Will Google2Google be the next-generation Web search engine?
DBISP2P 2004 panel

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P2P - IR

• Application of P2P technology in the context of Web information retrieval has become a "hot topic"
  - e.g. P2PIR workshop at SIGIR
  - e.g. several contributions at DBISP2P and VLDB
  - e.g. even papers in SIGCOMM
  - etc.

• Many (technical) ideas
  - use overlay networks to implement distributed IR indices
  - use retrieval models to improve routing
  - shared ontologies to increase retrieval precision
  - etc.

• But what is the goal? Scalable Distributed Google?
An Example

• **ALVIS** – Superpeer Semantic Search Engine  
  (EU 6\textsuperscript{th} Framework Programme Project, started 2004, www.alvis.info)

"Building next generation search engines is not just a question of scaling existing techniques. What is needed is a departure from the existing keyword search cumbersome even for the skilled.

Qualitatively better ways are needed to allow more meaningful, semantically aware queries and new delivery modes are needed to make search another common resource in the spirit of the Web itself, to make search peer-to-peer."

• **in short:**
  "Web search" = "Shared resource" = "Peer2Peer" = "Google2Google"
Questions

• Technical Dimension
  - Is P2P retrieval technically possible at all?
  - Can it be superior in performance to centralized solutions?
  - Can it provide semantically better results?
  - Does it required novel retrieval models?

• Business Dimension
  - Will Google (and Yahoo, Microsoft etc.) enter and control the game?
  - Will they co-exist with P2P search networks?
  - Will new players enter the scene?
  - Will Web search become completely self-organizing?
Answers

• will be given by the following distinguished panel

Brian Cooper, Georgia Tech
Vana Kalogeraki, Uni California Riverside
Witold Litwin, Uni Paris Dauphine
Wolfgang Nejdl, Uni Hannover