloitte Consulting France</p>	<p>Vivek Dixit (Mentor) Charmex, IITB</p>
<p>Atul Shanker (Hack Team) City of Health</p>				



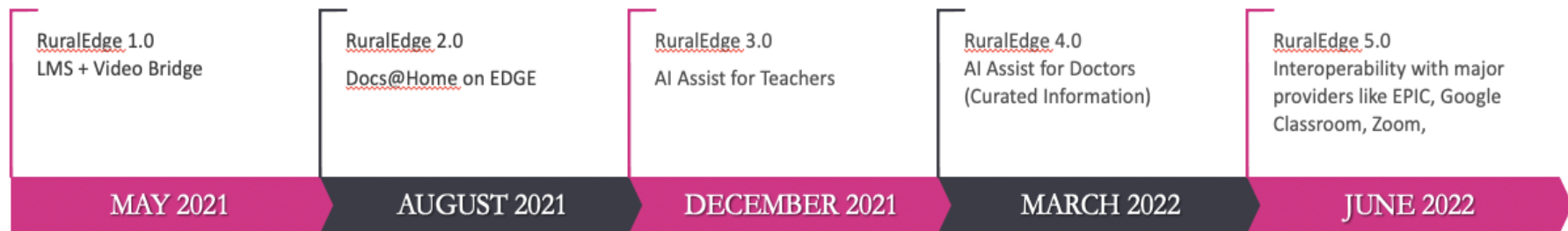
Dayalbagh
Educational
Institute

Smart
Gaon
Foundation

Journey so far



And Road ahead



Contact Us

DHS RuralEdge

11040 Bollinger Canyon Road E-864
San Ramon CA 94582
Phone/Fax: +1 903 600 0127

General Inquiries

edge@dhsinc.net

Development

RuralEdge-Dev@dhsinc.net

Sponsorship

sponsorships@dhsinc.net