



NSF (UK) 3rd Annual Education Lecture

Education in a Digital World

How digital education is helping to bring learning to life in schools and at home

Presentation by:

Government College Ikorodu Old Students Association (UK)

GCIOSA (UK)



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Digital Education - Bringing Learning to Life in Schools and at Home

- Learning
 - knowledge acquired through study, experience, or being taught
 - Communication
- ICT
 - Information and Communications Technology
 - not just IT, emphasis also on Communication
 - useful tool for teachers in advancing 21st century learning
- Important part of our daily lives
 - staying in contact with people
 - checking traffic and booking tickets
 - Learning
 - Family WhatsApp group? YouTube food recipe? Google home work
 - etc



Benefits of Digital Education

- It opens up the world to students, youths
 - Global and Political awareness
 - Expansion in knowledge
- It is driving new world Politics
 - Record youth votes
 - Changes in Socio-Political orientations as never seen before
- World now a Global Village
 - Can connect family easily
- Research & Studies
 - Effective research
- Employment, Trade and Enterprise
 - Emails and Job applications
 - many new Multi-Billion start-ups
 - Business from anywhere, reduced Boundaries, reduced Limitations



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Benefits of Digital Education in World

- ▶ Alleviate Poverty
 - ▶ just 1 click away from getting financial help
- ▶ Safety and Care
 - ▶ Check family safe
- ▶ Education
 - ▶ Access to wider study materials
 - ▶ Good presentation skills
 - ▶ Boost confidence
 - ▶ Learn from YouTube and other Resources
- ▶ Creativity skills
- ▶ Entrepreneurial and Marketing skills
- ▶ Learn new Skills



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Digital Education vs. Poverty

- ▶ Inverse correlation between Poverty levels and Digital Education exposure levels
- ▶ Poor areas
 - ▶ have less access to Digital Education
- ▶ Rich zones
 - ▶ have better Digital Education
 - ▶ Control Digital content
 - ▶ Opinion makers
- ▶ Tool for creating Wealth
- ▶ Health care
 - ▶ Health education and Awareness
- ▶ Improved Food and Agricultural technologies
- ▶ Safety and Security
- ▶ Disaster recovery
- ▶ Creative freedom



Our Thoughts - Empowerment

- ▶ Apart from spread of
 - ▶ Mobile phone ownership, access to bank accounts, biometric identification cards, online access
- ▶ How can we
 - ▶ help improve the underprivileged zones?
 - ▶ help Students of our old School have Brighter future?
- ▶ As a Start, to have dedicated e-Learning Lab for Students
- ▶ Provide digital study materials e.g. e-Books stored centrally on the server
- ▶ Empower the Students
- ▶ Empower the Teachers

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Our Thoughts - Empowerment

- ▶ Training sessions for software packages
 - ▶ Coral Draw, Photoshop,
 - ▶ Microsoft Office packages like Excel, Word
 - ▶ Website building, etc
- ▶ Teach about History and Social Skills
- ▶ Entrepreneurial skills?
- ▶ Study and Exam leaning materials?
- ▶ Efficient way to spread Knowledge and Empower people



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Thinking of How it can be Done

- ▶ ICT to be Included in School Curriculum
- ▶ Starting with 10 units of Thin clients connected to a server
 - ▶ this will comprise of Monitor, Keyboard and thin Client PCs
- ▶ Starting with one central Server
- ▶ Cabled Networking
 - ▶ cabled network
 - ▶ a simple router e.g. 10 points router



Other things to Think about

- ▶ No internet/external access
 - ▶ not for Social Media 😊
- ▶ Printer
 - ▶ could potentially generate revenue from printing?
- ▶ Monitoring software
- ▶ Provide digital study materials e.g. e-Books stored centrally on the server
- ▶ Use components that are interchangeable
 - ▶ not Tablets - could be destroyed or stolen, and a whole unit will be lost



Challenges and Limitations Foreseen

- Politics!
- Power supply
 - dedicated power supply? UPS?
 - solar power? generator?
- Resistance to change
- Buy-in from Stake holders
- People factor
 - "what's in it for me" factor
- The Classroom or Laboratory
- Sponsors?



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More Costs

- ▶ Human Resources and Wage
 - ▶ Trainers
 - ▶ Technician / Maintenance Engineer
 - ▶ Security Personnel
- ▶ Cost of Periodic Maintenance
- ▶ Cost of Periodic Upgrades
- ▶ Equipment lifespan and replacement after few years
- ▶ Regular software upgrades
- ▶ License purchases



Potential Issues After

- Misuse and Abuse of Devices
- Misuse of Internet
- Lack of Maintenance Culture
- Cost of Maintenance of Printing system
 - Ink / toner cartridges
 - regular maintenance
- Security – Theft
- Security – Damages
- Security – Software Viruses
- etc

Some General considered

- ▶ No internet
 - ▶ because of abuse and misuse
 - ▶ external security breach
 - ▶ download of viruses, etc
 - ▶ who will keep paying for the ISP cost
- ▶ Thin clients
 - ▶ Cheaper
 - ▶ easily secured
 - ▶ many loose and inconvenient components to steal
- ▶ Space awareness and premium
- ▶ Easy to upgrade sub-components
- ▶ Less attractive components, less prone to theft
- ▶ No tablets and laptops
- ▶ Not singularly useful e.g. tablet
- ▶ Cabled network
 - ▶ easier to setup
 - ▶ more reliable
- ▶ Printer
 - ▶ Can hopefully generate a bit of revenue

Conclusion

- We have to Believe and Start somewhere
- No matter how little we start
- We have to be “Generation Thinkers” – what would benefit generations to come





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Questions?