NETWORKING OPERATING SYSTEMS

under the view of

cisco

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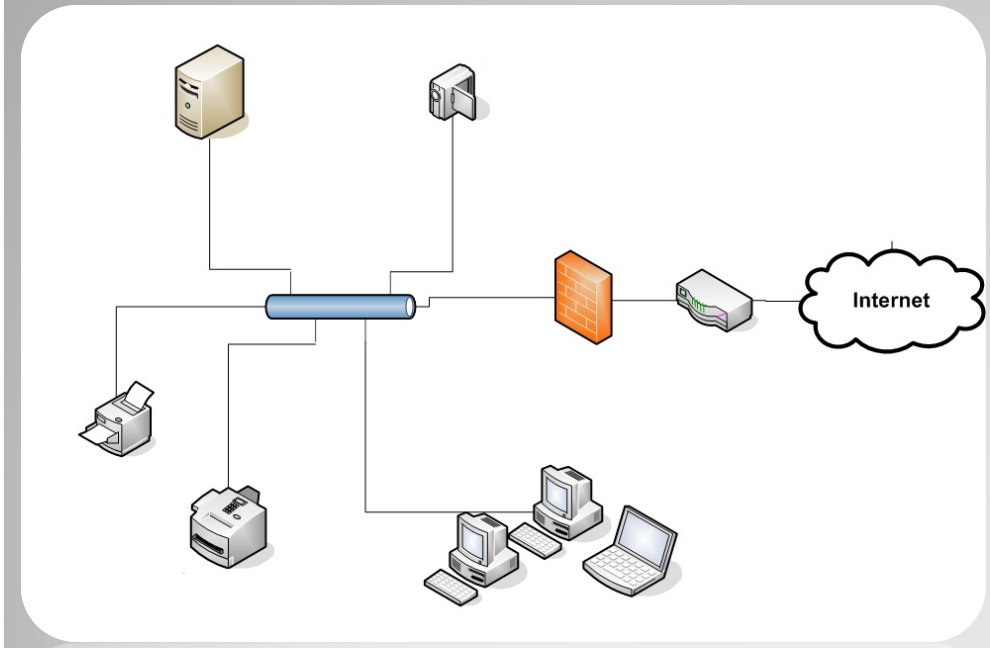
Learning Communication Skills
Assignment 3

The aim of this Presentation

- What is Networking Operating Systems
- The appearance of Cisco Inc
- Networking Hardware
- Cisco Networking Academy
- Effects on Society
- Future expectations
- Conclusion

- Networking operating System (NOS)



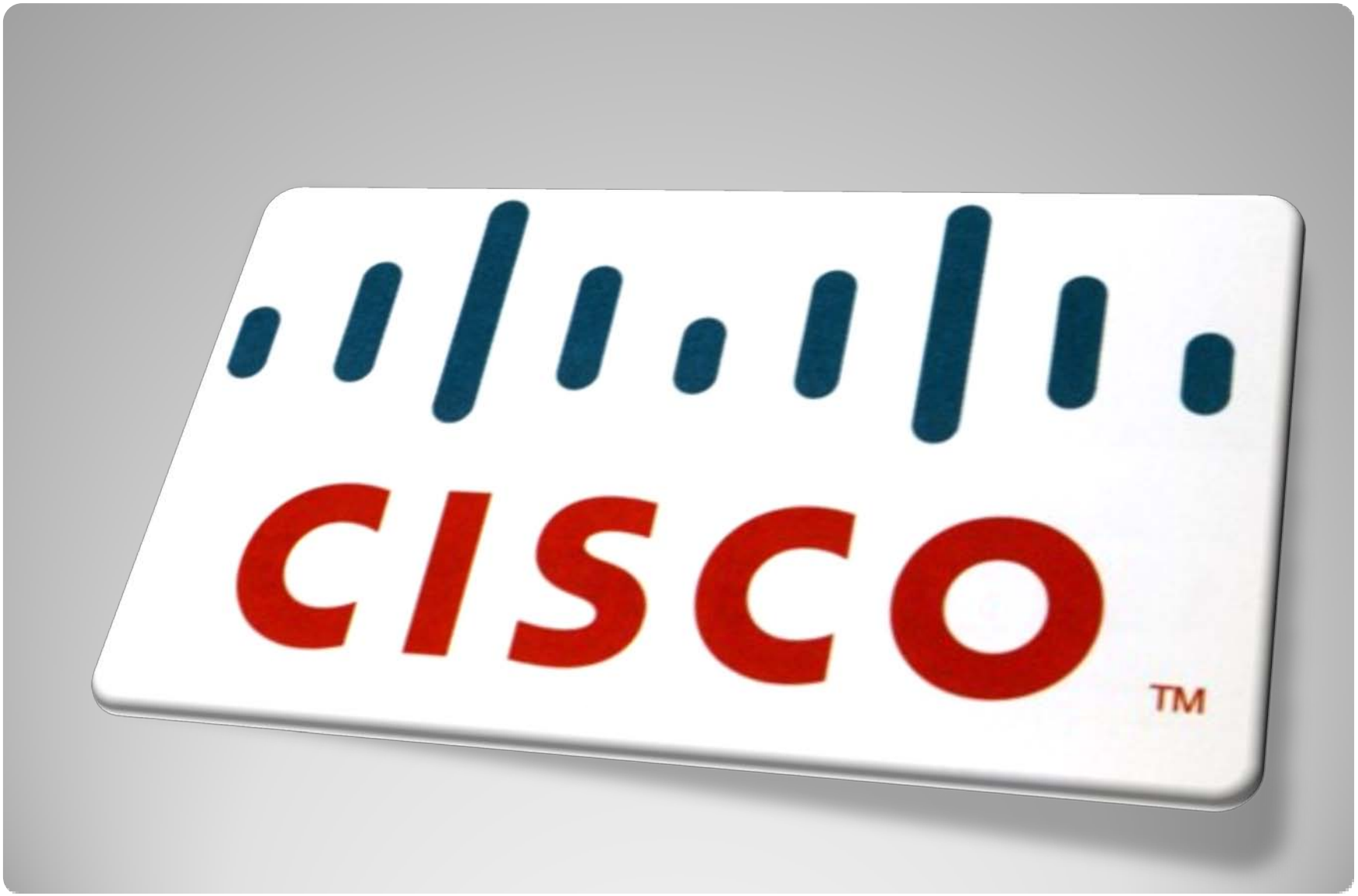
"An operating system that contains components and programs that allow a computer on a network to serve requests from other computer for data and provide access to other resources such as printer and file systems."

(http://en.wikipedia.org/wiki/Network_operating_system)

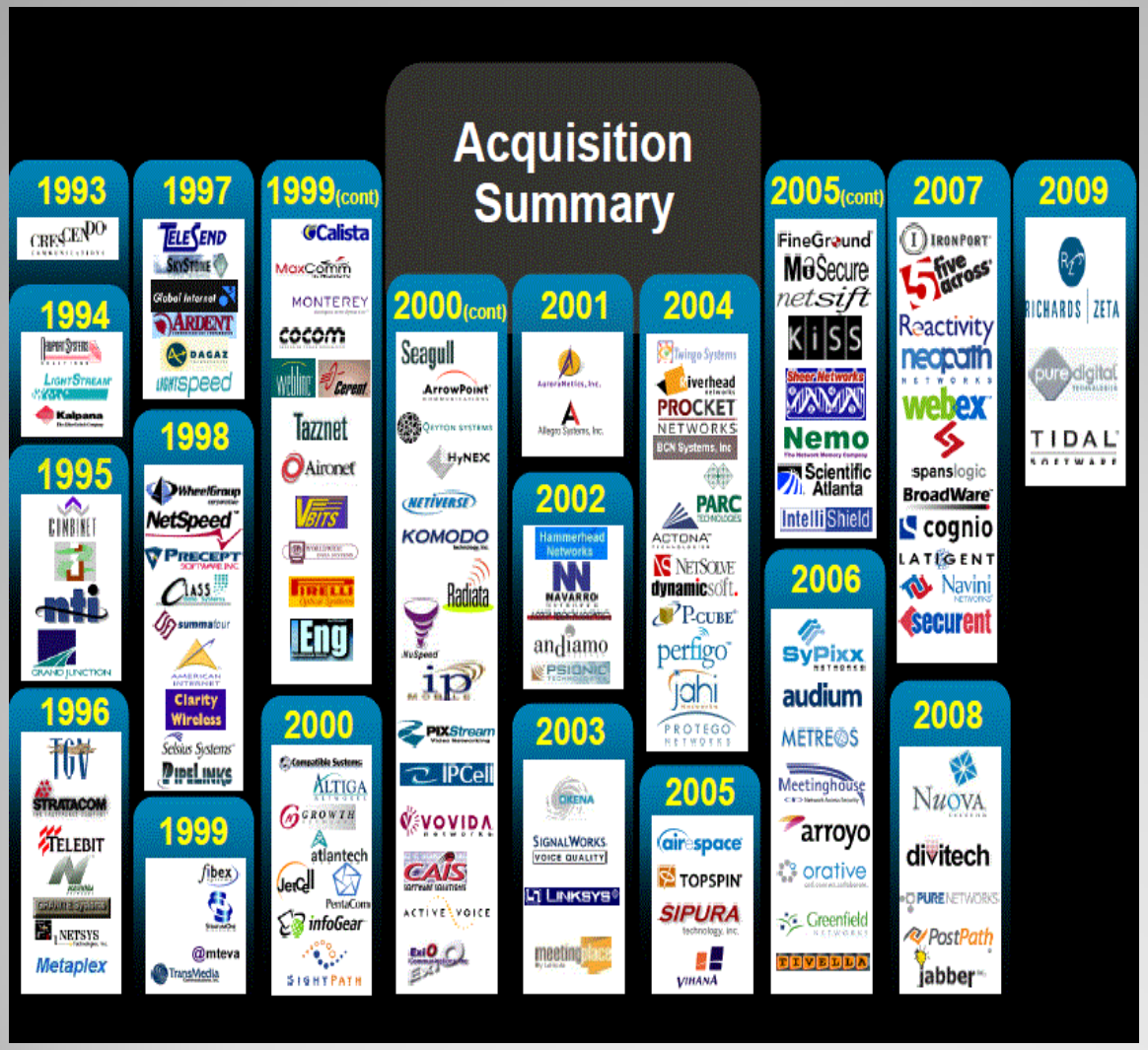
Example of NOS

- Cisco Internetwork Operating System(Cisco IOS)

A NOS focused on the internetworking capabilities of network devices.


CISCO
TM

- Founded in1984
- By the lack of technologies to deal with disparate local area protocols
- The first multi-protocol router was born
- Since then Cisco has shaped the future of the Internet



Acquisitions of Cisco, over the years showing why Cisco is considered as the worldwide leader in networking; transforming how people connect, comm unicate and collaborate.

Networking Hardware

What's the big deal with Linksys?

- founded in 1988 and acquired by Cisco Systems in 2003

- Produced products: Rooters,modems,USB Wireless,Powerline Network Adapters, Wireless home audio,Network Attached Storages,Network Media hubs and VoIP

Cisco & Education

How is Cisco Currently connected to Education ?

Cisco & Education

Cisco & Education

Academy's History

Cisco Systems
Networking Academy

Academy's Initiallization

In 1993 Cisco supplied schools equipment to build small-scale networking systems. The need to maintain the networks emerged instructors to acquire Cisco's knowledge as while students generated their own participation on the idea, something that facilitated the establishment of the first Networking Academy in 1997.

Academy's Prospects

Cisco Networking Academy Initiatives

Education & Technology

- The academy offers an advanced online system that provides real-time assessment scores for students and course developments, updated monthly in consideration of worldwide aspect, enabling students to monitor their progress and instructors to sustain course developments for greater success. Similar complex methodologies of measuring assessment have only been hosted by some of the largest testing programs such as SAT[1] and PISA[2]

- Cisco WebEx provides video conference for instructors allowing them to discuss latest updates on technology, as also distance training to enhance their engagement on applied curriculum and the latest tools available to implement

- Academy's NetSpace is a web site offering hospitality globally for students, alumni and instructors to communicate and counterchange ideas, as to participate on contests challenging awards and opportunities to show proof their talents

Cisco Systems Networking Academy

Courses & Certifications

Courses & Certifications

Cisco Certifications providing knowledge and proofs for advanced-skilled employees, delivering certifications applicable to network & IT job positions.

CompTIA A+ (*IT Technician, IT Administrator, Field Service Technician)*

CCENT (*Help Desk Technician, Network Support Technician)*

CCNA (*Network Administrator, Network Installer, Network Engineer)*

CCNA Security (*Network Security Specialist)*

CCNP (*Level II Network Engineer, Network Technician)*

✓ The Academy additionally offers optional courses on UNIX, Java Development, Web Design, PC Hardware & Software, Networking Operation Systems, Voice & Data Cabling.

Cisco Systems Networking Academy

Has Academy accomplished anything so far ?

Networking Academy Evolution

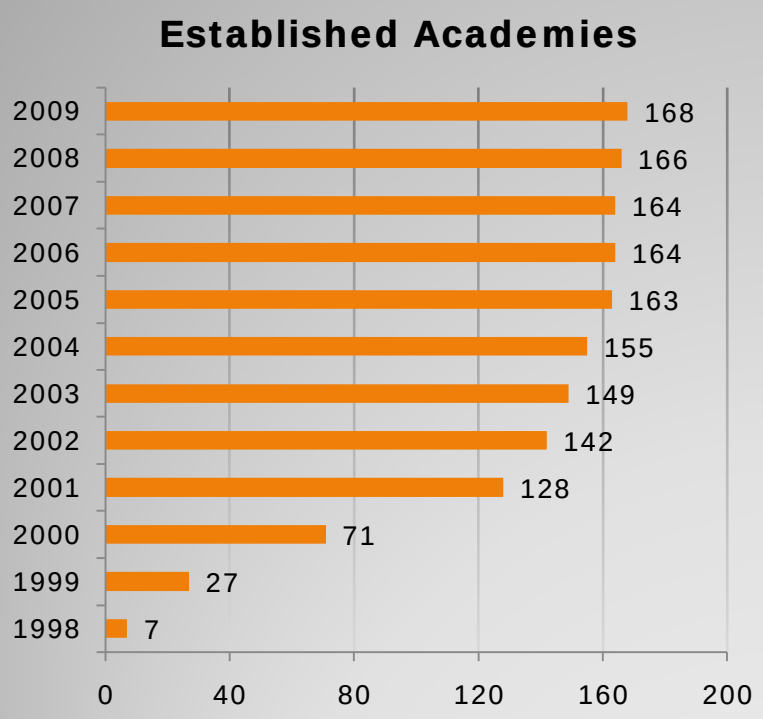
The academy has expanded to date providing a worldwide popular educational academy approximately providing:

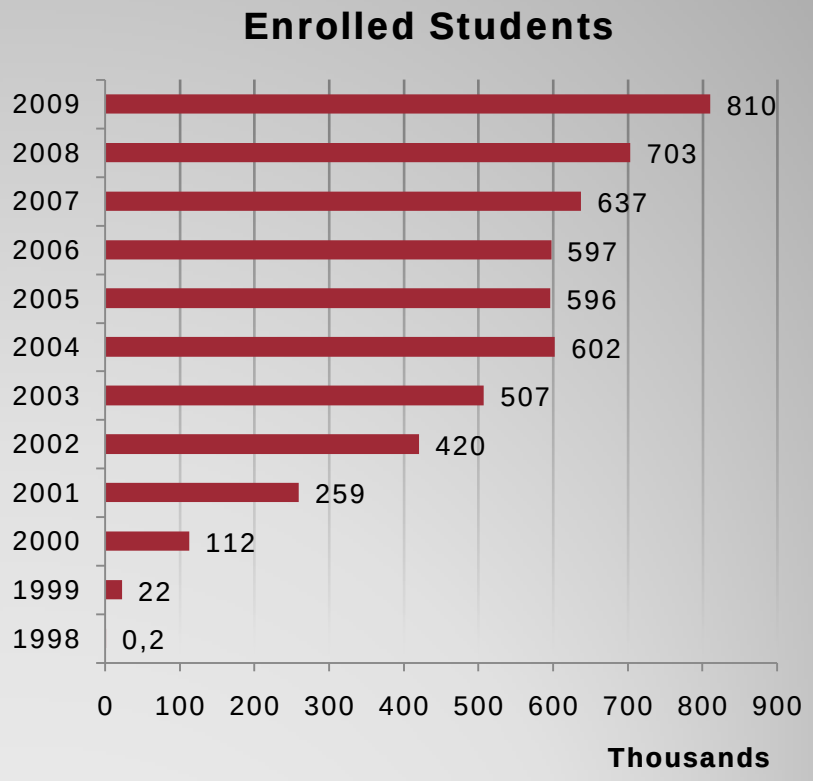
- 9.640 academies
- 168 countries
- 810.000 students enrolled in 2009
- An increase of 15% compare to 2008
- 679.000 certified students since inception
- Curriculum in diversity of 9 languages

Cisco Systems Networking Academy

The evolution in numbers

Cisco & Education





Engagement to Global Education

Cisco & Education

Invoke 21st Century School Model

Cisco has brought to life two implementations of next step educational development models to public, providing students to incorporate knowledge through the effective use of technology.

21 Century School

16 Schools in Mississippi & Louisiana

In 2005 the 2 States after the destructive strikes of hurricanes and the results faced on the next day, they made an agreement with Cisco providing equipment to deliver a step more on next generation teaching and learning schools methodologies, through a rich technological environment. By the end of 2009 the new model has been fully upgraded 87 district schools.

New York City iSchool

In 2008 the project facilitated an initiative on delivering a project-based model school which activities are generated based on a fundamental concept as green career, cinematic history, engineering, technology and more.
A high percentage of the students participating are among low income families, while also an equally high amount is experiencing special-needs problems.

“Traditional Schools kill Creativity”

“We have to rethink our fundamental principals to which we educate our children..”

Sir ken Robinson[1] : Transform Education

1.Sir Ken Robinson is an internationally recognized leader in the development of creativity, innovation and human resources.

“We recognized that we couldn’t just teaching technology. We had to take instruction and technology at the same time”

Kathrine Tsamasiros [1]

1. dir. of Solutions design & Engineering, DIIT

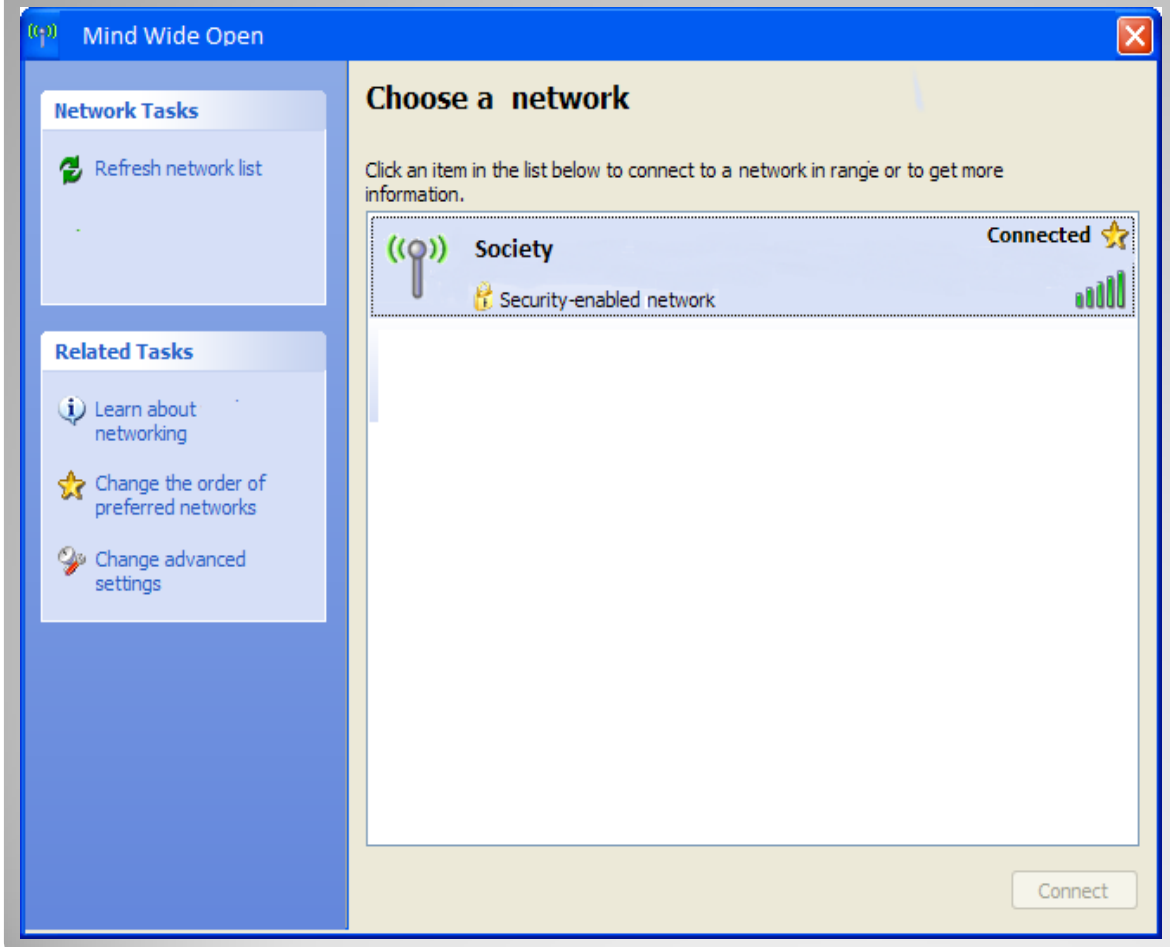
Effects on Society

- Change the way people
  - Connect
  - Communicate
  - Collaborate
- Practice on many Fields
  - Healthcare
  - Entertainment
  - Aerospace
  - Finance

Future Expectations

- Networking Hardware
  - Rapid progress keep surprising us
    1/3 of world have internet access
- Education
  - The 21st school model

Conclusion



Computer network is presentation of the human network. As a result, computer network has its own moral rules and ethnics. Using its potentials properly society can move forward and we like our society this way!

Reference List

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THANK YOU