

eSilkroad and Broadband City - **Perspective from the Internet** -

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Kilnam Chon
KAIST & Networking Inc. Net
chon@cosmos.kaist.ac.kr
<http://cosmos.kaist.ac.kr>

“ The Internet will almost certainly have a stronger impact than PC ... a reasonable guess might put it ahead of the telephone and television but behind the printing press.”

The Economist, 1 July 1995

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1. History of the Internet

- 30 Years in USA and 20 Years in Asia

- 1970 First Internet in USA(Arpanet)
- 1982 First Internet in Asia(SDN)
- 1980's Globalization of the Internet
- 1990's Commercialization of the Internet

2. Current Status of the Internet

Population:

(million)	North America	167
	Europe	113
	Asia	107
	Latin America	16
	Africa	3

[Total 407]

(Nov. 2000. www.nua.ie)

3. Wireless Internet:

Asia dominates the world :
i-mode and others for message, web,...

Q: Why does Asia dominate the world?

4. Future of the Internet:

Population : How many users?

Broadband: How fast?

Wireless : How many users?

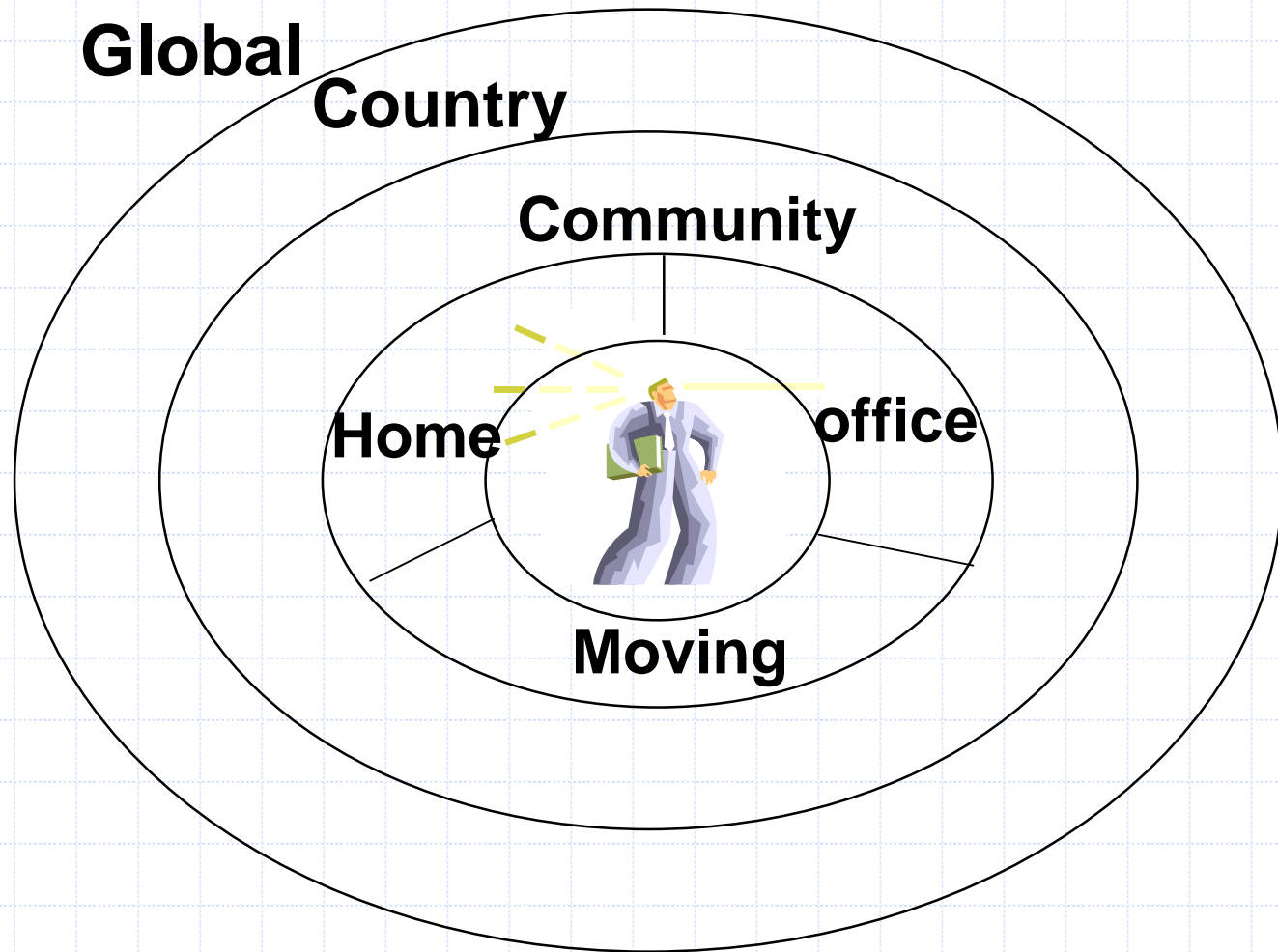
Non-human users : How many users?

Remark: More Internet users in Asia than the rest of the world by 2010.

Q: Do we have more Internet “Users” than the global population?

Q: What bandwidth do we need/have in future?

5. Broadband Digital City: Human-centered Model



6. Asian Strength :

Japan:	Wireless Content(game, animation,..)
Korea:	Broadband(ADSL, cable modem) Ventures(>10,000)
China:	Ventures Population
Singapore :	eGovernment Service
India:	Software Population

7. Cases :

Canada : CA*net 3, CA*net 4

Sweden : Swedish Urban Network

Finland : Helsinki Virtual Village

Malaysia : Multimedia Super Corridor

Singapore : Singapore One

8. Asian Collaboration(eSilkroad?):

- Internetworking
- Event
- Information Exchange
- Venture Fund

9. Remarks:

1. Language
We need to support various languages in the Internet
2. Heterogeneity
Asia is very heterogeneous; economy, culture, ..., ..
3. "Asian-ization" of the Internet
4. Digital Divide
How do we overcome the digital divide?
5. Wireless vs Wireline

Reference :

CA*net 4

www.canarie.ca

Swedish Urban Network

www.stokab.se

Helsinki Virtual Village

www.wired.com

Malaysia Multimedia Super Corridor

www.mdc.com.my

Singapore One

www.s-one.gov.sg

www.digitaldivide.gov