

# What is technology?

 The process by which people modify nature to meet their needs and wants

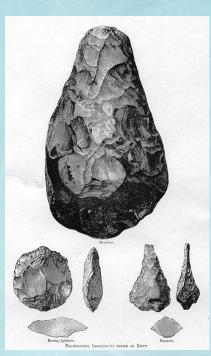
Technology is a product of engineering and



## HISTORY OF TECHNOLOGY

- The history of the invention of tools and techniques
- These certainly changed lifestyle
- STONE & METAL TOOLS
  - artifacts, including bracelets, axe heads, chisels (dleto), and polishing tools
  - perform a variety of tasks; chopping wood; cracking open nuts; skinning an



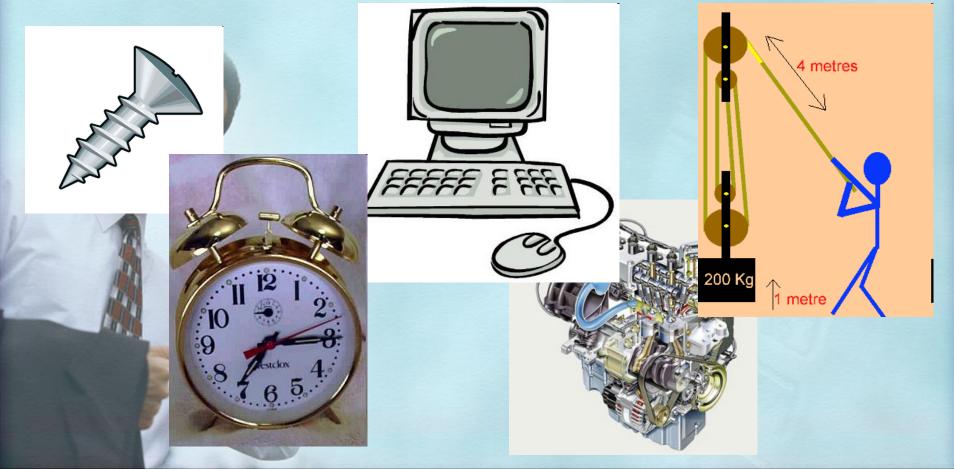


- CLOTHING
  - ☐ the fur and other materials
- ENERGY
  - → FIRE
  - → WIND POWER
  - ☐ ELECTRICITY



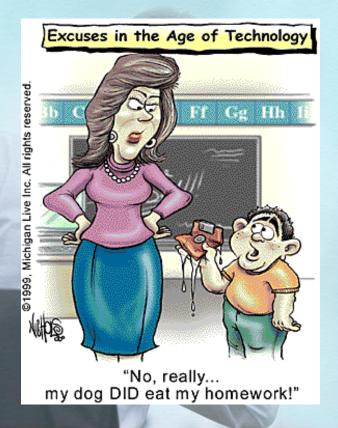


- SIMPLE MACHINES AND COMPLEX MACHINES
  - ☐ the lever, the screw, the pulley
  - → the clock, the engine, the electric generator and the electric motor, the computer, the radio,...
  - → As tools increase in complexity, so does the type of knowledge needed to support them



#### 1. INFORMATION TECHNOLOGY

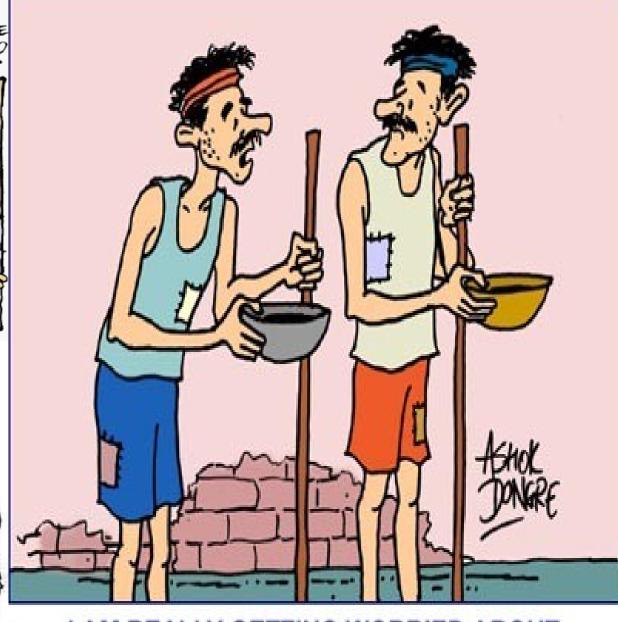
- Information technology (IT); is the study, design, development, management of computer-based information systems
- The information technology is quite large, it covers many fields.











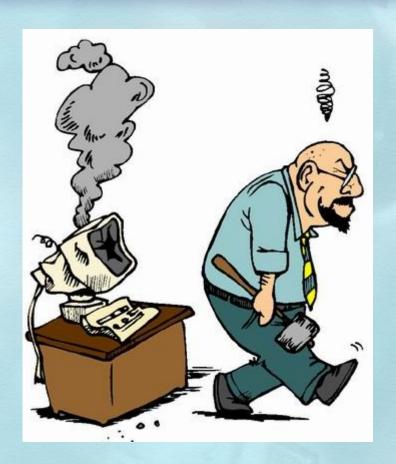
I AM REALLY GETTING WORRIED ABOUT THE INCREASING USE OF CREDIT CARDS...

#### • **PRO**

- mobile phones
- internet
- television

#### · CONTRA

- mobile phones
- computers and internet
- television



# 1. MOBILE PHONES -pro

- communication
- functions (SMS, internet, camera,...)







# 1. MOBILE PHONES -pro

- SMS 

   most used function
- mobile phone penetration rate
  - Luxembourg 158%
  - Hong Kong 139.8%
  - Western European 110%
- 2006 [] 80% of the world's population has access to mobile phone

# 2. INTERNET -pro

- information resources
- services (e-mail, chat, ...)
- accessible everywhere
- social interaction







# 2. INTERNET - pro

- June 2008 ☐ one billion PCs
- June 2008 ☐ 1.463 billion people use the Internet
- \* SLOVENIA, 2006 [] 880.000 users of internet







## 3. TELEVISION

- source of entertainment and news
- households with one television []
   99%
- SLOVENIA [] 98% of households





## **MOBILE PHONES - contra**

Radiation,

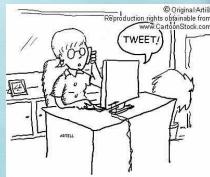
lack of personal contact & privacy,

addiction.



## COMPUTERS & INTERNET

- Inappropriate content,
- no privacy,
- playing computer games.

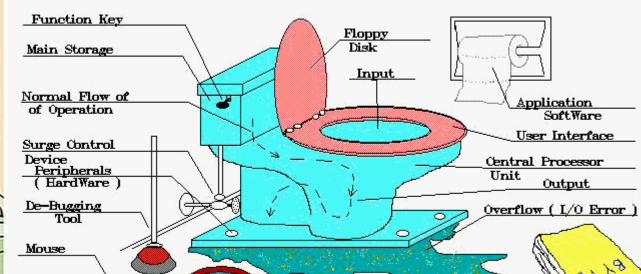


"This is Heather in HR. I think my computer has a bird flu virus."

Supplementar



"You're right. I should go outside and play. Buy me a laptop, and I will."



BackUp

System

Understanding Computer Technology

## TELEVISION - contra

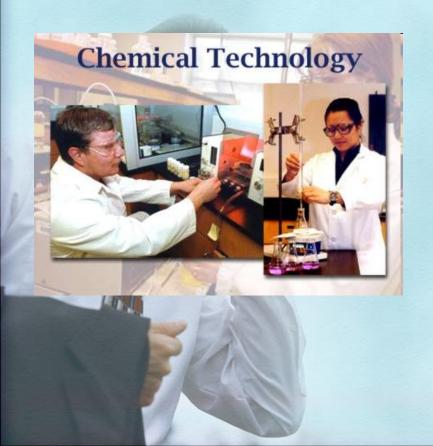
- Addiction,
- loss of sense of time.





# 2. ENGINEERING

 Technical, scientific knowledge+natural laws, physical resources = engineering







#### • PRO:

- **BIOTECHNOLOGY**
- **☑**CHEMICAL TECHNOLOGY
- **MNUCLEAR TECHNOLOGY**

## · CONTRA:

- WEAPON OF MASS DESTRUCTION
- **ENUCLEAR WEAPONS**
- **INUCLEAR ACCIDENTS**

# 1. BIOTECHNOLOGY - pro

☑ Cultivation of plants,

☑improves the taste, texture and aputhe fruit,

☑in drug discovery and ap (INSULINE),

☑gene therapy ~ treating.



# 2. CHEMICAL INDUSTRY - pro

☑ Products: RUBBER, PVC, PLASTIC, PAPER, PRIMARY METALS ...,

The largest industrial sectors,

☑ 3.2 million jobs.





# 3. NUCLEAR INDUSTRY - pro

☑Nuclear power ~ heat, electricity ...,



#### 1. WEAPON OF MASS DESTRUCTION

- contra

☑Biological, chemical and nuclear,

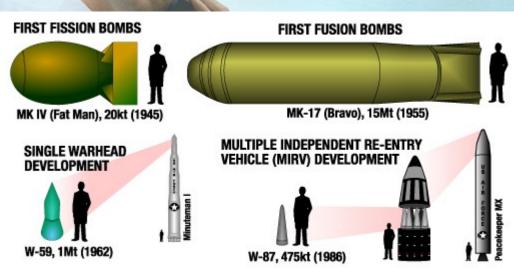
kill a lot of people, cause damage to buildings.



#### 2. NUCLEAR WEAPONS - contra

☑ Destructive bombs,
☑ Nuclear deterrent.







# 3. NUCLEAR ACCIDENTS -

contra

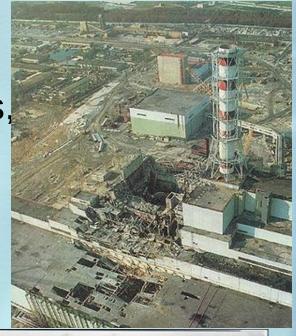
Under accidental circumstances, an explosion can take place inadvertently,

Chernobyl:

Inuclear reactor accident,

the worst nuclear power plant disaster,

release of radioactivity.





## 3. TRANSPORTATION

- The movement of people and goods from one location to another
- The field can be divided into
  - infrastructure,
  - vehicles,
  - operations.





#### · CONTRA

POLLUTION,

ECHANGING ENVIRONMENT,

MIMPACT ON PEOPLE.



# CARS -pro



availability of use

transporting passengers

easier access to remote places

independence, freedom, and increased status for owner

2002 590 million cars



# 1. POLLUTION - contra

Air pollution.

**I**global warming - emission of carbon dioxide,

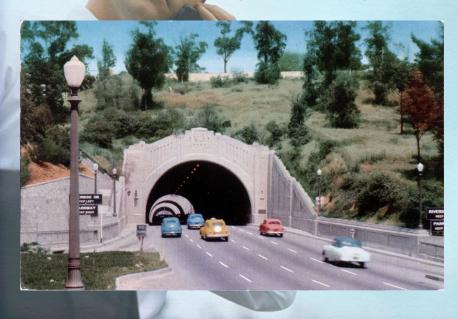
Itraffic jams.





# 2. CHANGING ENVIRONMENT - contra

- ☑ Infrastructure intervening with nature
  - **x** cut down forests,
  - **⊠**tunnels,
  - destroyed agriculral lands,
  - Echanged ecosystem.





## 3. IMPACT ON PEOPLE - contra

**☑** Breathing unhealthy air,

**x** car collisions:

■ 1.2 million people die and

✓ 40 million people are injured each year





## 4. ROBOTICS

- Robotics is the science and technology of robots
- Robots are machines that can perform some human tasks or imitate some of the things that a person can do



#### • <u>PRO:</u>

- ☑ Car industry,
- ☑ Packaging,
- ☑MEDICINE 
  ☐ surgery.





#### · CONTRA:

☑ Replace human labor,

☑ abusing.



