Creativity And Innovation



Prof. Sanjoy Kumar Pal PhD.

www.sanjoypal.com

Creativity: What is it???.....

"The ability to create and innovate has been observed throughout history and even though the fundamental tools may have changed the ability has been prevalent in every civilisation"

(Hisrich, Peters and Shepherd, 2005, p. 8).

Creativity is a phenomenon whereby something new and somehow valuable is formed. The created item may be intangible (such as an idea, a scientific theory, a musical composition, or a joke) or a physical object (such as an invention, a literary work, or a painting).

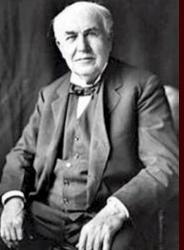


Innovation is a "new idea, creative thoughts, new imaginations, in form of device or method". However, innovation is often also viewed as the application of better solutions that meet new requirements, unarticulated needs, or existing market needs. Such innovation takes place through the provision of moreeffective products, processes, services, technologies, or business models that are made available to markets, governments and society.

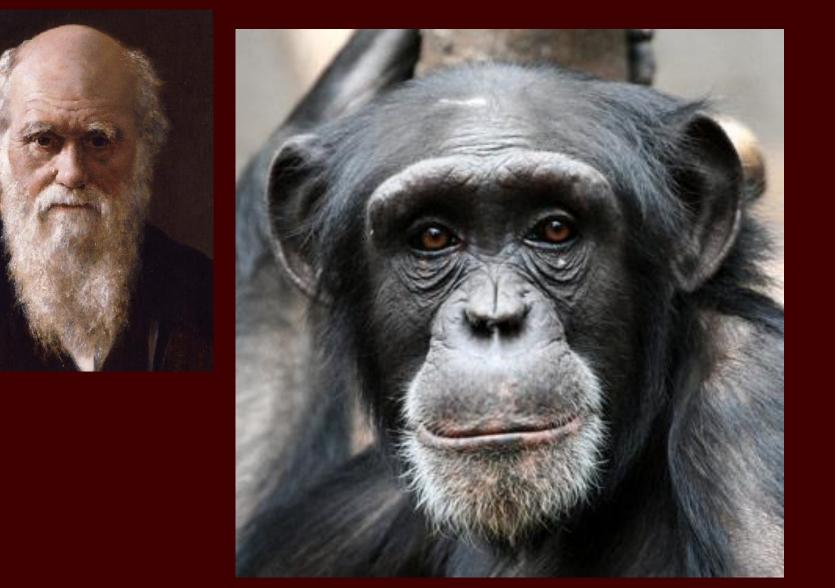


I have not failed, I've just found 10,000 ways that won't work.

Thomas Alba Edison

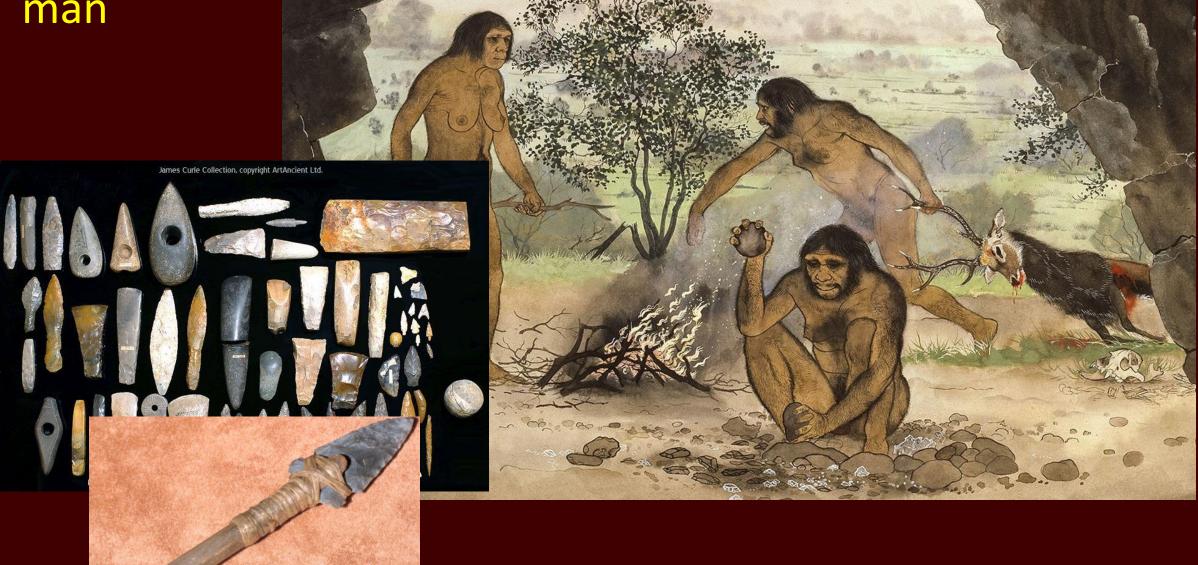


Do you know that we humans evolved from Apes



Stone Tools & Use of Fire were innovation done by primitive

man



Inventions are created to help make life easier and better



Important Inventions that Changed The world

WHEEL NAIL **OPTICAL LENSES** COMPASS PAPER & INK **GUNPOWDER PRINTING PRESS ELECTRICITY MOTOR STEAM ENGINE INTERNAL COMBUSTION ENGINE**

VACCINATION CARS AIRPLANE **ANTIBIOTIC** ROCKET **NUCLEAR FISSION SEMICONDUCTORS** PERSONAL COMPUTER THE INTERNET **TELEPHONE & CELL PHONE**

Entrepreneurship

Entrepreneurship is the process of designing, launching and running a new business, which is often initially a small business. The people who create these businesses are called entrepreneurs.

These Innovators made our life easy



Bill Gates



Steve Jobs



Tim Berner-Lee

Mark Zuckerberg







Larry Page & Sergey Brin

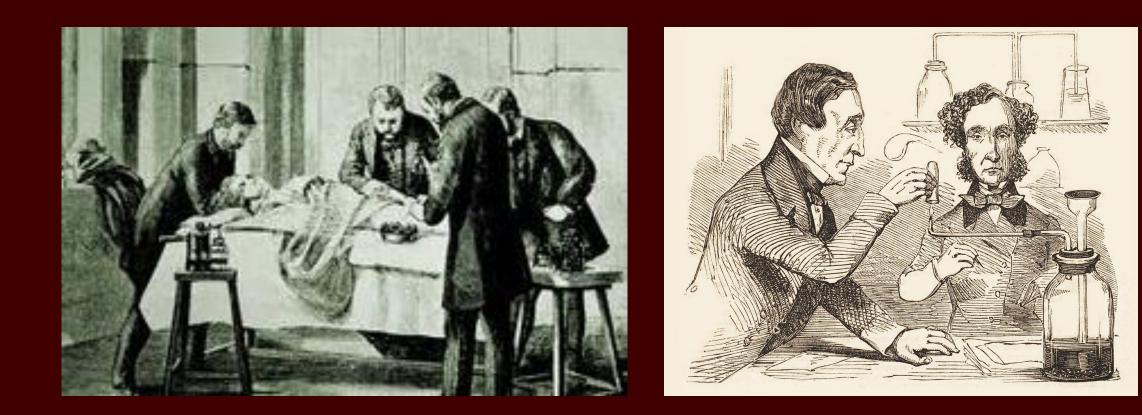
Jan Koum

Why Innovation is important?

The majority of businesses believe that **innovation** is a priority. The **importance** of **innovation** is increasing, and increasing significantly. It has been acknowledged that **innovation** leads to wealth creation. Although efficiency is essential for business success, in the long run, it cannot sustain business growth.



Innovations has Revolutionized the Health care





Edward Jenner



Vaccination is the administration of antigenic material (a vaccine) to stimulate an individual's immune system to develop adaptive immunity to a pathogen.
Vaccines can prevent or ameliorate infectious disease.
When a sufficiently large percentage of a population has been vaccinated, herd immunity results.

Modern Medical Technologies



Future Medical Technologies





The Future of Healthcare Tech: Biometric Sensors





African Leadership for Child Survival

Africa Key Facts and Figures for Child Mortality

Newborn and Child Mortality Estimates

- Sub-Saharan Africa has the highest risk of death in the first month of life and is among the regions showing the least progress. However, Sub-Saharan Africa has seen a faster decline in its under-five mortality rate, with the annual rate of reduction doubling between 1990–2000 and 2000–2011.
- Sub-Saharan Africa, which accounts for 38 percent of global neonatal deaths, has the highest newborn death rate (34 deaths per 1,000 live births in 2011). Neonatal deaths there account for about a third of under-five deaths globally (1.1 million newborns die in the first month of life).Sub-Saharan Africa has reduced under-five mortality by 39% between 1990 and 2011.
- If current trends persist, 1 in 3 children in the world will be born in sub-Saharan Africa, and its under-five population will grow rapidly.
- The highest rates of child mortality are still in Sub-Saharan Africa—where 1 in 9 children dies

The highest rates of **child mortality** are still in Sub-Saharan **Africa**—where 1 in 9 **children** dies before age five, more than 16 times the average for developed regions (1 in 152). Under-five **mortality** rate in **Africa** (per 1,000 live births) declined from 163 in 1990 to 100 in 2011.

https://www.usaid.gov/sites/default/files/documents/1860/Africa%20Key%20Facts%20and%20Figures.pdf

Mysorean rockets were an Indian military weapon which were the first ironcased rockets successfully deployed for military use. The Mysorean army used the rockets effectively against the British East India Company during the 1780s and 1790s. Their conflicts with the company exposed the British to this technology, which was then used to advance European rocketry with the development of the Congreve rocket in 1805.









Although **creativity** is earned, it is not always easy to **acquire**. And even if they aren't already very **creative**, there are definitely ways to develop that **creative** sense. So by that manner of thinking, **creativity** is a talent you are born with, but it's up to you to improve yours in the most appropriate way.

There is no age bar for Innovation

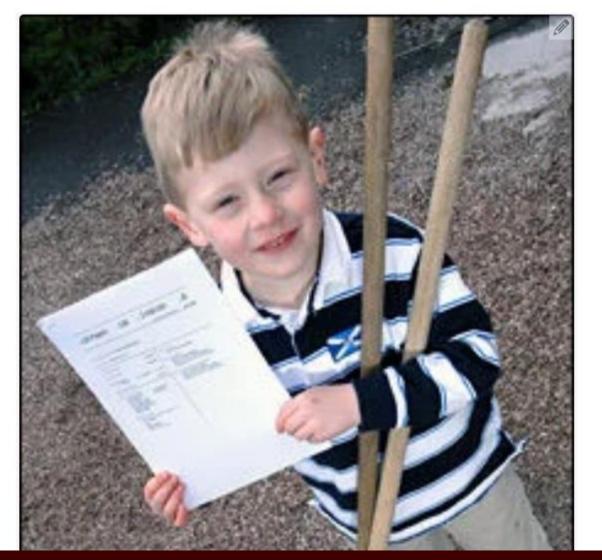


Young Ghanaian innovator

- A young innovator has made a miniature car which does not need a key to start.
- He has made other items as well which include a wardrobe, a solar-powered system for charging phones etc.
- The young innovator is a student of Don Bosco Senior High Technical School in the Brong Ahafo Region.

https://www.pulse.ng/bi/tech/meet-the-young-ghanaian-innovator-with-amazing-inventions-to-build-on/tjb36d5

World's youngest inventor - holds patent for new broom.

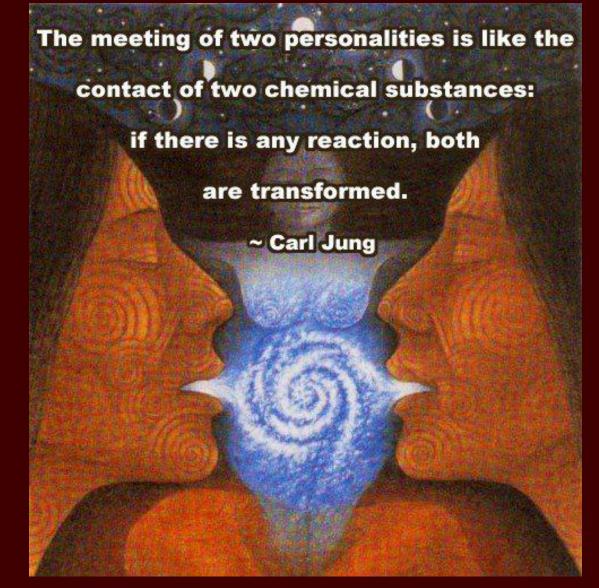


A boy of five is thought to be the UK's youngest person to patent an invention after coming up with a labour-saving broom to help his father sweep leaves.

THE OVERWHELMING NEEDS OF AFRICA



Many of the most critical issues facing the world today are at their most severe on the African continent. Above, a young student in South Africa drawing the continent in a geography class



Thankyou