

History

Key Dates and Events (Telecommunications)

1876 - First long distance (about 10 miles) telephone call

1885 - Certificate issued for incorporation of AT&T

1915 - First transcontinental and first transatlantic voice connections

1948 - First microwave telephone transmission

1951 - Direct Distance Dialing (DDD)

1968 - *Carterfone* court decision

1984 - Federal judge consent decree to divide AT&T

1996 - Telecommunications Competition and Deregulation Act

History

Key Dates and Events (Information Systems)

Pre-1960 - Batch processing only, no data communications

1960's-mid 70's - Remote Job Entry (RJE) and online real-time systems

1970's - Transaction oriented systems,
database management systems
integrated systems

1980's - Microcomputer revolution begins

1990's - Networking of information processing systems becomes
a business essential

Inventory controls
POS Transactions
Credit card authorizations
Management reporting

History

Key Dates and Events (The Internet)

1969 - Started by the U.S. Department of Defense
Network of four computers called ARPANET
connecting four universities doing military research

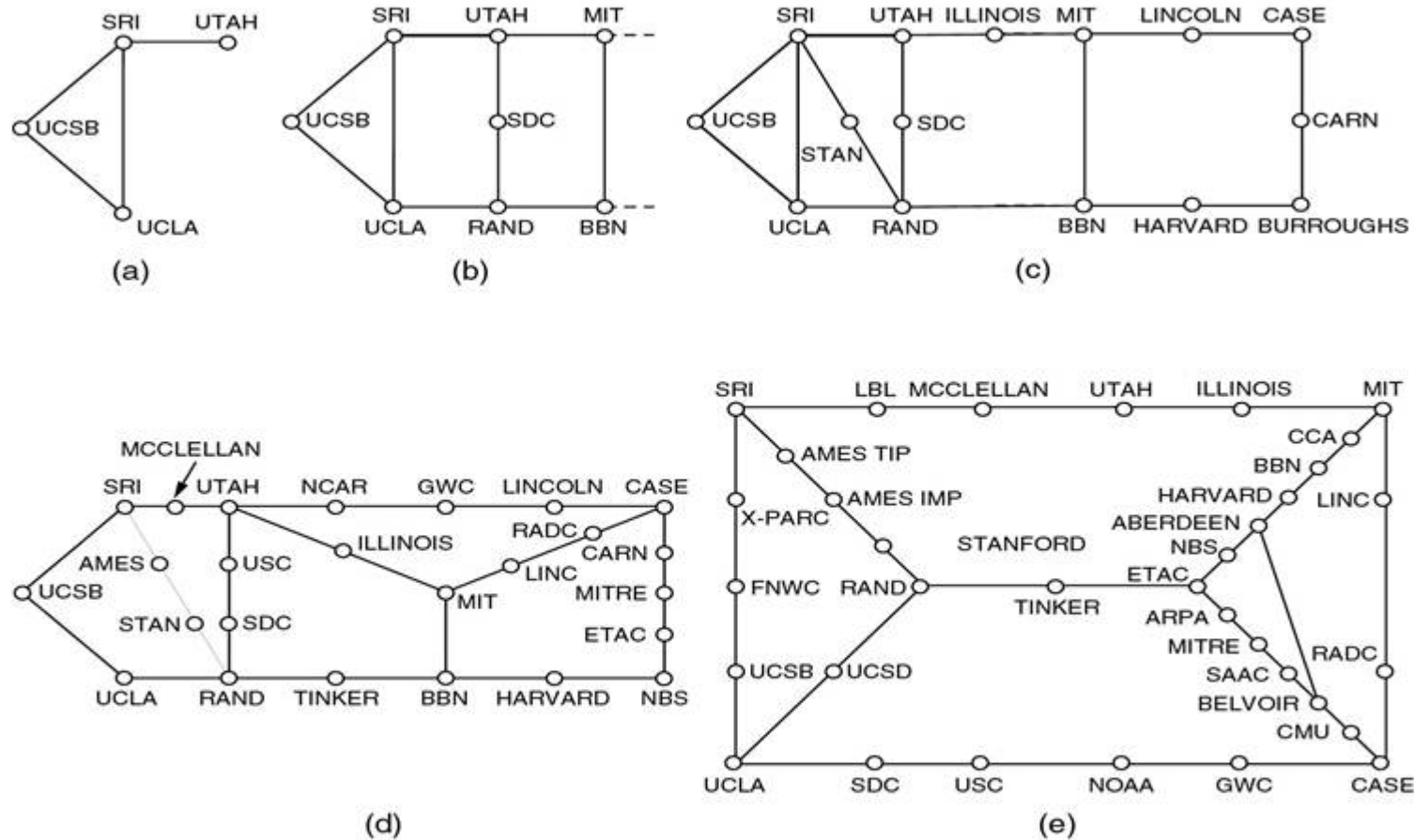
1983 - ARPANET splits into two separate networks
Milnet for the military
Internet for university research centers

1985 - Canadian *BITNET* completed connecting Canadian universities
coast-to-coast and with the *Internet* in the United States

1987 - *NSFNET* completed by the National Science Foundation
connecting leading U.S. universities performing NSF research

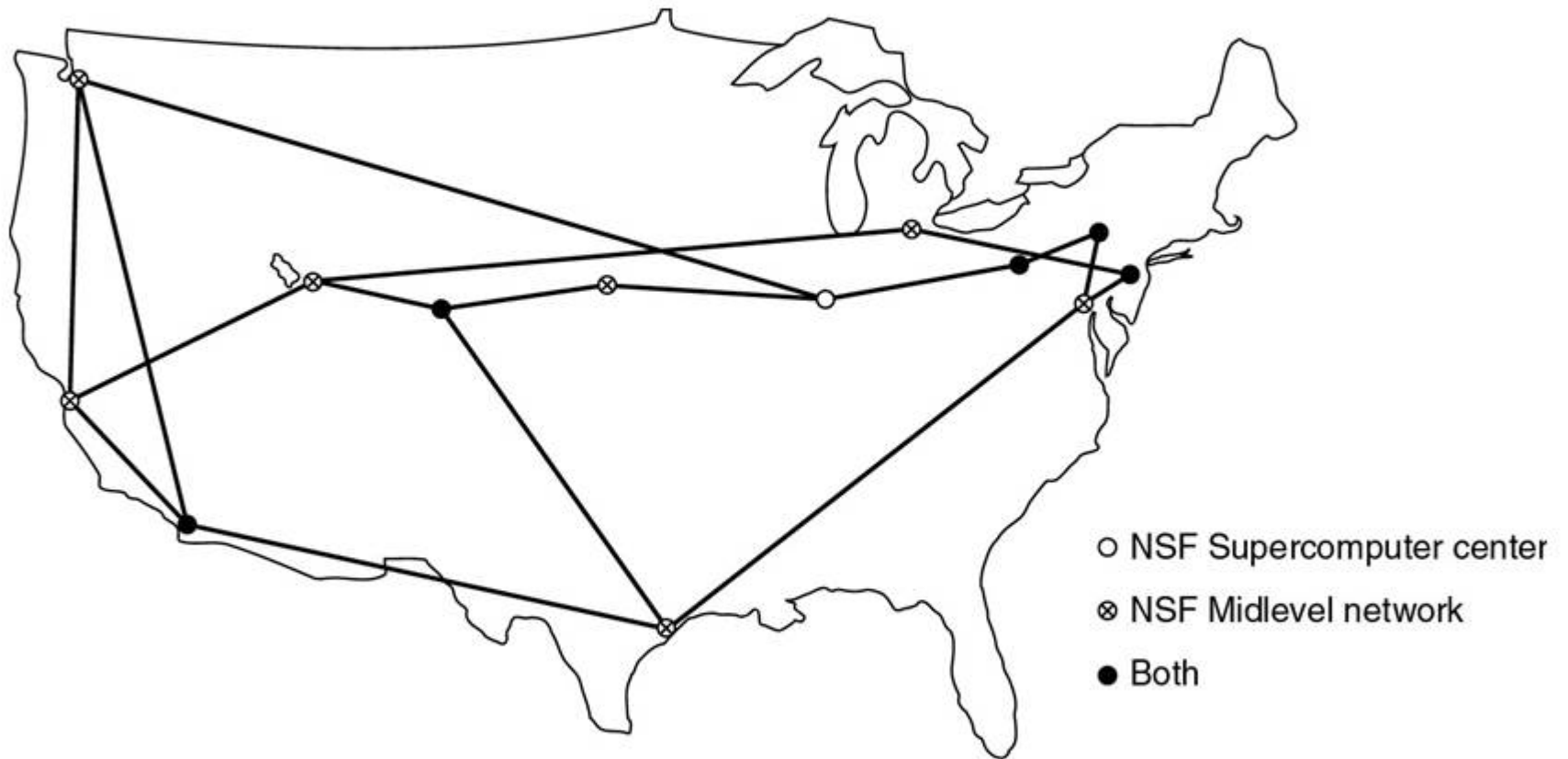
1990's - Commercialization of the *Internet*

The ARPANET (3)



Growth of the ARPANET (a) December 1969. (b) July 1970. (c) March 1971. (d) April 1972. (e) September 1972.

NSFNET



The NSFNET backbone in 1988.

Current Events:

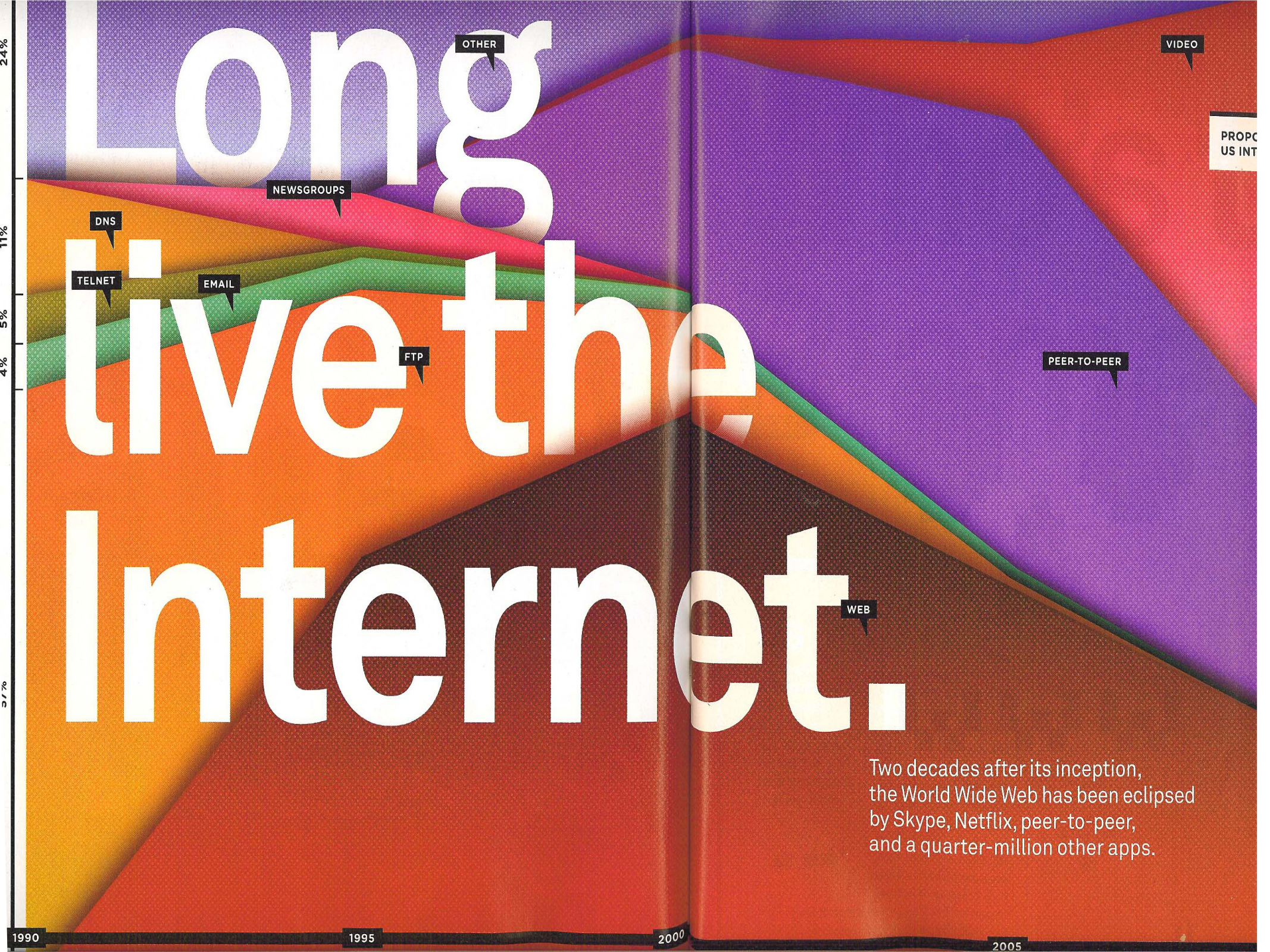
Data Communications During Emergencies

Warfare

Is the
World Wide Web
Dying?

Internet Traffic by Application

Application	1990 %	1995 %	2000 %	2005 %	2010 %
WEB	0	44	50	36	23
FTP	57	23	11	1	0
E-Mail	4	4	3	1	1
Telnet	5	1	0	0	0
DNS	11	0	0	0	0
NewsGroups	0	2	1	0	0
Peer-to-Peer	0	1	21	38	22
Video	0	0	1	15	51
Other	23	25	13	9	3
	100	100	100	100	100



Long live the Internet.

Two decades after its inception, the World Wide Web has been eclipsed by Skype, Netflix, peer-to-peer, and a quarter-million other apps.