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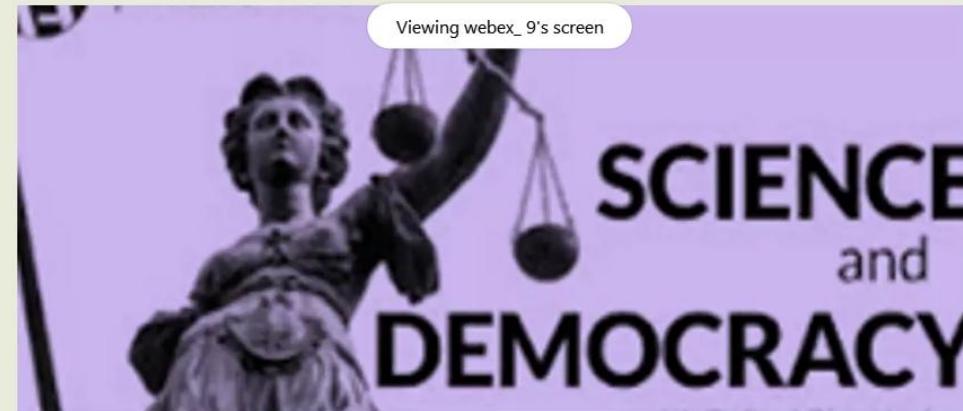
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Science and democracy are the right and left hands of what I'll refer to as the move from the realm of necessity to the realm of freedom.
(KARL MARX)

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INTRODUCTION

- Science and democracy go hand in hand, they share the same values(Wistrøm and Madsen, 2018).
- Both science and democracy promotes critical thinking.
- Science is regarded as a neutral instrument. Democracy also embodies values which must be neutral and promote equality, fraternity and justice to all.
- Science and democracy means that science is somehow by its very nature committed to democracy, that its expansion beyond the physical domain to the studies of man brings a growing knowledge of the human good and being about equality in the society.

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- Democracy and science are the result of definite economic and social developments.
- In contemporary global society, the responsibility of science has increased.
- It has major role in promoting democracy through the information technology.
- Application of technology to make informed choice is the biggest challenge in the present century.

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Scientific and Technological Developments in India



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History of Indian science & technology

- The Indian civilization, among world's oldest and richest, has a strong tradition of Science and Technology.
- The Harappa Culture that flourished for nearly eight centuries (c. 2750 – 1900 BC) was, according to some researchers, the youngest but by far the largest of the three most ancient civilizations.
- The Indian Civilization has a long recorded history of scientific culture that goes back to more than 5000 years. Indians developed one of the earliest written scripts also known as the Indus Scripts , built urban towns, with residential complexes and wastewater systems, way back in 2500 BC

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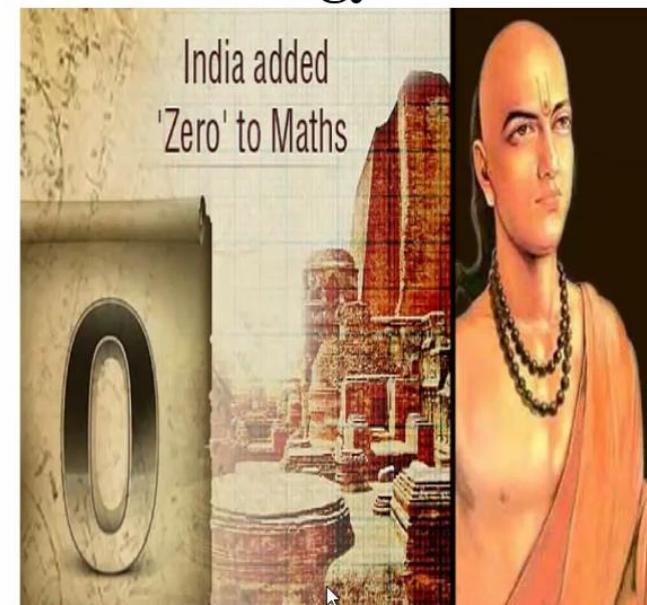
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Contribution of India in development of science and technology

The Idea of Zero

Mathematician Aryabhata was the first person to create a symbol for zero.



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Numeral Notations

Indians, as early as 500 BCE, had devised a system of different symbols for every from one to nine. This notation system was adopted by the Arabs who called it the *hind* numerals.

Centuries later, this notation system was adopted by the western world who called them the Arabic numerals as it reached them through the Arab traders.

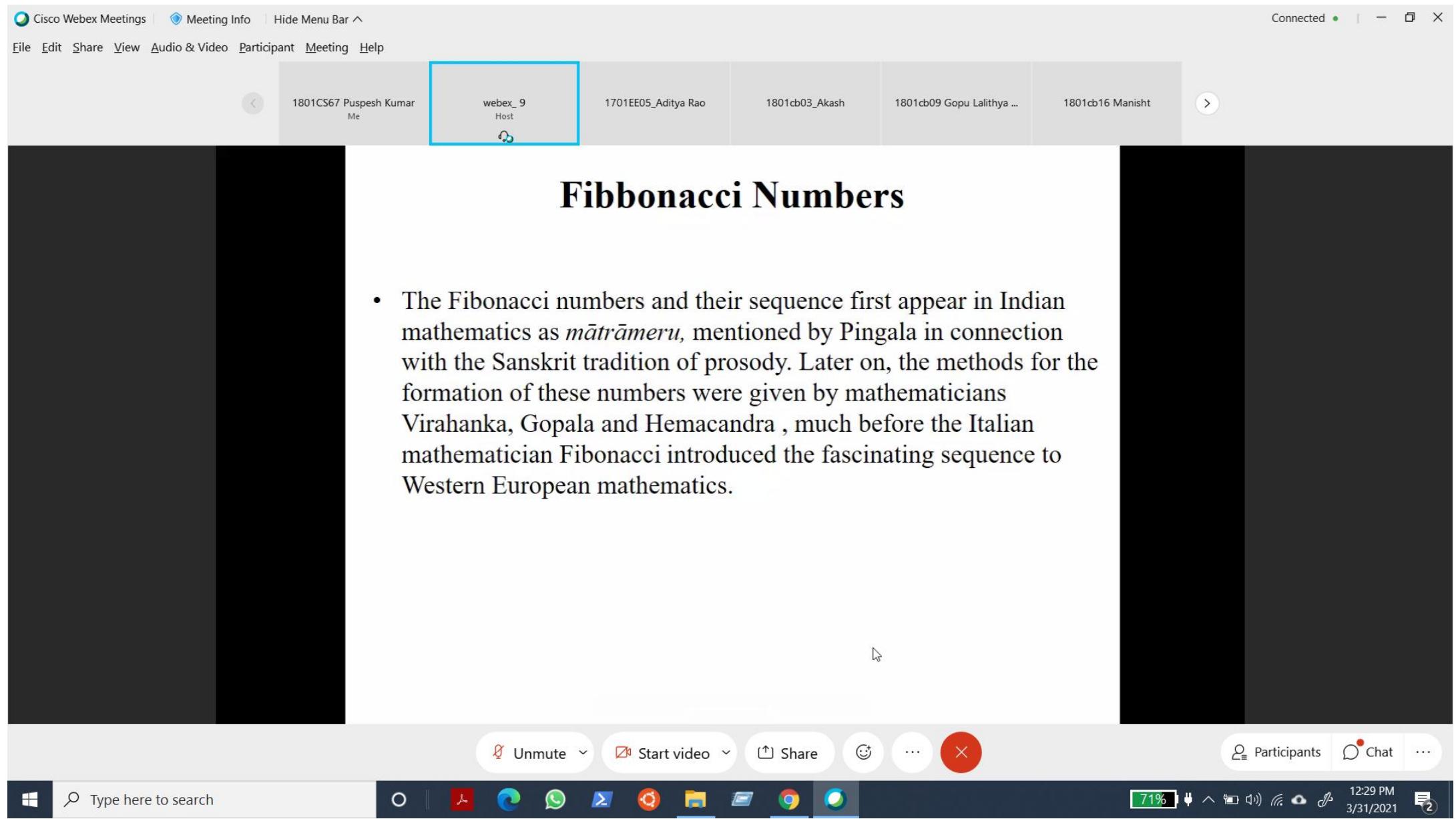
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Binary Numbers

The binary number system was first described by the Vedic scholar Pingala,

in his book

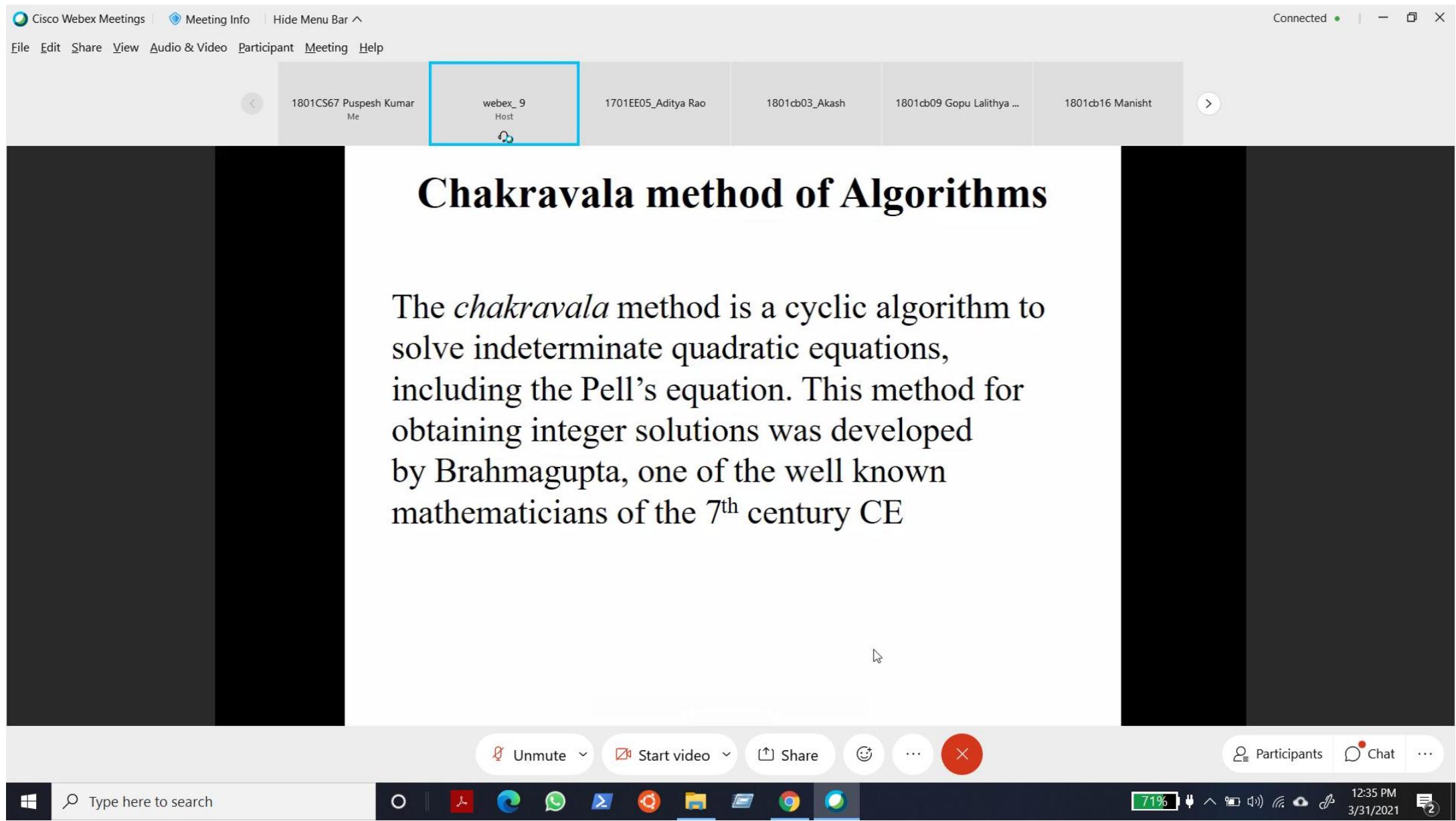
Chandahśāstra, which is the earliest known Sanskrit treatise on prosody (the study of poetic metres and verse).

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Ruler Measurements

- Excavations at Harappans sites have yielded rulers or linear measures made from ivory and shell.



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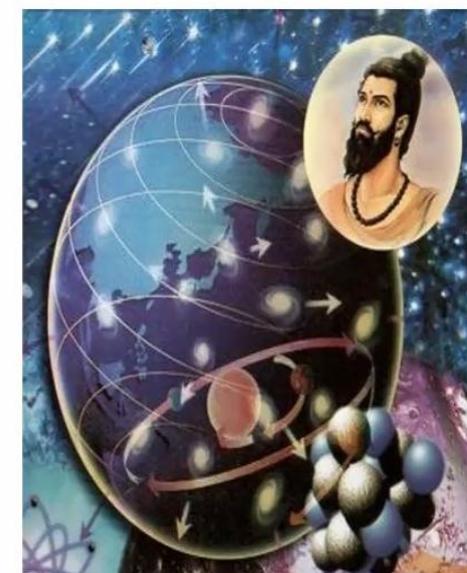
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A Theory of Atom

One of the notable scientists of the ancient India was Kanad who is said to have devised the atomic theory centuries before John Dalton was born. He speculated the existence of *amu* or a small indestructible particles, much like an atom.



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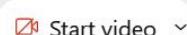
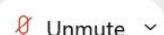
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The Heliocentric Theory

- Aryabhatta book, *Aryabhatiya*, represented the pinnacle of astronomical knowledge at the time. He correctly propounded that the Earth is round, rotates on its own axis and revolves around the Sun i.e the heliocentric theory. He also made predictions about the solar and lunar eclipses, duration of the day as well as the distance between the Earth and the Moon.



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Plastic Surgery

- Written by Sushruta in 6th Century BC, *Sushruta Samhita* is considered to be one of the most comprehensive textbooks on ancient surgery.

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Ayurveda

Long before the birth of Hippocrates, Charaka authored a foundational text, *Charakasamhita*, on the ancient science of Ayurveda. Referred to as the Father of Indian Medicine, Charaka was the first physician to present the concept of digestion, metabolism and immunity in his book.

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Iron-Cased Rockets

The first iron-cased rockets were developed in the 1780s by Tipu Sultan of Mysore who successfully used these rockets against the larger forces of the British East India Company during the Anglo-Mysore Wars. He crafted long iron tubes, filled them with gunpowder and fastened them to bamboo poles to create the predecessor of the modern rocket.

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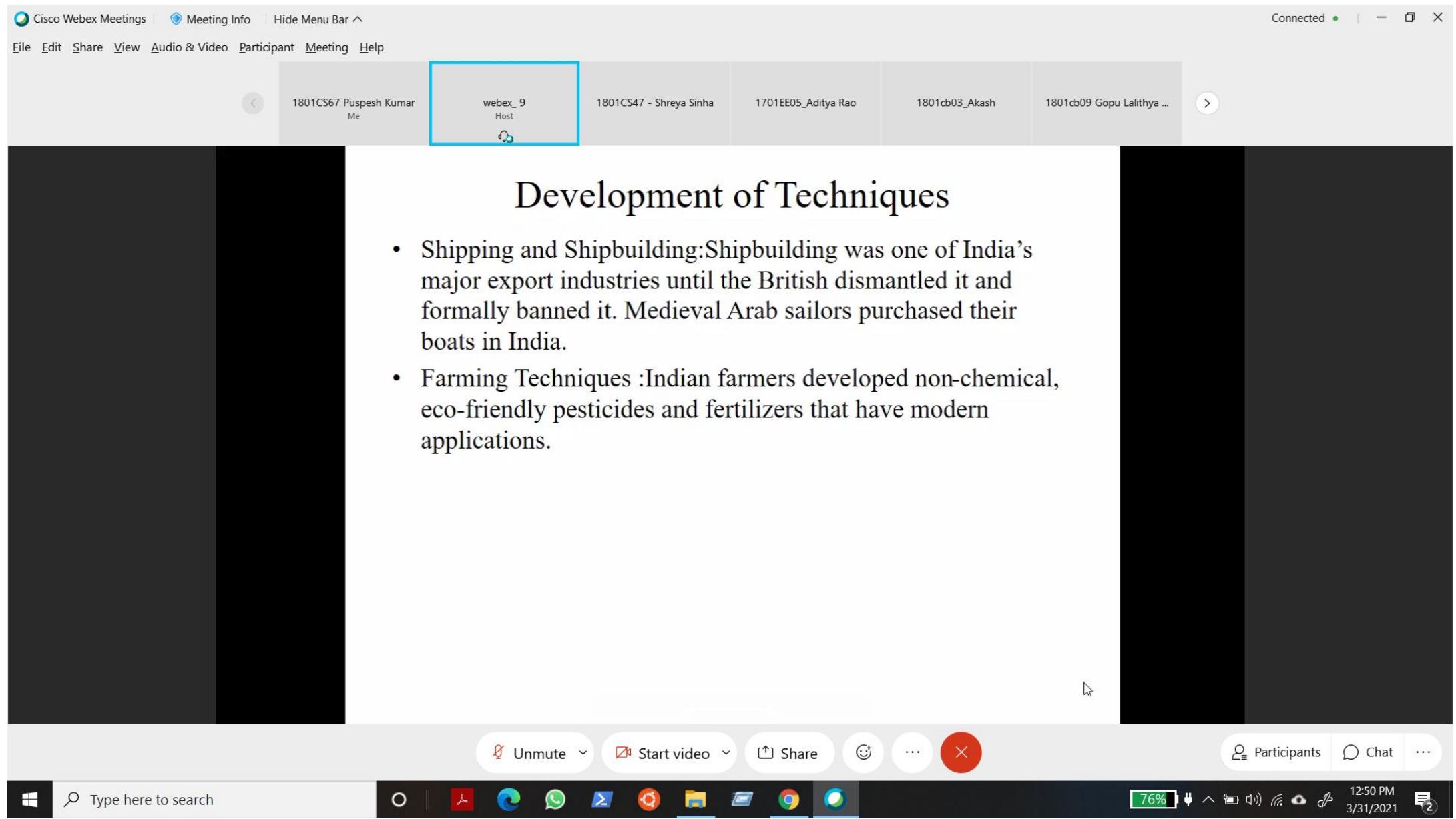
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Development of Techniques

- Shipping and Shipbuilding: Shipbuilding was one of India's major export industries until the British dismantled it and formally banned it. Medieval Arab sailors purchased their boats in India.
- Farming Techniques : Indian farmers developed non-chemical, eco-friendly pesticides and fertilizers that have modern applications.
- Water Management: Given the importance of fresh water in India, it is no surprise that the technologies to manage water resources were highly advanced from Harappan times onwards

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- Water Management: Given the importance of fresh water in India, it is no surprise that the technologies to manage water resources were highly advanced from Harappan times onwards
- Textiles: Indian textiles have been legendary since ancient times. The Greeks and Romans extensively imported textile from India

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Physics and Mechanics in Indian Heritage

Ancient Indian literature had broadly discussed :

- Elasticity.
- Fluidic Motion
- Viscosity.
- Hydrostatics

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Physics and Mechanics in Indian Heritage

Ancient Indian literature had broadly discussed :

- Elasticity.
- Fluidic Motion
- Viscosity.
- Hydrostatics
- Heat.
- Magnetism.
- Electricity
- Machines and Mechanical Contrivances.

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1 ★ 

2 ★ **Introduction**
A developing country also known as a **less developed country** (LDC) is a nation with a low level of industrialized industrial base and less development. Development indicators are measured by the UN, World Bank and World Bank.

3 ★ **Conclusion**
Technology has played a significant role in the development of less developed countries. It has helped in agriculture, health and education, infrastructure, water and environment.

4 ★ **Less Developed Countries**
Less developed countries have **standardized** their ability to innovate and develop by doing so, increasing public funding to help finance the development of new areas.

5 ★ **REFERENCES**
1. Developed countries are still lacking in integrating technology which is applied by and large for all.

2. Lack of technology in education - e library, internet facility, educational appliances, laboratories.

3. Less investment in Research and Development.

4. Inadequate communication.

5. Lack of research capacity.

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Introduction

➤ A **developing country**, also known as a **less-developed country** (LDC), is a nation with a low living standard, undeveloped industrial base, and low Human Development Index(HDI) relative to developed countries (UN Economic and Social Affairs)

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Introduction

- A **developing country**, also known as a **less-developed country** (LDC), is a nation with a low living standard, undeveloped industrial base, and low Human Development Index(HDI) relative to developed countries (UN Economic and Social Affairs)
- There are currently [47 countries](#) on the [list of LDCs](#) which is reviewed every three years by the [Committee for Development \(CDP\)](#).
- India, Afghanistan, Angola, Bangladesh, Bhutan, Cambodia, etc.

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Cont....

- Technology has shown a significant role in the development of the Western society in various sectors- education, health, infrastructure, agriculture, water and sanitation etc.
- Developed countries have developed their ability to innovate and learning by doing, by investing public funding to help finance research and development in critical areas.

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Less developed countries are still suffering to integrate advanced technologies into their system. Most prominent reasons which is applicable by and large for all LDC'S -

- Socio-economic and political reasons
- Lack of technology in education, (e-library, internet facility, electrical appliance, laboratories)
- Less investment in Research and Development
- Transport and communication
- Lack of trained manpower
- Brain Drain

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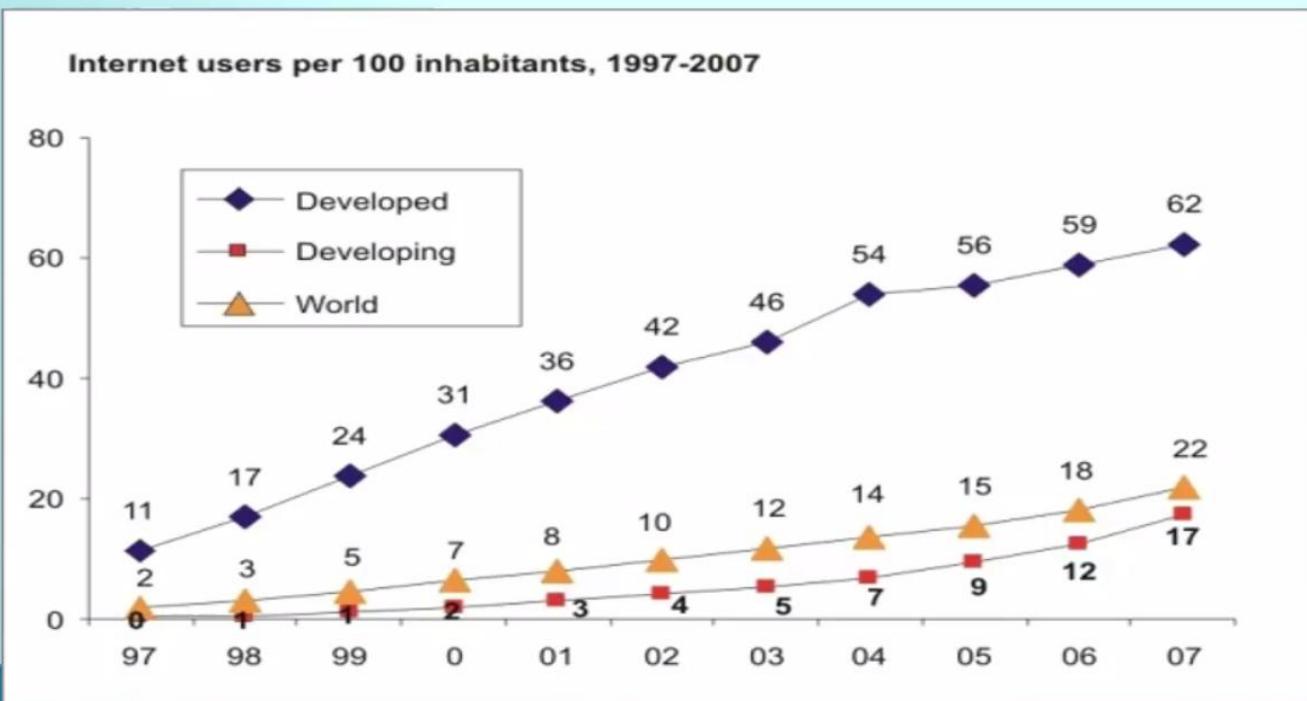


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COMPARISON BETWEEN INTERNET USER IN DC AND LDC'S



ICT STATISTICS

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WHY LESS DEVELOPED COUNTRIES NEED TO IMPROVE THEIR SCIENCE AND TECHNOLOGY??

- First, local technological capacity needs to adapt the imported technology so that it becomes more efficient for local people.
- Second, technology imported from industrialized countries is often inappropriate for the different conditions in less-developed countries (LDCs). The imported technology tends to be capital-intensive and large scale and often produces sophisticated high income products which are not easily affordable.



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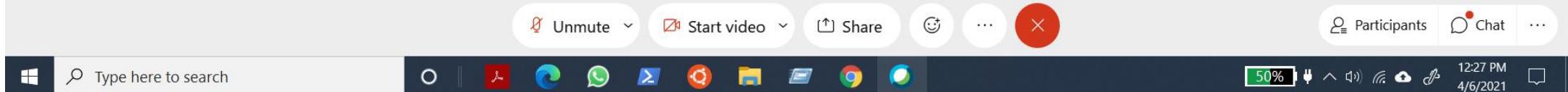
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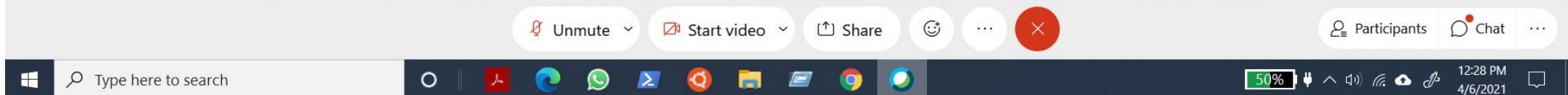
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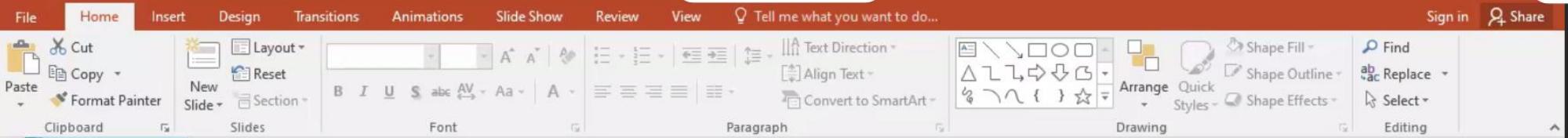
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- Third, technological dependence are-
 - ❖ technical- stagnation, distorted economic development



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 - ❖ inefficient use of imported technology, and most importantly
 - ❖ erosion of local control and governmental bargaining power.





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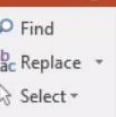
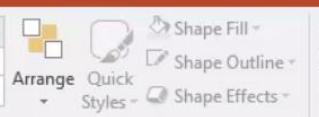
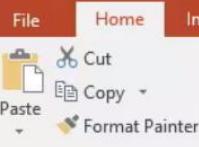


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ROLE OF EDUCATION

- Education and technology go hand in hand.
- Technology can support the development of skills and knowledge, and also provide non-formal education in several different ways.
- ICT is one such instructional media.
- Computer software, hardware, and other technology-supported resources, such as radio and television, can make education more accessible and effective.
- Curriculum - Science courses designed for less developed countries might prove helpful in the field of science and technology for students.

USE OF VARIOUS TECHNOLOGY LIKE MOBILE, INTERNET

WGI: World Internet Observatory (2008)

USE OF ICT

APPROPRIATE TECHNOLOGY

Appropriate for less developed countries. Most appropriate of all are small-scale, low-technology, specialized Hybrids. (1991)

All countries in India and developing countries by various standards like M. G. Ramachandran, and others, have access to the internet.

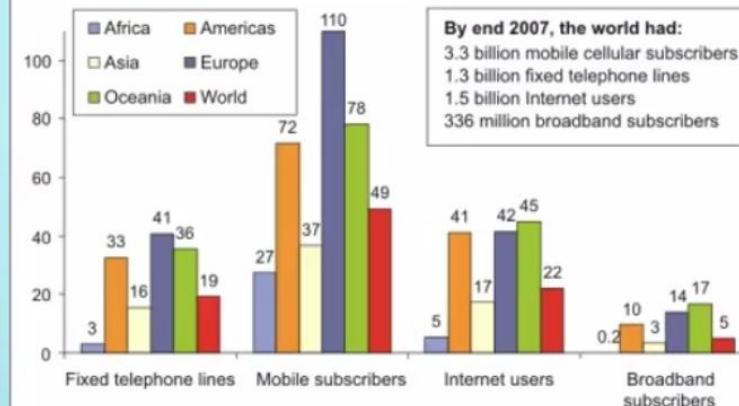
All are using that internet access in a framework which is designed to work for and for the development of society.

Finally one need "what are we taking up initiative, making our decisions, try to judge how this action or decision is going to affect the people in the people in the society."

SOME IMAGES OF APPROPRIATE TECHNOLOGY

USE OF ICT

ICT penetration rates per 100 inhabitants, 2007



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14IN INDIA Beyond the Asia Pacific region, India ranks eighth in the world, of production and solution centers for the science and technology. Science and technology (S&T) are taken into account (Brahma 1997: 275, Krishnam and Venkatesan 1993). The total area of Indian wheat is gradually reduced and agricultural land in India has been reduced from year 19 to 1962, and 1970 are increased as other countries are increasing their land area. Agroforestry and are well above any other developing countries. However, China and South Korea represent the other key players in the field of agriculture innovation in the field of Science and Technology.

15 USE IN AGRICULTURE SECTOR India has achieved self-sufficiency in terms of food production with the help of science and technology. New varieties are driven by science and technology, such as Bt cotton developed in 1990. New variety has been introduced to reduce pest damage. This has led to a significant reduction in yield loss, costs will drop to a greater, high yield varieties. Agricultural Machinery like sprinkler system for irrigation, new farm equipment's which improve efficiency in the field Pesticides- New and improved variety of pesticides been introduced to save farm produce.

16 ★ OFFICIAL STATEMENT: Certain improvements and discoveries will cause people to lose their jobs and property, particularly in local towns and cities of America and Europe has already done. AGRO CHEMICAL COMPANY IMPACT DESTROYING TO REGENERATE LAND THREAT FOR LOCAL SEED HIGH COST MONSANTO BIOTECHNOLOGY

17 ★ TECHNOLOGY USED IN DISSEMINATING INFORMATION GM for environmental issues added more. Known and unknown to media have been exposed. Stanley Annenberg says to provide information about the environment, it is important to know about the use of the revolutionary technology one is today. It can over the world. GMIS (Biosafety)

18 ★ HURDLES IN LDCs Not much of the LDC's economic resources are available for

USE IN AGRICULTURE SECTOR

- India has achieved self-sufficiency in terms of food production with the help of science and technology.
- Now agriculture is driven by science and technology such as -
- Green Revolution- in 1965 new variety has been introduced to feed hungry India e.g. Multiple cropping system, irrigation facility, seeds with superior genetics, high yield varieties.
- Agricultural Machinery- like sprinkler system for irrigation, new farm equipment's- which improve efficiency in the field
- Pesticides- New and improved variety of pesticides been introduced to save farm produce.

Genetically modified crops or HYV seeds EG (Bacillus thuringiensis) BT SEEDS

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INTERVENTIONS NEEDED

Government agencies should take initiative by collaboration with both scientific organizations, financing research projects and training programs of local scientists working in the developing countries according to their own priorities by taking necessary assistance from global Financers like World Bank.

Techno-globalization:

Last, individual scientist and technologist, must devote more time and effort to solving the problems of development in less developed countries by investing more on practical research

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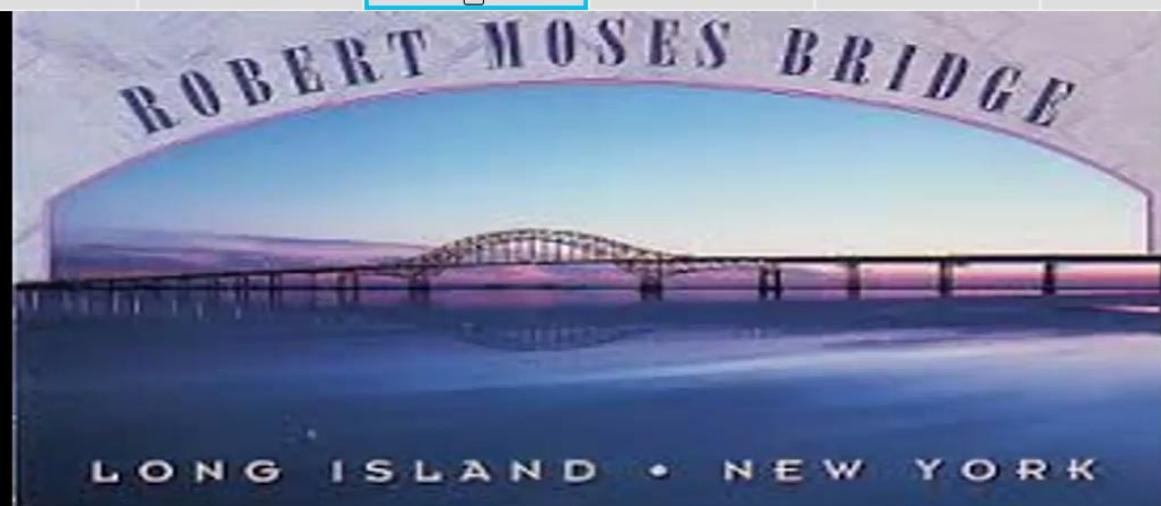
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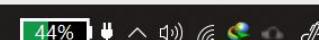


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**What matters is *not* technology itself, but
the social system in which it is embedded.**



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1801cb03_Akash

What matters is *not* technology itself, but the social system in which it is embedded.

- **Authoritarian:** system-centered, immensely powerful, but inherently unstable
- **Democratic:** WO(men)-centered, relatively weak, but resourceful and durable.

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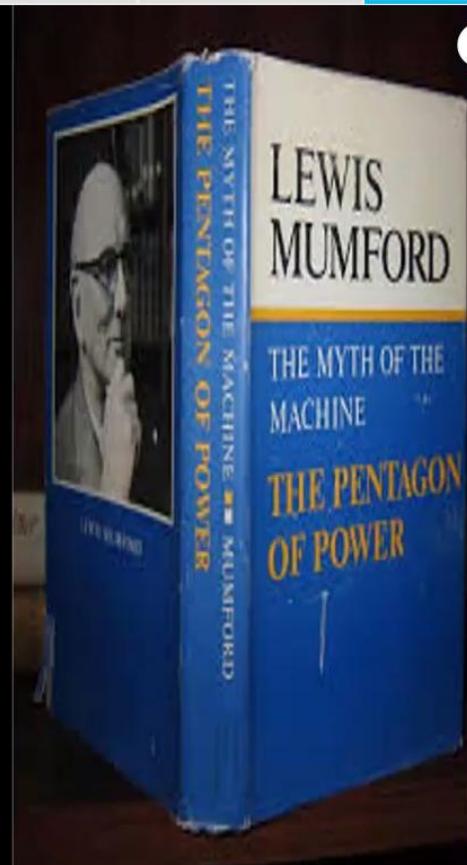
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"In the act of 'conquering nature' our ancestors too often treated the earth contemptuously, under the delusion that the losses did not matter, since modern man through science and invention would soon fabricate an artificial world infinitely more wonderful than the one that nature had provided
- an even grosser delusion."



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Inequalities in technoscience



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London
from 1801CS47 Shreya to everyone: 12:08 PM
China
from 1801ee08_aparsh to everyone: 12:08 PM
florida
from 1801EE07_Anmol_Chaddha to everyone: 12:08 PM
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from 1801EE20_JayKabra to everyone: 12:08 PM
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Matthew effect?

- The Matthew effect of accumulated advantage, described in Sociology, is a phenomenon sometimes summarized by the adage that “the rich get richer and the poor get poorer.” The concept is applicable to matters of fame or status, but may also be applied literally to cumulative advantage of technoscience capital.

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Matthew effect?

- The Matthew effect of accumulated advantage, described in Sociology, is a phenomenon sometimes summarized by the adage that “the rich get richer and the poor get poorer.” The concept is applicable to matters of fame or status, but may also be applied literally to cumulative advantage of technoscience capital.
- The term was coined by Sociologist Robert King Merton in 1968 and takes its name from the parable of the talents in the biblical Gospel of Matthew. Merton credited his collaborator Harriet Zuckerman, as co-author of the concept of the Matthew effect (Matilda Effect)

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Matilda Effect

- Addresses sexist discrimination in the world of science and technology.
- What percentage of Nobel Prize, for instance, has gone to women compared to men?

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- Matilda Joslyn Gage

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The Matthew effect in science: cumulative advantage and the symbolism of intellectual property (Merton 1988)

- **Cumulative advantage in science:** Refers to the social processes through which various kinds of opportunities for scientific inquiry as well as the subsequent symbolic and material rewards for the results of that inquiry tend to accumulate for individual practitioners of science, as they do also for organizations engaged in scientific work.

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The Matthew effect in science: cumulative advantage and the symbolism of intellectual property (Merton 1988)

- **Cumulative advantage in science:** Refers to the social processes through which various kinds of opportunities for scientific inquiry as well as the subsequent symbolic and material rewards for the results of that inquiry tend to accumulate for individual practitioners of science, as they do also for organizations engaged in scientific work.
- Directs our attention to the ways in which initial comparative advantages of trained capacity, structural location, and available resources make for successive increments of advantage such that the gaps between the haves and have-nots in science (as in other domains of social life) widen until dampened by countervailing processes.

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- **Intellectual property in science:** Merton proposed the seeming paradox that in science, private property is established by having its substance freely given to others who might want to make use of it.
- Certain institutionalized aspects of this property system, chiefly in the form of public acknowledgment of the source of knowledge and information thus freely bestowed on fellow scientists, relate to the social and cognitive structures of science in interesting ways that affect the collective advancement of scientific knowledge.

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For example, a prize will almost always be awarded to the most senior researcher involved in a project, even if all the work was done by a graduate student

- **Intellectual property in science:** Merton proposed the seeming paradox that in science, private property is established by having its substance freely given to others who might want to make use of it.
- Certain institutionalized aspects of this property system, chiefly in the form of public acknowledgment of the source of knowledge and information thus freely bestowed on fellow scientists, relate to the social and cognitive structures of science in interesting ways that affect the collective advancement of scientific knowledge.
- The world is peculiar in this matter of how it gives credit. It tends to give the credit to already famous people.

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Explaining....

- It is such patterns of the misallocation of recognition for scientific work that Merton described as “the Matthew effect”. The not quite foreordained term derives, of course, from the first book of the New Testament, the Gospel according to Matthew (13: 12 and 25:29). In the stately prose of the King James Version, created by what must be one of the most scrupulous and consequential teams of scholars in Western history , the well-remembered passage reads: “For unto everyone that hath shall be given, and he shall have abundance; but from him that hath not shall be taken away even that which he hath.”

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Further...

- The Matthew effect is the accruing of large increments of peer recognition to scientists of great repute for particular contributions in contrast to the minimizing or withholding of such recognition for scientists who have not yet made their mark.

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Effect...

- Special problems in the accumulation of advantage and disadvantage that derive from an institutionalized bias in favor of precocity.
- The advantages that come with early accomplishment taken as a sign of things to come stand in Matthew-like contrast to the situation confronted by young scientists whose work is judged as ordinary.

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Effect...

- Special problems in the accumulation of advantage and disadvantage that derive from an institutionalized bias in favor of precocity.
- The advantages that come with early accomplishment taken as a sign of things to come stand in Matthew-like contrast to the situation confronted by young scientists whose work is judged as ordinary.
- Such early prognostic judgments lead in some unknown fraction of cases to inadvertent suppression of talent through the process of the self-fulfilling prophecy.

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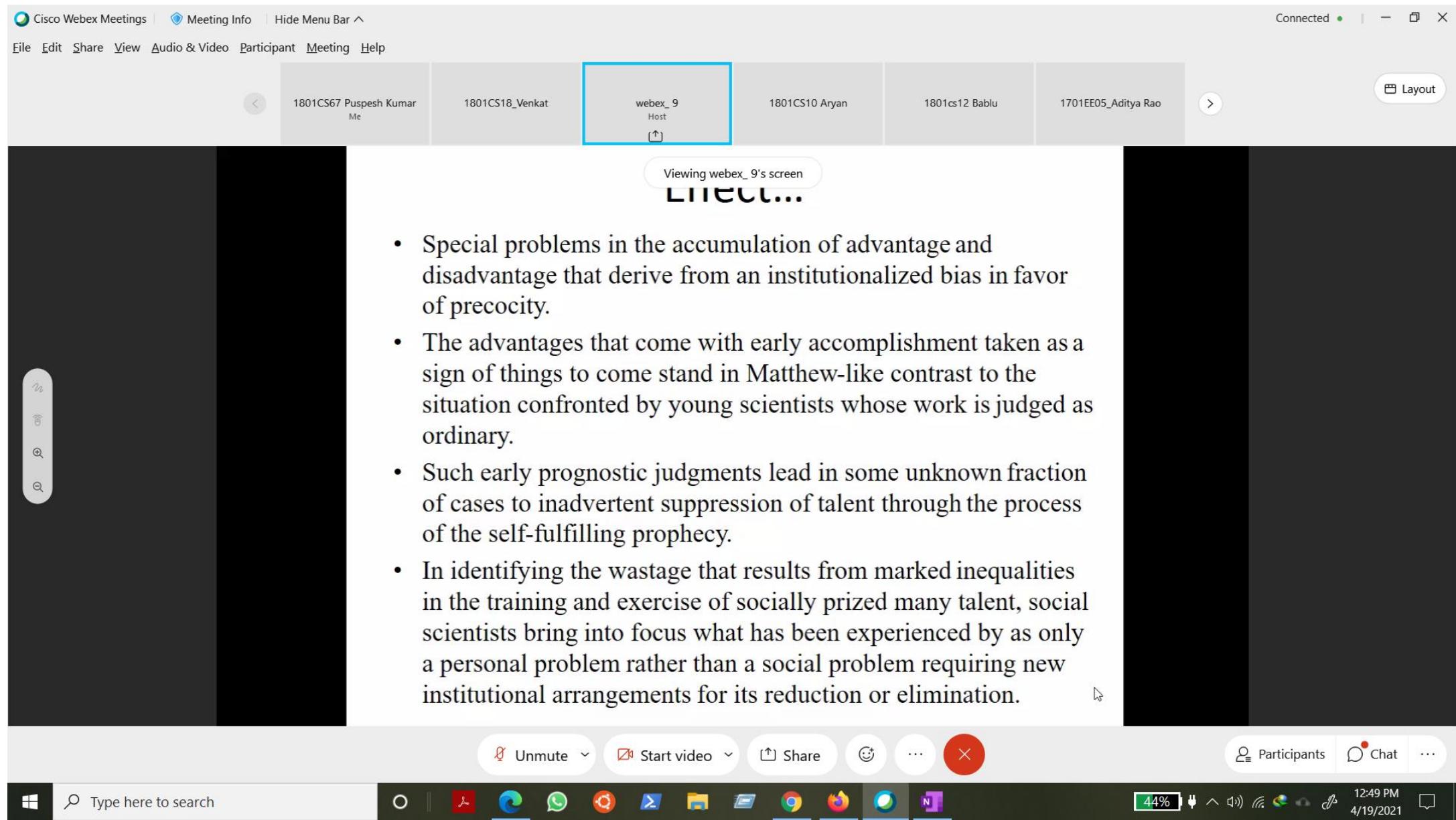
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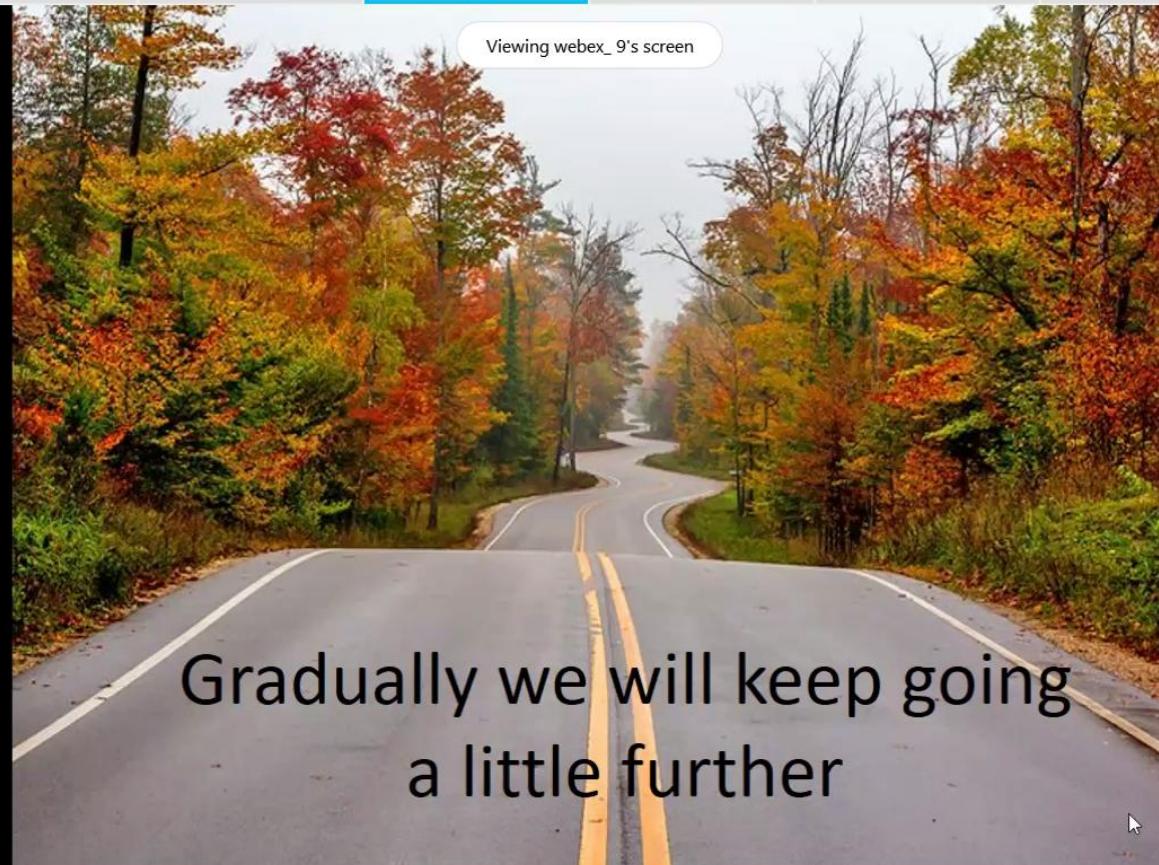
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Gradually we will keep going
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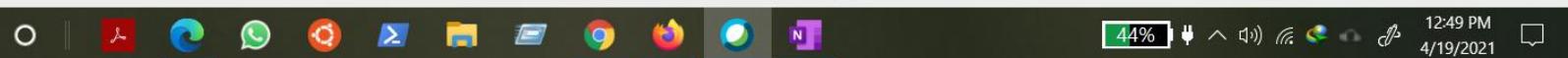


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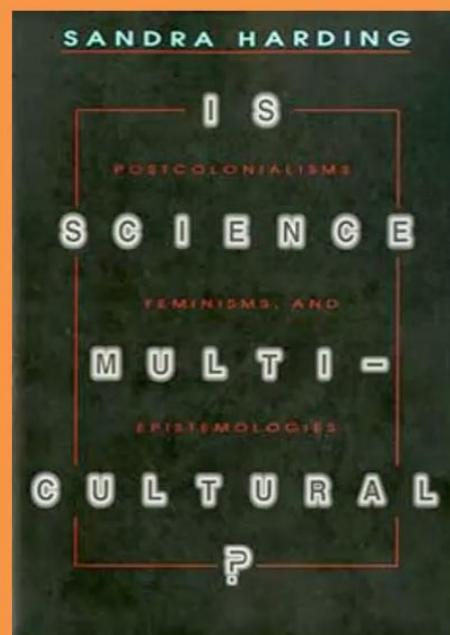


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From where this concept arise??



The book cover features a dark background with white and red text. At the top, it says "SANDRA HARDING". Below that is a red-bordered box containing the letters "I S" at the top, "SCIENCE" in the middle, and "CULTURAL" at the bottom. Between "SCIENCE" and "CULTURAL" is the word "MULTI-". Above "SCIENCE" is the word "POSTCOLONIALISM". Below "SCIENCE" is "FEMINISMS, AND". Below "CULTURAL" is "ERISTEMOLOGIES".

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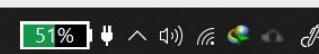
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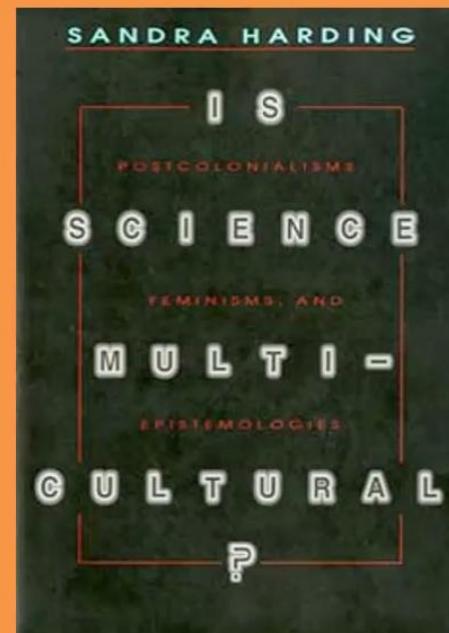
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From where this concept arise??



- How the philosophies and ideologies of science and technology can be reshaped by inculcating the local aspects of knowledge production?
 - How to locate the role of post-colonial science and technology in making science a plural entity by challenging the western ideologies?
 - What are the properties of postcolonial technoscience? What makes it distinct from western philosophy of technoscience?

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Brief Profile of the Author



- **Sandra Harding** is a Professor at the University of California, Los Angeles since 1996.
- Renowned feminist, philosopher, and standpoint theorist.
- Developed the concept of **strong objectivity**
- Pioneered the thought of **standpoint methodology**.
- She did her Bachelors from Douglass College of Rutgers University and PhD in Philosophy from New York University.
- <https://gseis.ucla.edu/directory/sandra-harding/>

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Methodology adopted by Harding S

- Comparative analysis between the technoscience(s) of the western world and the third world by studying the past theories done on the epistemology of technoscience.



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Methodology adopted by Harding S

- Comparative analysis between the technoscience(s) of the western world and the third world by studying the past theories done on the epistemology of technoscience.
- Historical evidences of industrial revolution of Europe have been reviewed.



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Why to question the Science of the “west” or modern science?

- Western technoscience is victimized by the **androcentric culture**; single handedly managed, theorized and experimented by “rational men”



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Why to question the Science of the “west” or modern science?

- Western technoscience is victimized by the **androcentric culture**; single handedly managed, theorized and experimented by “rational men”
- Consequences of the internalist and relativist nature of technoscience has been seen in the form of atomic attack on Hiroshima and Nagasaki leading to an end of the second World War and introducing mankind to **atomic age**



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Technoscience emerging from below

- Why can't the local knowledge traditions be termed as technoscience??

- ✓ Finding the local basis of knowledge construction is needed for understanding the nature of technoscience through the viewpoint of **post-colonial societies like us**



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Why Post-colonial perspective is important for understanding technoscience??

- In the third world, 1940s- 50s brought major turning point in the history of scientific knowledge by giving platform to the colonized for finding the **multicultural roots of their technoscience**.



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Why Post-colonial perspective is important for understanding technoscience??

- In the third world, 1940s- 50s brought major turning point in the history of scientific knowledge by giving platform to the colonized for finding the **multicultural roots of their technoscience**.
- **Industrialization** by the colonizers led to a **rapid decline in local knowledge and traditions of the colonized**.
- West used **science and industrial revolution as a tool to suppress and control the colonies**, for instance; the introduction of railways in India was meant to accumulate resources.



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from 1801me62 Varun to everyone: 12:23 PM
yes sir
from 1801CE06_chetram nakwal to everyone: 12:23 PM
yes sir
from 1801EE07_Anmol_Chaddha to everyone: 12:24 PM
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from 1801me11_Anisha Benny to everyone: 12:24 PM
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from 1801cb23_Shubham kumar to everyone: 12:24 PM
yes sir
from 1801CS13_Balbeer to everyone: 12:27 PM
sir perhaps the new strain is not properly detected by old testing method... many people in my hometown and college as well are facing similar problem
from 1801EE22_Kishan to everyone: 12:27 PM
Sir as per latest statistics the RT-PCR test is giving a lot of false negative result this time

To: Everyone

they were tested negative. New strain is not properly detected as test kits are older. Currently if oxygen |

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To: Everyone

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Basis of Post-colonial science and technology



- Cultures have not only exchanged shells, beads, seeds, and goods but also “**scientific and technological ideas**”
- Conceptual framework of postcolonial science and technology is organized from the standpoint of the “**subalterns**”
- Provides a platform to look at science from **non-Eurocentric perspective**

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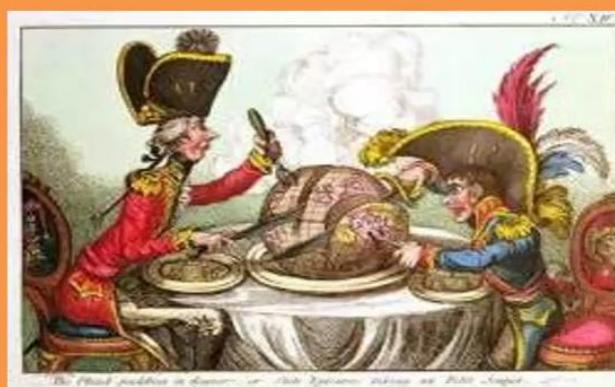
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Answer:

- Dualism present in the societies hidden in the practice of **Eurocentrism** has defined the borders between “**real sciences**” and “**not really sciences**”



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from 1801CS13 - Balbeer to everyone: 12:27 PM
sir perhaps the new strain is not properly detected by old testing method... many people in my hometown and college as well are facing similar problem
from 1801EE22_Kishan to everyone: 12:27 PM
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from 1801ee08_aparsh to everyone: 12:34 PM
are those fruits on head?

To: Everyone

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Mewebex_9
Host
(

Madhu

1801cs12 Bablu

1701EE05_Aditya Rao

1801cb03_Akash

Answer:

- Dualism present in the societies hidden in the practice of **Eurocentrism** has defined the borders between “**real sciences**” and “**not really sciences**”
- West has conceptualized non-European science as **ethno-sciences** embedded in religious and local belief systems with ‘**folk explanations**’



10

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yes sir
from 1801CS47 Shreya to everyone: 12:24 PM
Sir me
from 1801cs69_vanshika srivastava to everyone: 12:24 PM
yes sir
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Contrast between modern science and postcolonial science: through the lens of Eurocentrism

Western Science

- Enlightened
- Progressive
- Has highest standards of objectivity and rationality
- Practiced in laboratories, field sites or on computers

Post-colonial science

- Non rational
- Myth
- Based on pre-logical thought



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from 1801CS47 Shreya to everyone: 12:39 PM
nicely put Yuvi

To: Everyone

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**If you break the laws of
man,you go to jail.**

**If you break the laws of
God, you go to hell.**

**If you break the laws of
physics,you go to Sweden
and get the nobel prize.**

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How to value the postcolonial science??

- Through **Strong objectivity** because without the maximization of objectivity, the ideas and culture of the rest of the world will remain unrecognized

Chat

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 Layout

Viewing webex_9's screen

How to value the postcolonial science??

- Through **Strong objectivity** because without the maximization of objectivity, the ideas and culture of the rest of the world will remain unrecognized
- Different cultures have different knowledge systems and thus **there cannot be a single perfect knowledge base**
- Need to develop an ideology based on the **standpoint of the have not's** so that a reframing of the Eurocentric framework can be done

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Contd..

- Growth of technological knowledge is not necessarily dependent upon the growth of scientific knowledge
 - Eg: use of baby back packs, pulley for drawing waters, and other **appropriate technology tools**
- **Valuing post colonial narratives and recognition of local knowledge** can bring changes in the dynamism of development based on the multicultural nature of science



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- **Post colonialism and feminism** can be used as '**thinking spaces**' stimulated by changes in social relations

15

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- **Post colonialism and feminism** can be used as '**thinking spaces**' stimulated by changes in social relations
- These thinking spaces can be aided as a platform to ask questions about the prevailing inequalities and hidden issues in the post colonized societies which remained neglected earlier

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