Information Technology

Introduction to IT

Welcome to the world of **Information Technology**! This presentation will explore the latest trends and innovations in IT, history Devlopment

introduction

Information technology is a contemprary term that describes the combination of computer technology **(hardware and software)** with telecommunications technology **(data, image and voice network's)**

IT has enabled the globalisation of the economy and competion and caused large - scale change in many industries.

It is also bringing a major shift in the job market; resulting in a more polarised occupational structure, consist of

Highly skilled = Well paid jobs

Lower skilled = low wages

Information Technology Timeline

Telegraph Key
Circa 1840

Flat Disk
Gramophone
1887

75,000
B.C.
Rock
Carvings

<4000 B.C.
Hieroglyphics

1500 B.C.
Alphabetic
Writing

1835
Photography

1876
Telephone

1895
Silent Movies

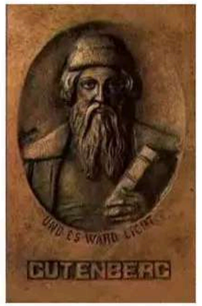
2200 B.C.
Papyrus

1450 A.D.
Printing
Press

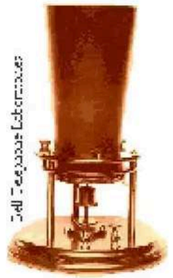
1840
Telegraph

1876
Phonograph

1894 Wireless
Telegraph



Johannes
Gutenberg



Bell's Telephone
1876

Information Technology Timeline cont…

Sputnik
1957

IBM PC
1981

1922 Radio Broadcasts

1947 Transistor

1970s VCR

1977 Apple II Home Computers

1983 CDs

1991 World Wide Web

1940 Black and White TV

1942 ABC

1965 Local Cable TV

1973 Fax Machines

1980s Cell Phones

1990 Digital Photography

1998 MP-3 (Compressed Sound Files)

Fiber Optics
1977

Apple Mac
1984

Software development and computer programming were best left to the computer scientists and mathematical engineers, due to their complicated nature. As time passed and technology advanced, such as with the advent of the personal computer in the 1980s and its everyday use in the home and the workplace, the world moved into the information age

Modern Technology

By the early 21st century, nearly every child in the Western world, and many in other parts of the world, knew how to use a personal computer. Businesses' information technology departments have gone from using storage tapes created by a single computer operator to interconnected networks of employee workstations that store information in a server farm, often somewhere away from the main business site.

Technology facilitate our life

Technology and information may be regarded as two things are mutually binding. Both support functions that are fairly similar. Advances in technology are always facilitate the delivery of information. The rate information from one country can spread rapidly to other countries, even to all countries, through increasingly sophisticated technology.

Advances in information technology provide enormous benefit in human survival. Information technology can provide facilities in various aspects of life. One area of life that has a close relationship with the use of information technology is the world of work.

Information Technology key

- Hardware
- Software
- Networking
- Data managment
- Cyber security
- Emerging Technology

Evolution of Technology

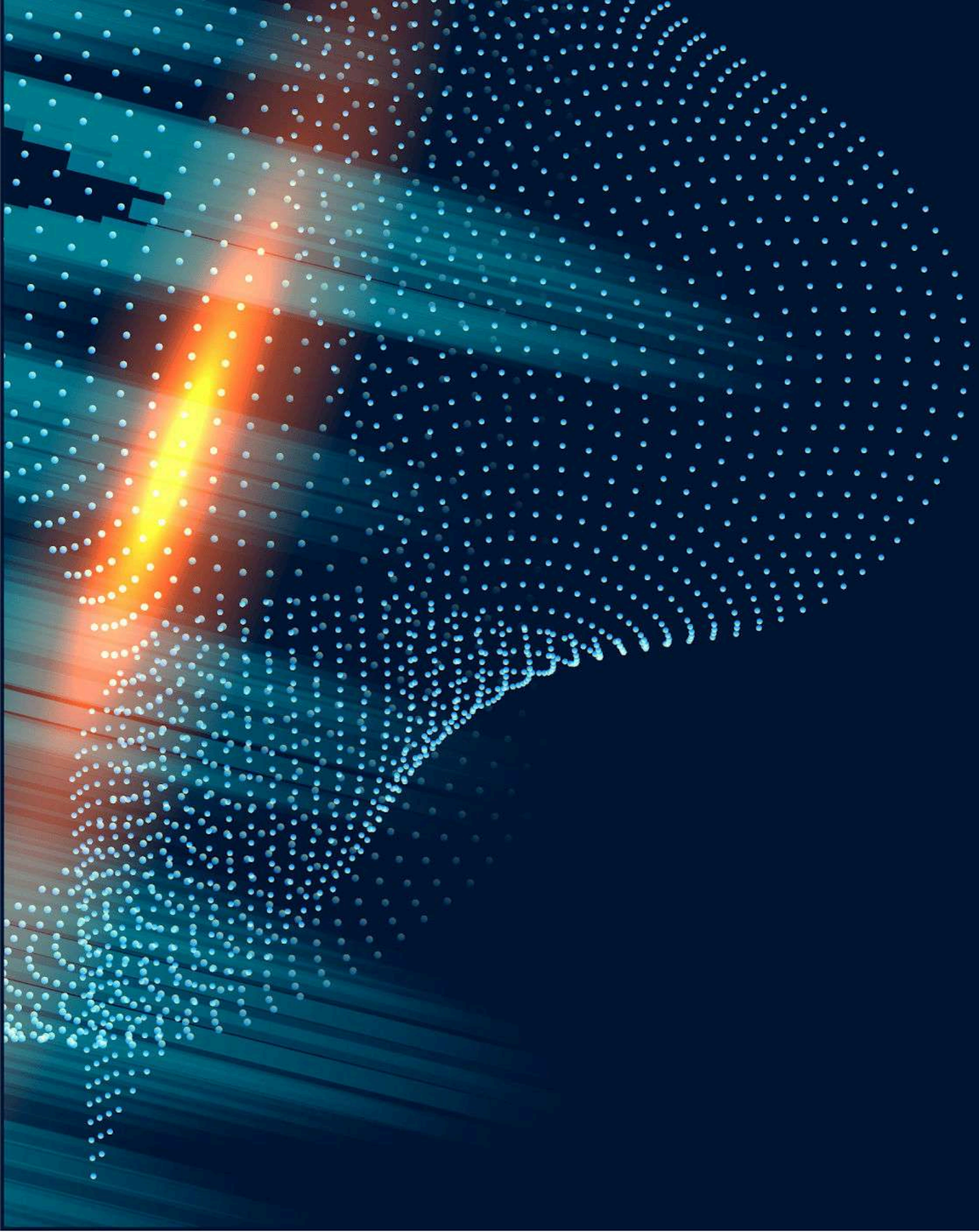
From the invention of the **computer** to the rise of the internet, technology has revolutionized the way we live and work. Explore the key milestones that have shaped the modern IT landscape.

Cybersecurity Challenges

In an interconnected world, **cybersecurity** is a critical concern. Learn about the evolving threats and the measures organizations are taking to safeguard their digital assets.

The Cloud Revolution

Cloud computing has transformed the way businesses operate, offering **scalability** and flexibility. Discover the benefits and challenges of migrating to the cloud.



Artificial Intelligence

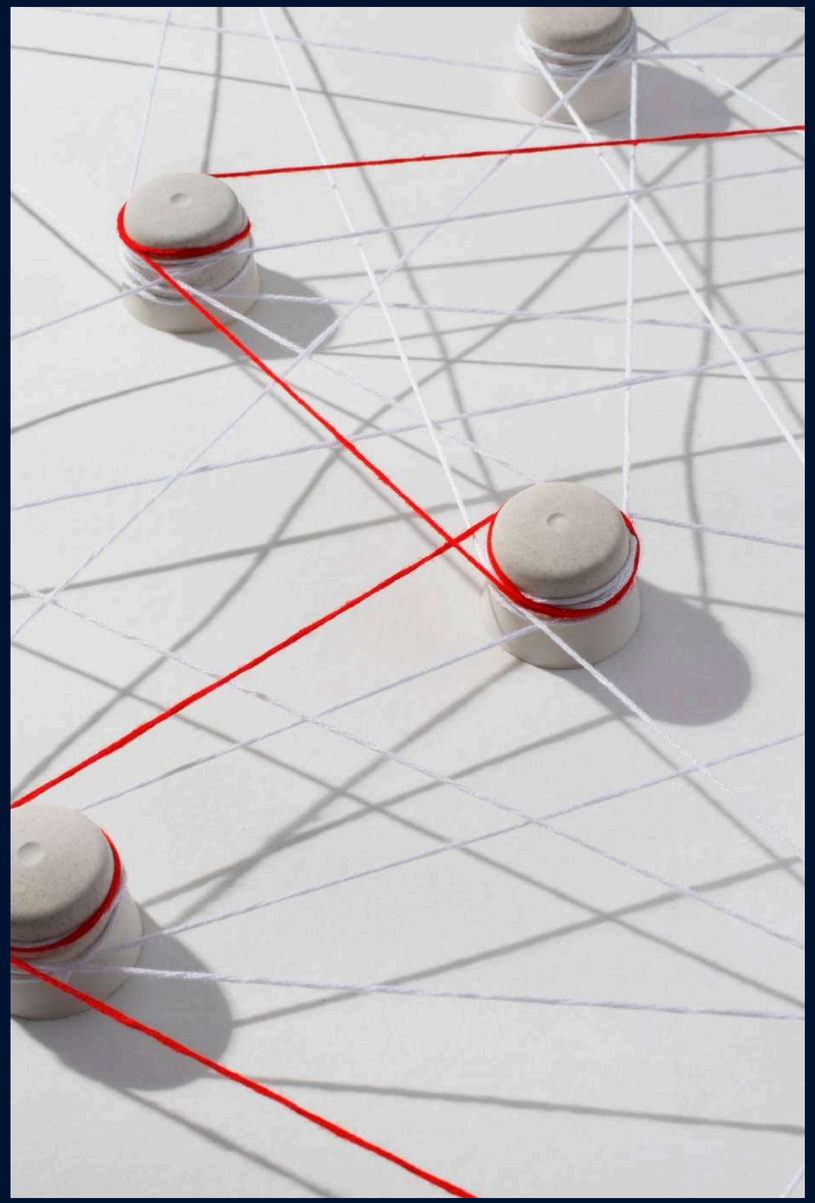
The rise of **Artificial Intelligence** is reshaping industries and enhancing productivity. Explore the applications of AI and its potential impact on the future of work.

Internet of Things (IoT)

The **IoT** has connected devices and systems, creating new possibilities for automation and data analysis. Learn about the opportunities and challenges of the IoT ecosystem.

Big Data Analytics

Data has become a valuable asset, driving insights and innovation. Discover how **big data analytics** is revolutionizing decision-making and transforming businesses.



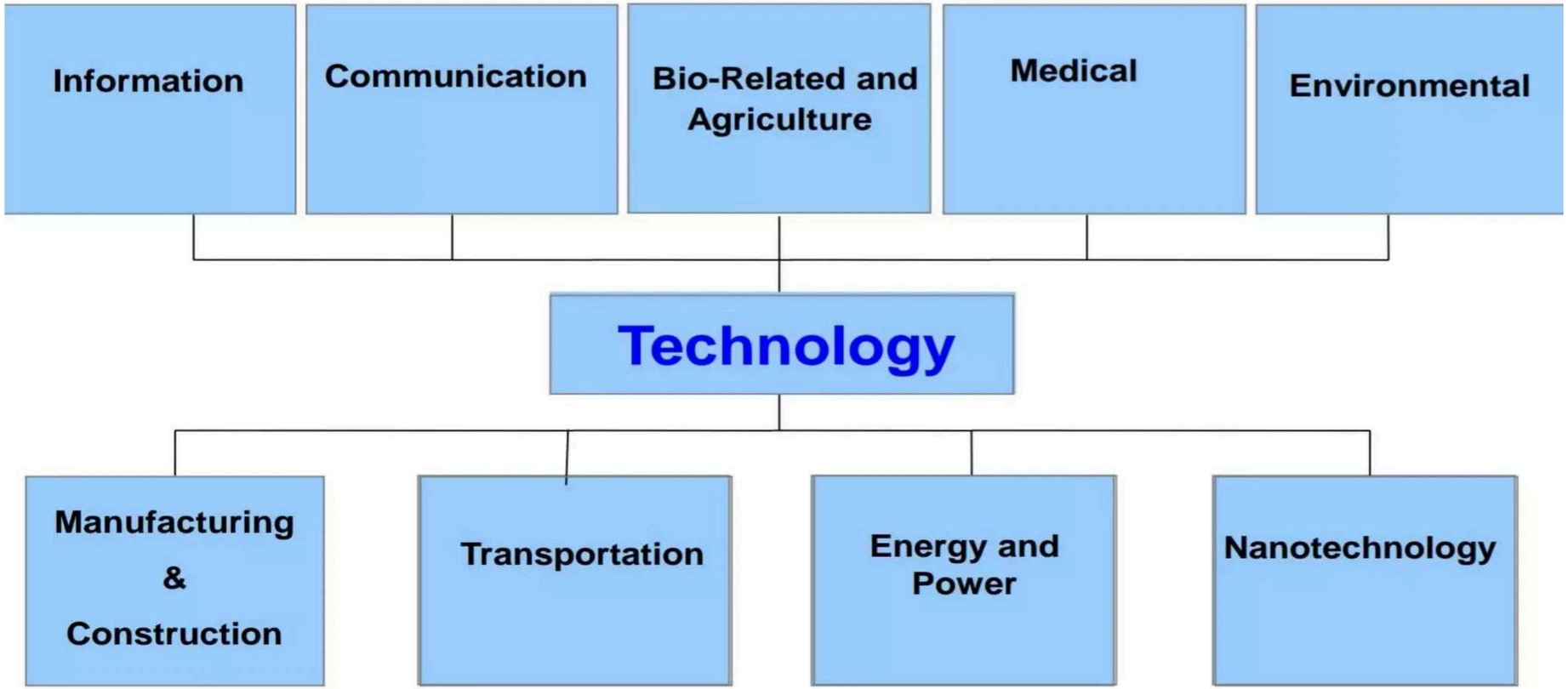
Emerging Technologies

From blockchain to quantum computing, new **technologies** are on the horizon. Explore the potential of these emerging trends and their impact on the IT landscape.

The Future of Information Technology

As technology continues to advance, the future of **IT** holds endless possibilities. Reflect on the key takeaways and envision the exciting developments ahead.

How does technology address human needs and wants?



The Role of IT

- It is accepted that telecommunication is a basic infrastructure necessary for economic and social development of a country.
- This is even becoming more strong than ever as information related economic activities are growing.
- Information and communications technology may be described as the support of the central nervous system of complex societies, transmitting and processing information and commands among the various parts of such societies.
- Internet plays a fundamental function in IT role

The Information Age

Today, information technology touches every aspect of our lives.

- Day-to-Day Living – Online shopping, virtual education, telecommuting, online banking and bill payment, online course registration, airline reservations.
- Entertainment – Television, movies, radio, CDs, video cameras, computer games, web surfing.
- Social Life – Web communities, instant messaging, email, cell phones, personal communication devices.
- Economics – IT use in business and government has causes significant productivity increases. The IT industry itself has become a major economic sector.

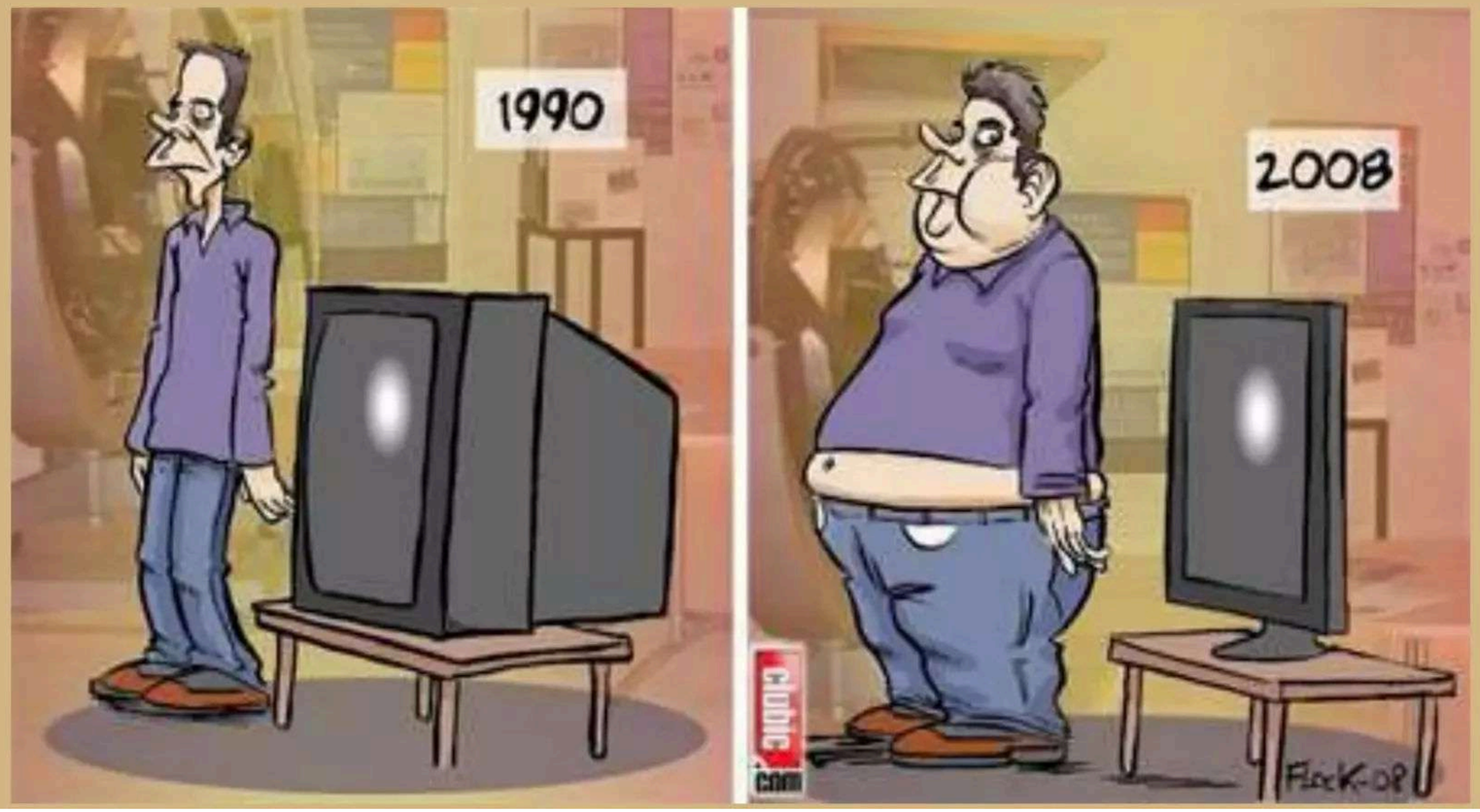
Benefits of Information Technology

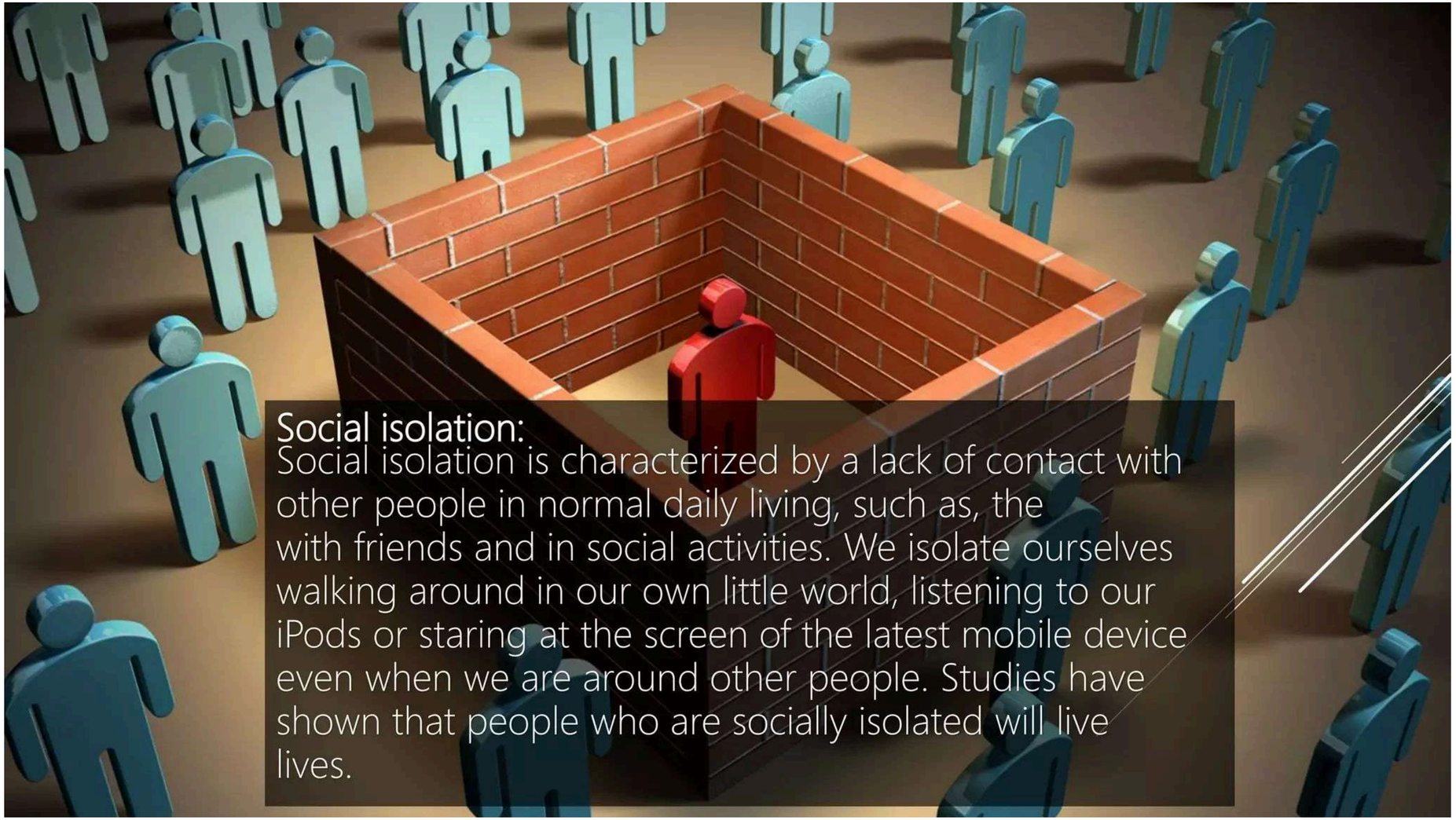
- **Increased productivity**
  - Information flow
  - Access to information (ex: the Internet)
  - Access to personnel
  - Data entry
- **Personal flexibility**
  - Virtual workplaces
- **Recreation**
  - Gaming

IT is useful in all areas

Many tourism businesses are involved in developing their internet services including traditional travel agents , tour operators , national tourist offices, airlines , hotels and other accommodation providers and car hire firms.

How technology has affected our lives?





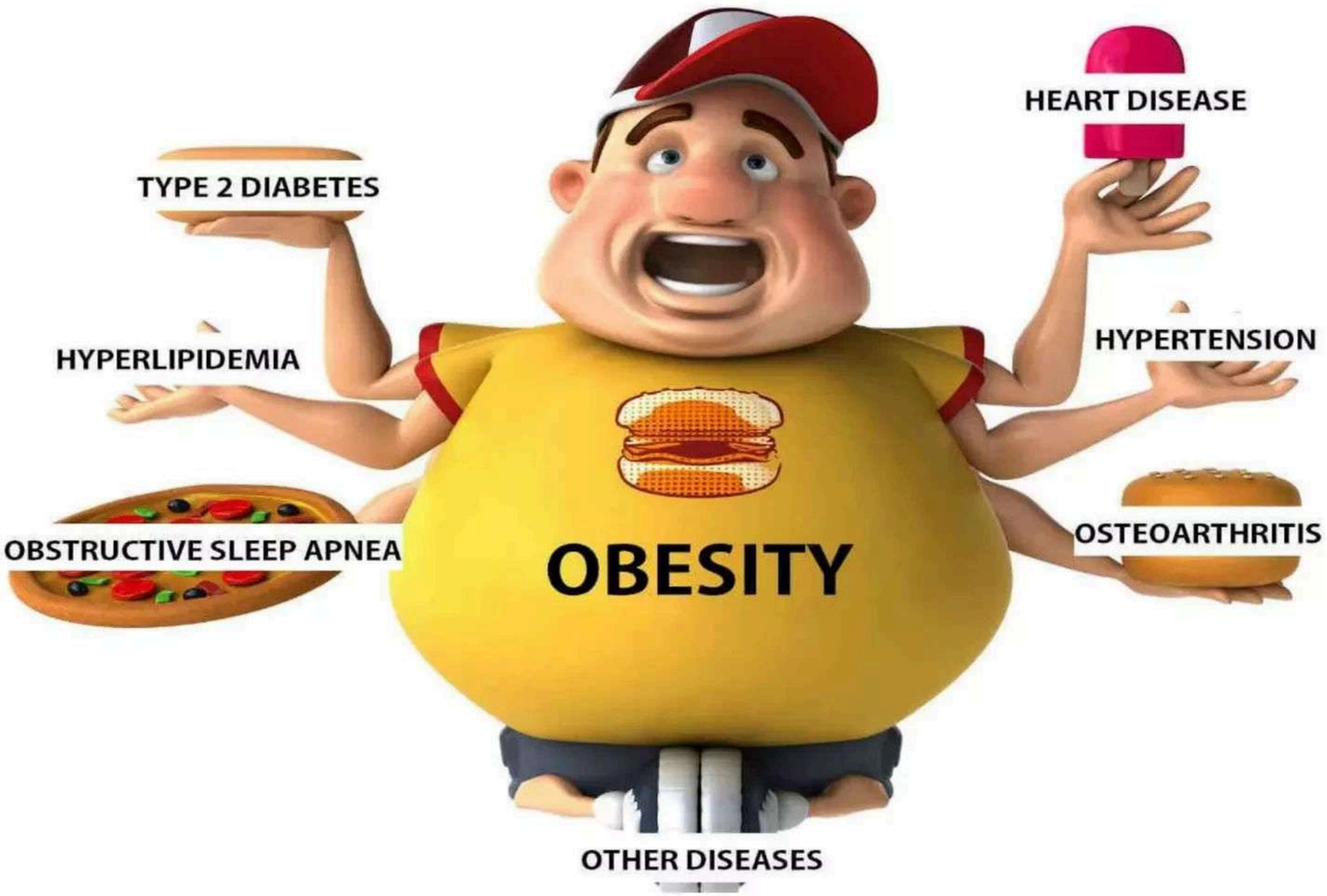
Social isolation:

Social isolation is characterized by a lack of contact with other people in normal daily living, such as, the with friends and in social activities. We isolate ourselves walking around in our own little world, listening to our iPods or staring at the screen of the latest mobile device even when we are around other people. Studies have shown that people who are socially isolated will live lives.

Lack of Social Skills: The use of online social media outlets causes us to meet face-to-face with much less frequency resulting in a lack of much needed social skills. We lose the ability to read body language and social cues in other

Obesity:

The more time people are spending engrossed in video games, talking to friends online and watching funny cat videos on YouTube, they are spending less time being active or exercising. Also the likelihood of mindlessly eating unhealthy food increases as people are hypnotized by the latest episode of Honey Boo Boo.



Depression:

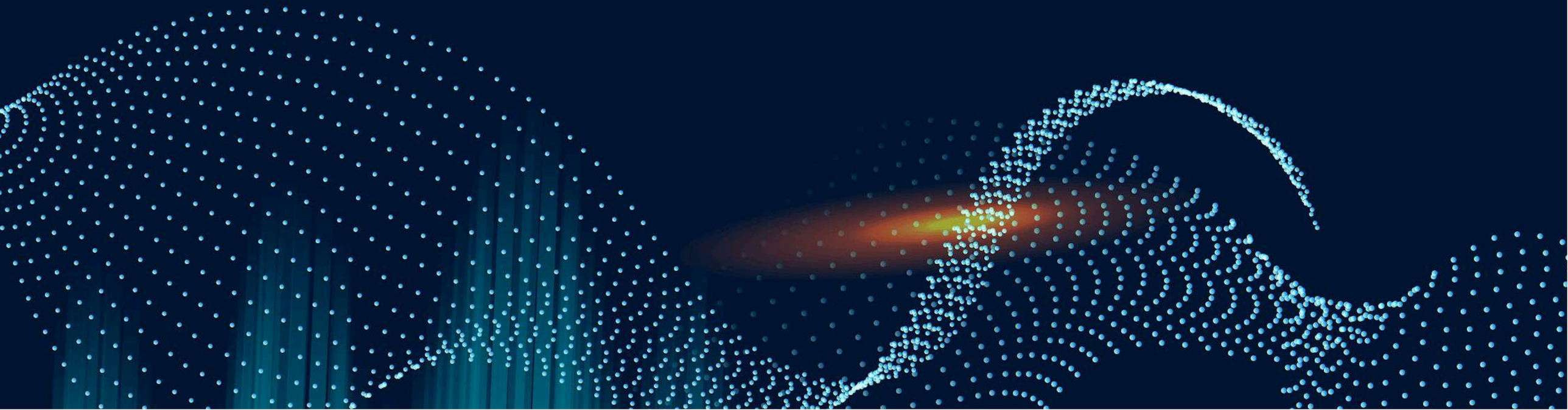
Technology creates the perfect recipe for depression with the of human contact, overeating and lack of exercise. There is a reason the use of antidepressants are on the rise and the blame can't be completely dumped on the pharmaceutical companies. They aren't carting people into the doctor's office and force feeding them the pills. This isn't to say depression isn't a real problem, but some people could cure their depression by living a healthier lifestyle.

Poor Sleep Habits:

Some of the negative effects of technology can be linked to the it has on sleep habits. We get sucked into online activities that keep us up too late and the constant stream of information can make it difficult to turn off our brains. Also, the ambient glow from screens can affect the release of melatonin, the sleep chemical. Keeping technology out of the bedroom would be a very habit to acquire.

Conclusion

The world of **Information Technology** is dynamic and ever-evolving. As we embrace the digital age, staying informed and adaptable is key to navigating the IT landscape.



Any Question?

Thanks!

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