

**C**ollect, **A**nalyze, and **S**hare for **F**uture **I**nternet:  
High-Precision Measurement and Analysis Research

10<sup>th</sup> CAIDA-WIDE  
1<sup>st</sup> CAIDA/WIDE/CASFI Workshop

2008.8.15~16  
*ISI in Marina Del Rey*

Sue Moon



# Motivations

- Measurement research benefits from
  - More data
  - Diverse data
  - Feedback (as always!)
- Build a community of measurement research
  - People and schools with “data”
  - Past track record of research in this field

# Our Team

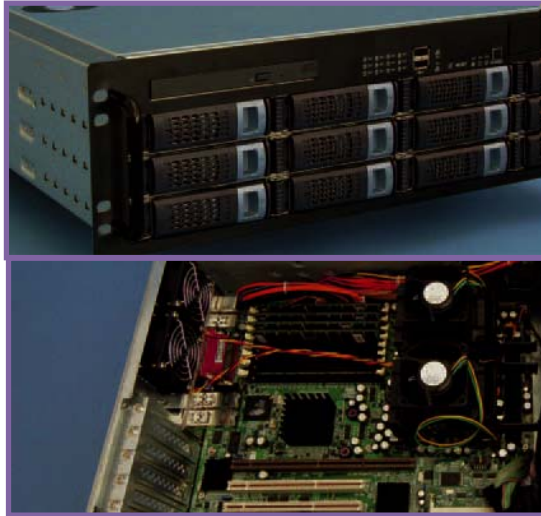
University Research Labs w/ data from campus networks

- KAIST, CNU, POSTECH all participated in CAIDA DITL 2007/2008

## Team Members

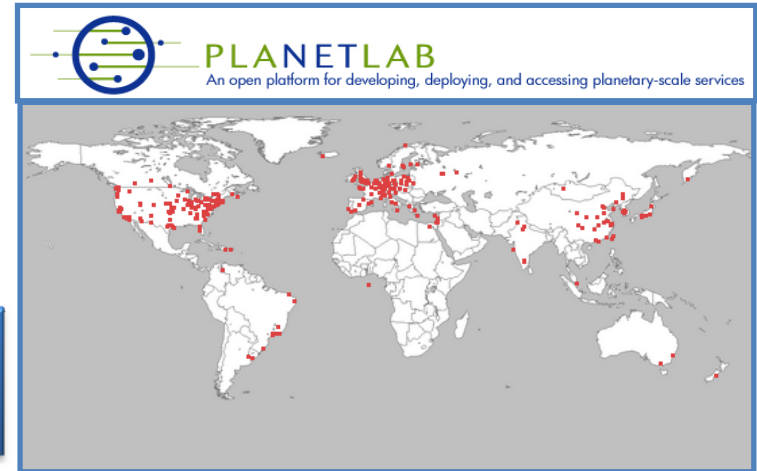
James Hong (POSTECH)	IEEE ComSoc CNOM Chair (2005~now) NOMS, APNOMS, KNOM Steering Committee
Choong Seon Hong (Kyunghee)	APNOMS 2002, 2007 TPC Co-chair
Taek-Geun Kwon (CNU)	NP-based high-speed pkt processing system SKT P2P/VoIP detection system
Youngseok Lee (CNU)	5+ years of KOREN traffic measurement & analysis Wireless LAN and IPv6 traffic m & a

# Equipments/Infrastructures of Our Teams

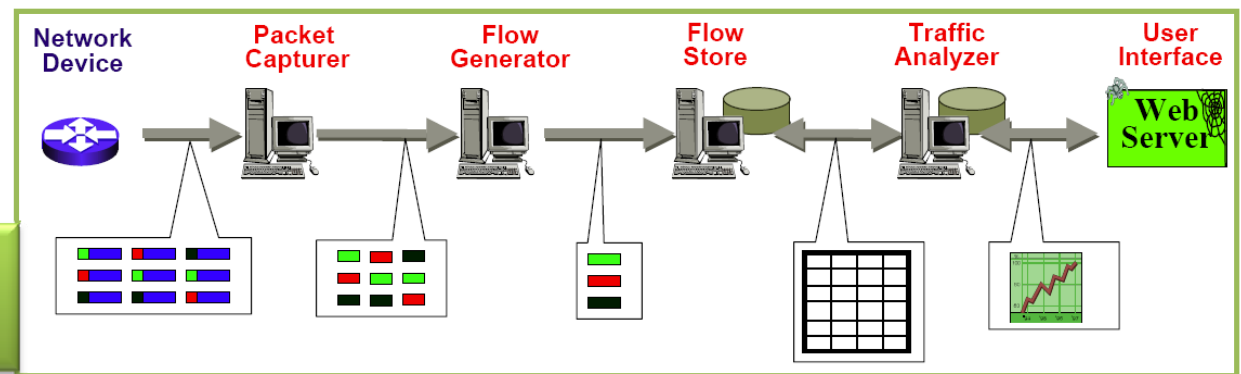


KAIST owns  
4 DAGMONs


1<sup>st</sup> PlanetLab  
in Korea at KAIST



NG-MON based on  
DAG Card at POSTECH



# Funding Agency

- Originally,
  - MIC (Ministry of Information and Communications)  
 MKE (Ministry of Knowledge Economy)
  - IITA (Institute for Information Technology Advancement)
  - Technology Development Track for World-Class Wide-Area Integrated Network Infrastructure
  - IT Core Technology Development
- 5-year, \$2 million, 5 profs + 10+ students
  - March 2008 to February 2013



# Expected Deliverables

## User Behavior Analysis

- Basic research for new service development
- High-speed packet capture technology: marketable immediately

## Data Sharing Platform

- Platform for international collaboration and leadership

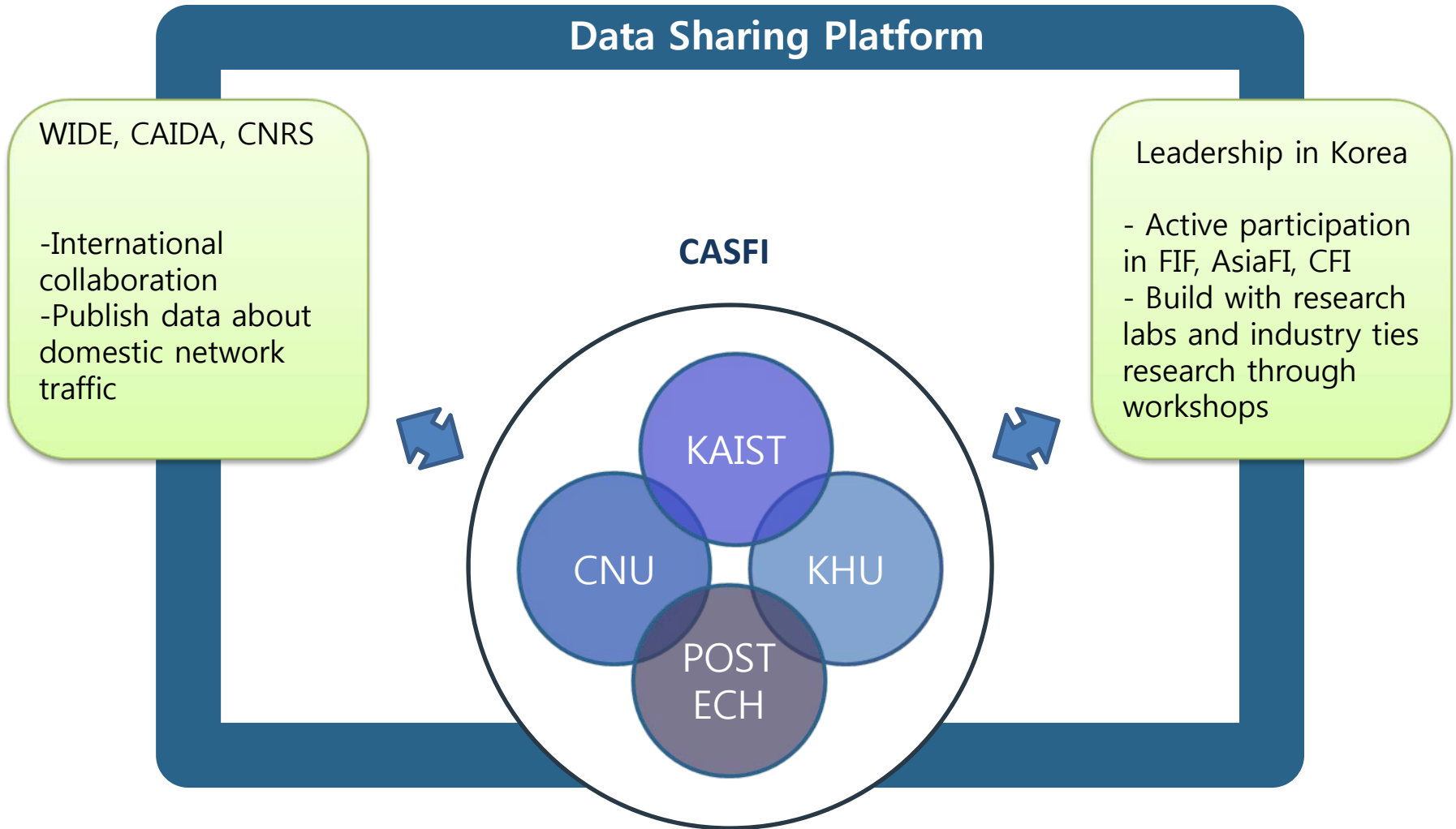
## Future Internet Design

- Basic research in network manageability issues

# Research Topics of 2008–2009

- KAIST
  - User behavior analysis
  - KAIST backbone traffic analysis
  - Data sharing platform development
- POSTECH/KHU
  - Review manageability issues in Future Internet
- CNU
  - Flow/contents identification at 1GB or higher speed
  - VoIP identification in 3G/3.5G

# Project Management Structure







<http://casfi.kaist.ac.kr>