



EDUCATIONAL TECHNOLOGY: VITAL TOOL FOR 21ST CENTURY DEVELOPMENT AND SUSTAINABLE COMMUNITIES

BY

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Introduction

- Continuous development and sustainable communities are topmost in the desire of any society. From the smallest unit of the society, which is the family to the most complex of it, development is a continuum. Some parts of the world are experiencing distress and unrest, such as war, flooding, banditry, earthquake, and other natural disasters. It is imperative to reiterate at this world sustainability conference some vital tools required to achieve desirable development in the local communities of every participants of this conference.
- In this presentation, efforts are made to expand the functionality of Educational Technology, especially as it relates to sustainable communities and development in this 21st century.




Education

➔ This is a term that is used by different scholars in various ways:

school
training
etc

Therefore, people use the word education relatively.

According to Adeogun(2000) education can be defined as the process of developing cognitive , affective and psychomotor domains of an individual in order to make him or her acquire skills and knowledge that are relevant to him/her and to the society in which he/she lives.

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- It is against these backgrounds that education at whatever level, is seen to serve both the individual and the common wealth (Adeogun, 2000).
 - In every sane society, the idea of education is to enhance development of individuals which will in turn lead to societal development. The yearning of the world to experience sustainable communities that is developed and good enough for the generation to come behind us is hung on the quality of education that we give.
 - Education goes beyond what is learnt in schools, it also has to do with what our communities becomes after us.
 - Having acquired the relevant knowledge in schools, effort must be made to transform theory to practice. This is the only way by which we can have a sustainable communities and development.

Technology

- This is a complex and systematic integration process of man, machine, ideas and procedure with the aim of determining and resolving human problems/ challenges.
- Kranzberge (1979) articulated that “through the ages, technology has benefited man in four main ways.
 - *First, it has increased his production of goods and services.*
 - *Second, it has reduced the amount of labour needed to produce goods and services.*
 - *Third, technology has made man's labour easier.*
 - *Fourth, it has given him higher living standard.*
- The realisation of these four main ways cannot but be the task of any developing nation who would have to seek these four main ways through the education process.



Properties or features of Technology

- *It makes work to be faster and easier*
- *It ensures efficiency and effectiveness*
- *Technology brings about improvement to a task*
- *It helps to save resources from wasting*
- *Technology brings about innovation*

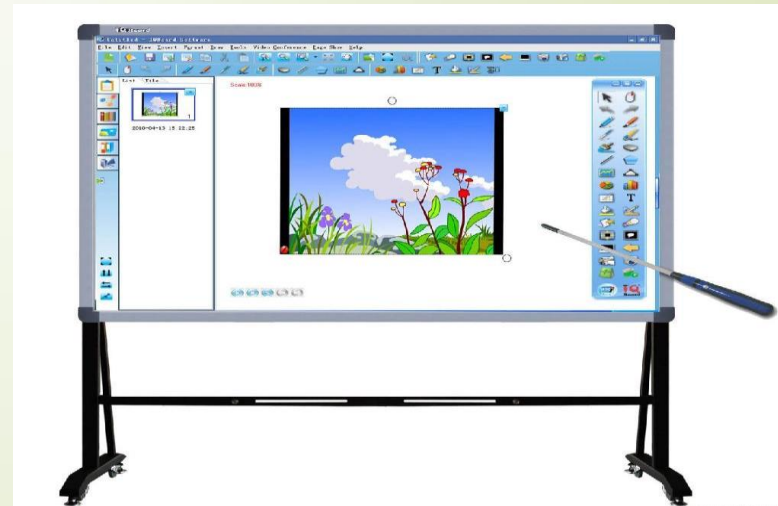
Educational Technology

- Different people have their views of the concept educational technology. To some, it concerns the materials used for teaching and learning previously tagged as teaching aids. To others, it is the mainly seen as the use of television or other electronic means to enhance teaching and learning.
- However, the concept educational technology is far beyond this restrictive views. According to the *America-based Association for Educational Communication and Technology* (AECT) (1979), Educational Technology is a complex integrated process involving people, procedure, ideas, devices and organisations for analyzing problems and devising, implementing, evaluating and managing solution to those problems involved in all aspect of human learning.
- The implication of the above definition is that educational technology centres on solving human problems, and in doing this, several parameters are aggregated to facilitate seamless desirable result.

Educational technology can be operationally described in two ways: **technology in education** and **technology of education**

Technology in Education

- This embraces the use of Audio-Visual (AV) media, it involves information and communication technology, educational data processing and tele-communication. It also involves the use of equipment of Hardware machine e.g. projector, cassette player etc.





Technology of Education

- ▶ This concerns the use of systematic and scientific procedure in Educational practices. Technology of education can be applied to:
 - A) Analysis of instructional materials
 - B) Organisation of instruction process
 - C) Organization of educational process.

Importance of Educational Technology

- It makes instruction to be richer and more powerful
- It makes education to become more productive
- It provides a more scientific base for designing instruction
- It makes learning to become more concrete, real, immediate and permanent.
- It helps to individualize learning.
- It offers experiences in learning which may not be easily obtained through any other means.
- It makes access to education equitably distributed
- It provide teachers the chance of motivating the learners, arousing their interest as well as sustaining their learning tempo.

21st century needs

- The 21st century is unique from past century in that it come with illumination and advancement to humanity.
- Good Governance
- Quality Infrastructure
- Affordable health care
- Security etc



What is Development?

- The term development is relative. It may imply physical or infrastructural presence or intellectual edifice.
- Development occurs when life become easier for people to live. The presence of basic amenities that are important to man must not be struggled for, if one would say an environment or community is developed.
- The level of any community's development is directly proportional to their education, as no nation can develop beyond the level of its education.

Sustainable Community


- Sustainable community is a community that is economically, environmentally and socially healthy and resilient. It is necessary in order to achieve more integrated and sustainable town and cities. With an improved urban environment and a higher quality.



Roles of Educational Technology in environmental development and sustainable communities.

- Students can earn their degrees more quickly especially when e-learning aspect of educational technology is deployed.
- Students can be involved in other activities such as work, sport etc and still graduate with their class in record time.
- More access to an incredible variety of enrichment courses in online learning. The world where we live now, has given no one any excuse to complain of lack of desired course to study.
- Students can repeat failed courses without any embarrassment.
- Help students to develop self-discipline.



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- Improved interaction between students and teachers. The idea and expected relationship between teacher and student is better enhanced with the help of educational technology.
 - Enhances ability of students to independently solve problems.
 - Acquisition of technological skills through practice with tools and computer
 - No age-based restrictions on difficulty level i.e. students can go at their pace
 - Cost effective

Conclusion

- The threat to life of man is daily increasing. Natural disasters are sometimes traceable to the activities of man. Hence, all hands must be on deck to reduce havoc that man causes for man.
- The level of our education is one vital ingredient needed for our livelihood, development and sustainable development. Educational technology a subsidiary of education has been identified as key to community development. We need to consolidate the current trend of e-learning especially as powered by the green institute and other affiliate institutions on world sustainability. The place of educational technology in making access to formal education more convenient would boost the expected knowledge of citizens. Therefore the effort of man to conserve what we have on earth, so that the future generations have enough to live fulfilled lives.



Thank You