2013 CAFOE Session The Future Internet

Volker Hilt Bell Labs/Alcatel-Lucent



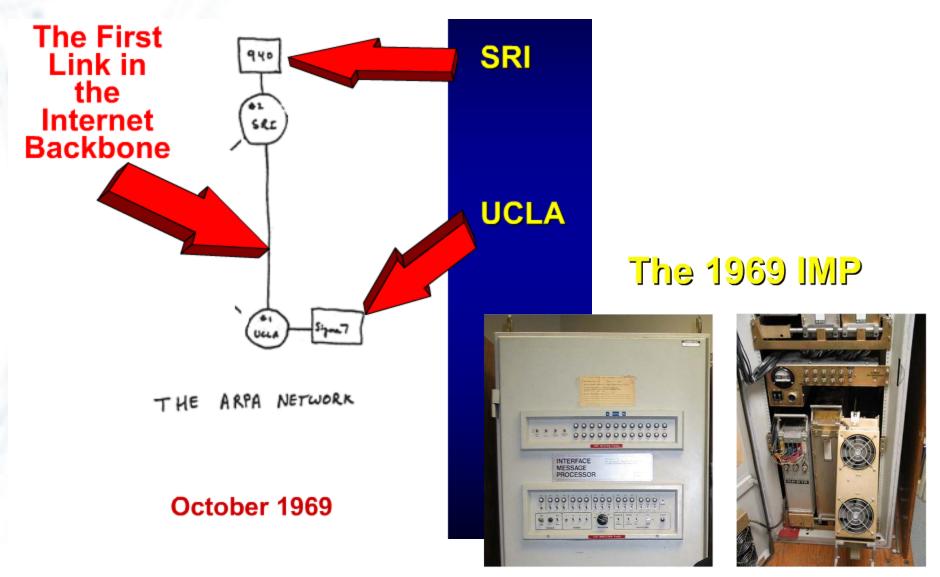
COPYRIGHT © 2013 ALCATEL-LUCENT. ALL RIGHTS RESERVED

Networking History: First Content Transmitted

- First Morse Code message:
 - "What hath God wrought?"
- First phone call by Alexander Graham Bell:
 - "Mr. Watson -- come here -- I want to see you."
- First content transmitted over the Internet?
 - "LO"
 - Intention was to send "LOGIN" ...
 - ... but the system crashed.
 - Sent by UCLA student programmer Charley Kline, at 10:30 pm, on October 29, 1969 who worked for Prof. Len Kleinrock



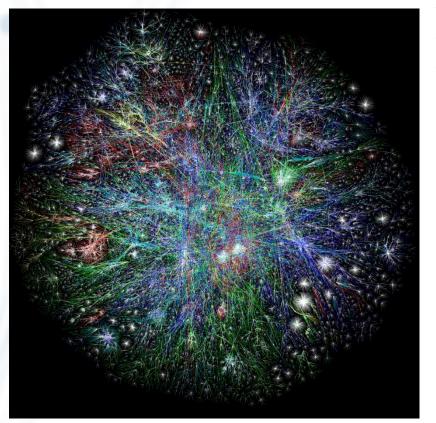
The Internet in 1969



Source: Len Kleinrock

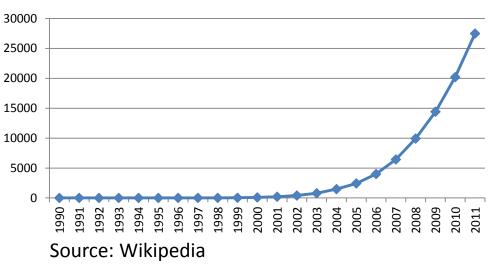


The Internet Today



Map of the Internet in 2003 Source: http://www.opte.org/maps/

Global IP Traffic (Petabyte/month)



All books, articles, essays, songs, images, movies, videos, TV shows and Web pages ever made digitized and compressed corresponds to 50 Petabyte.

Source: New York Times

In 2016, the gigabyte equivalent of all movies ever made will cross the global Internet every 3 minutes.

Source: Cisco



Speakers

Software-Defined Networks
 Anees Shaikh
 Senior Architect
 Systems Networking, IBM

 Named Data Networking Patrick Crowley Associate Professor Computer Science and Engineering Washington University

