



BRINGING CHANGE THROUGH TECHNOLOGY

eCAST TELEHEALTH TECHNOLOGICAL SOLUTION
Innovative Approach for Leveraging Telehealth Technologies to Create Opportunities for Female Doctors to Earn and Serve.



SOLUTION OF



EduCast
Bringing Change through Technology

SUPPORTED BY

IsDB 
البنك الإسلامي للتنمية
Islamic Development Bank

THE SOLUTION PROVIDER

TECHNOLOGICAL SOLUTION

eCAST - Revolutionizing Healthcare and Empowering Women through Digital Health.

SECTOR/THEMATIC

Digital Health - Telehealth & Online Medical Education Platform

TEC. PROVIDER

EDUCAST (PVT) LTD.

PROVIDER PROFILE

- Educast, leader in digital healthcare and medical education in IsDB member countries.
- Targets healthcare disparities in fragile and resource-limited environments.
- Leverages Digital & ICT to provide, affordable healthcare and medical education.
- Reintegrate out-of-practice female doctors into the healthcare workforce, empowering female doctors, enhancing healthcare delivery.
- Developed telehealth and online medical education platform to bridge healthcare divide.
- Facilitates remote consultations and online healthcare for professionals.
- Strengthens healthcare infrastructure in underserved areas through digital innovation.

SOLUTION OF



SUPPORTED BY



eCAST

TECHNOLOGICAL SOLUTION IN BRIEF



Building capacity through interactive live classes on medical education in conflict zones.



Re-engaging out-of-practice female doctors through online education/certification in Family Medicine.



Empowers doctors - by smartphones i become onlien virtual clinics by connecting with patients through Telehealth.



Include remote video consultations, access to global specialists, high-quality second opinions.

SOLUTION OF



SUPPORTED BY



CHALLENGE(S) ADDRESSED

Healthcare delivery in fragile countries faces challenges undermining quality of medical services.

Exacerbated by political instability, economic constraints, and often ongoing conflicts.

Six major challenges include:

1. Fragile countries lack the necessary healthcare infrastructure.
2. There is a significant shortage of trained healthcare workers, including doctors.
3. Insufficient training facilities and risks in conflict areas.
4. No supply of essential medicines and healthcare materials.
5. Limited government budgets, dependence on volatile foreign.
6. Widespread poverty in the population makes it challenging to fund healthcare services sustainably.

SOLUTION OF



SUPPORTED BY



THE SOLUTION

eCAST platform brings advancements leveraging telehealth medical education and facilities to provide access to affordable and quality healthcare services to rural or fragile areas where access to affordable healthcare is limited.

- Innovative internet aggregators ensures dependable telehealth communications across areas with poor internet.
- Out-of-practice female doctors getting trained and connecting through digital health.
- Telehealth doctors to offer commercial service to patients for financial empowerment.
- Remote diagnostics utilizing high-definition microscopes and handheld analyzers for onsite diagnoses without need for physical travel.
- Facilitating patient data information through Electronic Medical Record platform.
- Diagnostic and pathology rapid test kits improves management and care coordination

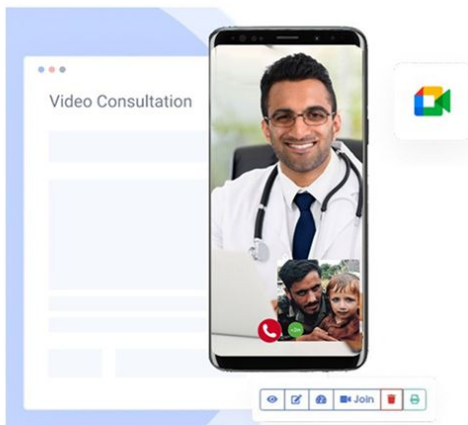


SOLUTION OF



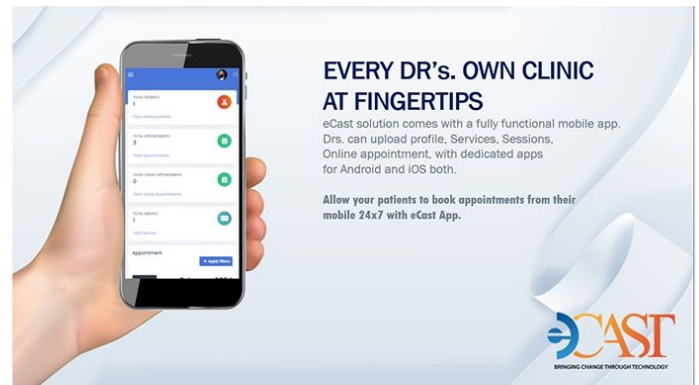
SUPPORTED BY





JOIN VIDEO CONSULTATION

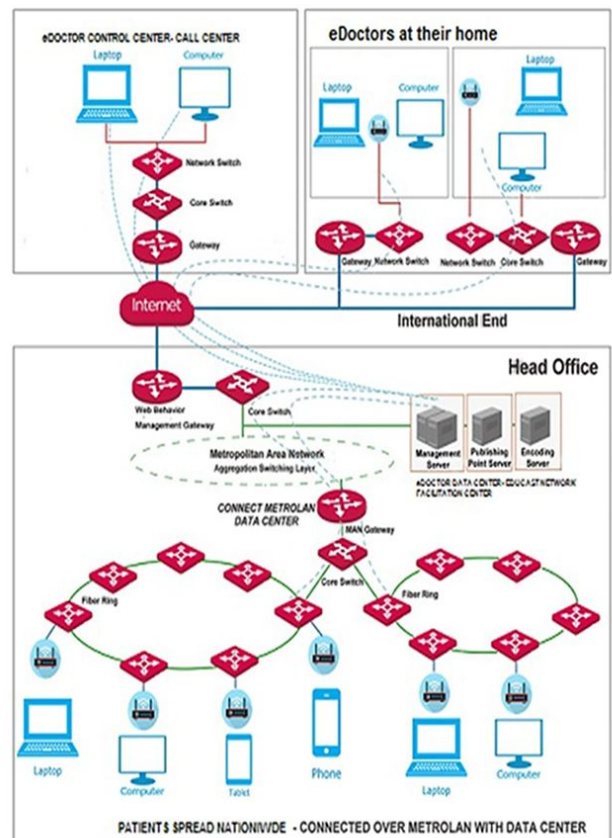
Allow Patients To Join Video Meetings Right From The Patient Portal.



EVERY DR.'S. OWN CLINIC AT FINGERTIPS

eCast solution comes with a fully functional mobile app. Drs. can upload profile, Services, Sessions, Online appointment, with dedicated apps for Android and iOS both.

Allow your patients to book appointments from their mobile 24x7 with eCast App.



SOLUTION OF



SUPPORTED BY



VALUE PROPOSITION

Offering resilient telehealth solution, tailor-made for fragile IsDB member countries, overcoming prevalent challenges as unstable internet, damaged infrastructure, electricity outages, low tech literacy, healthcare worker safety, and uncertain legal frameworks.

eCAST providing targeted training and robust operational model designed specifically for conflict-affected areas, ensuring reliable, effective, and secure healthcare delivery where it's needed most.

COST EFFECTIVE

- Utilization of open-source software and non-branded hardware:
- Low bandwidth design, reducing need of expensive internet:
- Incremental implementation, enable to expand on the go:

EASE OF DEPLOYMENT

- Independent modules
- Adapted to specific needs and contexts
- Simple deployment in diverse fragile environments
- Operates on minimal reliance on local infrastructure

SCALABILITY

- Enables easy scaling up or down based on cloud-based architecture
- Integrates with open source health information systems
- Adapting to specific requirements, modules can be added or removed as needed,

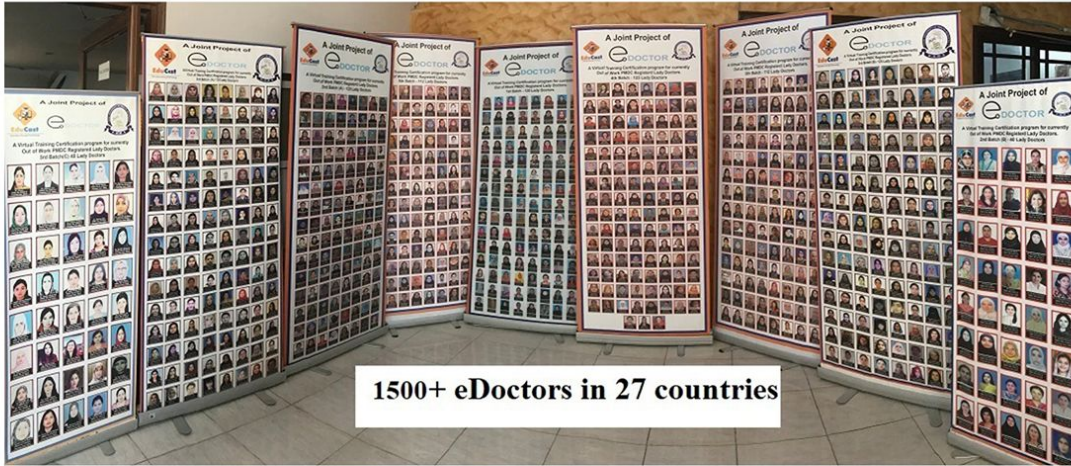
SOLUTION OF



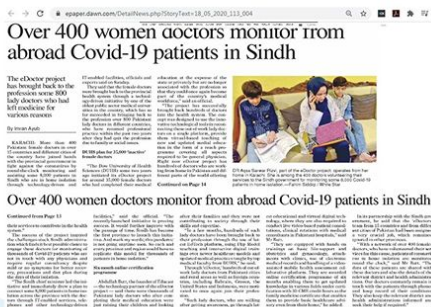
SUPPORTED BY



PAKISTAN



- Revitalize over 1500 Pakistani Female eDoctors (out of Practice) back in the field from 27 countries.
- 70% of these eDoctors are now running their commercial health care services.
- Each such doctor brings a loss of \$40,000 (by leaving professions).
- With IsDB support, these eDoctors brought USD 60 million to the national healthcare system.
- eDoctors saved 450,000 COVID-19 affected through home Telecare, impacting 2.0 million households.
- Now targeting currently 25,000 additional out practices female doctors.



YEMEN

- Delivering hope in war-torn areas In Yemen's conflict zones.
- Educast's deployment of the IsDB-supported eCAST platform has been a beacon of hope.
- Telecenters provided crucial online training to frontline workers and teleconsultations to vulnerable women and children.
- Delivering medical support and education to regions like Abyan, Hadarul Maut, and Aden.
- Creating Economic activities for eDoctors by getting paid.
- Yemeni Doctors get medical education and specialist support.
- Health Ministry - Health data in real-time.



SOLUTION OF



SUPPORTED BY



DAILY BUSINESS RECORDER-Karachi
WEDNESDAY 17TH FEBRUARY 2021

EDUCAST facilitates humanitarian efforts in war-torn areas of Yemen

RECORDED REPORT
KARACHI: Pakistan-based telehealth technology specialist organization EDUCAST, facilitates humanitarian efforts in war-torn regions of Yemen with inauguration of first ever Tele Center in that country.

A Pakistani Digital Health Technology platform EDUCAST after successfully implementing Maternal Child Telehealth service in Pakistan now moves in providing Telehealth services in war torn areas of Yemen where there is humanitarian crisis ongoing.

With mothers and babies amongst the most highly vulnerable in Yemen, one in 37 new-born babies die in the first month of life and one out of every 260 women dies in pregnancy or childbirth, according to a UNICEF.

EDUCAST with its collaborators aim to save lives through the use of technologies in healthcare, of thousands of pregnant women and infants in war inflicted zones of Maarib, Shugra, Zanjibar and Hadram Maarib with the help of female doctors based in Pakistan as well as from around the world.

The services, which have already benefited more than 200 people in just over a week, are available for free at the Maternal and Child Telecenter (MCT).

The MCT was established on January 27 by the EDUCAST Society, a non-profit organization of Pakistani doctors and health professionals. The South Government was fac-

ing challenges in getting female doctors for isolation monitoring.

EDUCAST went ahead and offered its volunteer platform to support govt efforts in tackling home isolation and contact tracing and monitoring drive.

Since April till date EDUCAST Covid-19 home isolation monitoring has handled a massive 150,000 plus Covid-19 positive patients successfully.

Looking at this innovative mode of handling the pandemic World's top Medical School Stanford University's Center for Medicine approached to help EDUCAST in training of the doctors. A six week online training was conducted by top faculty from Stanford on the latest guidelines from CDC (Centre for Disease Control, USA) and WHO which enabled all 450 eDoctors to be certified as Covid-19 Care givers.

Islamic Development Bank has played a major role in supporting and encouraging this EDUCAST effort by providing grant for establishment of Maternal and Child Mortality prevention initiative through eDoctors.

Thanks to IDB support, which became very vital, as Covid-19 hit Pakistan, IDB funded initiative of EDUCAST was already recertifying female doctors in large numbers. This was extremely helpful at the start of the Covid pandemic, when the South Government was fac-

ing challenges in getting female doctors for isolation monitoring.

EDUCAST through its Islamic Development Bank funded technology platform offered its support to establish a multipurpose telehealth centre in areas of Yemen affected by war to help needy people in health care services as well as training of the on ground front line female healthcare workers.

This Yemen 'maternal & fetal wellbeing' initiative is spear headed under the leadership of UK based MedRet Academy. MedRet Academy is presenting this project at the request of United Nations, WSIS (World Summit of Information Society) annual virtual conference 2021, at a high-profile sessions on use of technology in meeting today's health challenges specially in developing world.

At the facility operational Hub in Karachi, a coordinator who is fluent in Arabic and English connects the patients with a tele clinic in Yemen, where women doctors from across Pakistan and 15 other countries including Saudi Arabia, Oman, Qatar, Canada, and the UAE provide free online consultations and treatment.

"The facility is offering live tele consultation to women and children through remote Pakistani female doctors using high tech medical equipment," said Abdullah Butt, CEO of EDUCAST. He said this response has been "overwhelming".

ARAB NEWS

SAUDI ARABIA

- Home
- Pakistani-Saudi telehealth to launch maternity, childcare services in Yemen

Pakistani-Saudi telehealth to launch maternity, childcare services in Yemen



A female doctor provides e-consultancy services to patients in Pakistan from her home in Riyadh in this June 15, 2020 file photo. (Photo courtesy: Educast)

Short Url

<https://arab.news/mf9z3>

Updated 28 August 2020
KHURSHID AHMED
August 28, 202003:50



TECHNOLOGY FOR DEVELOPMENT (T4D) IN YEMEN

LAUNCHING

WOMEN & CHILD DIGITAL TELE CENTER



IN SHUQRA - ZHINJBAR - MAARIB




THROUGH ONLINE TECHNOLOGY PROVIDING



Maternal & Child Care



Midwife Training



English Language Classes



SOLUTION OF

SUPPORTED BY



PALESTINE

Supporting female doctors and families In Palestine, Educast leveraged the eCAST platform to offer online clinical support and capacity building to female doctors, enhancing medical care for women and children in Ramala and the West Bank. This initiative underscored the importance of medical education and interactive learning in improving healthcare delivery.

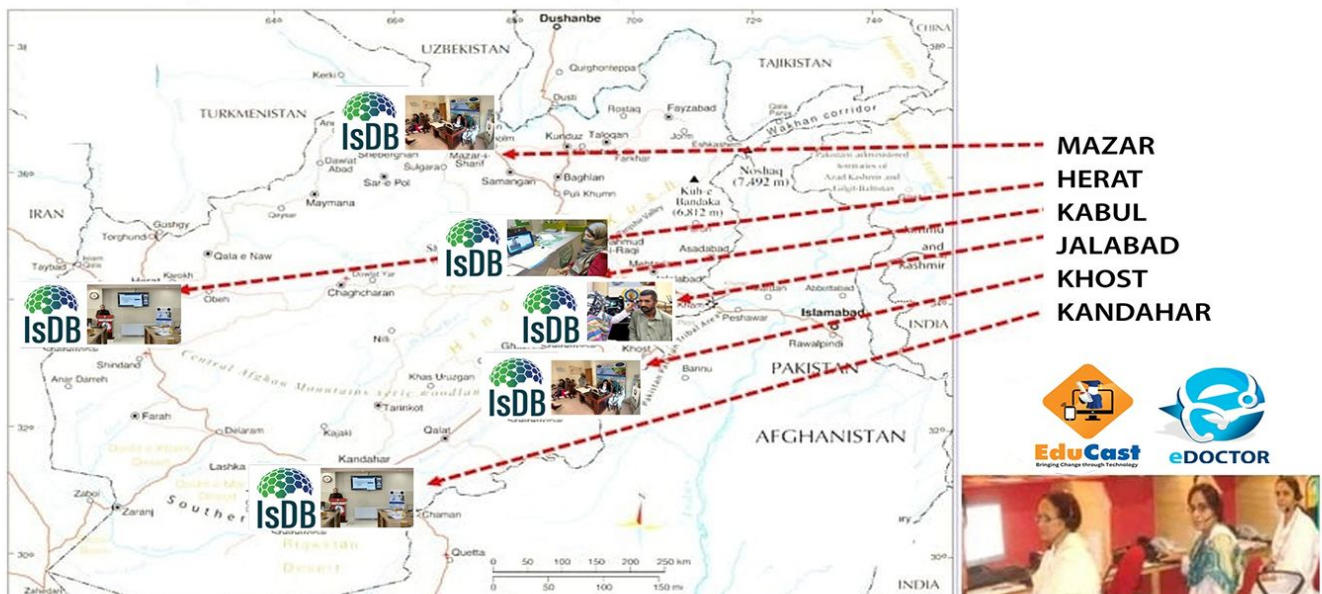


Palestine
Tele-Consultation
 A Joint Initiative By

Both Companies Are Funded By

AFGHANISTAN

- Afghanistan loses hundreds of millions of dollars every year due to treatment-related travel and boarding expenses by Afghan patients to neighboring countries.
- All due to shortage in capacities of Afghan doctors and very few specialists.
- With IsDB funding, Educast established Telehealth online education facilities in hospitals of Kabul, Khost, Khandar, Mazar, Jalalabad, and Zabul.
- Through the Lecturio platform (German Online Medical Education), provided training in Family Medicine to over 1,500 Afghan doctors (70% Female).
- Brought back Afghan female doctors and healthcare workers in services.
- Have provided second opinion services to hundreds of doctors.
- Created a level of satisfaction among Afghan healthcare providers.
- eCAST virtual clinic is being provided to every trained doctor, creating self-employment and financial stability.



AFGHANISTAN ONLINE MEDICAL EDUCATION, SPECIALIST SECOND OPINION AND AFGHAN DOCTORS KNOWLEDGE EXCHANGE PLATFORMS

SOLUTION OF

SUPPORTED BY





RESULTS/BENEFITS

IMPACT AND ADVANCEMENTS OF eCAST PLATFORM IN HEALTHCARE DELIVERY

- eCast has broadened healthcare reach in conflict-affected regions, providing services to tens of thousands annually.
- The re-engagement of hundreds of female doctors has been crucial.
- Trained doctors get their own eCAST online clinic for self-employment.
- Advanced diagnostic tools and comprehensive EMR systems have elevated healthcare quality, potentially reducing morbidity and mortality.
- Illustrative figures suggest, 500 re-engaged female doctors performing an average of 200 monthly consultations, eCAST could deliver 1.2 million annual consultations, enhancing healthcare accessibility, especially for vulnerable groups.

DEPLOYMENT REQUIREMENTS AT LOCATIONS

Steps to deploy eCAST in a conflict-affected country, focusing on out-of-practice female doctors in a teaching hospital:

1. Proposing eCAST to the relevant ministry:
2. Identifying needs from authorities,
3. Interact with relevant stakeholders.
4. Location selection:
5. Training on prevailing medical issues:
6. Platform setup and operations:
7. Monitoring and Evaluation:
8. Assessing on economic uplift.

SOLUTION OF



SUPPORTED BY



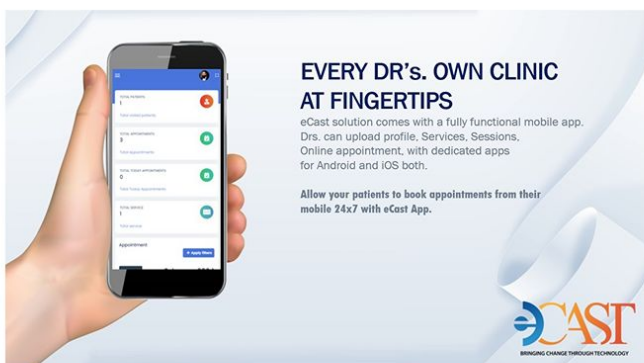
SUSTAINABILITY MEASURES

Following trainings and service to the eCAST offering ensures successful deployment and sustainability.

- Building capacity of healthcare providers through medical education and certification,
- Requirement of in-country stakeholders' consultations to conduct telehealth capacity needs assessment. Ensure that the health facilities/ hospitals are selected in consultation with the Government.
- Focusing on those operated from the annual budget allocation to the Ministries of Health.

FINANCIAL STABILITY TO HEALTHCARE PROVIDERS

- Deployment of eCAST virtual clinic on a smartphone for every trained doctor.
- Promoting online doctors in the community using digital marketing.
- Providing medical specialist opinion support to each eCAST clinic



SOLUTION OF



SUPPORTED BY



CONCLUSION REMARK

KEY CONTRIBUTIONS OF EDUCAST'S INTEGRATION INTO ISDB PROJECTS INCLUDE

- Transforming healthcare in IsDB member countries by improving accessibility and quality.
- Integrates IsDB projects to develop more resilient and sustainable healthcare systems.
- Using internet speed aggregation (bonding), remote video consultation, Bio-medical sensors, and rapid testing kits create an effective real-time care solution.
- Offers continuous medical education and access to a global network for second opinions.
- Equips local healthcare workers with up-to-date knowledge and tools for effective community health management.
- The Educast and IsDB partnership focuses on leveraging technology to improve healthcare outcomes and equity across member nations.



SOLUTION OF



SUPPORTED BY



PARTNERS

 IsDB البنك الإسلامي للتنمية Islamic Development Bank	 STANFORD SCHOOL OF MEDICINE Stanford University Medical Center	 lecturio	 coursera
 Dow Graduates Association of North America	 MedicalCity.online Healthcare over internet	 AGE Afghanistan Center for Excellence	 ICEM المجلس الإسلامي للتجارة الإلكترونية
 BFD Building Foundation for Development	 HUAWEI	 Tech4Life Enterprises	 eDOCTOR
 SZABIST	 DAWOOD UNIVERSITY OF ENGINEERING & TECHNOLOGY	 VU Virtual University	 NED University of Engineering & Technology
 International Islamic University	 SSK Business Incubation Center	 DOW UNIVERSITY of HEALTH SCIENCES	 SINDH BOARD OF TECHNICAL EDUCATION
 HANDS هيندز	 TALEEM FOUNDATION	 HEALTH DEPARTMENT GOVERNMENT OF SINDH	 KE



SOLUTION OF



SUPPORTED BY





 88-L, P.E.C.H.S, Block 2,
Khalid bin Waleed Road,
Karachi, Pakistan.

 +92300 8259933
 +9221-341 88888

 abutt@educast.co.uk
 www.educast.co.uk