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# Internet in China

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## The Driver is Science & Technology

- The “Open door policy” provided opportunity to know more about the world
- The need for cheaper data exchange in S & T collaborations
- Early experimental practices
  - North China Information Institute and Karlsruhe University :
  - 9/14/1987 the first email sent from China through the DecNet
  - HEPI of CAS and SLAC in Stanford University, they’ve made data exchange by X.25 since 1986, also through DecNet, and then connected to ESNNet of DoE, U.S.



# China connected to Internet

## The first email sent to Germany

(Message # 50: 1532 bytes, KEEP, Forwarded)  
Received: from unika1 by irau11.germany.csnet id aa21216; 20 Sep 87 17:36 MET  
Received: from Peking by unika1; Sun, 20 Sep 87 16:55 (MET dst)  
Date: Mon, 14 Sep 87 21:07 China Time  
From: Mail Administration for China <MAIL@ze1>  
To: Zorn@germany, Rotert@germany, Wacker@germany, Finken@unika1  
CC: lhl@parmesan.wisc.edu, farber@udel.edu,  
jennings%irlean.bitnet@germany, cic%relay.cs.net@germany, Wang@ze1,  
RZLI@ze1  
Subject: First Electronic Mail from China to Germany

**"Ueber die Grosse Mauer erreichen wie alle Ecken der Welt"**

**"Across the Great Wall we can reach every corner in the world"**

**Dies ist die erste ELECTRONIC MAIL, die von China aus ueber Rechnernetz in die internationalen Wissenschaftsnetze geschickt wird.**

**This is the first ELECTRONIC MAIL supposed to be sent from China into the international scientific networks via computer interconnection between Beijing and Karlsruhe, West Germany (using CSNET/PMDF BS2000 Version).**

**University of Karlsruhe  
-Informatik Rechnerabteilung-  
(IRA)**

**Prof. Werner Zorn  
Michael Finken  
Stefan Paulisch  
Michael Rotert  
Gerhard Wacker  
Hans Lackner**

**Institute for Computer Application of  
State Commission of Machine Industry  
(ICA)**

**Prof. Wang Yuen Fung  
Dr. Li Cheng Chiung  
Qiu Lei Nan  
Ruan Ren Cheng  
Wei Bao Xian  
Zhu Jiang  
Zhao Li Hua**

# China connected to Internet

## Support from the International S & T community (1)

- To get the understanding and allowance from the U.S.A. for China to be connected, many efforts were made.
  - On INET'92, June 1992, Japan, Qian Hualin of CAS first time discussed with Steven Goldstein of the NSFNET, and continued the conversation with him on this issue
  - Most important progress was made on a meeting held after the INET'93; Qian Hualin and others talked to Steven Goldstein, Vint Cerf, and others on this issue

# China connected to Internet

## Support from the International S & T community (2)

- The CCIRN (Cooperation and Coordination for International Research Networks) convened after INET'93 made the issue of China connecting to the Internet a topic of the meeting.
- All the speakers on this meeting supported China
- Chinese netizens and the S&T community remember and feel grateful for these effective supports !



# China connected to Internet

## April of 1994

- Activity from the government side:
  - The NCFC steering committee raised fund for the international connection (National Planning Comm., MOST, NSFC, CAS)
  - State Council of China approved the report of CAS on the international connection to Internet
  - In April, taking the chance of Sino-US S&T collaborative Comm. Meeting, Qiheng Hu visited NSF (Neal Lane, Steve Wolff) and got their decisive support.

# China connected to Internet

**Approval  
letter  
from  
NSF**

NATIONAL SCIENCE FOUNDATION

WASHINGTON, D.C. 20550

Division of Networking and Communications Research and Infrastructure

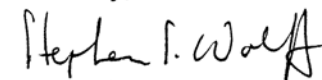
Professor David Farber, Chairman  
CSNET Executive Committee

Mr. Ira Fuchs, Chairman  
BITNET Executive Committee

Gentlemen:

The extension of BITNET and CSNET electronic mail to China is a natural enlargement of the telephone and postal services that will increase the possibilities for collaboration among US and Chinese research scientists. I welcome this move which your organizations have made.

Sincerely,



Stephen S. Wolff  
Division Director  
November 8, 1987

8/26/2009



# China connected to Internet

## A date to be memorized

- On April 20, 1994, the NCFC project opened a 64K international dedicated line to the Internet
- Achieved its full-functional connection to the Internet
- China has been officially recognized as a country with full functional Internet accessibility

# China connected to Internet

## ccTLD, CNNIC and the ISC

- The DN .cn was registered in 1990, with the help of Prof. Werner Zorn, as the 77th country in the Internet community
- Server .cn has been entrusted to the volunteer, Prof. Werner Zorn of Karlsruhe University until July of 1994
- July 1994 was set up CNNIC
- May 2001 was established ISC
- July 2002 ISC and CNNIC made a successful ICANN Meeting in Shanghai

# What has ISC done

## Internet Industry Self-Discipline

- Established the Internet Copyright Union, organized the drafting and publishing of the : *Pledge of China Internet Copyright Self-Discipline*
- Established the Illegal And Negative Information Reporting Center, which received nearly 800,000 reports from the public at the end of 2008
- Actively carried out anti-malware work, organize the drafting and publishing of the “*Definitions and Detailed Rules for Malware*” and “*Anti-Malware Self-Discipline Convention*”.



# What has ISC done

## Anti-Spam

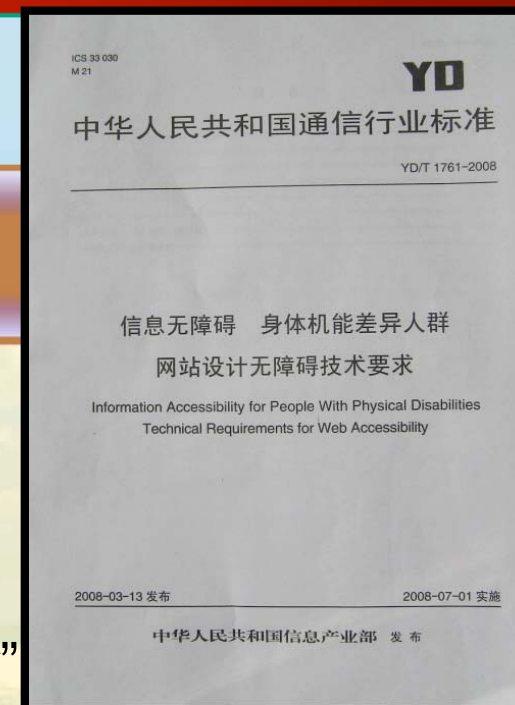
- Build the integrated spam treatment platform
- Establish the Internet Spam Reporting Center
- Regularly publish the blacklist of spam IP addresses and spam investigation report
- Hold email server administrator training across the country
- Carry out international anti-spam cooperation



# What has ISC done

## Information Accessibility

- Pay attention to disadvantaged groups to benefit people with physical disabilities by information technology
- Launch “100,000 Blind People Learn Computer”
- Carry out the campaign of web accessibility for the Beijing Olympics and Paralympics
- Advance the construction of the information accessibility standards



# The impacts of Internet

## Impact on China's Society is Increasing

- The Chinese government actively supports Internet development
- The Internet plays a significant role in economy, society, science and technology, national defense, education, culture, law, etc.
- The Internet constantly improves people's life quality
  - Means of life
  - Means of entertainment
  - Means of communication

The impact of the Internet on China's development is partly reflected in the following stories:



# The impacts of Internet

## Acceleration in China's Democracy Process

### •My Question for Premier

- During the NPC and CPPCC sessions in 2007, xinhuanet.com received over 200,000 questions from Internet users
- During the NPC and CPPCC sessions in 2009, people.com.cn received over 140,000 questions
- This reflects that Internet users participate in the discussion and administration of state affairs
- Many of these questions were answered and resolved.



强国论坛2009两会特别策划

论坛 | 两会专区 | 访谈 | 两会 | 版主跑两会 | 网眼看会 | 人民网两会专题



### My Question for Premier 2009

On the occasion of the opening of the NPC and CPPCC sessions, ChinaForce joined hands with Sina and The Beijing News to establish the optimal platform for dialogue with the premier! "Commodity prices" was the hottest keyword in the questions for the premier in 2008, then what do you prefer to ask most this year? How to cope with the financial crisis, crack down on graft and corruption, promote distribution equity...leave your question here and it is believed that the premier will see it!

148,228 questions



Raise a  
Question



More

# The impacts of Internet

## Promotion of China's Economic Development and Social Employment

### •Taobao.com

- Taobao.com is China's largest website for online shopping
- Taobao.com achieved an annual turnover of over RMB 16.9 billion in 2006, exceeding the annual turnover (RMB 9.93 billion) of Wal-Mart in China.
- Taobao.com achieved an annual turnover of over RMB 99.9 billion in 2008, 9.4 times the annual turnover of Beijing Wangfujing Department Store Group.
- Taobao.com has over 80 million registered users, many of whom are fulltime sellers.

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# The impacts of Internet

## Increasing Impact of Internet Media

- President Hu Jintao chats with netizens online
  - On June 20, 2008, Chinese President Hu Jintao communicated with netizens by video broadcast
  - Chinese leaders attach great importance to finding out and collecting public opinions via the Internet



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# The impacts of Internet

## Significant Role of Internet in Quake Relief

- “I know a place in Wenchuan particularly suits landing”
  - In May 2008, following Wenchuan earthquake, the rescue helicopter could not find a proper place for landing.
  - A netizen in Wenchuan posted a message online to elaborate on the landing place.
  - The post was promptly forwarded by numberless netizens and finally seen and adopted by the rescue force.

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## Perspective changes in China

- Shift of the dominant application from entertainment to e-business
- Shift of the Internet acknowledgement from usable to trusted
- Shift of the speed from broadband to high-speed
- Shift of the device for connection from PC to mobile phone
- The network is becoming ubiquitous achieving “anytime, anywhere, anyone” (the national project for “connection in every village” )



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Thank you for attention

Your Comments are  
welcome