

(Title:-* ADOPTING TECHNOLOGY:- A PATHWAY FROM HOBBY TO SCIENTIFIC EXPLORATION.*)

PART (A)-:

- BIRD WATCHING HOBBY EVOLVES TO BECOME A VITAL ASSET FOR INTERNATIONAL SCIENTIFIC RESEARCH PROJECT THROUGH BIO-ACOUSTICS.-

-It is natural to feel pleasure and comfort at nice morning melody from a sweet HUMMING soft sound or a sharp CHIRP and a TWEET from a bird up on a nearby tree or a pole next to your home garden!..No matter how depressed or worried you were on your night sleep ,you surely will wake up with a bright new hope because you already know it's now a brand-new day with NEW beginnings.

Upon waking up,your curiosity to know what kind of different species were the type of each BIRD that gave you the various types of the sweet melodies.

The very first time you wake up very early in the next morning to try and find out which bird sang you which melody is the very beginning of your BIRD WATCHING HOBBY!, and this would be just for plain PLEASURE and amusement out of simple curiosity.

Now with the fast developing new trend of CITIZEN SCIENCE has led to scientists like DAVID MANN and his team to develop the HAIKU BOX which has evolved this simple Bird watching hobby into a real life ENVIRONMENTAL ACTIVISM AND CONSERVATION participation and contributory asset,because the HAIKU BOX captures and identifies BIRD species through each different song they sing and then TRANSMITS the information to BIO DIVERSITY researchers all over the world about the

types of species and animal behavior that uses the multiple Echo Systems all around the world. With the HAIKU BOX invention, comes with more innovative technology in the form of RASP-BERRY Pi computer for field recording and an Ai neural network to classify birds by their VOCALISATION (voice recognition using Ainetworks) which also advanced the idea behind COMMUNITY SCIENCE because CITIZEN scientists can now CAPTURE,STUDY and TRANSMIT their live database for mapping their populations and tracking their migration patterns right at the comfort of their HOME BACKYARDS!. (No more need to take RISKS by going out into the wilderness and getting exposed to snake bites,attacks by dangerous animals,deadly falls or leaving expensive equipment like your recording cameras unguarded and exposed to harsh weather elements whilst still trying to capture and record nature.

Soon with the HAIKU BOX invention people from all walks of life,can now engage in scientific activities in the comfort of their HOME and contribute to research whilst participating in NATURE CONSERVATION, irrespective of AGE or GENDER either for activism or PROFIT because they can also provide data to BIO DIVERSITY researchers at a FEE!!.

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PART (B).

-FROM PIXTELS TO PATTERNS-: THE POTENTIAL GAMMING FOR GENOMIC RESEARCH.-

Video games are no longer just entertaining playing TOYS only for small kids ,it is now an important learning tool for people young and old for various needs and purposes.

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We have seen various video gaming inventions like the RACING CAR or RACING BIKE which evolved from just simply pressing small buttons and small keys to operate being transformed into a realistic game whereby the player sits behind a realistic steering wheel with realistic gear,clutch e.t.c...and as you play, you physically engage gear,steering,brake and clutch to drive the image of the car on a big screen with a realistic car engine or bike noise!

Such innovative ideas provides the player with entertainment pleasure and at the same time giving practical driving lessons and adding more driving skills and experience to the player .

Other inventions like the BORDERLANDS SCIENCE which also give entertainment and scientific subject that contribute to trace revolutionary GENOMIC data lineages with each puzzle solve in the game 'BORDERLANDS 3' that is Developed by the GEARBOX software which also helps in investigating the multi functional roles of MICROBIAL COMMUNITIES IN HUMAN HEALTH,is proof of how our advancing technology can provide entertainment and become a tool for scientific research.

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PART (C).

-THE RISE OF D.I.Y SCIENCE;- EMPOWERING PEOPLE WORLDWIDE.

Our science is fast changing and advancing to become easily accessible to all people of the world through innovative and advancing technologies and as such all people are graduating to become scientists through the readily available gadgets and software tools.

With this easy to use equipment,has led to the birth of CITIZEN SCIENCE and most people are now contributing to scientific research and are now part of a real world science whereby they are making DISCOVERIES, COLLECTING SCIENTIFIC DATA and EXPERIMENTS, because people now use gadgets like their SMART PHONES technologies like SENSORS, AUDIO RECORDERS AND CAMERAS , which you can literally do anywhere, and now with the D.I.Y science one does not need to go to LABORATORIES and UNIVERSITIES to produce professional scientific data which was previously reserved only for PROFESSIONAL SCIENTISTS!.

Take the GEOLOGY profession for example, whereby geologists used have to walk and climb dangerous mountains for his geological field mapping duty, nowadays with the D.I.Y SCIENCE as simple kid or an ordinary elderly person can simply sit behind his/her LAPTOP and control his recording FLYING DRONE to take video sand and pictures of their area of interest, take his GOLD sensor monitoring gadget and with a single BEEP!..can bring masses of kilograms of GOLD without a hustle and with SOFTWARE tools like the GEO-MODELLER an Ai, you can now do ROCK ANALYSIS and produce a complete professional geologist's work right behind the desk in the comfort of your HOME!.

And the best way to put it, is that the birth of CITIZEN SCIENCE which is also known as D.I.Y SCIENCE has produced a NEW ERA of science and with it comes a NEW HOPE in the solving of the many of of the world challenges with the major one being the CLIMATE CHANGE!!!.

PART (D).

-LIFELONG LEARNING-; FACILITATING PERSONAL DEVELOPMENT AND CONTRIBUTING TO SCIENTIFIC KNOWLEDGE. -

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- In the good old days, the gospel of Christ, people then believed that a Christian should only live a very strict principled way of life, like one should always be restricted to HOLY HYMNS and traditional worship songs and live Christ like life styles. But with TIME the natural science of life dictated that all things under the SUN must always evolve time !, and THIS led to the birth of DISCO/House GOSPEL GROOVES and music, whereby congregants would groove to the gospel sounds like in the disco clubs or night clubs right inside the church without any feeling of guilt or wrong doing...and isn't this a wonderful way of winning souls in numbers while keeping the new generation entertained?, remember it was big taboo back then to groove in church or wear make up and pants for our ladies and this PHILOSOPHY educated the old folkre that as long as you live ,you learn by realising that you need ADAPT to new IDEOLOGIES and learn the new aspects that come changes which you must also derive the from the pleasure of participating In it.

As much as CITIZEN SCIENCE is growing popular with people participating from all walks of life and all age groups, we all now have awakened to the fact that LEARNING IS A LIFELONG project which shall promote personal development and at the same level ,one is also contributing to the scientific knowledge in a professional way.....

PART(E).

-CONCLUSION-:COMBINING PASSION WITH PURPOSE. -

-Either by converting your house music to gospel GROOVES and take your moon walk dance moves to church with all that scientifically crafted CHOREOGRAPHY,you have learned and taught others through your DISCO PASSION a meaningful new way of life and participated in CITIZEN SCIENCE in the same way others turned their BIRD WATCHING HOBBY or COLLECTED different types of ROCK pieces for fun into a meaningful SCIENTIFIC RESEARCH PROJECT and at the same time have participated in a real life D.I.Y SCIENCE!!..👍👍

