



ROLE OF ICT IN PRESENT CONTEXT AND MODERN TRENDS IN ICT

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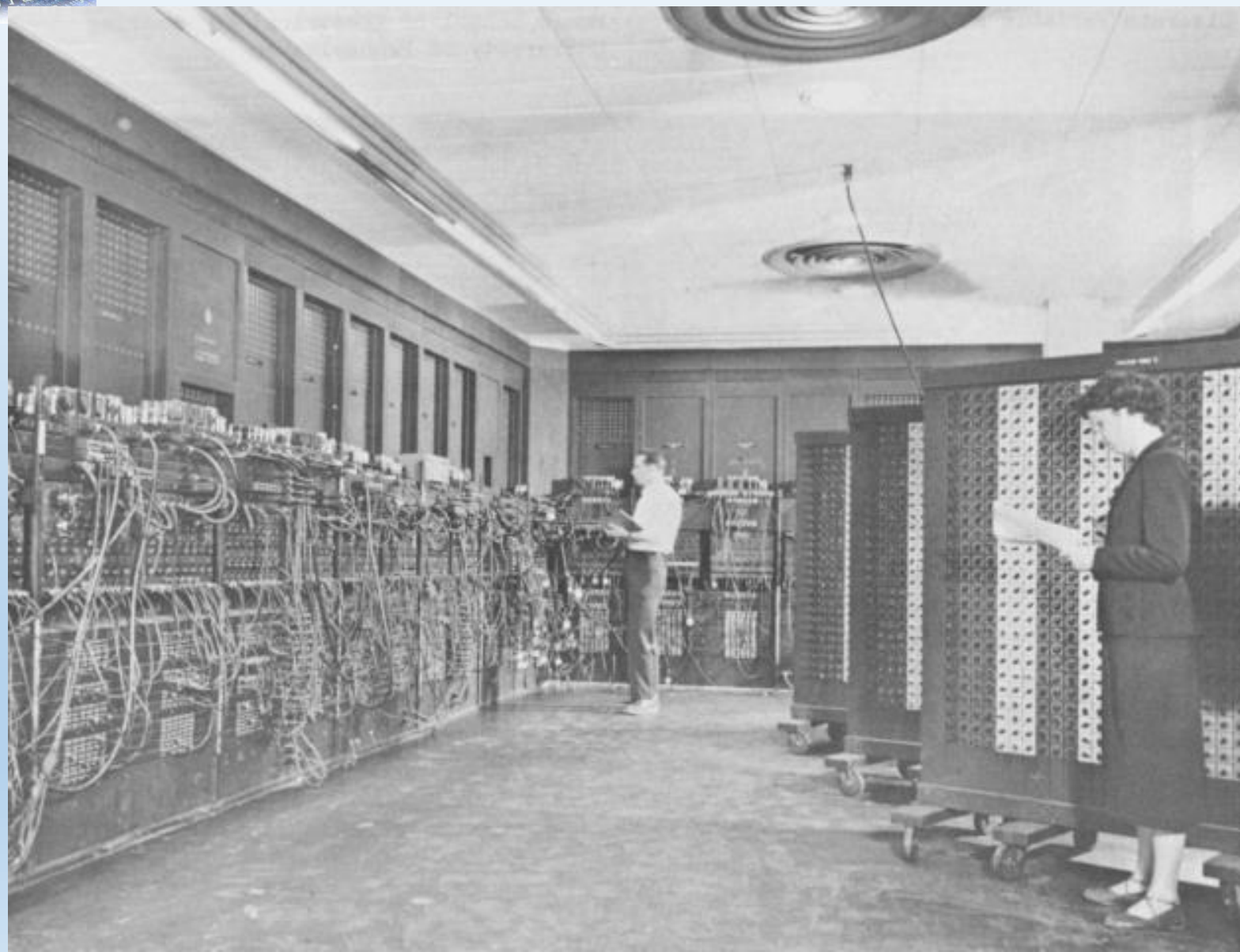
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ENIAC







अनुमान, आकडा र तथ्यहरु मिथक बन्दै
छन ।



“मलाई लाग्छ, विश्व बजारमा बढिमा पाचै कम्प्युटर भएमा पुग्छ
होला”

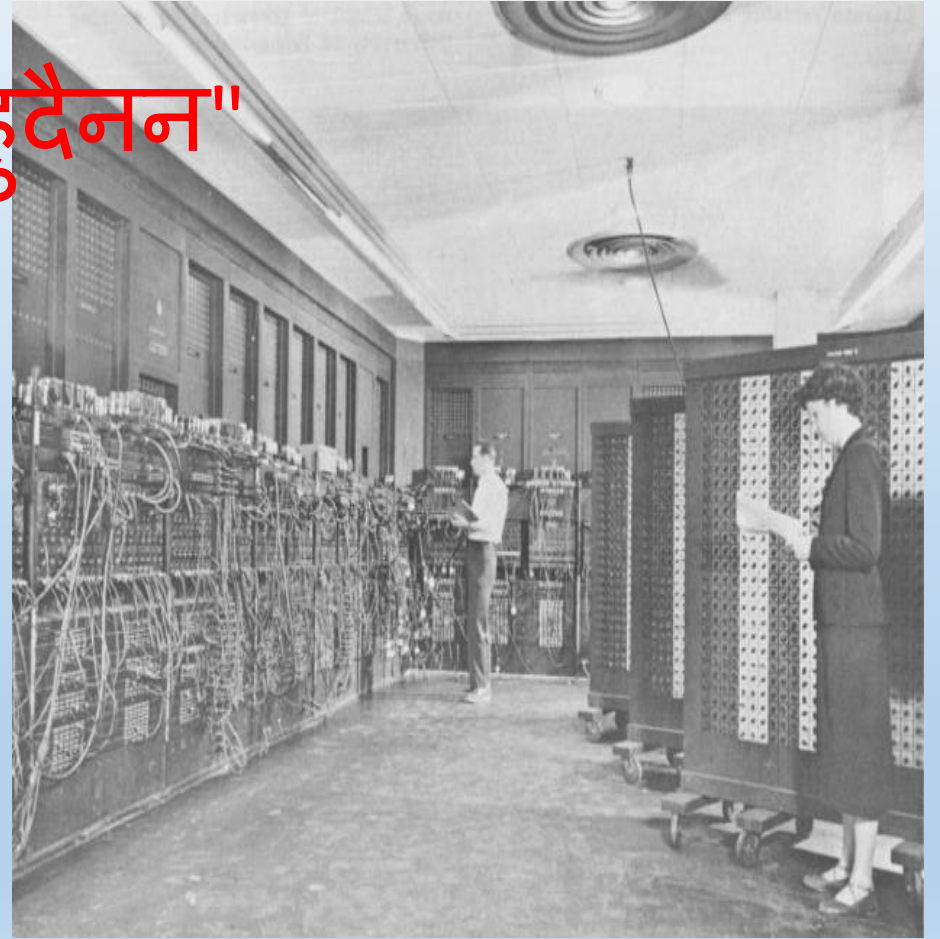
--Thomas Watson, chairman of IBM, 1943

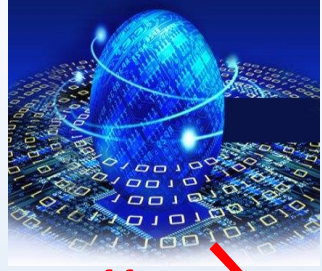


“भविष्यका कम्प्यूटर सायद

1.5 tons भन्दा साना हुदैनन”

-Popular Mechanics,
forecasting the relentless
march of science, 1949





“जो कोही लागि पनि 640KB को
साईज प्रयाप्त छ .” -- Bill Gates, 1981





तर Now.....



Tablet



Laptop



Smart Phone

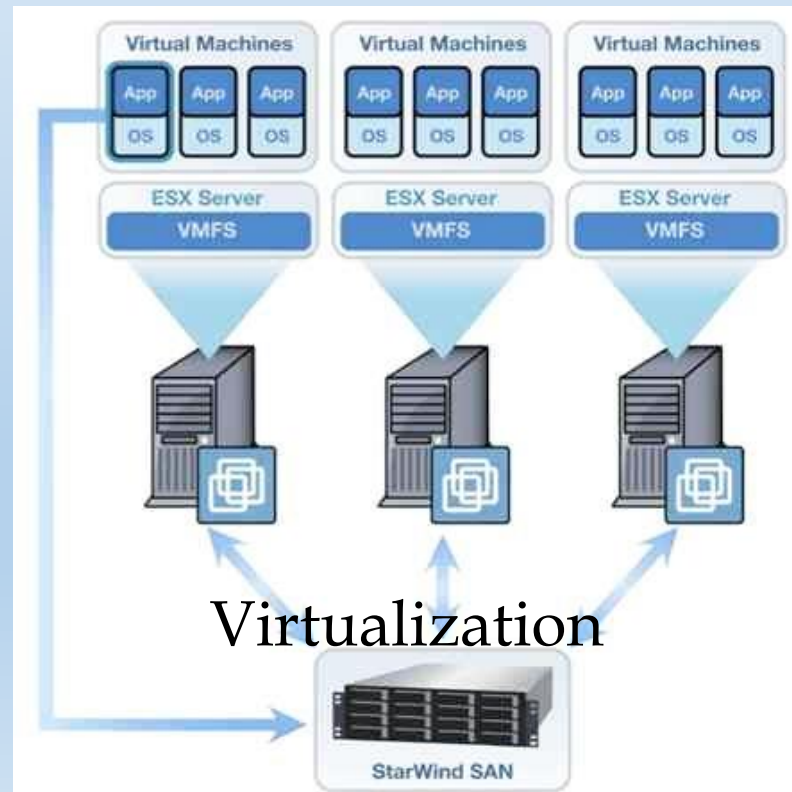
Rolls Royce Car





If automobile industries have developed like computer industries

- Cost wise: Rolls Royce car should be available at 5 cents (Present cost around 40,000 US dollars)**
- Performance wise: should run around 200 million Kilometers/Liter**





INDUSTRY

- **Product based**
- **Knowledge based (Knowledge worker)**



The Top Jobs For 2019(Forbes)

- **1. Software Developers (Applications and Systems Software)**

Total employment in 2013: 1,042,402 jobs

Jobs added between 2010 and 2013: 104,348 (up 11%)

Median hourly earnings: \$45.06

- **2. Market Research Analysts and Marketing Specialists**

Total employment in 2013: 438,095 jobs

Jobs added between 2010 and 2013: 54,979 (up 14%)

Median hourly earnings: \$29.10



- **3. Training and Development Specialists**

Total employment in 2013: 231,898 jobs

Jobs added between 2010 and 2013: 18,042 (up 8%)

Median hourly earnings: \$27.14

- **4. Financial Analysts**

Total employment in 2013: 257,159 jobs

Jobs added between 2010 and 2013: 17,060 (up 7%)

Median hourly earnings: \$37.34



- **5. Physical Therapists**

Total employment in 2013: 207,132 jobs

Jobs added between 2010 and 2013: 14,011 (up 7%)

Median hourly earnings: \$37.93

- **6. Web Developers**

Total employment in 2013: 136,921 jobs

Jobs added between 2010 and 2013: 13,364 (up 11%)

Median hourly earnings: \$27.84

- **7. Logisticians**

Total employment in 2013: 127,892 jobs

Jobs added between 2010 and 2013: 11,897 (up 10%)

Median hourly earnings: \$35.08



- **8. Database Administrators**

Total employment in 2013: 119,676 jobs

Jobs added between 2010 and 2013: 11,241 (up 10%)

Median hourly earnings: \$37.39

- **9. Meeting, Convention and Event Planners**

Total employment in 2013: 87,082 jobs

Jobs added between 2010 and 2013: 10,867 (up 14%)

Median hourly earnings: \$22.56

- **10. Interpreters and Translators**

Total employment in 2013: 69,887

Jobs added between 2010 and 2013: 8,377 (up 14%)

Median hourly earnings: \$22.39



- **11. Petroleum Engineers**

Total employment in 2013: 40,733

Jobs added between 2010 and 2013: 7,158 (up 21%)

Median hourly earnings: \$63.67

- **12. Information Security Analysts**

Total employment in 2013: 75,995

Jobs added between 2010 and 2013: 5,671 (up 8%)

Median hourly earnings: \$41.62

JAN
2014

GLOBAL DATA SNAPSHOT

Social Media Statistics

7,095,476,818

TOTAL WORLD POPULATION



52%

URBAN

48%

RURAL

2,484,915,152

INTERNET USERS



35%

INTERNET PENETRATION

1,856,680,860

ACTIVE SOCIAL NETWORK USERS



26%

SOCIAL NETWORKING PENETRATION

6,572,950,124

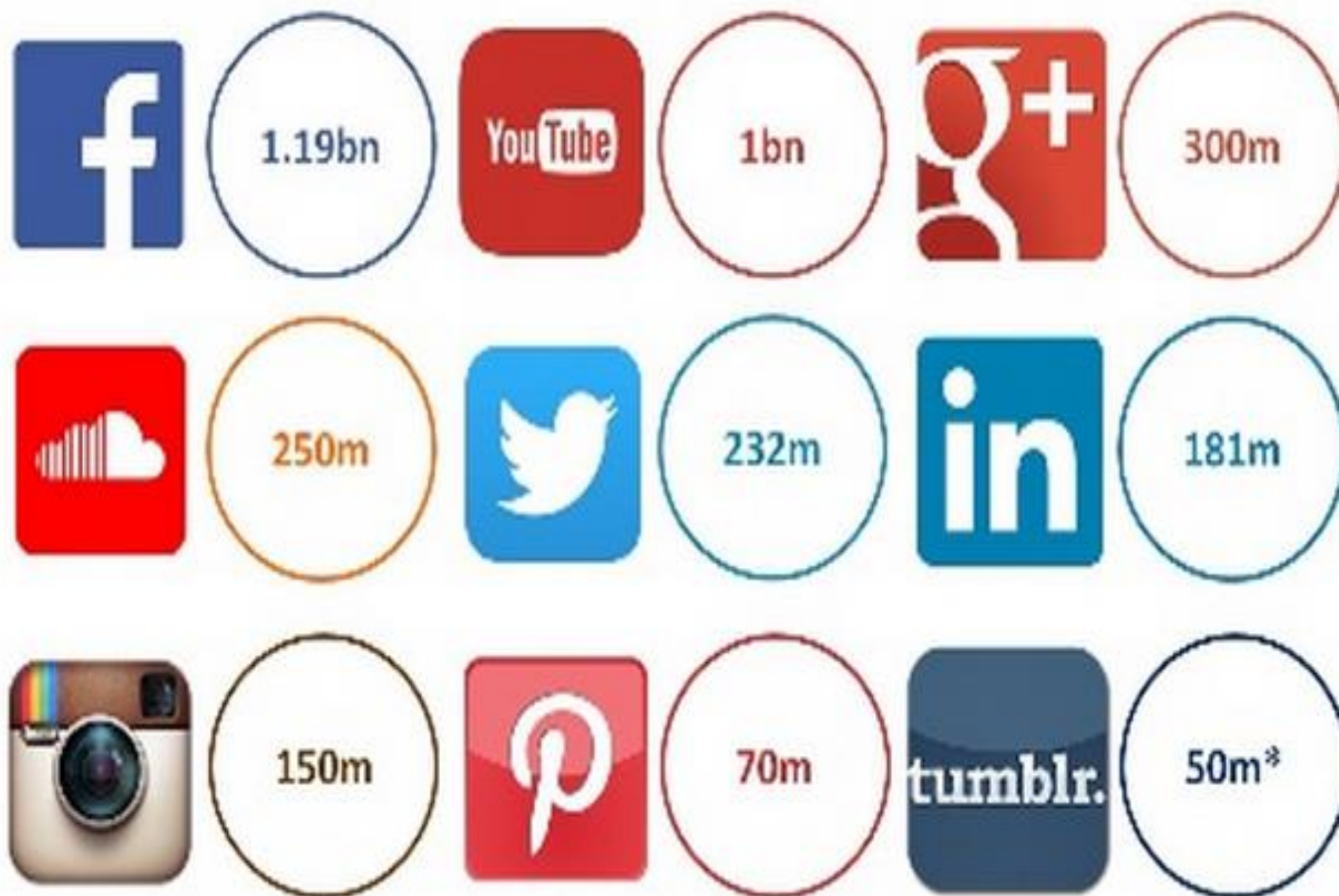
MOBILE SUBSCRIBERS



93%

MOBILE PENETRATION

Active Monthly Users of the 'Big 9'





Academic Education

- **BE Computer Engineering**
- **BSC Computer Science**
- **BE Electronics and Communication Engineering**
- **BIT**
- **BCA**
- **BCIS**
- **BIM**
- **B. ED. ICT**
- **MCA started earlier than BCA**

Microsoft
ASP.net

Powered by
ASP.net 2.0



ASP Active
Server Pages

php

Microsoft
SQL Server

AJAX
Asynchronous Javascript And XML



Microsoft
ASP.net

php

MySQL



Java



Global Village Concept





The Future for ICT

- **Four Glimpses into the Future:**

1. You pull into the dry cleaners on your way to work and check e-mail from your tiny personal computing device as you drop off your shirts.

2. Your e-mail is automatically sorted, with the most urgent messages determined by eight factors, including how quickly you've responded to each sender in the past and your body language as you did so.



The Future for ICT

3. You check in with the office via your earrings, which contain microphones and speakers wirelessly connecting you to a cell phone. Or maybe your earrings *are* the cell phone, and all commands are voice driven.

4. As you settle into your cubicle, a sensor on your employee badge communicates with the office computers, projectors and printers, instantly configuring a network that lets co-workers electronically interact with you.



The Future for ICT



- Satellite positioning for car drivers, tells the driver where they are and where the traffic jams are.
- With greater accuracy could these actually drive the car on the roads avoiding other cars and pedestrians?



The Future for ICT



- A new style WAP telephone.
- Will these be small enough to wear on the wrist, or be the size of a ring?



The Future for ICT



- Flat screen TV's are available now at a price.
- Will everyone have one hanging on the sitting room wall before too long?



The Future for ICT



- Robots are being developed that are smaller and smaller for more detailed jobs.
- Will robots ever be small enough to travel around the human body sending back data and performing operations?



The Future for ICT

- **The Future School:**
- Every student and teacher will carry a "personal communicator".
- All will have access to the Internet and other networks.
- School work will use this new tool as an information source and a communication system.
- Projects will be researched, prepared, delivered and evaluated using this tool.
- Computer studies as we know it will change.



The Future for ICT

- Students will be working in their preferred way - one that matches their own learning style and which they have been developing with teacher support.
- Teachers will work in shifts being available for calls from students in the evenings on the Internet by text, voice or video.
- Schools may become community-style centres operating seven days a week, 24 hours a day.



Finally I do believe that knowledge based industry in the field of computer technology can make valuable contribution in the development of any countries.



Thank you