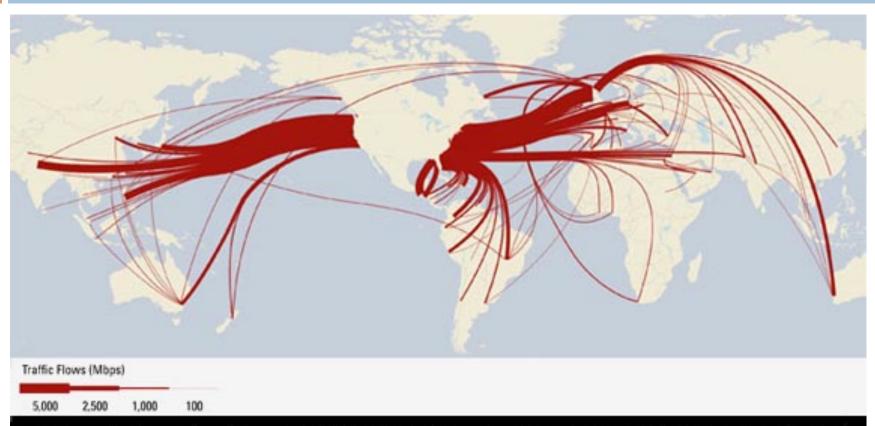
NARROWCAST, TELEGRAPH, AND TELEPHONE

Global Telephone Network



Much of the globe's international telephone traffic flows through the United States, as shown by this rendering of 2005 international phone-call traffic from telecommunications resarch firm, Telegeography.

Rlustration: Copyrighted Map Courtesy of Telegeography

Telegraph and Telephone

□ Samuel Morse (1791-1872)

"If the presence of electricity can be made visible in any desired part of the circuit, I see no reason why intelligence may not be instantaneously transmitted by electricity to any distance."

Fischer's America Calling

Intersection of technology, modernity, community

 Summarizes approaches to technology (Determinism, Symptomatic, SCOT)

□ Tool vs. Structure

Major Claims about the Telephone

"Weakening" local ties

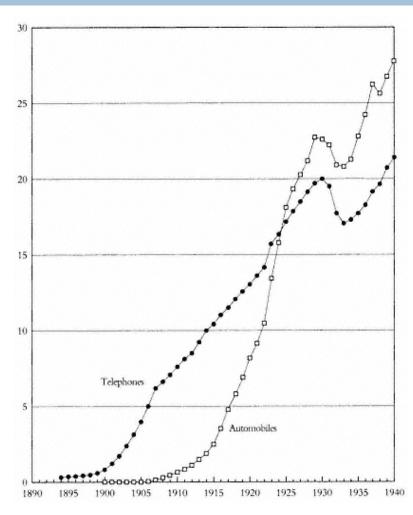
 De-localization: widely-held assumption about telephone as a tool to fight provincialism

Individual, subjective, and psychological effects: "a general withdrawal into self-pursuit and privatism"

Marketing:

- Finding uses but also managing use for the telephone:
 - Appropriate conversations
 - Time limits
 - Ending a conversation

Historical Development of the Telegraph/Telephone



MONOPOLY

- Infrastructure: Market Concentration necessary?
- □ First era of Monopoly: 1880-1893
- Era of Competition: 1894-WWI: Small providers band together against Bell.
- Subsequent consolidation: against growth?
- 1949: Case filed against Ma-bell: creation of baby bells,
 MFJ not a done deal until 1982

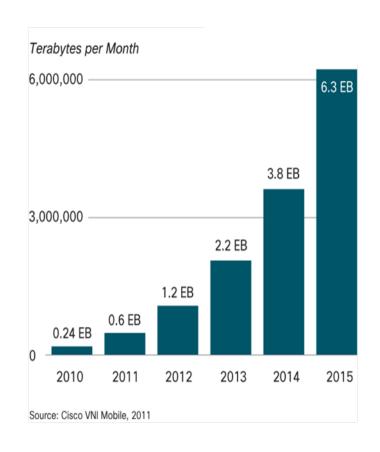
MOBILE

□ "Forget Ma Bell-Think Ma Cell"-CNN Money 2006

March 2011 "The Return of Ma Bell?"-Fox News et.
 al

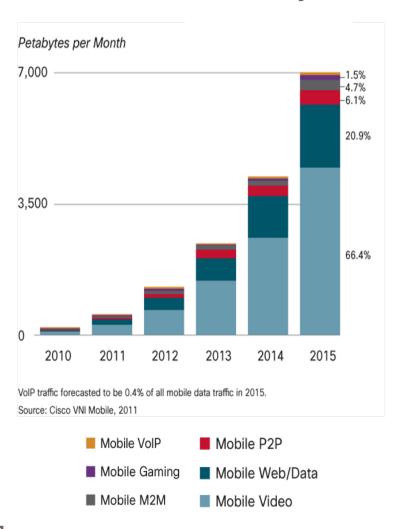


Cisco Forecast: 6.3 Exabytes/Month Mobile Data Traffic by 2015

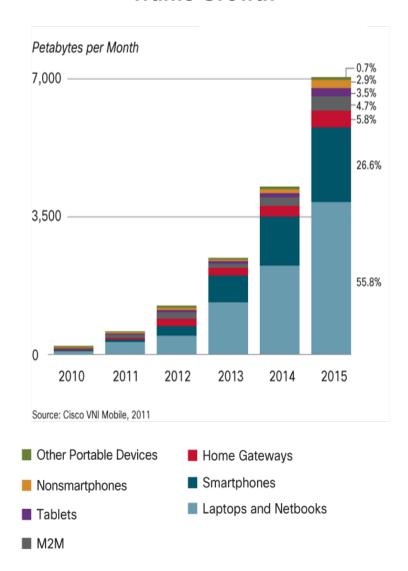


Cisco Analysis: Increase in Mobile Data Traffic

Cisco Forecasts 6.3 Exabytes per Month of Mobile Data Traffic by 2015



Laptops and Smartphones Lead Traffic Growth



Public vs Private

□ Telephone wires vs. road maintenance

Friday 8/5

- Optional review session
 - Please prepare questions
 - Discuss some midterm questions
- Midterm grades back by Friday
- Reading response #4 due on Monday (optional)
- □ Final exam
 - next week Friday 8/12
 - □ 10:10am, 90 mins