HIGH-FIBER DIET

Growth of **US Optical Networks**

The last mile may be DSL, TV cable, wireless broadband, even laser beam, but the long-haul network backbone has a glowing heart of glass. The pace of fiber-optic buildout started accelerating in 1990. At that time, there were only four nationwide nets, operated by AT&T, MCI, Sprint, and Williams Telecom, plus a dozen regional carriers. Underground fiber totaled 2.8 million miles. What a difference the Web makes: Since 1995, the number of people online has jumped from 18 million to more than 120 million, and bandwidth is being siphoned off by an explosion of more and faster connections, handheld devices, and multimedia apps. Today there are 17.4 million miles of fiber beneath American soil, and experts don't see growth slowing much – especially with Qwest, Level 3, and their ilk laying surplus fiber from here to Schenectady. Good thing, too: Within five years, according to Forrester Research, 92 percent of US online users will communicate via pipe-hogging "personal rich media" - voice-, image-, and video-based messaging. Note to nationalists: Since 1995, Europe's annual installations of long-haul fiber networks have shot up nearly 700 percent. – Michael Behar

*As of March 31

1 As Global Crossing 2 As Montana Power Company
Source: KMI Corporation (www.kmicorp.com); Wired research

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npany Name	Ticker	Market Cap*	Founded	Key	
Communications	Privately held	N/A	1996		
tel	AT	\$19.9 billion	1983		
&T	Т	\$179.9 billion	1885		
oadwing	BRW	\$7.5 billion	1999		
TI Communications Group	Privately held	N/A	1983		
apRock Communications	CPRK	\$1.6 billion	1998		
Columbia Energy Group	CG	\$4.8 billion	1929		
Conectiv	CIV	\$1.6 billion	1997		
C3 Communications	CSR	\$3.6 billior	1994		
Electric Lightwave	ELIX	\$1.2 billio	n 1990		
Enron	ENE	\$54.3 bill	lion 199	6 —	
Entergy	ETR	\$4.8 billi	on 194	9	
FiberNet Telecom Group	FTGX	\$466.8	million 199	94	
Frontier	GBLX	\$31.9 b	illion 19	971	
GST Telecommunication	s GSTX	\$231.0	million 19	994 —	
lowa Network Services	Private	ely held N/A	1	986	•••••
ITC DeltaCom	ITCD	\$2.1	billion	1996 —	
Level 3 Communicatio	ns LVLT	\$36.	1 billion	1998	
MCI WorldCom	WCC	M \$129	9.4 billion	1997 —	
McLeodUSA	MCL	.D \$13	.6 billion	1991 —	
Minnesota Power	MP	L \$1.2	2 billion	1924 -	
Norlight Telecommu	ınications Pri	vately held N/	'A	1972 -	
NorthEast Optic Ne	twork NO	OPT \$1	l.4 billion	1989	
NTS Communication	ons Pr	rivately held N	I/A	1981	
Onvoy	P	rivately held	N/A	1999	
Pathnet		Privately held	N/A	1995	
Qwest Communic	ations	Q	\$36.1 billion	1995	
South Dakota Ne	twork	Privately held	N/A	1989	
Sprint		FON	\$55.2 billion	n 1899	
Touch America		MTP	\$6.8 billion	1983²	
ValleyNet		Privately held	N/A	1989	-
Williams Comm	nunications	WCG	\$24.1 billi	on 1985	
Williams Com	indifficacions	WCG	724.1 DIIII	011 1903	



