The Intelligent Cloud and Inclusive Transformation

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MICROSOFT AND ICRISAT - BRINGING ARTIFICIAL INTELLIGENCE TO AGRICULTURE TO BOOST CROP YIELD

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INNOVATIVE PPP MODEL IN PRIMARY EDUCATION AND ADULT LITERACY

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Cyient Digital Centers: A case study

CYIENT DIGITAL CENTERS

CYIENT FOUNDATION’s innovative PPP model to integrate digital class room, digital library and adult digital literacy centers. 54 CYIENT DIGITAL CENTERS (CDC) with over 1000+ desktops, 4 MBPS link to each school working in Government Schools located in Serilingampally Mandal, Ranga Reddy Dt, TELANGANA

Digital Classroom/Digital Library for students

- Digital Classrooms with on-line content on the cloud.
- Digital Libraries provide access to repositories of high-quality content on the Internet.
- Provide high-quality digital educational resources to students of the government schools
- Targeted towards government schools which have budgetary constraints.

Digital Literacy Mission for community

- Digital class rooms doubling up for digital literacy centers after school hours. Age group of community members ranging from 16 to 60 Years.
- L1 - The basic level IT Literacy Training to non IT literates so that they can learn usage of computers, Digital access devices and the internet.
- L2 - Besides IT Literacy, the trainees can become employable in basic IT jobs.
Cyient Digital Centers- Leveraging ICT

CYIENT DIGITAL CENTERS – CLASS ROOM - ICT AT ITS CORE.

• CDC has Using Technology for creating multi format Learning: Curriculum aligned to CBSE, ICSE, and SSC. Learning resources for various subjects (Science, Mathematics, English and Social) in multiple formats (animations, video lectures, presentations, class notes, worksheets, mind maps, etc.)

• Online and offline Teachers training Modules: A repository of resources (question banks, lesson plans, projects, activities, mapped content, professional development and more) for teachers. Online supplemental learning portal for teachers and schools from classes 1 to 10. CDs and DVDs to access offline content.

• Leveraging ICT for Content development by experts across the globe: Twenty-first century learning framework—skill centric, project oriented, and STEM based—developed by a talented group of subject experts from across the world. The content is periodically updated with the latest as per global standard.

• Real time Interactive Classes : Students and Community members can access various online classes which are real time streamed for interactive sessions.
Cyient Digital Centers- Leveraging ICT

CYIENT DIGITAL CENTERS – DIGITAL LIBRARY - ICT AT ITS CORE.

- Internet connectivity to browse contents from various digital library links.
- Limited access to various web sites for learning and current affairs

CYIENT DIGITAL CENTERS – DIGITAL LEARNING CENTRE - ICT AT ITS CORE.

- Online Digital Certifications for community: Training modules in the NDLM Centre have been developed in association with the NASSCOM Foundation, covering content on health, education, literacy and livelihood. Each Centre is expected to train 1000 community members per year — one from each family— from the surrounding areas to operate a computer or a digital access device (such as a tablet). CDC’s train the community members on how to use the Internet to search for information, send/receive emails and access various e-governance services.
Cyient Digital Centers- Innovation

Optimal resource utilization: The CDCs are being used by the schools, students and teachers till 3:30 pm. Post which it is open to community members based on registration and supervision of IT faculty.

PPP model for high penetration: While the real state is provided by the school, the IT systems, net connectivity and IT staff is being sponsored by Cyient (Corporate) to increase the reach into slums and the needy society.

Corporate best practices for scaling: Bringing corporate best practices in implementation of CDCs, operations, vendor management, leaning outcomes, staff management to bring more efficiency and scaling. Outcomes being measured to track the effectiveness. Aligning the program towards certification and employability.

Volunteers to keep the model “Low Cost”: Enrolled 2500+ volunteers to support these cause through teaching, creating awareness, implementation of CDCs, to keep this initiative low cost.

Cloud based Mobile module for “Any Time & Any Where Learning”: Cloud based web portal for accessing all the digital library content through mobile with basic internet connectivity for any time learning for students and community.
Cyient Digital Centers: Impact 1

- **20k**: Digital Education to more than 20000+ underprivileged children in 54 Government Schools
- **50k**: 50000+ non IT Literate communities residing around these 54 CYIENT DIGITAL CENTERS will get access to IT Literacy
- **4.7k**: Until date in 158 batches 4700+ community members are gained IT Literacy through CDC’s
School Adoption by Cyient – 16 Zilla Parishad High Schools: Impact 2

- Adopted 16 Government schools (subset of the 54) and improving the quality of education
- 11000+ underprivileged children benefited
- The overall pass out rate has improved to 85% from 28%.
- The overall Dropouts reduced to 4% from 14% and New Admissions improved to 22% from 13%.
- Girl student enrollment % has improved from 22% to 52%.
PPP in Education and Literacy: Need and Challenges

• Public Private Partnership is a model in Education is gaining popularity and benefits the state, the corporate and most importantly the children. PPP model are improving the study environment, enhancing the quality of education and creating an enabling environment.

• Challenges faced with PPP model;
  – The implementation challenges including the financial disbursement bottlenecks and the scarcity of quality human resource to implement the programs.
  – Environmental challenges include an absence of clearly defined government policies for PPP. Government curtails its responsibility and role to that of being an access provider; the private entity to improve, enhance and provide results. PPP definitely can be an important part of the overall strategy to achieve quality at scale.

• Government can use PPP model to provide quality education to children belonging to the marginalized section. For a successful public private partnership the government should develop clear policies and guidelines to encourage private sector involvement in education to compliment the efforts being made by public sector in achieving the Millennium Development Goals.