Lightening Talk

NANOG 45 Survey Results

"Study of the Current Internet Architecture and Future Implications"

Glenn S. Burdett, PhD Student

Rochester Institute of Technology (RIT)

A Scalable Internet Architecture

NSF FIND (Future Internet Design) Funded Project

Nirmala Shenoy, Victor Perotti,

Rochester Institute of Technology (RIT)

Technical and socioeconomic studies

Koushik Kar, Aparna Gupta

Rensselaer Polytechnic Institute (RPI)

Technical and business studies

Murat Yuksel

University of Nevada, Reno (UNR)

Technical studies

A Scalable Internet Architecture

Key project points

- Global Routing vs. Distributed Routing on tiered structure
- Packet Switching vs. Contract Switching
- Multiple Addresses vs. Single Address

Discuss…

A Scalable Internet Architecture

NSF FIND Project Objectives

1. A Scalable and Robust Internetworking Architecture
2. Scalable Addressing and Ubiquitous Roaming
3. Contract Switching over the Scalable Internetworking Architecture
4. Economic and Risk flow Analysis of the Proposed Future Internet
5. Test Bed Implementation

The Survey

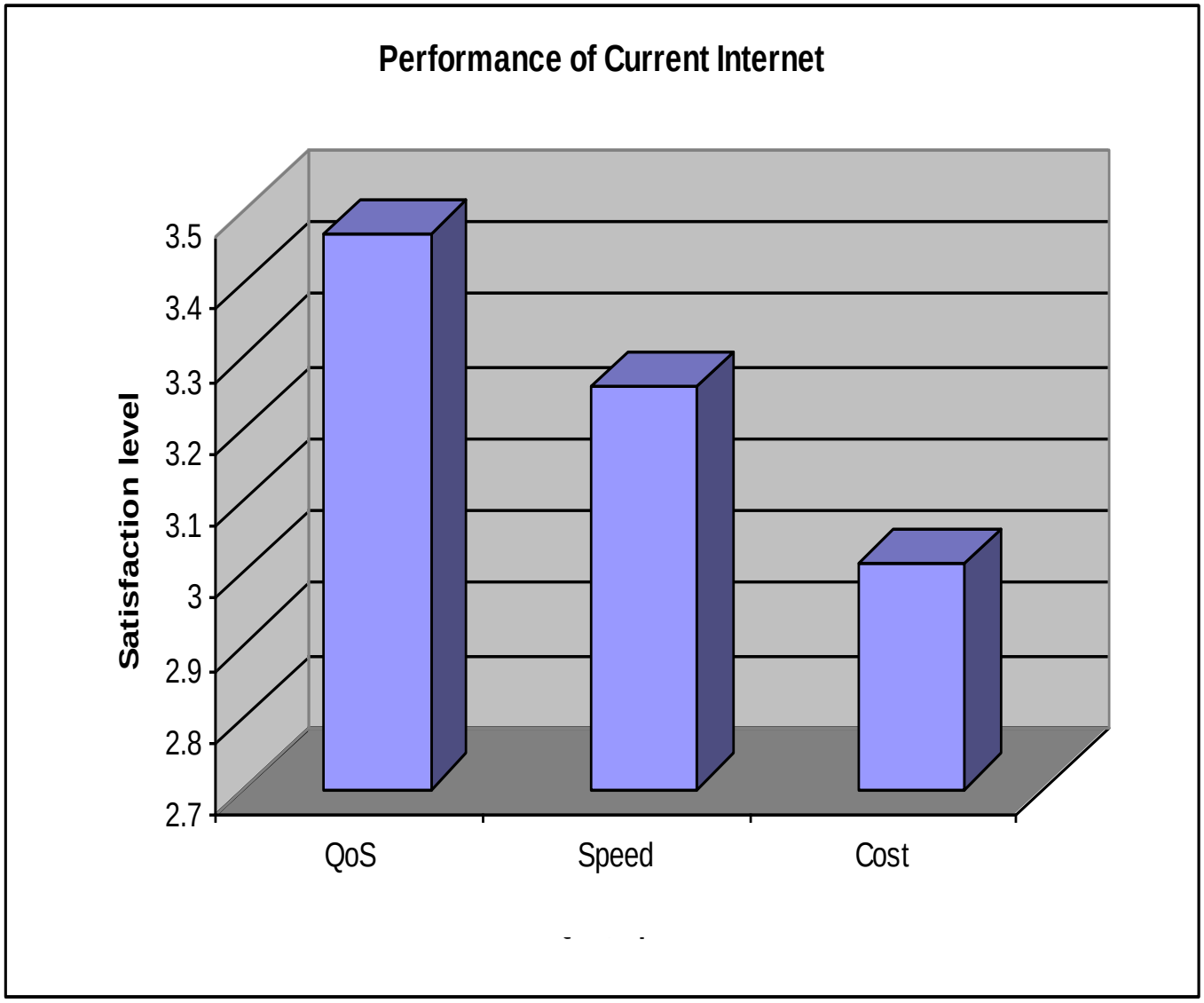
- NANOG 45 January 25-28th, 2009

- Survey Purpose:
  To examine the acceptability of both the current and the improved Internet architectures

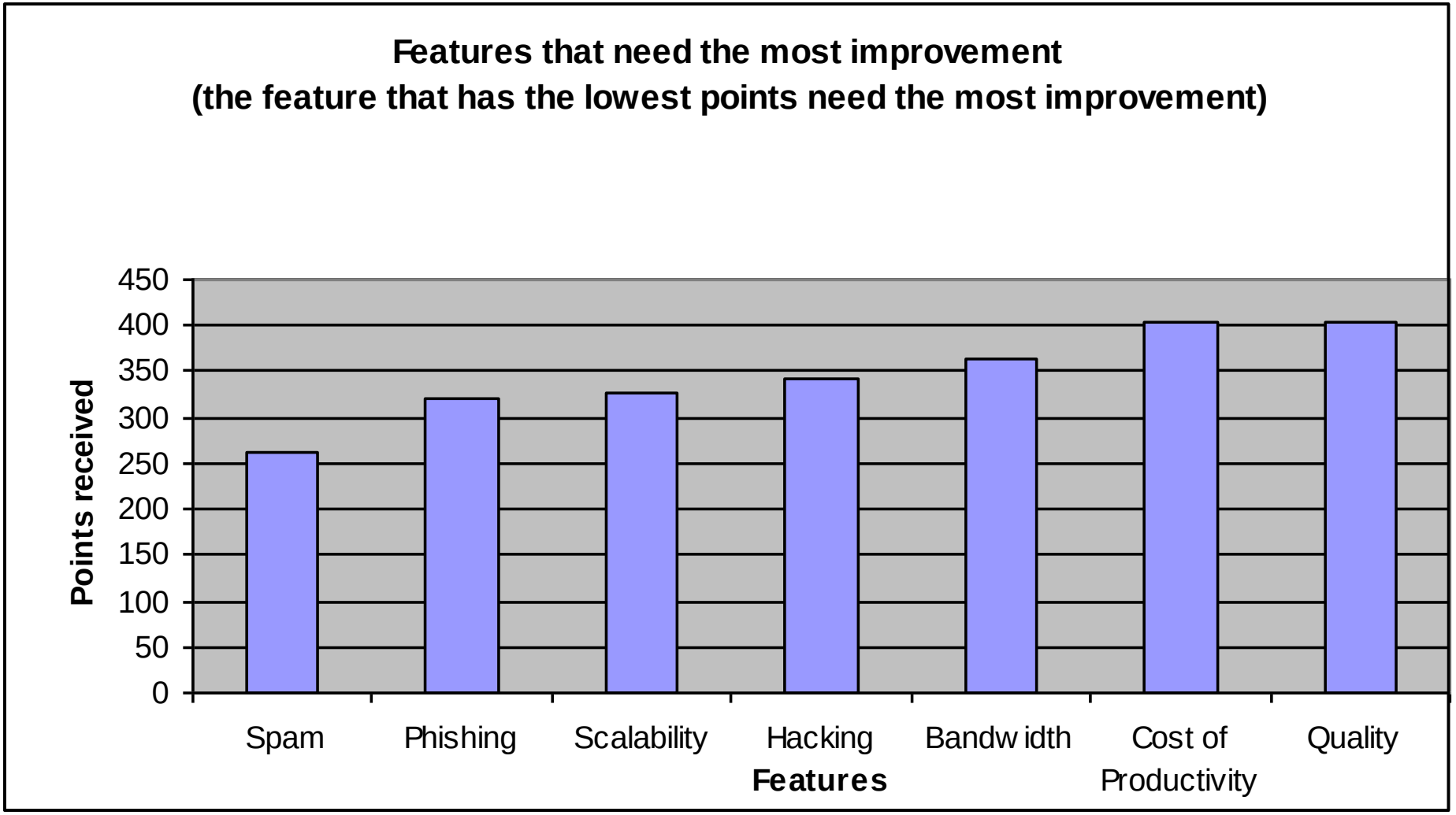
Survey Demographics

- 90 Responded, or 1/3 of attendees
  - ISP 56%
  - End user and Others 33%
  - Hardware Industry 6%
  - Software Industry 4%
  - Academics 1%

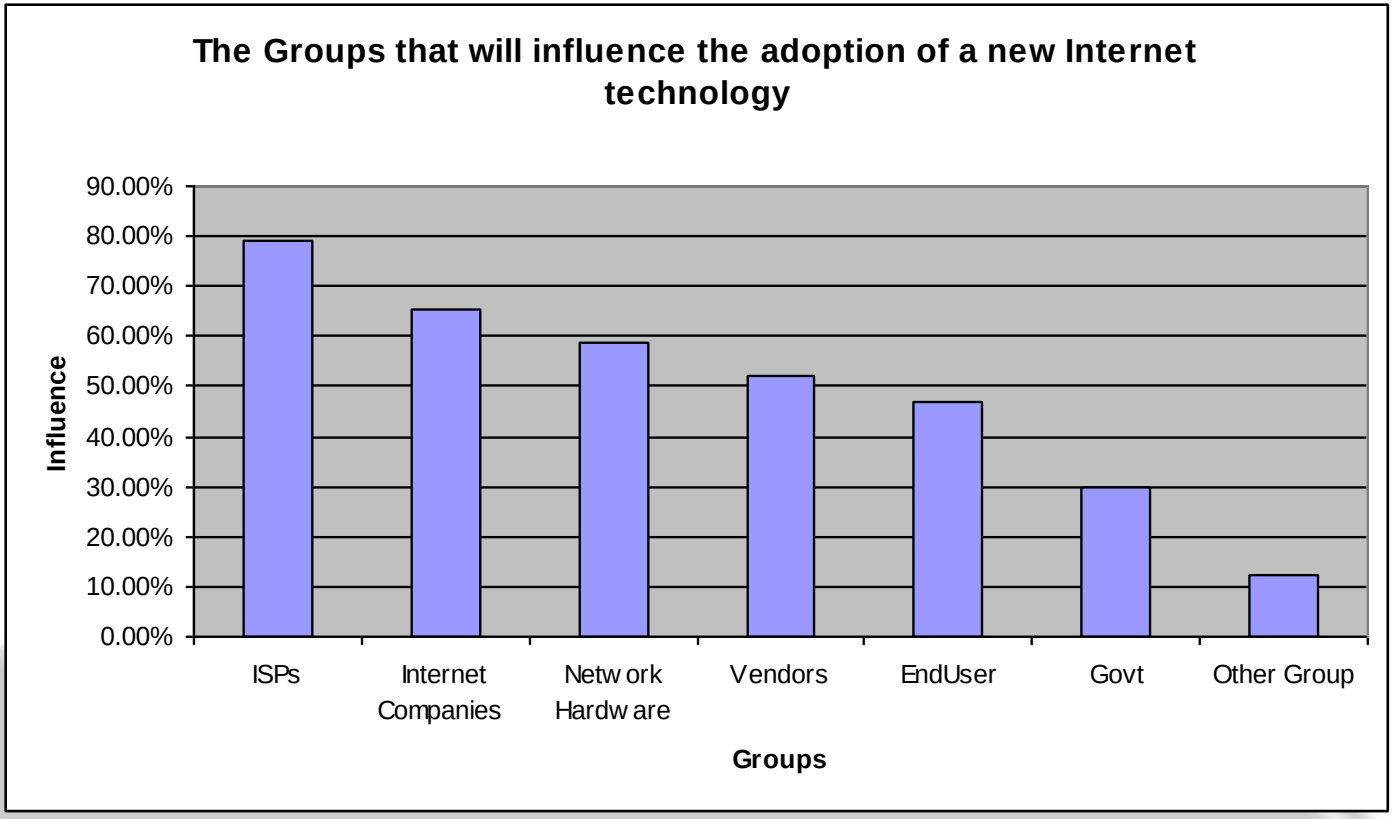
Satisfaction with Current Internet



Concerns with security and scalability



Who will lead change?



From a study of Internet stakeholders to evaluate the adoption of a new Internet infrastructure. Initial 90 respondents from NANOG 45 2009

Test bed

- Moving beyond network simulations
- Linux test bed in lab
- MPLS
  - to implement the proposed structure
- Seeking test bed partners

Drill Down & Follow Up

- You are invited for a web conference or visit
- See you at NANOG 47
- gsburdett@gmail.com