

# 傳播科技的進程

- 西元230至1830年  
(共 1600 年)
  - 紙的發明 西元 105年
  - 彫版印刷 西元 650年
  - 活字印刷 西元 1045年
  - 鉛筆 西元 1630年
- 西元1830至1990年  
(共 160 年)
  - 鉛筆擦, 複印紙 西元 1830年
  - 電報電話 西元 1870年
  - 廣播 西元 1910年
  - 彩色電視 西元 1950年
  - ESS, 通信衛星, 光纖 西元 1970年
- 西元1990至2006年  
(共 16 年)
  - PC, 光纖通訊 西元 1990年
  - ATM, PCS, CD, WWW, 多媒體.....
  - ??? .....

## Interim Report To The President

- *Information technology (IT) will be one of the key factors driving progress in the 21st century — it is quite literally transforming the way we live, learn, work, and play.*
- *Advances in computing and communication technology will create a new infrastructure for business, scientific research, and social interaction.*

National coordination Office for Computing,  
Information, and Communications, August 1998

# Transforming the way we communicate

## *Vision*

One billion people worldwide can access the Internet simultaneously and engage in real-time electronic meetings, download the daily news, conduct financial transactions, or talk to friends and relatives around the world.

This can be done regardless of the language in which the participants are speaking, since language translation can be done simultaneously, regardless of physical limitations, because devices can accept and provide input and output in many ways.

# Transforming the way we deal with information

- *Vision*

An individual can access, query, or print any book, magazine, newspaper, video, data item, or reference document, in any language by simply clicking the mouse, touching the computer screen, talking to the computer, or blinking an eye.

Individual can easily select among modes of presentation: data, text, image, or audio.

Information can be referenced and derivations can be incorporated in many new ways, adding value and revealing insights through networked and software based tools.

# Information Technology: Transforming our Society

- Transforming the way we
  - communicate
  - deal with information
  - learn
- Transforming the nature of
  - commerce
  - work
- Transforming the practice of health care

# Transforming the way we deal with information

- Transforming how we
  - design and building things
  - conduct research
  - deal with environment
- Transforming government

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