

Sample Track Record

YEAR/ TECHNOLOGY	TFI FORECAST THEN	SITUATION THEN	COMMON WISDOM THEN	ACTUAL OUTCOME
2003 Fiber to the Premises	14% of Households to be passed by FTTP in 2008 (Middle Scenario)	No Announced Plans by Major ILECs	FTTP Too Expensive	11% of Households passed by FTTP in 2008
2003 Broadband Subscribers	52% of Households will Subscribe to Broadband by 2007	14% of Households Subscribe to Broadband	Broadband is for Higher Income Consumers	58% of Households Subscribe to Broadband in 2007
2001 Wireless-Only Households	30% of Households will be Wireless-Only by 2007	Wireless-Only Households Very Rare	Wireless-Only is Just a Niche Market	16% of Households are Wireless-Only in 2007
2001 Residential Access Lines	Residential Access Lines to Fall to 85 Million by 2007	Access Lines Stable at 122 Million	Small Decline Possible due to Loss of 2nd Lines to Broadband	Residential Access Lines in 2007: 84.5 Million
2001 3G Cellular Subscribers	7.5% of Cellular Subscribers will be 3G by 2007	Neither 2.5G nor 3G Deployed Yet	3G Risky due to High Investment and Wireless LANs	Estimated 10.6% of Cellular Subs are 3G in 2007
1999 Internet Bandwidth	Annual Growth Rate Below 100% by 2003 (Base Case)	Recent Annual Growth Rates of 200% or More	Let's Drastically Expand Fiber Networks!	Annual Growth Rate in Mid-2000s: 50-60%
1998 Demise of Analog Cellular	Last Analog Subscriber Most Likely in 2008	88% of Subscribers Still Analog	Digital will be Concentrated in Metro Areas	Last Analog Subscriber March 2008
1997 Broadband Subscribers	37% of Households will Subscribe to Broadband by 2007	Residential Broadband Unavailable	56 Kb/s Dial-up is Good Enough for Consumers	58% of Households Subscribe to Broadband in 2007
1997 Premium Broadband	18% of Households will Subscribe to Premium BB (~6Mb/s) by 2007	No Residential Broadband at Any Speed	See Above	25% of Households Subscribe to Premium in 2007
1997 Very Highspeed Broadband	1%-2% of Households will Subscribe to VHS BB (>10Mb/s) by 2007	See Above	See Above	1.7% of Households Subscribe to VHS BB in 2007
1995 HDTV	28% of Households will have an HDTV by 2007	HDTV Intro Still 5 Years in Future	Success of HDTV Uncertain	30% of Households have an HDTV in June 2007
1995 Local Exchange Access Lines	Switched Access Lines to Peak in 2000	Access Lines Growing at 3% Annually	Continued Growth due to 2nd Lines for Voice and Data	Switched Access Lines Peak at 187.3M in 2000
1992 Online Households	17% of U.S. Households Will Be Online by 1997	Less Than 1% of Households Online Arrival	Videotex/Online Services "Dead on Arrival"	20% of All HHs Online in 1997, Over 40% by 2000
1991 Electronic Image	Most Computer-based Images Sent Electronically by 2000	Most Images Sent by Hard Copy, Tape, Diskette or Fax	Varied	Internet/WANs Handle Wide Variety of Imaging
1990 Digital Communi- cation Services	Mass Market for Digital Communication Services will Develop in 1990s	Severe Problems Rolling Out ISDN	No Need for Digital; Analog Modems Okay for Mass Market	1-2 Million XDSL and Cable Market Modems in 2000 and Rapidly Growing
1989 SONET	40% of LEC Fiber Circuits on SONET in 1997	SONET in Technical Field Tests	SONET Promising but Unknown	40% of LEC Fiber Circuits on SONET in 1997
1988 Digital Loop Carrier	15% of Access Lines on Fiber Digital Loop Carrier by 1996	1% of Access Lines on Fiber Digital Loop Carrier (DLC)	DLC Only Useful for Long Loops (<10% of Access Lines)	15% of Access Lines on Fiber DLC in 1997
1987 Wireless vs. Wireline	Wireless Will Compete With Wireline by the Late 1990s	U.S. Wireless Subscribers Under 1 Million	Wireless Is Strictly a Complement to Wireline	100 Million U.S. Subscribers in 2000. Wireless for Wireline Begins
1987 Cellular Prices	Cellular Total Monthly Cost (250 Minutes) Down to \$40-60 by 1997	Total Monthly Cost: \$145	Cellular Inherently Expensive	\$30 Monthly for 250 Minute Plans Common
1986 Local Digital Switching	All Local Digital Switching by 1997-2001	11% Digital, 60% Analog ESS & Growing	Few Analog ESS Retirements Before 2000	92% Digital in 1998; 98% by 2000