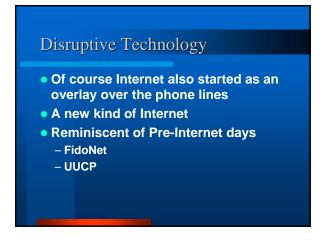
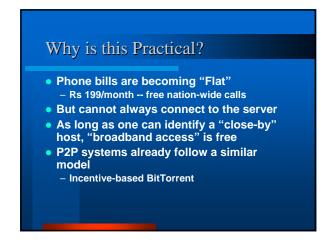
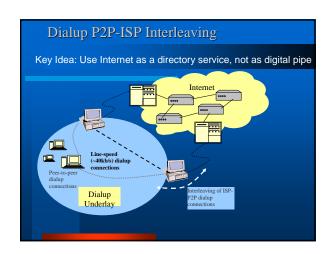


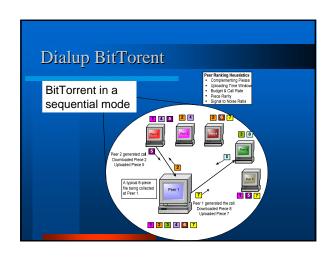


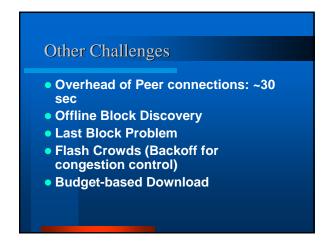
Email Attachments • Time to exchange a 3.5 MB file on the Internet ~ 1 hours (16 Kb/sec) – 30 mins upload and download – Assuming no disconnections • Time now (40 kb/sec) – 12 mins!!

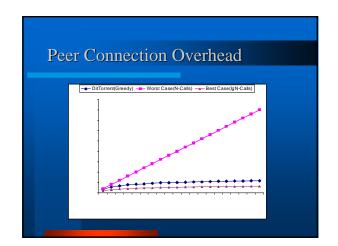


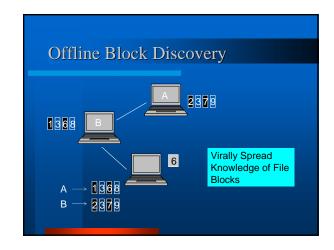


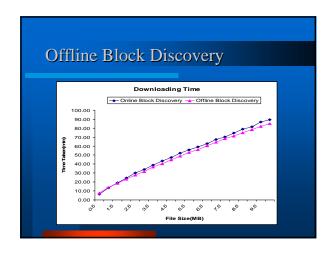


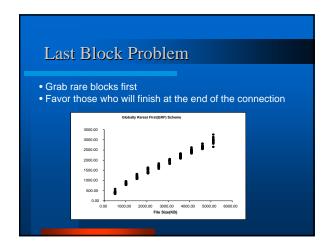


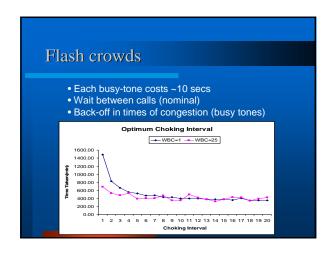


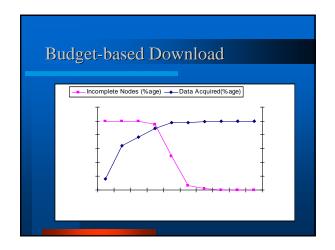






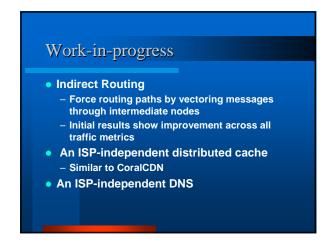


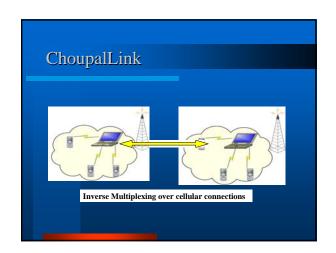




Three Evolving Applications P2P file-sharing Web-browsing Large Email attachments http://dittorrent.sourceforge.net

Can we do the same on the "Internet" Contain packets within the developingworld Routing paths are screwed up 'All roads lead to Rome" i.e. transit out of the country Low cache hit-rates Too many small ISPs, no sharing of cached content Misconfigured "Proxies" Hit rates < 30% (instead of >60%) Poor DNS support





TEK: Time Equals Knowledge • Web Search for Low-bandwidth, intermittently connected users • One of the first examples of mainstream ICTD research ~circa 2000 • Renewed interest with DTNs coming in vogue



