



Universal Service Fund

"Every Pakistani has the right to modern telecommunication services and USF strive to provide that"

10th October 2018

www.usf.org.pk

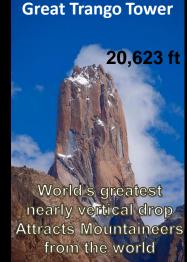


Pakistan at a Glance

- Worlds 6th Largest Nation- ~208 million population
- Has a total area of 796,095 Km²
- Diverse Geography
 - ✓ Has 8 of the top 20 tallest mountains in the world
 - ✓ More than 92,000 Km² of Deserts
 - ✓ 25,220 Km² of Water Area
- Tourist Heavens







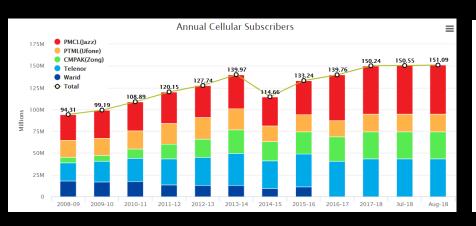


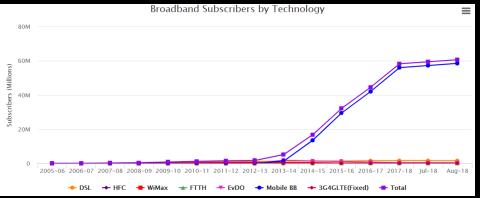




Telecommunication Canvas of Pakistan

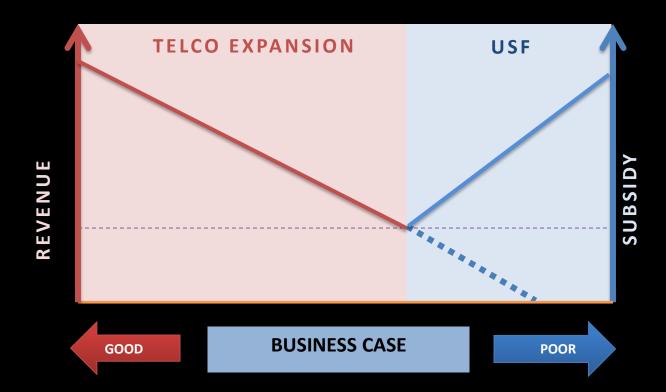






Bridging the Gap through USF Subsidy

- Despite massive growth many areas remain Unserved & Under Served
- USF Provides metro equivalent services in unserved & underserved areas



USF-SP COOPERATION

Challenges!

- Difficult Terrain
- Sparse Population
- Harsh Weathers
- No Electricity
- No Backhaul
- Poor Logistics
- Business Case



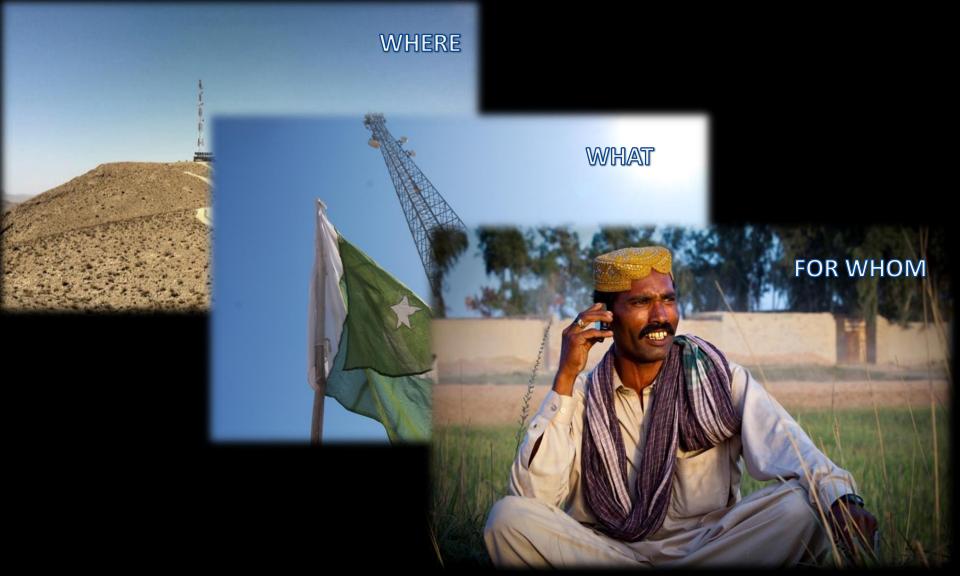
Solutions

- Extension in Implementation Time
- USF Service for Mauza with Population of 100 and above
- Mandatory Solar Power for all USF BTS Sites
- OFC Projects for Backhaul Provisioning
- CAPEX Subsidy up to 100% of Cost
- OPEX Subsidy for first 3 Years









USFCo BoD Framework

- Public-Private-Partnership rather than purely Public
- A Company with a fully authorized Board of Directors



PUBLIC

USF Co. Board of Directors

PRIVATE

Minister of IT

Federal Secretary IT

Member Telecom MoIT

Chairman PTA

CEO USF

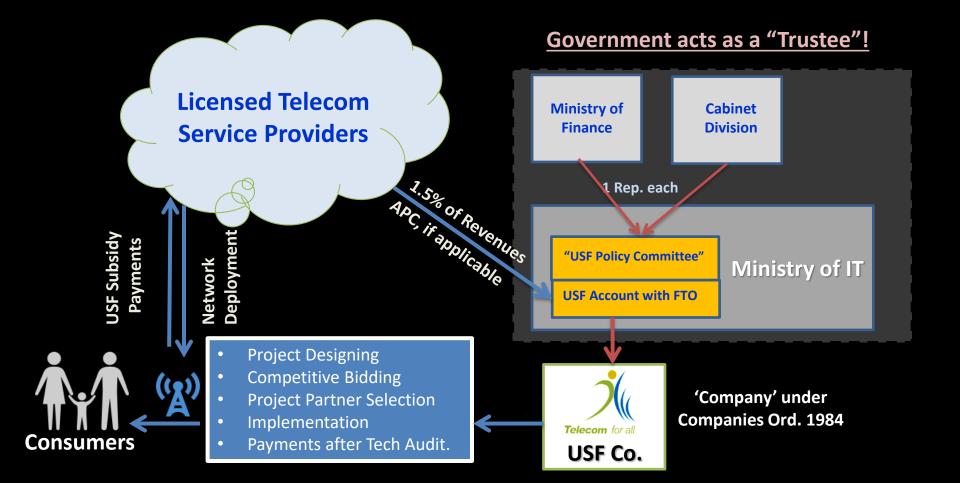
Nominee Cellular SPs

Nom. Fixed-Line SPs

Nominee ISPs

Nom. Consumer Groups

USF Fund in Pakistan





BSD/NG-BSD

Broadband for Sustainable Development

- Basic Telephony 2G/WLL
- Mobile Broadband through 3G / 4G

USF PROGRAMMES



Broadband

- Fixed Broadband
- Primarily through DSL,EVDO & WiMAX



Optic Fiber

Extension of Fiber Optic Connectivity to unserved areas



Digital Inclusion

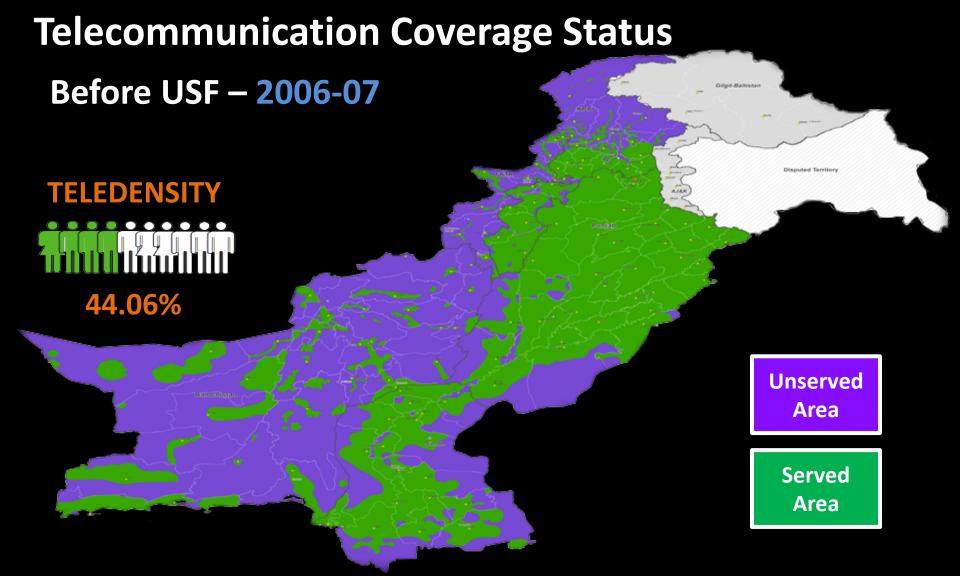
to extend the benefits of modern technologies to the marginalized sections of the society

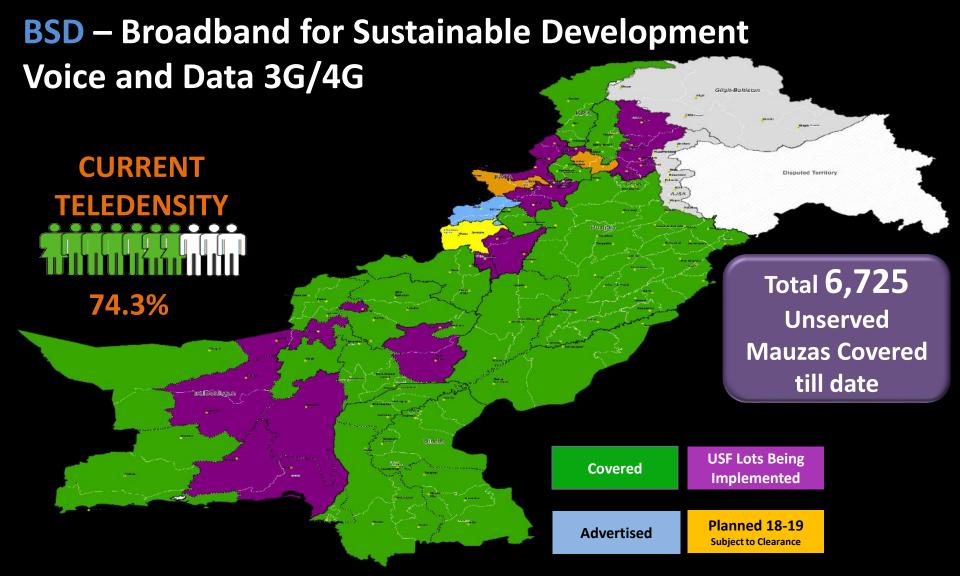
ICT for

- Special People
- Girls
- Educational Institutions

E-Commerce

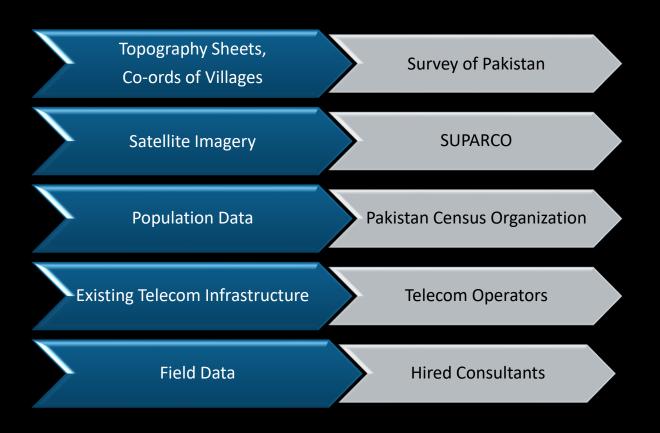
BROADBAND PROLIFERATION & DIGITAL INCLUSION



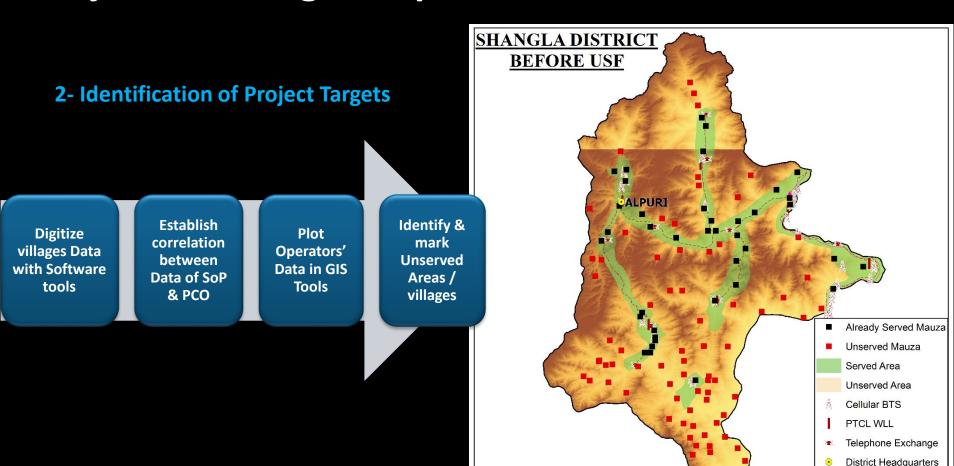


Project Planning & Implementation at a Glance

1- Data Collection

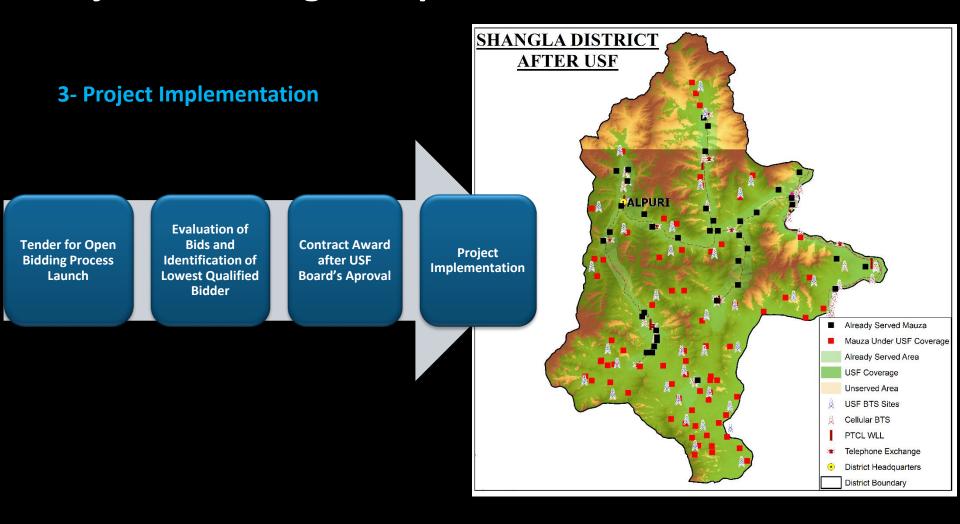


Project Planning & Implementation at a Glance



District Boundary

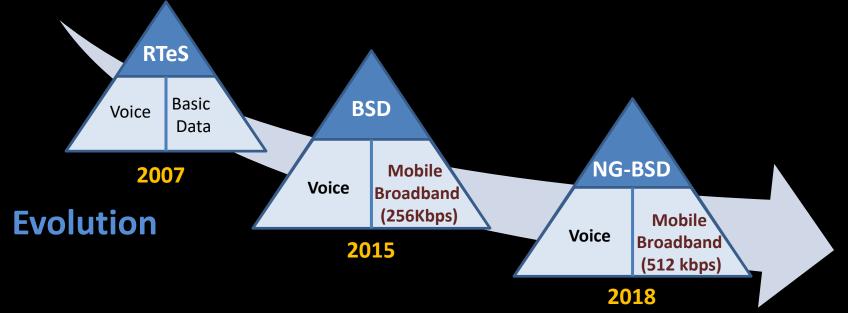
Project Planning & Implementation at a Glance



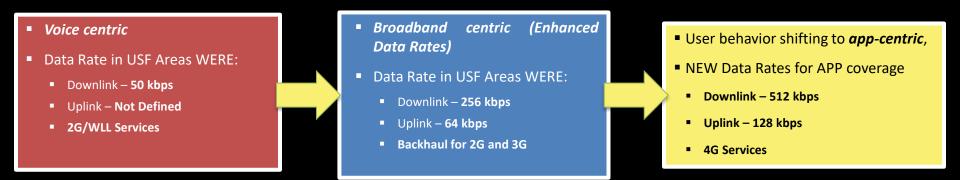
Broadband for Sustainable Development (BSD) Programme

TARGET!

Providing Voice and Broadband Internet services to Mauzas in Unserved Remote and Rural Areas

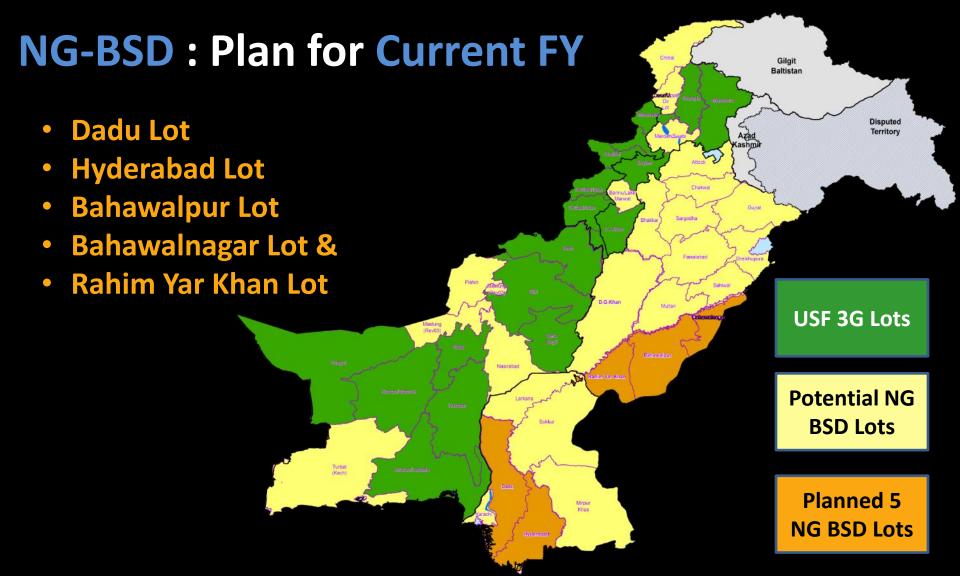


Future Outlook - Next Gen. BSD Program



NG-BSD Scope

- Higher Data Rates
- Seamless app coverage
- National Roaming where applicable
- Projects to provide coverage along National Highways and Motorways



Future Outlook

Next Gen. BSD for National Highways & Motorways

Salient Features

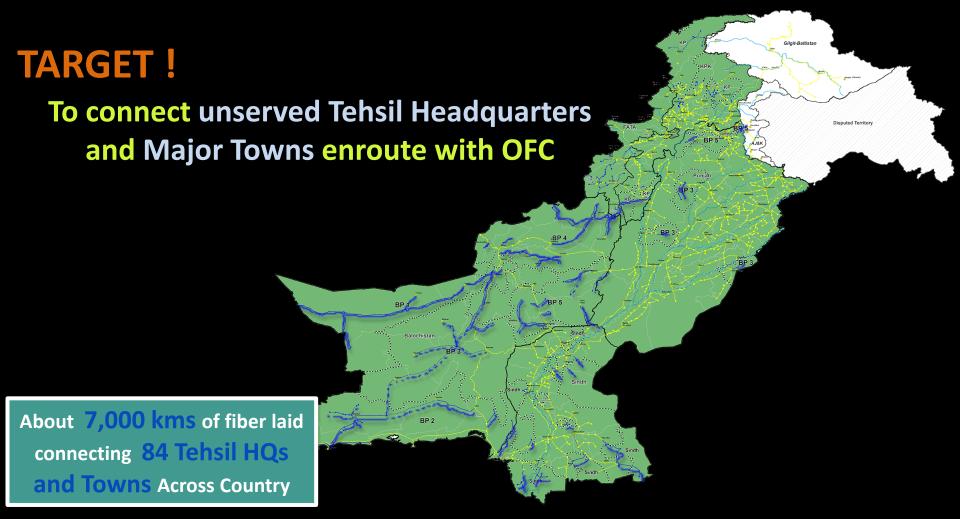
- Next Generation Broadband Infrastructure for un/under served segments of Motorways and Highways
- 512Kbps Downlink, 128Kbps Uplink
- Mandatory Infrastructure Sharing
- National Roaming

Estimated Route Lengths

Province	Motorways and National Highways		
	Total Route Length (Kms)	Served routes Length (Kms)	Unserved routes Length (Kms)
Balochistan	4,129	243	3,886
Sindh	2,407	1,051	1,356
Punjab	3,697	1,854	1,843
Khyber Pakhtunkhwa	2,215	1,556	659
Total	12,448	4,704	7,744

Broadband Programme 479 Towns & Cities **Covered &** 784,279 subscribers **Achieved** TARGET! More than **Establishment of Broadband Infrastructure 1,300** EBCs **Establishment of Broadband Centers** and 370 CBCs for Educational Institutions and Community established BB **Evolution Primarily Fixed Broadband** in **BSD** Unserved **Urban Areas** to 2009 Mobile Voice **Broadband** 2015

Optic Fiber Cable (OFC) Programme



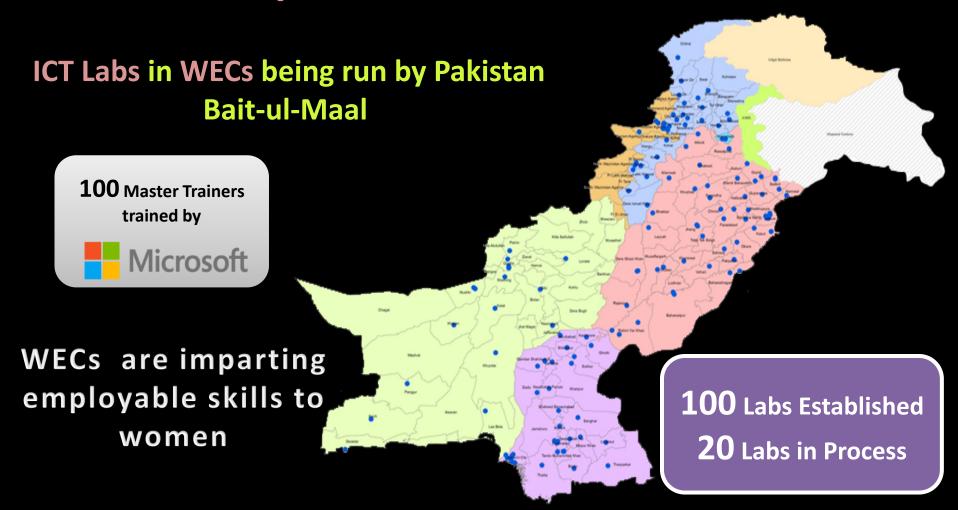
Digital Inclusion

CURRENTLY:

- ICT for Girls Initiative
 - ICT Labs in Women Empowerment Centers
 - ICT Labs in FDE Girl Schools
 - ICT4G Web portal
- ICT Labs in Sweet Homes
- ICT for People with Special Needs
- E-Commerce



Women Empowerment Centers



ICT for Girls Schools of FDE 202 Female Teachers Hired by USF & trained by To establish ICT Labs in Girls Schools being licrosoft run by Federal Directorate of Education **226** Computer Labs **Established**

ICT4G Portal — Multi-Stakeholder Platform

for Coding

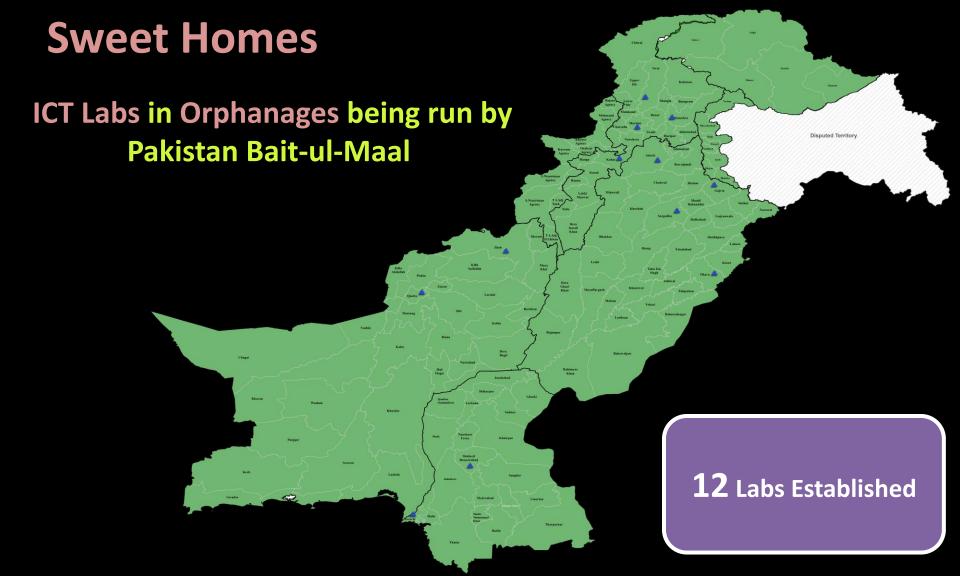
FDE and WEC Program Description

ICT FOR GIRLS ABOUT US ▼ NEWS & EVENTS PROJECTS ▼ RESOURCES ▼ TESTIMONIALS SIGN IN/ SIGN UP pany (USF). The minister, who is also the chairperson of BoD, approved the launch of Information and Communication Technology (ICT) for girls' portal, directing the USF management to ensure that "girls who code" s **Additional Resources**

Student-Teacher Collaboration



Mobile Responsive



Special Project: ICT for Disabled

Launched in Last FY: Targets are
National Library of Pakistan and
5 Special Education Centers under CADD

- Computer Labs with furniture, Specialized equipment & Software
 - Braille embosser,
 - Zoom text large Keyboard,
 - Joystick Mouse,
 - interactive console with gesture control sensor for autistic people

Launched in last FY - Implementation in Progress

Ecommerce for Craft MSME/SME

Launched in Current FY

Objective: To empower Craft MSMEs via E-commerce Platform to increase Sales

- **Registration of MSMEs and products**
- MSME benefits from increase in online sales Volume
- E-commerce platform is self sustainable



Clusters











Leather

Carpet

Furniture

Textile

Jewelry

Pottery

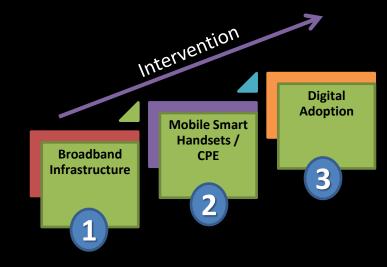
Looking Ahead: VISION AND MISSION

VISION

Prepare Pakistan for the 4th industrial revolution by enabling digital inclusion for all.

MISSION

- Re-focus on BB availability for all of Pakistan
- Smartphone and Data Package Affordability
- Launch "Digital Inclusion" program for onboarding



Multi pronged approached to Kickstart Digital Lifestyle Inclusion of the un/underserved

Thank you