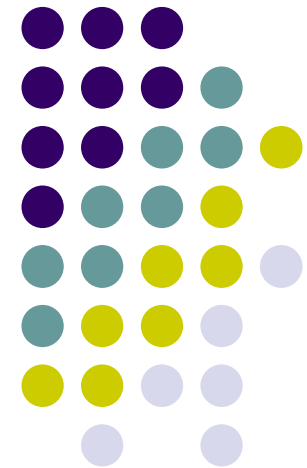# Fair Share

2007.7.9 - 10

Kilnam Chon

KAIST

Internet Research is Open Research.

Internet Research includes Research,
Development and Deployment.

Beginning of the Internet Research

Late -1960s at UCLA, …..

Number of Nodes :

Arpanet	Thousand
Internet	Million
WWW	Billion <------ Today
Future Internet	Trillion

Late-1960s ~ 1980s

Internet R&D(~20 years) with Contribution of

North America	~80%
Europe	10~15%
Asia	~5% or less

Mid-2000s ~ Mid-2020s

Future Internet R&D(10~20 years) with
Target Contribution of

North America	1/3
Europe	1/3
Asia	1/3

How to Accomplish Fair Share of R&D Contribution ;

- 30% or more from Asia,...?

- US and Canada are ready

- Europe is getting ready with FP7.

R&D Areas:

Theoretical Work
Architecture
Major Components
Routing & Addressing
Mobility/Wireless
Internet of Things
Optical Network
Security
Management
Service
....
Testbeds
Backbone
Wireless
Sensor

Recommendations

- Major Funding
- Centers of Excellence
- Concentrate on Specific Areas
- Regional Collaboration (CJK, Asia,...)

    Symbiotical
    Asia-wide Project Funding (~ Europe)

- Global Collaboration

    Complimentary

Reference

- K. Hafner & M. Lyon, Where Wizard Stay Up Late, Simon Schuster, 1998.

- M. Mitchell Waldrop, The Dream Machine, Penguin, 2002.

- GENI   www.geni.net

- EIFFEL   The Future Networked Society, 2006.12.1

- FIF   www.anf.ne.kr/fif

- FIND   www.cra.org/nsf.find

- J.da Silva,   Future Internet Research : The EU Framework, ACM Sigcomm Computer Communication Review, 2007.4.

Be Ambitious !