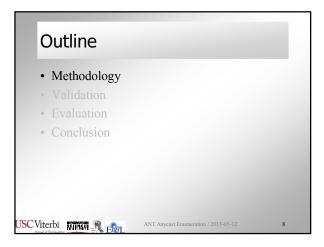
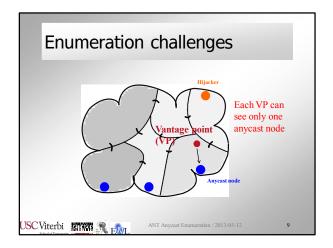
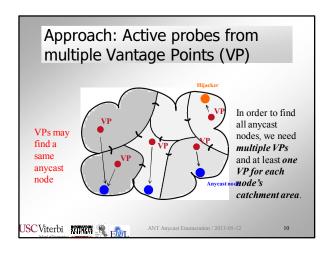


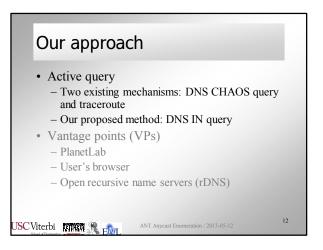
## Many people care • Anycast service providers - A "client-eye's" view of the service - Any masquerading or hijacking? • Purchaser of anycast services - Audit: "does the service I bought really have 60 nodes"?

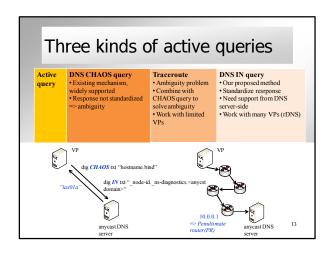


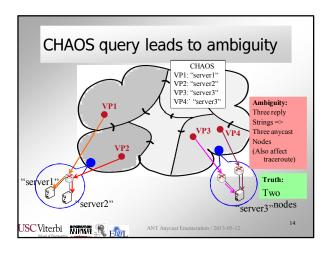


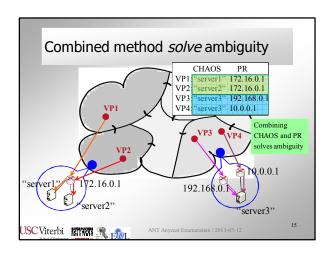


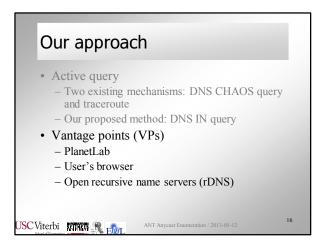
## Our approach • Active query - Two existing mechanisms: DNS CHAOS query and traceroute - Our proposed method: DNS IN query • Vantage points (VPs) - PlanetLab - User's browser - Open recursive name servers (rDNS) USC Viterbi

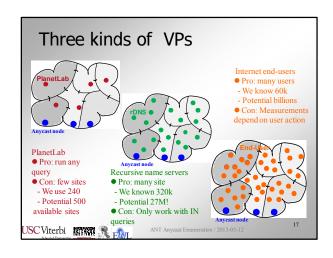


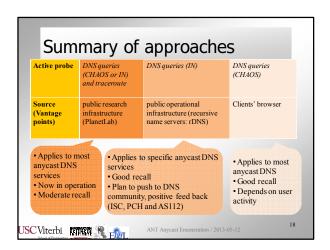


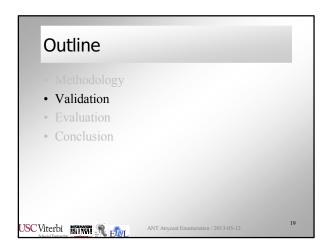


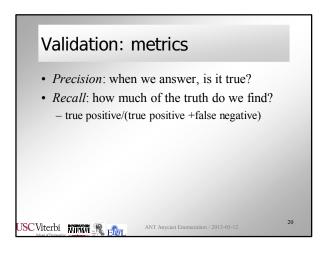


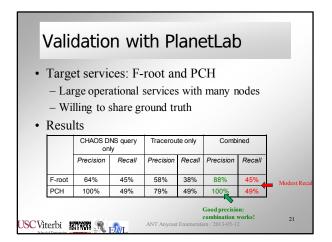


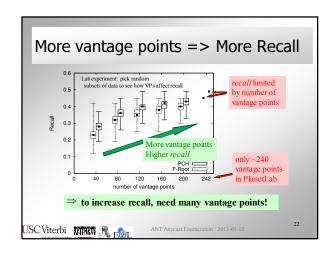


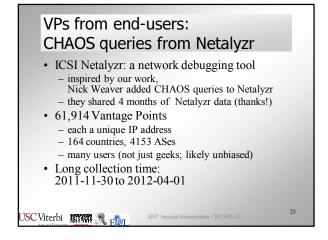


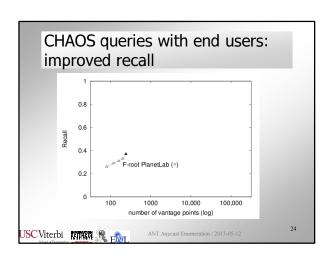


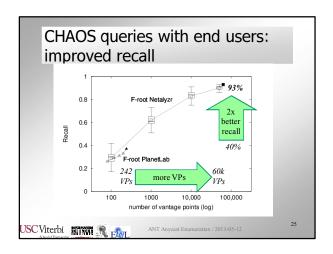


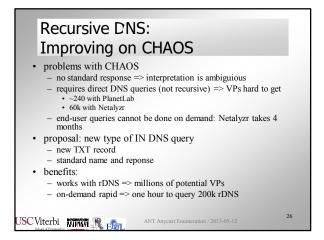


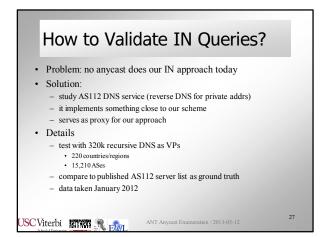


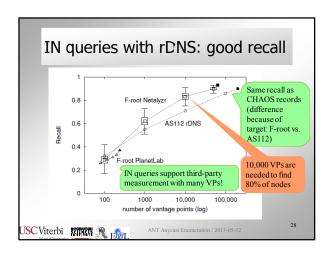


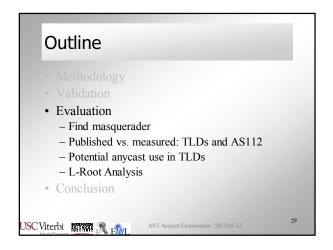


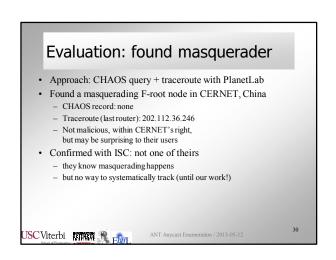


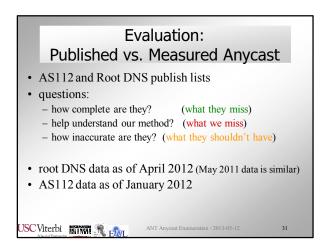


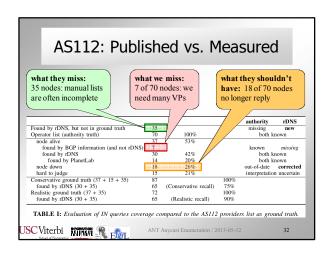


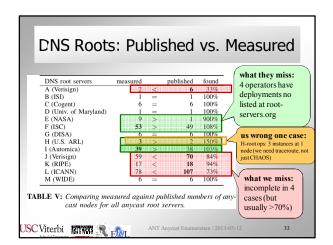


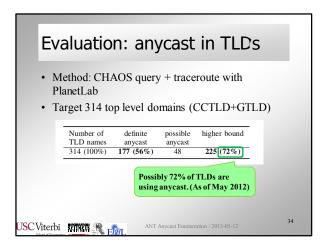


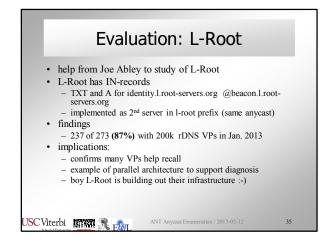


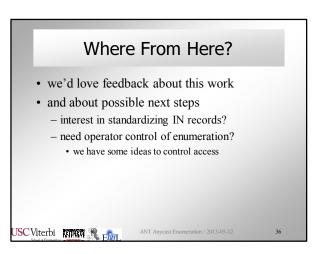












## Conclusions



- · New approaches to enumerate anycast

  - good recall
     new method improves recall vs. prior methods
- Evaluation of current anycast deployments
- Feedback about where next?



- · more info:
  - peer-reviewed paper: Fan et al. "Evaluating Anycast in the Domain Name System", INFOCOM 2013
     more detail in Tech Report: ftp://ftp.isi.edu/isi-pubs/tr-681.pdf
     dataset: http://www.isi.edu/ant/traces/anycast/index.html

