FOIA Number: 2019-0203-F

FOIA MARKER

This is not a textual record. This is used as an administrative marker by the William J. Clinton Presidential Library Staff.

Collection/Record Group: Clinton Presidential Records

Subgroup/Office of Origin: National Economic Council

Series/Staff Member: Gene Sperling

Subseries:

OA/ID Number: 20240

FolderID:

Folder Title:
Digital Divide North Carolina Book April 26, 2000 [binder] [4]

Stack:	Row:	Section:	Shelf:	Position:
S	17	2	1	1

Withdrawal/Redaction Sheet
Clinton Library

DOCUMENT NO. AND TYPE	SUBJECT/TITLE	DATE	RESTRICTION
001. list	To Do List re: China and Senegal (2 pages)	04/19/2000	P1/b(1)

COLLECTION:
Clinton Presidential Records
National Economic Council
Gene Sperling
OA/Box Number: 20240

FOLDER TITLE:
Digital Divide North Carolina Book April 26, 2000 [binder] [4]

2019-0203-F
jm2850

RESTRICTION CODES

Presidential Records Act - [44 U.S.C. 2204(a)]

P1 National Security Classified Information [(a)(1) of the PRA]
P2 Relating to the appointment to Federal office [(a)(2) of the PRA]
P3 Release would violate a Federal statute [(a)(3) of the PRA]
P4 Release would disclose trade secrets or confidential commercial or financial information [(a)(4) of the PRA]
P5 Release would disclose confidential advice between the President and his advisors, or between such advisors [a)(5) of the PRA]
P6 Release would constitute a clearly unwarranted invasion of personal privacy [(a)(6) of the PRA]

C. Closed in accordance with restrictions contained in donor's deed of gift.
PRM. Personal record misfile defined in accordance with 44 U.S.C. 2201(3).
RR. Document will be reviewed upon request.

Freedom of Information Act - [5 U.S.C. 552(b)]

b(1) National security classified information [(b)(1) of the FOIA]
b(2) Release would disclose internal personnel rules and practices of an agency [(b)(2) of the FOIA]
b(3) Release would violate a Federal statute [(b)(3) of the FOIA]
b(4) Release would disclose trade secrets or confidential or financial information [(b)(4) of the FOIA]
b(6) Release would constitute a clearly unwarranted invasion of personal privacy [(b)(6) of the FOIA]
b(7) Release would disclose information compiled for law enforcement purposes [(b)(7) of the FOIA]
b(8) Release would disclose information concerning the regulation of financial institutions [(b)(8) of the FOIA]
b(9) Release would disclose geological or geophysical information concerning wells [(b)(9) of the FOIA]

APPENDIX A: CABLE MODEM DEPLOYMENT
Availability of Cable Modem Service in the United States

Appendix A is a compilation of areas where cable modem service is offered to at least part of the city or area. In most cases, cable modem service is added a neighborhood at a time as the system is upgraded.

Sources: Provider information is from *Cable Modem Deployment Update*, Communications, Engineering and Design (CED) Magazine, March 2000 (www.cedmagazine.com). The population data are from the U.S. Census Bureau's 1990 Census Gazetteer, (www.census.gov/cgi-bin/gazetteer).

Area and Provider	Population
AT&T Broadband & Internet Services	
Alameda, Calif.	76,459
Albany/Corvallis City, Ore.	74,219
Allen, Texas	18,309
Alton, Ill.	32,905
Antioch, Calif.	62,195
Arlington Heights, Ill.	75,460
Arvada, Colo.	89,235
Auburn, Ala.	33,830
Aurora/Lowery, Colo.	222,103
Baden/Monessen/Ross Township, Pa.	48,457
Baton Rouge, La.	219,531
Battle Creek, Mich.	53,540
Beaverton, Ore.	53,310
Berlin, Conn.	Not Available
Birmingham, Ala.	265,968
Boise City/Nampa/Caldwell, Idaho	172,503
Bremerton, Wash.	38,142
Bristol, Conn.	60,640
Carnegie/McDonald, Pa.	13,782
Castle Shannon, Pa.	9,135
Castro Valley, Calif.	48,619
Cedar Falls/Waterloo, Iowa	100,765
Cedar Rapids, Iowa	108,751
Chicago/Chicago suburbs, Ill.	2,783,726*
Clinton, Iowa	29,201
Colleyville, Texas	12,724
Columbia, Mo.	69,101
Columbus, Ga.	178,681
Corliss, Pa.	Not Available
Cupertino, Calif.	40,263
Dallas, Texas	1,006,877
DeSoto/Cedar Hill, Texas	50,520
Decatur, Ill.	83,885
Denham Springs La.	8,381
Des Moines, Iowa	193,187
Des Plaines, Ill.	53,233
Dublin, Calif.	23,229

Area and Provider	Population
AT&T Broadband & Internet Services	
Dubuque, Iowa	57,546
East Lansing, Mich.	50,677
Edgewater, Colo.	4,613
Enumclaw, Wash.	7,227
Eugene, Ore.	112,669
Euless, Texas	38,149
Farmers Branch, Texas	24,250
Ferndale, Wash.	5,398
Flower Mound, Texas	15,527
Fort Collins, Colo.	87,758
Foster City/Hillsborough, Calif.	38,843
Fremont, Calif.	173,339
Frisco, Texas	6,141
Galesburg, Ill.	33,530
Garland, Texas	180,650
Golden, Colo.	13,116
Grand Junction, Colo.	29,034
Grand Prairie, Texas	99,616
Grand Rapids, Mich.	189,126
Greeley, Colo.	60,536
Greensburg, Pa.	16,318
Griffith, Ill	Not Available
Hartford, Conn.	139,739
Harvey/South Holland, Ill	51,876
Hayward, Calif.	111,498
Hercules, Calif.	16,829
Highland Park, Ill.	30,575
Hueytown/Tarrant, Ala.	23,326
Iowa City, Iowa	59,738
Iowa City, Texas	Not Available
Lakewood, Colo.	126,481
Lancaster/Hutchins, Texas	24,836
Lewiston, Idaho	28,082
Livermore, Calif.	56,741
Lynden, Wash.	5,709
Marin County, Calif.	230,096
McKees Rocks, Pa.	7,691
McKeesport, Pa.	26,016
McKinney, Texas	21,283
Mercer Island, Wash.	20,816
Mesquite, Texas	101,484
Milpitas/Santa Clara, Calif.	101,967
Moline, Iowa	Not Available
Mon Valley/Donora, Pa.	Not Available
Montgomery, Ala.	187,106
Mount Prospect, Ill.	53,170

Area and Provider	Population
AT&T Broadband & Internet Services	
Muscatine, Iowa	22,881
Muskegon, Mich.	40,283
Nashville-Davidson, Tenn.	488,374
New Britain/Plainville, Conn.	Not Available
Oak Lawn, Ill.	56,182
Ogden, Utah	63,909
Olympia, Wash.	33,840
Overland/St. Ann/Alton, Mo.	33,168
Park Ridge, Ill.	36,175
Penn Hills/East Hills, Ill.	Not Available
Peoria, Ill.	113,504
Peru, Ill.	9,302
Petaluma, Calif.	43,184
Pinole, Calif.	17,460
Pittsburg, Calif.	47,564
Pittsburgh/Aliquippa, Pa.	383,253
Plano, Texas	128,713
Pleasanton, Calif.	50,553
Portland, Ore.	437,319
Pueblo, Colo.	98,640
Richardson, Texas	74,840
Richmond, Calif.	87,425
Rochester, Mich.	7,130
Rock Island, Ill.	40,552
Royal Oak, Mich.	65,410
St. Charles/O'Fallon, Mo.	73,253
Salem, Ore.	107,786
Salt Lake City, Utah	159,936
Sammamish City, Wash.	Not Available
San Mateo, Calif.	85,486
San Ramon, Calif.	35,303
Santa Clara, Calif.	93,613
Schaumburg, Ill.	68,586
Seattle, Ill.	Not Available
Seattle, Wash.	516,259
Simsbury Center, Conn.	5,577
Skyway/Georgetown/White Center-Shorewood, Wash.	Not Available
South San Francisco, Calif.	54,312
Spokane, Wash.	177,196
Springfield, Mo.	140,494
State College/Castle Shannon, Pa.	48,058
Steubenville, Ohio.	22,125
Stonebridge, Texas	Not Available
Streamwood, Ill.	30,987
Sunnyvale, Calif.	117,229

Area and Provider	Population
AT&T Broadband & Internet Services	
Tacoma, Wash.	176,664
Tulsa, Okla.	367,302
Valparaiso, In.	24,414
Vancouver, Wash.	46,380
Walled Lake, Mich.	6,278
Watertown, S.C.	Not Available
Waukegan, Ill.	69,392
Wheat Ridge/Lakewood, Colo.	155,900
Woodhaven, Mich.	11,631
Adelphia	
Adams, Mass.	6,356
Bethel Park/West Mifflin/Plymouth Meeting, Pa.	63,708
Blacksburg, Va.	34,590
Buffalo, N.Y.	328,123
Burlington, Vt.	Not Available
Canaan, Ohio	Not Available
Charlottesville, Va.	40,341
Coudersport, Pa.	2,854
Delray Beach, Fla	47,181
Grand Island, N.Y.	Not Available
Hilton Head Island, S.C.	23,694
Lansdale, Penn.	16,362
Liberty/Amelia, Ohio	Not Available
Macedonia, Ohio	7,509
Mount Lebanon, Penn.	33,362
Niagara Falls, N.Y.	61,840
North Adams, Mass.	16,797
Norwich, N.Y.	7,613
Palm Beach Gardens, Fla.	22,965
Philadelphia, Pa.	1585577
Pittsburgh, Pa.	369,879
Plymouth, Mass.	7,258
Dade City, Fla.	5,633
Staunton, Va.	24,461
Stuart, Fla.	11,936
Sturgis, Ky.	2,184
Toms River, N.J.	7,524
Tonawanda, NY	17,284
Waynesboro, Va.	18,549
Wellington, Fla.	20,670
West Boca, Fla.	Not Available
West Palm Beach, Fla.	67,643
Western Reserve, Ohio	Not Available
Winchester, Va.	21,947

Area and Provider	Population
Advanced Cable Communications	
Coral Springs, Fla.	79,443
Weston, Fla.	Not Available
Bend Cable	
Bend/Black Butte/Sisters, Ore.	20,469
Blue Ridge Communications	
Ephrata, Pa.	12,133
Lehighton/Palmerton, Pa.	11,308
Mansfield, Pa.	3,538
Stroudsburg, Pa.	5,312
Bresnan	
Bay City, Mich.	38,936
Dickinson County, Mich.	26,831
Duluth, Minn.	85,493
Escanaba/Manistique, Mich.	17,115
Houghton, Mich.	7,498
Iron Mountain, Mich.	8,525
Lake Superior, Mich.	Not Available
Madison, Wis.	191,262
Mankato, Minn.	31,477
Marquette, Mich.	21,977
Marshall, Minn.	12,023
Midland, Mich.	38,053
Munising, Mich.	2,783
Northwoods, Mich.	Not Available
Rochester, Minn.	70,745
St. Cloud, Minn.	48,812
Superior, Wis.	27,134
Winona, Minn.	25,399
Buenavision	
Los Angeles, Calif.	3,485,398
Cable Co-op of Palo Alto	
Palo Alto, Calif.	55,900
Cable TV of the Kennebunks	
Kennebunk, Maine	4,206
CableAmerica	
Maryland Heights, Mo.	25,407
Waynesville, Mo.	3,207
CableComm	
Johnstown, Pa.	28,134
Cablevision Systems	
Fairfield County, Conn.	827,645
Long Island, N.Y.	Not Available
Cablevision of Lake Havasu	
Lake Havasu, Ariz.	24,363
Capital Cable	
Boone/Columbia County, Mo.	181,480

Area and Provider	Population
Central Valley Cable	
Coalinga, Ga.	Not Available
Charter Communications	
Alhambra, Calif.	82,106
Albertville/Arab, Ala.	20,828
Alcoa, Tenn.	6,400
Alexander City, Ala.	14,917
Alexandria/Brainerd/La Cross/Park Rapids, Minn.	Not Available
Altoona, Pa.	51,881
Anderson, S.C.	26,184
Asheville, N.C.	61,607
Athens, Ga.	45,734
Barre, Vt.	Not Available
Bedford, Va.	6,073
Beloit, Wis.	35,573
Bloomer, Wis.	3,085
Boone, N.C.	12,915
Buies Creek, N.C.	2,085
Buncombe County, N.C.	174,821
Burnsville, N.C.	1,482
Camp LeJeune Central, N.C.	Not Available
Carrollton, Ga.	16,029
Charleston, W. Va.	57,287
Charter Commons/Florisant, Mo.	Not Available
Chicopee, Conn.	Not Available
Clare, Mich.	3,021
Cleveland, Tenn.	30,354
Columbia, Tenn.	28,583
Cookeville, Tenn.	21,744
Cornell, Wis.	1,541
Covington, La.	7,691
Denton, Texas	66,270
Douglas, Ga.	10,464
Dublin, Ga.	16,312
Eau Claire, Wis.	56,856
Evansville/Fond Du Lac/Fort Atkinson, Wis.	51,158
Fenton, Mich.	8,444
Fort Worth, Texas	447,619
Folsom, La.	469
Gaffney, S.C.	13,145
Gainesville, Ga.	17,885
Gardendale, Ala.	9,251
Glendale/Burbank, Calif.	273,681
Gray Court/Greer, S.C.	11,236
Greenville/Spartanburg, S.C.	101,749
Grover City, Calif.	11,656
Grovetown/Fort Gordon, Ga.	12,736

Area and Provider	Population
Charter Communications	
Guntersville, Ga.	Not Available
Gwinnett County, Ga.	352,910
Hammond/Bogalusa, La.	30,151
Hartselle, Ala.	10,795
Henry County, Ga.	58,741
Hickory/Lincolnton, N.C.	35,148
Highland Park/ University Park, Texas	30,998
Janesville/Lake Mills/Lodi/ Mount Horeb/Oregon, Wis.	67,070
Johnson City, Tenn.	49,381
Johnstown, Pa.	28,134
Kingsport, Tenn.	36,365
La Grange/Thomaston, Ga.	34,724
Lafayette/Menomonie, Wis.	Not Available
Lanett, Ala.	8,985
Lebanon, Tenn.	15,208
Manchester, Ga.	4,104
Maryville, Ill.	2,576
Mazomanie, Wis.	1,377
Micaville, N.C.	Not Available
Monterey Park, Calif.	60,738
Montevallo/Mountain Brook, Ala.	24,049
Morristown, Tenn.	21,385
Morro Bay/El Paso de Robles (Paso Robles), Calif.	28,247
Mount Pleasant/Thomas, Mich.	Not Available
Murray, Ky.	14,439
Newnan, Ga.	12,497
Newtown, Conn.	1,800
Northfield, Minn.	14,684
Olivette, Mo.	7,573
Onalaska/Tomah, Minn.	Not Available
Owatonna, Minn.	19,386
Oxford, Mich.	2,929
Park Hills, Mo.	Not Available
Pasadena/Long Beach, Calif.	561,024
Point Pleasant, W. Va.	4,996
Poynette/Prairie du Sac/ Stevens Point, Wis.	27,048
Radford, Va.	15,940
Redwood, Va.	Not Available
Rice Lake, Wis.	7,998
Riverside, Calif.	226,505
Rosemount, Min.	8,622
Saint Louis, Mo.	396,685
San Luis Obispo, Calif.	41,958
Sanford/Whispering Pines, N.C.	15,718
Sheboygan, Wis.	49,676

Area and Provider	Population
Charter Communications	
Smyrna, Ga.	30,981
South Beach, Fla.	2,754
South County, Mo.	Not Available
Stockbridge/Jackson, Ga.	7,435
Taylorsville, N.C.	1,566
Thomaston, Ga.	9,127
Turlock, Calif.	42,198
Union, S.C.	9,836
Uniontown, Pa.	12,034
Verona/Waterloo/Watertown/ Whitewater, Wis. N/D	39,864
Vincennes, Ind.	19,859
Virginia Complex, Tenn.	Not Available
Wadena/Willmar, Minn.	21,665
Waterloo, Ill.	5,072
West Covina/Whittier, Calif.	173,757
Wisconsin Rapids, Wis.	18,245
Worcester, Mass.	169,759
Classic Cable	
Boonville, Mo.	7,095
Brady, Texas	5,946
Cabot, Ark.	8,319
Fort Scott, Kan.	8,362
Hugo, Okla.	5,978
Idabel, Okla.	6,957
Kermit, Texas	6,875
Lampasas, Texas	6,382
Lebanon, Mo.	9,983
Monahans, Texas	8,101
Neosho, Mo.	9,254
Paola, Kan.	4,698
Poteau, Okla.	7,210
Rockdale, Texas	5,235
Stuttgart, Ark.	10,420
Terrell, Texas	12,490
Trenton, Mo.	6,129
Woodward, Okla.	12,340
Coast Cablevision	
San Mateo, Calif.	85,486
Coaxial Cable	
Amelia/Liberty, Ohio	Not Available
Comcast	
Alexandria, Va.	111,183
Atlanta, Ga.	394,017
Baltimore, Md.	736,014
Bensalem, Pa.	Not Available

Area and Provider	Population
Comcast	
Castleton, Ind.	37
Charleston, S.C.	80,414
Chesterfield, Va.	Not Available
Delaware County, Pa.	547,651
Detroit, Mich.	1,027,974
Hendricks County, Ind.	75,717
Indianapolis, Ind.	731,327
Lawrence, Ind.	26,763
Marion County, Ind.	797,159
New Castle County, Del.	441,946
Orange County, Calif.	2,410,556
Philadelphia, Pa.	1,585,577
Prince William County, Va.	215,686
Sarasota, Fla.	50,961
Speedway, Ind.	13,092
Union County, N.J.	493,819
CommuniComm Services	
Bridgeport, Texas	3,581
Chico, Texas	800
Decatur, Texas	4,252
Durant, Okla.	12,823
High Springs/Alachua, Fla.	7,673
Lake Bridgeport, Texas	322
Roanoke, Ala.	6,362
Runaway Bay, Texas	700
Westlake/Moss Bluff, La.	13,046
Wheatland/Torrington/Douglas, Wyo.	13,998
Cox Communications	
Amarillo, Texas	157,615
Bryan/College Station, Texas	107,548
Enid, Okla.	45,309
Eureka, Calif.	27,025
Fairfax, Va.	19,622
Fredericksburg, Va.	19,027
Hampton Roads, Va.	Not Available
Hartford/Cheshire Village, Conn.	145,498
Humboldt Hill, Calif.	2,865
Lafayette, La.	94,440
Las Vegas, Nev.	258,295
Mission Viejo, Calif.	72,820
New Orleans, La.	496,938
Oklahoma City/suburbs, Okla.	444,719*
Omaha, Neb.	335,795
Orange County, Calif.	2,410,556
Phoenix, Ariz.	983,403
Providence, R.I.	160,728

Area and Provider	Population
Cox Communications	
San Diego, Calif.	1,110,549
Santa Barbara, Calif.	85,571
Wichita, Kan.	304,011
Etan-Cable Management	
Belle Chasse, La.	8,512
Jasper, Texas	6,959
Laughlin, Nev.	4,791
Sour Lake, Texas	1,547
Fanch	
Johnstown, Pa.	28,134
FiberVision	
Billings, Mont.	81,151
GCI	
Anchorage, Alaska	226,338
Fairbanks, Alaska	30,843
Galaxy	
Alma, Mo.	446
Booneville, Miss.	7,955
Guntown, Miss.	692
New Albany, Miss.	6,775
Oxford, Miss.	9,984
Seneca, Kan.	2,027
Wilber, Neb.	1,527
Gans Multimedia	
King George's County, Va.	13,527
St. Mary's, Md.	75,974
Tucson, Ariz.	405,390
Genesis Cable	
Winder, Ga.	7,373
Grafton Cable	
Grafton, Ohio	3,344
H&B Communications	
Holyrood, Kan.	492
Haefele Cable	
Spencer, N.Y.	815
Horizon Cable	
Novato, Calif.	47,585
Point Reyes, Calif.	Not Available
Ind-Co Cable TV	
Mtn. View/Searcy/Pangburn, Ark.	18,249
Insight Communications	
Bowling Green, Ky.	40,641
Covington, Ky.	43,264
Jeffersonville, Ind.	21,841
Lafayette, Ind.	43,764
Lexington-Fayette, Ky.	225,366

Area and Provider	Population
Insight Communications	
Louisville, Ky.	269,063
Noblesville, Ind.	17,655
Knology	
Augusta, Ga.	44,639
Charleston, S.C.	80,414
Columbus, Ga.	178,681
Huntsville, Ala.	159,789
Knoxville, Tenn.	165,121
Montgomery, Ala.	4,239
Panama City, Fla.	34,378
West Point, Ga.	3,571
Krause Cable	
Seneca, Ill.	1,878
Lawton Cablevision	
Lawton, Okla.	80,561
Mallard Cablevision	
Burleson, Texas	16,113
River Oaks, Texas	6,580
Willow Park, Texas	2,328
MediaOne	
Atlanta, Ga.	394,017
Boston/Boston suburbs (multiple), Mass.	574,283*
Cleveland, Ohio	505,616
Detroit/Ann Arbor, Mich.	1,137,566
Fresno, Calif.	354,202
Los Angeles, Calif.	3,485,398
Northeast Fla. (Jacksonville)	635,230
Orange County, Calif. N/D	2,410,556
Richmond, Va.	203,056
Saint Paul, Minn.	272,235
Southern Fla. (Fort Myers/Naples/Pompano Beach/Broward County)	1,392,610
Southern Mass. (Cape Cod/Fall River/New Bedford)	Not Available
Southern N.H. (Concord/ Nashua/Salem)	Not Available
Stockton, Calif.	210,943
Western Mass. (Springfield/Pittsfield)	205,605
Mediacom	
Clearlake Oaks, Calif.	2,419
Gulf Breeze/Milton Fla.	12,746
Huntsville, Ala.	159,789
Marshall County, Ky.	27,205
Millsboro, Del.	1,643
Mobile, Ala.	196,278
Sun City, Calif.	14,930

Area and Provider	Population
Mid-Coast Cable	
El Campo/Edna, Texas	15,854
MidAtlantic	
Howard County, Md.	187,328
Prince William, Va.	215,686
Rockville, Md.	44,835
Multimedia	
Oklahoma City, Okla.	444,719
News Press Gazette	
Blythe Calif.	8,428
Bullhead City, Ariz.	21,951
Flagstaff, Ariz.	45,857
Kingman, Ariz.	12,722
Lake Havasu, Ariz.	24,363
Parker, Ariz.	2,897
Payson, Ariz.	8,377
Sedona, Ariz.	7,720
Northland Communications	
Bainbridge Island, Wash.	Not Available
Starkville, Miss.	18,458
One Point Communications	
Va. communities	Not Available
Orion Cable Systems	
San Marcos, Calif.	38,974
Pine Tree Cable	
Machias, Maine	1,773
Plantation Cablevision	
Greensboro, Ga.	2,860
Ponderosa Cable	
Danville, Calif.	31,306
Prestige Cable	
Bartow, Ga.	292
Canton, Ga.	4,817
Forsyth County, Ga.	44,083
Mooresville/Statesville, N.C.	26,884
Spotsylvania Courthouse, Va.	2,694
Westminster, Md.	13,068
RCN	
Allentown, Pa.	105,090
Boston, Mass.	574,283
Carmel Hamlet, N.Y.	4,800
Daly City, Calif.	92,311
Hillsborough, N.J.	Not Available
Montgomery County, Md.	757,027
New York, N.Y.	7,322,564
Philadelphia, Pa.	1,585,577
Princeton, N.J.	12,016

Area and Provider	Population
RCN	
Somerville/Arlington/Newton/ Waltham, Mass.	261,303
Washington, D.C.	606,900
Watertown, Mass.	33,284
Range TV	
Chisholm/Hibbing, Minn.	23,336
Mountain Iron, Minn.	3,362
Nashwauk/Keewatin, Minn.	2,144
Virginia, Minn.	9,410
Rankin Cable	
Rankin County, Miss.	87,161
Rapid	
Branson, Mo.	3,706
Robson	
Saddlebrooke, Ariz.	Not Available
Sun Lakes, Ariz.	6,578
Rogers Cable	
Wasila, Ark.	Not Available
San Bruno Municipal Cable	
San Bruno, Calif.	38,961
Satellite Cable Services	
Brookings, S.D.	16,270
Chamberlain, S.D.	2,347
Freeman, S.D.	1,293
Searle Communications	
Monument, Colo.	1,020
Service Electric	
Allentown, Pa.	105,090
Bethlehem, Pa.	71,428
Birdsboro, Pa.	4,222
Easton, Pa.	26,276
Emmaus, Pa.	11,157
Frenchtown, N.J.	1,528
Hazleton, Pa.	24,730
Lafayette, N.J.	Not Available
Mahanoy City, Pa.	5,209
Sunbury, Pa.	11,591
Wilkes-Barre, Pa.	47,523
Shen-Heights Cable	
Shenandoah, Pa.	6,221
Shrewsbury Cable	
Shrewsbury, Mass.	Not Available
Sjoberg's Cable	
Thief River Falls, Minn.	8,010
Southwest Missouri Cable	
Carthage, Mo.	10,747

Area and Provider	Population
Star Cable	
Nelson, Ohio	Not Available
Strategic Technologies	
Natomas Park, Calif.	Not Available
Stevenson Ranch, Calif.	Not Available
Sun Country Cable	
Los Altos, Calif.	26,303
Spokane, Wash.	177,196
SunTel	
Lake Alamanor, Calif.	Not Available
Winnemucca, Nev.	6,134
Tennessee Cable	
Oak Ridge, Tenn.	27,310
Time Warner	
Akron, Ohio	223,019
Albany/Saratoga/Troy, N.Y.	180,352
Aroostook County, Maine	86,936
Austin, Texas	465,622
Bakersfield, Calif.	174,820
Binghamton, Corning, Elmira, Norwich, N.Y.	106,283
Canton, Ohio	84,161
Central Fla. (Brevard, Seminole, Orange City)	413,576
Charlotte, N.C.	395,934
Cincinnati, Ohio	364,040
Columbia, S.C.	98,052
El Paso, Texas	515,342
Greensboro, N.C.	183,521
Houston, Texas	1,630,553
Kansas City, Mo.	435,146
Los Angeles, Calif.	3,485,398
Memphis, Tenn.	610,337
Minneapolis, Minn.	368,363
New York City (Manhattan), N.Y.	Not Available
Oahu, Hawaii	836,231
Oneida, N.Y.	10,850
Orange County, Calif.	2,410,556
Orlando, Fla.	164,693
Portland, Maine	64,358
Rochester, N.Y.	231,636
San Antonio, Texas	935,933
San Diego, Calif.	1,110,549
Syracuse/Oswego/Ithaca, N.Y.	313,678
Tampa, Fla.	280,015
Western Ohio	Not Available
Wilmington, N.C.	55,530
Youngstown, Ohio	95,732

* Does not include suburbs.

APPENDIX B: RBOC DSL DEPLOYMENT
Availability of DSL Services from RBOCs in the United States

Appendix B is a compilation of the areas where Regional Bell Operating Companies (RBOCs) are currently providing DSL services (marketed under a variety of names, such as Infospeed and Fast Access). DSL services will not necessarily be available to the entire population of the listed city. These data are based on public information provided by the RBOCS (primarily on the Web) in March 2000. The data provided by the various RBOCs differed in their degrees of comprehensiveness. The population data are from the U.S. Census Bureau's 1990 Census Gazetteer, (www.census.gov/cgi-bin/gazetteer).

RBOC	Population
Ameritech	
Ann Arbor (and suburbs), MI	109,592
Bloomington, IL	51,972
Chicago (and suburbs), IL	2,783,726
Cleveland (and suburbs), OH	505,616
Detroit (and suburbs), MI	1,027,974
Elkhart, IN	43,627
Fort Wayne, IN	173,072
Jackson, MI	37,446
Lafayette, IN	43,764
Terre Haute, IN	57,483
Valparaiso, IN	24,414
Wausau, WI	37,060
Bell Atlantic	
Alexandria, VA	111,183
Altoona, PA	51,881
Arlington, VA	170,936
Elizabeth, NJ	110,002
Harrisburg, PA	52,376
Huntington, WV	54,844
Jersey City, NJ	228,537
Lancaster, PA	55,551
New Brunswick, NJ	41,711
New York, NY	7,322,564
Newark, NJ	275,221
Norfolk, VA	261,229
Paterson, NJ	140,891
Philadelphia, PA	1,585,577
Pittsburgh, PA	369,879
Richmond, VA	203,056
Scranton, PA	81,805
Virginia Beach, VA	393,069
Washington, DC	606,900
Wilmington, DE	71,529
Bell South	
Athens, GA	45,734
Atlanta, GA	394,017
Augusta, GA	44,639

RBOC	Population
Bell South	
Baton Rouge, LA	219,531
Birmingham, AL	265,968
Boca Raton, FL	61,492
Charleston, SC	80,414
Charlotte, NC	395,934
Chattanooga, TN	152,466
Columbia, SC	98,052
Daytona Beach, FL	61,921
Durham, NC	136,611
Fort Lauderdale, FL	149,377
Gainesville, FL	84,770
Greensboro, NC	183,521
Greenville, SC	58,282
Hillsborough, FL	Not Available
Huntsville, AL	159,789
Jackson, MS	196,637
Jacksonville, FL	635,230
Knoxville, TN	165,121
Lafayette, LA	94,440
Lexington-Fayette, KY	225,366
Louisville, KY	269,063
Manatee, FL	Not Available
Memphis, TN	610,337
Miami, FL	358,548
Montgomery, AL	187,106
Nashville, TN	Not Available
New Orleans, LA	496,938
Orlando, FL	164,693
Pensacola, FL	58,165
Pinellas, FL	Not Available
Raleigh, NC	207,951
Sarasota, FL	50,961
Tampa, FL	280,015
West Palm Beach, FL	67,643
Winston-Salem, NC	143,485
Nevada Bell	
Carson City, NV	40,443
Reno, NV	133,850
Sparks, NV	53,367
Pacific Bell (all in California)	
Agoura Hills	20,390
Alameda	76,459
Albany	16,327
Alhambra	82,106
Anaheim	266,406
Antioch	62,195
Aptos	9,061

RBOC	Population
Pacific Bell (all in California)	
Arcadia	48,290
Arlington	Not Available
Arroyo Grande	14,378
Atwater	22,282
Auburn	10,592
Bakersfield	174,820
Balboa	Not Available
Benicia	24,437
Berkeley	102,724
Beverly Hills	31,971
Bishop	3,475
Blue Revine	Not Available
Boulder Creek	6,725
Brea	32,873
Brentwood	7,563
Buena Park	68,784
Burbank	93,643
Burlingame	26,801
Calabasas	Not Available
Canoga Park	Not Available
Carlsbad	63,126
Carmel	Not Available
Castaic	Not Available
Chico	40,079
Chula Vista	135,163
Clayton	7,317
Clovis	50,323
Colma	1,103
Colton	40,213
Compton	90,454
Concord	111,348
Corona	76,095
Corona Del Ray	Not Available
Coronado	26,540
Costa Mesa	96,357
Cotati	5,714
Culver City	38,793
Danville	31,306
Davis	46,209
Del Mar	4,860
Edgewood	Not Available
El Cajon	88,693
El Dorado	Not Available
El Monte	106,209
El Segundo	15,223
El Sobrante	9,852

RBOC	Population
Pacific Bell (all in California)	
El Toro	62,685
Encinitas	55,386
Escondido	108,635
Eureka	27,025
Fair Oaks	26,867
Fairfield	77,211
Fallbrook	22,095
Folsom	29,802
Fontana	87,535
Fremont	173,339
Fresno	354,202
Fullerton	114,144
Garden Grove	143,050
Gardena	49,847
Glendale	180,038
Grass Valley	9,048
Half Moon Bay	8,886
Hawthorne	71,349
Hayward	111,498
Hercules	168,29
Highland	34,439
Hollywood	Not Available
Ignacio	Not Available
Imperial Beach	26,512
Inglewood	109,602
Irvine	110,330
La Brea	Not Available
La Crescenta-Montrose	16,968
La Jolla	Not Available
La Mesa	52,931
Lafayette	23,501
Laguna Niguel	44,400
Lakeside	39,412
Larkspur	11,070
Livermore	56,741
Lodi	51,874
Lomita	19,382
Los Altos	26,303
Los Angeles	3,485,398
Martinez	31,808
Menlo Park	28,040
Merced	56,216
Mill Valley	13,038
Millbrae	20,412
Milpitas	50,686
Mission Viejo	72,820

RBOC	Population
Pacific Bell (all in California)	
Modesto	164,730
Monterey	31,954
Moraga Town	15,852
Mountain View	67,460
Napa	61,842
National City	54,249
Nevada City	28,55
Newhall	Not Available
Nimbus	Not Available
North Highlands	42,105
North Hollywood	Not Available
Northridge	Not Available
Oakland	372,242
Oceanside	128,398
Orange	110,658
Orangevale	26,266
Orinda	16,642
Oroville	11,960
Pacific Beach	Not Available
Pacifica	37,670
Palm Springs	40,181
Palmdale	68,842
Palo Alto	55,900
Paramount	47,669
Pasadena	131,591
Pedley	8,869
Petaluma	43,184
Pittsburg	47,564
Placentia	41,259
Placerville	8,355
Pleasanton	50,553
Poway	43,516
Rancho Bernardo	Not Available
Rancho Penasquitos	Not Available
Rancho San Diego	6,977
Rancho Santa Fe	Not Available
Rancho Santa Margarita	11,390
Redding	66,462
Redwood City	66,072
Reseda	Not Available
Rhonert Park	Not Available
Richmond	87,425
Riverside	226,505
Rocklin	19,033
Rosemead	51,638
Sacramento	369,365

RBOC	Population
Pacific Bell (all in California)	
Salinas	108,777
San Bruno	38,961
San Carlos	26,167
San Clemente	41,100
San Diego	1,110,549
San Francisco	723,959
San Gabriel	37,120
San Jose	782,248
San Juan Capistrano	26,183
San Leandro	68,223
San Luis Obispo	41,958
San Marcos	38,974
San Martin	1,713
San Mateo	85,486
San Pedro	Not Available
San Rafael	48,404
San Ramon	35,303
Santa Ana	293,742
Santa Barbara	85,571
Santa Clara	93,613
Santa Cruz	49,040
Santa Margarita	Not Available
Santa Monica	86,905
Santa Rosa	113,313
Santee	52,902
Saugus	Not Available
Sausalito	7,152
Scotts Valley	8,615
Seaside	38,901
Sebastopol	7,004
Sherman Oaks	Not Available
Shingle Springs	2,049
Simi Valley	100,217
Solamint	Not Available
Sonoma	8,121
South Gate	86,284
South Lake Tahoe	21,586
South Pasadena	23,936
Stockton	210,943
Sunnyvale	117,229
Tiburon	7,532
Torrance	133,107
Tracy	33,558
Truckee	3,484
Turlock	42,198
Tustin	50,689

RBOC	Population
Pacific Bell (all in California)	
Ukiah	14,599
Union City	53,762
Vacaville	71,479
Vallejo	109,199
Van Nuys	Not Available
Ventura	Not Available
Visalia	75,636
Vista	71,872
Walnut Creek	60,569
Watsonville	31,099
West Los Angeles	Not Available
Woodland	39,802
Yorba Linda	52,422
Yuba City	27,437
Southwestern Bell	
Abilene, TX	106,654
Addicks, TX	Not Available
Addison, TX	8,783
Alvin, TX	19,220
Amarillo, TX	157,615
Arlington, TX	261,721
Arnold, MO	18,828
Austin, TX	465,622
Beaumont, TX	114,323
Belton, MO	18,150
Bentonville, AR	11,257
Blue Springs, MO	40,153
Brideton, MO	Not Available
Carrollton, TX	82,169
Cedar Hill, TX	19,976
Cedar Valley, TX	Not Available
Chesterfield, MO	37,991
Cleburne, TX	22,205
Clute, TX	8,910
College Station, TX	52,456
Columbia, MO	69,101
Coppell, TX	16,881
Corpus Christi, TX	257,453
Creve Coeur, MO	12,304
Cypress, TX	Not Available
Dallas, TX	1,006,877
Denton, TX	66,270
DeSoto, TX	30,544
Duncanville, TX	35,748
Edmond, OK	52,315
El Paso, TX	515,342
Enid, OK	45,309

RBOC	Population
Southwestern Bell	
Farmers Branch, TX	24,250
Fayetteville, AR	42,099
Fenton, MO	3,346
Ferguson, MO	22,286
Florissant, MO	51,206
Flower Mound, TX	15,527
Fort Smith, AR	72,798
Fort Worth, TX	447,619
Friendswood, TX	22,814
Frisco, TX	6,141
Garland, TX	180,650
Gladstone, MO	26,243
Grand Prairie, TX	99,616
Harvester, MO	Not Available
Hays, KS	17,767
Hazelwood, MO	15,324
High Ridge, MO	4,423
Houston, TX	1,630,553
Hutchinson, KS	39,308
Incline Village-Crystal Bay, NV	7,119
Independence, MO	112,301
Irving, TX	155,037
Kansas City, KS	149,767
Kansas City, MO	435,146
Kirkwood, MO	27,291
Klien, TX	Not Available
La Porte, TX	27,910
Ladue, MO	8,847
Lake Jackson, TX	22,776
Lancaster, TX	22,117
Las Colinas, TX	Not Available
Lawrence, KS	65,608
Lawton, OK	80,561
Lee's Summit, MO	46,418
Lenexa, KS	34,034
Leon Springs, TX	Not Available
Lewisville, TX	46,521
Liberty, MO	20,459
Little Rock, AR	175,795
Lubbock, TX	186,206
Manchester, MO	6,542
Manhattan, KS	37,712
Mehlville, MO	27,557
Mesquite, TX	101,484
Midland, TX	89,443
Mission, KS	9,504

RBOC	Population
Southwestern Bell	
Mount Pleasant, TX	12,291
Nederland, TX	16,192
New Braunfels, TX	27,334
Norman, OK	80,071
Oakville, MO	31,750
Odessa, TX	89,699
Oklahoma City, OK	444,719
Olathe, KS	63,352
Overland Park, KS	111,790
Overland, MO	17,987
Parkville, MO	2,402
Pearland, TX	18,697
Pflugerville, TX	4,444
Plano, TX	128,713
Richardson, TX	74,840
Richland Hills, TX	7,978
Rogers, AR	24,692
Rosenberg, TX	20,183
Round Rock, TX	30,923
Salina, KS	42,303
San Angelo, TX	84,474
San Antonio, TX	935,933
Seguin, TX	18,853
Shawnee, KS	37,993
Spanish Lake, MO	20,322
Spring, TX	33,111
Springdale, AR	29,941
St. Charles, MO	54,555
St. Joseph, MO	71,852
St. Louis, MO	396,685
Stanley, KS	Not Available
Stillwater, OK	36,676
Temple, TX	46,109
Texarkana, TX	31,656
Tomball, TX	6,370
Topeka, KS	119,883
Tulsa, OK	367,302
Universal City, TX	13,057
Valley Park, MO	4,165
Waco, TX	103,590
Webster Groves, MO	22,987
Wichita, KS	304,011

RBOC	Population
US West	
Albany, OR	29,462
American Fork, UT	15,696
Ames, IA	47,198
Ankeny, IA	18,482
Anoka, MN	17,192
Arvada, CO	89,235
Auburn, WA	33,102
Aurora, CO	222,103
Bainbridge Island, WA	Not Available
Beardsley, AZ	Not Available
Beaverton, OR	53,310
Bellevue, WA	86,874
Bellingham, WA	52,179
Bethany, AZ	Not Available
Bettendorf, IA	28,132
Bismarck, ND	49,256
Blaine, MN	38,975
Bloomington, MN	86,335
Boise City, ID	125,738
Boulder, CO	83,312
Bountiful, UT	36,659
Bremerton, WA	38,142
Brooklyn Center, MN	28,887
Broomfield, CO	24,638
Burnsville, MN	51,288
Castle Rock, CO	8,708
Catalina, AZ	4,864
Cedar Rapids, IA	108,751
Chandler, AZ	90,533
Cheyenne, WY	50,008
Clearfield, UT	21,435
Colorado Springs, CO	281,140
Coon Rapids, MN	52,978
Cortaro, AZ	Not Available
Corvallis, OR	44,757
Cottage grove, MN	22,935
Council Bluffs, IA	54,315
Craycroft, AZ	Not Available
Crystal, MN	23,788
Davenport, IA	95,333
Deer Valley, AZ	Not Available
Denver, CO	467,610
Des Moines, IA	193,187

RBOC	Population
US West	
Des Moines, WA	17,283
Draper, UT	7,257
Duluth, MN	85,493
Eagan, MN	47,409
Eagle, ID	3,327
Eden, MN	Not Available
Eden Prairie, MN	39,311
Englewood, CO	29,387
Eugene, OR	112,669
Everett, WA	69,961
Excelsior, MN	2,367
Fargo, ND	74,111
Farmington, UT	9,028
Federal Way, WA	67,554
Flagstaff, AZ	45,857
Flowing Wells, AZ	14,013
Foothills, AZ	Not Available
Fort Collins, CO	87,758
Fort McDowell, AZ	Not Available
Fridley, MN	28,335
Ft Snelling, MN	Not Available
Glendale, AZ	148,134
Golden Valley, MN	20,971
Grand Forks, ND	49,425
Grand Junction, CO	29,034
Greeley, CO	60,536
Helena, MT	24,569
Highlands Ranch, CO	10,181
Holiday, UT	Not Available
Hopkins, MN	16,534
Idaho Falls, ID	43,929
Iowa City, IA	59,738
Issaquah, WA	7,786
Kaysville, UT	13,961
Kearns, UT	28,374
Kennewick, WA	42,155
Kent, WA	37,960
Lacey, WA	19,279
Lake Oswego, OR	30,576
Lakewood, CO	126,481
Lehi, UT	8,475
Litchfield Park, AZ	3,303
Littleton, CO	33,685
Longmont, CO	51,555
Maplewood, MN	30,954

RBOC	Population
US West	
Maryvale, AZ	Not Available
Mercer Island, WA	20,816
Meridian, ID	9,596
Mesa , AZ	288,091
Midrivers, AZ	Not Available
Midvale, UT	11,886
Milwaukie, OR	18,692
Minneapolis, MN	368,383
Murray, UT	31,282
Muscatine, IA	22,881
Nampa, ID	28,365
New Brighton, MN	22,207
North St. Paul, MN	12,376
Northglenn, CO	27,195
Olympia, WA	33,840
Omaha, NE	335,795
Oregon City, OR	14,698
Orem, UT	67,561
Pecos, AZ	Not Available
Peoria, AZ	50,618
Phoenix, AZ	983,403
Pineacle Peak, AZ	Not Available
Pleasant Grove, UT	13,476
Plymouth, MN	50,889
Pocatello, ID	46,080
Portland, OR	437,319
Prairie, MN	Not Available
Prescott, AZ	26,455
Provo, UT	86,835
Pueblo, CO	98,640
Puyallup, WA	23,875
Rapid City, SD	54,523
Redmond, WA	35,800
Renton, WA	41,688
Richfield, MN	35,710
Rincon, AZ	Not Available
Rochester, MN	70,745
Salem, OR	107,786
Salt Lake City, UT	159,936
Scottsdale, AZ	130,069
Seattle , WA	516,259
Shoreview, MN	24,587
Sioux Falls, SD	100,814
Smokey Hill, CO	Not Available
Spokane, WA	177,196
Springfield, OR	44,683

RBOC	Population
US West	
Springville, UT	13,950
St. Cloud, MN	48,812
St. Paul, MN	272,235
Sunnyslope, AZ	Not Available
Sunrise, AZ	Not Available
Superstition, AZ	Not Available
Tacoma, WA	176,664
Tanque Verde, AZ	Not Available
Tempe, AZ	141,865
Tolleson, AZ	4,434
Tucson, AZ	405,390
Twin Falls, ID	27,591
Vail, CO	3,659
Vancouver, WA	46,380
Wayzata, MN	3,806
West Fargo, ND	12,287
West St. Paul, MN	19,248
Westminster, CO	74,625
White Bear Lake , MN	24,704

APPENDIX C

Characteristics of a Sample of Existing and Proposed Satellite and High Altitude Systems

1. **Aster**
   Key Investors:
   Number of Satellites Planned: 5 GEO
   Coverage: worldwide
   Uplink Data Rate (channel freq.): up to 622 Mbps (35.0 to 51.4 GHz)
   Downlink Data Rate (channel freq.): up to 16 Mbps (35.0 to 51.4 GHz)
   Estimated Aggregate Bandwidth: N/A
   Estimated Subscriber Cost: competitive with terrestrial
   First Satellite in Service: 2002
   Full Constellation in Service: N/A

2. **Astrolink**
   Key Investors: Lockheed Martin, TRW, Telespazio, Liberty Media
   Number of Satellites Planned: 9 GEO
   Coverage: worldwide
   Uplink Data Rate (channel freq.): up to 20 Mbps (Ka band)
   Downlink Data Rate (channel freq.): up to 920 Mbps (Ka band)
   Estimated Aggregate Bandwidth: 6.5 Gbps per satellite
   Estimated Subscriber Cost: competitive with terrestrial
   First Satellite in Service: by 2001
   Full Constellation in Service: market dependent

3. **Celestri**
   Key Investors: Motorola, Matra, Marconi
   Number of Satellites Planned: 63 LEO + 9 GEO
   Coverage: worldwide
   Uplink Data Rate (channel freq.): up to 51 Mbps (Ka band)
   Downlink Data Rate (channel freq.): up to 51 Mbps (Ka band)
   Estimated Aggregate Bandwidth: 80 Gbps system capability
   Estimated Subscriber Cost: competitive with terrestrial
   Full Constellation in Service: 2003

4. **COMSAT World Systems**
   Key Investors: 142 member INTELSAT
   Number of Satellites Planned: 25 GEO
   Coverage: worldwide
   Uplink Data Rate (channel freq.): up to 155 Mbps
   Downlink Data Rate (channel freq.): up to 1 Gbps
   Estimated Aggregate Bandwidth: 50 Gbps
   Estimated Subscriber Cost: N/A (market is presently telecomm companies)
   First Satellite in Service: fully operational
   Full Constellation in Service: fully operational

5. **GE*Star**
Key Investors: GE Americon
Number of Satellites Planned: 9 GEO
Coverage: worldwide
Uplink Data Rate (channel freq.): presently 33 kbps (14.0-14.5 GHz)
Downlink Data Rate (channel freq.): presently 2 Mbps (11.7-12.2 GHz)
Estimated Aggregate Bandwidth: N/A
Estimated Subscriber Cost: $30 to $130 per month ($200+ installation cost)
First Satellite in Service: fully operational (GE-3 87° west)
Full Constellation in Service: 2003

6. **Halo**
Key Investors: numerous
Number of Satellites Planned: high altitude long operation (HALO) aircraft
Coverage: 1+ platform per metropolitan area
Uplink Data Rate (channel freq.): up to 25 Mbps (27.5 to 27.8 GHz)
Downlink Data Rate (channel freq.): up to 25 Mbps (28.1 to 28.4 GHz)
Estimated Aggregate Bandwidth: N/A
Estimated Subscriber Cost: 1 Mbps $50 per month, 10 Mbps $250 per month
First Satellite in Service: 2000 to 2001 planned
Full Constellation in Service: 100 cities by 2003

7. **Hughes DirecPC**
Key Investors: Hughes Network Systems
Number of Satellites Planned: leased GEO
Coverage: North America
Uplink Data Rate (channel freq.): standard telephone modem
Downlink Data Rate (channel freq.): 400 kbps (4 GHz)
Estimated Aggregate Bandwidth: N/A
Estimated Subscriber Cost: $30 to $130 per month (200+ installation cost)
First Satellite in Service: fully operational (Galaxy IV 99° west)
Full Constellation in Service: N/A

8. **iSky**
Key Investors: Liberty Media, TV Guide, Kleiner Perkins
Number of Satellites Planned: 2 GEO (109.2° west)
Coverage: North America
Uplink Data Rate (channel freq.): N/A
Downlink Data Rate (channel freq.): N/A
Estimated Aggregate Bandwidth: N/A
Estimated Subscriber Cost: competitive with DSL/cable, $40 per month
First Satellite in Service: end 2001 (GEO 109.2° west)
Full Constellation in Service: N/A

9. **Leo One**
Key Investors: Leo One
Number of Satellites Planned: 48 LEO (6 x 8 orbital planes)
Coverage: worldwide
Uplink Data Rate (channel freq.): 9.6 kbps (148 to 150 MHz)
Downlink Data Rate (channel freq.): 24 kbps (137 to 138 MHz, 400-401 MHz)
Estimated Aggregate Bandwidth: 50 kbps per gateway
Estimated Subscriber Cost: N/A
First Satellite in Service: N/A
Full Constellation in Service: mid 2003

10. **Orblink**
Key Investors:
Number of Satellites Planned: 7 MEO
Coverage: worldwide
Uplink Data Rate (channel freq.): up to 1.5 Mbps (47.7 to 48.7 GHz)
Downlink Data Rate (channel freq.): up to 1.25 Gbps (37.5 to 38.5 GHz)
Estimated Aggregate Bandwidth: N/A
Estimated Subscriber Cost: competitive with terrestrial
First Satellite in Service: 2002
Full Constellation in Service: 2002

11. **Orion**
Key Investors: Orion Network Systems
Number of Satellites Planned: 3 GEO
Coverage: most of the world
Uplink Data Rate (channel freq.): up to 25 Mbps
Downlink Data Rate (channel freq.): up to 25 Gbps
Estimated Aggregate Bandwidth: N/A
Estimated Subscriber Cost: competitive with terrestrial
First Satellite in Service: Orion 1 fully operational
Full Constellation in Service: as per market demand

12. **Pentriad**
Key Investors: Denali Telecomm
Number of Satellites Planned: 13 quasi-GEO (high elliptical)
Coverage: Northern Hemisphere
Uplink Data Rate (channel freq.):
Downlink Data Rate (channel freq.): 45 to 155 Mbps
Estimated Aggregate Bandwidth: 144 Gbps
Estimated Subscriber Cost: N/A
First Satellite in Service: N/A
Full Constellation in Service: N/A

13. **SkyBridge**
Key Investors: Alcatel Alsthom, Toshiba, Mitsubishi Electric, Aerospace Canada
Number of Satellites Planned: 80 LEO
Coverage: worldwide
Uplink Data Rate (channel freq.): 2 to 10 Mbps (10 to 18 GHz)
Downlink Data Rate (channel freq.): 20 to 100 Mbps (10 to 18 GHz)
Estimated Aggregate Bandwidth: 215 Gbps
Estimated Subscriber Cost: N/A
First Satellite in Service: beginning 2002
Full Constellation in Service: beginning 2002

14. **Sky Station**
Key Investors: Sky Station
Number of Satellites Planned: lighter than air platforms
Coverage: 1+ platform per metropolitan area
Uplink Data Rate (channel freq.): up to 10 Mbps (47.9 to 48.2 GHz)
Downlink Data Rate (channel freq.): up to 10 Mbps (47.2 to 47.5 GHz)
Estimated Aggregate Bandwidth: N/A
Estimated Subscriber Cost: competitive with terrestrial
First Satellite in Service: 2002
Full Constellation in Service: depends on market demand

15. **Spaceway**
Key Investors: Hughes Electronics
Number of Satellites Planned: 16 GEO + 20 MEO (8 GEO initial system)
Coverage: worldwide
Uplink Data Rate (channel freq.): up to 6 Mbps (27.5 to 30.0 GHz)
Downlink Data Rate (channel freq.): up to 108 Mbps shared (17.7 to 20.0 GHz)
Estimated Aggregate Bandwidth: 35.2 (8 GEO initial system)
Estimated Subscriber Cost: competitive with terrestrial
First Satellite in Service: 2002 (1 to 4 GEO)
Full Constellation in Service: as per market demand

16. **Teledesic**
Key Investors: Craig McCaw, Bill Gates, Boeing
Number of Satellites Planned: 288 LEO + 24 spare LEO
Coverage: worldwide
Uplink Data Rate (channel freq.): up to 2 Mbps (28.6 to 29.1 GHz)
Downlink Data Rate (channel freq.): up to 64 Mbps (18.8 to 19.3 GHz)
Estimated Aggregate Bandwidth: 144 Gbps
Estimated Subscriber Cost: competitive with terrestrial
First Satellite in Service: 2002 (288 LEO)
Full Constellation in Service: 2004

17. **TRW Global EHS Satellite Network**
Key Investors: TRW
Number of Satellites Planned: 4 GEO + 15 MEO
Coverage:
Uplink Data Rate (channel freq.): N/A
Downlink Data Rate (channel freq.): N/A
Estimated Aggregate Bandwidth: 1.3 Tbps
Estimated Subscriber Cost: N/A
First Satellite in Service: 48 months after FCC license (GEO)
Full Constellation in Service: 6 years after FCC license

18. **Virtual GEO/Virgo**
Key Investors: Virtual GEO
Number of Satellites Planned: 15 quasi-GEO (high elliptical)
Coverage: worldwide
Uplink Data Rate (channel freq.): (14.0 to 14.5 GHz)
Downlink Data Rate (channel freq.): (11.2 to 12.7 GHz)
Estimated Aggregate Bandwidth: N/A
Estimated Subscriber Cost: N/A
First Satellite in Service: 2003
Full Constellation in Service: 2003

politicallyblack.com
No ifs, No buts, No maybes,
It's politically fresh & Black-dot-com, baby
click here for the most comprehensive Black political information

Politics Headlines

Add to My Yahoo!

Wednesday April 19 1:17 PM ET

VOTENET
Click here for political contributions by neighborhood (enter ZIP).

Key Democrat Gephardt Opposes China Trade Deal

Reuters Photo

ST. LOUIS, Missouri (Reuters) - U.S. House of Representatives Democratic leader Richard Gephardt said on Wednesday he will oppose permanent trading benefits for China, joining forces with organized labor in what is shaping up to be this election year's biggest legislative battle.

``I am announcing my opposition to PNTR (permanent normal trade relations) for China this year," Gephardt told reporters at Webster University in St. Louis. ``Granting PNTR this year surrenders all leverage we hold in our trading relationship to the Chinese government and renders the United States powerless to protect our values and interests."

Gephardt's announcement could make it harder for the White House to gain Democratic votes for the pact, although the administration remains confident Congress will nonetheless approve permanent normal trade relations for Beijing as part of a landmark deal opening China's vast marketplace.

Speak your mind
Discuss this story with other people.
[Start a Conversation]
(Requires Yahoo! Messenger)

White House officials played down the announcement, saying the influential Missouri lawmaker had promised not to put pressure on fellow Democrats to follow his lead. But Gephardt's comments will give a boost to organized labor in its campaign to scuttle President Clinton's market-opening trade pact with Beijing, which union leaders said would undermine workers' rights in China and lead to job losses in the United States.

E-mail this story | Printer-friendly format

Earlier Stories

- Gephardt Expected to Oppose China Pact (April 17)
- Clinton Warned on Deal With Democrats on China (April 10)

Clinton Warned on Deal With Democrats on China (April 10)
- Clinton Warned Against Deal With Democrats on China (April 10)

Search Advanced

Search: Stories Photos Full Coverage

Apr 18 | Apr 17 | Apr 16 | Apr 15 | Apr 14 | Apr 13 | Apr 12 | Apr 11 | Apr 10 | Apr 09

Home | Top Stories | Business | Tech | Politics | World | Local | Entertainment | Sports | Science | Health

Questions or Comments

Copyright © 2000 Reuters Limited. All rights reserved.
Republication or redistribution of Reuters content is expressly prohibited without the prior written consent of Reuters.
Reuters shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon.

Withdrawal/Redaction Marker
Clinton Library

DOCUMENT NO. AND TYPE	SUBJECT/TITLE	DATE	RESTRICTION
001. list	To Do List re: China and Senegal (2 pages)	04/19/2000	P1/b(1)

COLLECTION:
Clinton Presidential Records
National Economic Council
Gene Sperling
OA/Box Number: 20240

FOLDER TITLE:
Digital Divide North Carolina Book April 26, 2000 [binder] [4]

2019-0203-F
jm2850

RESTRICTION CODES

Presidential Records Act - [44 U.S.C. 2204(a)]

P1 National Security Classified Information [(a)(1) of the PRA]
P2 Relating to the appointment to Federal office [(a)(2) of the PRA]
P3 Release would violate a Federal statute [(a)(3) of the PRA]
P4 Release would disclose trade secrets or confidential commercial or financial information [(a)(4) of the PRA]
P5 Release would disclose confidential advice between the President and his advisors, or between such advisors [a)(5) of the PRA]
P6 Release would constitute a clearly unwarranted invasion of personal privacy [(a)(6) of the PRA]

C. Closed in accordance with restrictions contained in donor's deed of gift.
PRM. Personal record misfile defined in accordance with 44 U.S.C. 2201(3).
RR. Document will be reviewed upon request.

Freedom of Information Act - [5 U.S.C. 552(b)]

b(1) National security classified information [(b)(1) of the FOIA]
b(2) Release would disclose internal personnel rules and practices of an agency [(b)(2) of the FOIA]
b(3) Release would violate a Federal statute [(b)(3) of the FOIA]
b(4) Release would disclose trade secrets or confidential or financial information [(b)(4) of the FOIA]
b(6) Release would constitute a clearly unwarranted invasion of personal privacy [(b)(6) of the FOIA]
b(7) Release would disclose information compiled for law enforcement purposes [(b)(7) of the FOIA]
b(8) Release would disclose information concerning the regulation of financial institutions [(b)(8) of the FOIA]
b(9) Release would disclose geological or geophysical information concerning wells [(b)(9) of the FOIA]

[Country Listing] [*Factbook* Home Page]

Senegal

Geography
People
Government
Economy
Communications
Transportation
Military
Transnational Issues

Senegal

Geography

[Top of Page]

Location: Western Africa, bordering the North Atlantic Ocean, between Guinea-Bissau and Mauritania

Geographic coordinates: 14 00 N, 14 00 W

Map references: Africa

Area:
total: 196,190 sq km
land: 192,000 sq km
water: 4,190 sq km

Area—comparative: slightly smaller than South Dakota

Land boundaries:
total: 2,640 km
border countries: The Gambia 740 km, Guinea 330 km, Guinea-Bissau 338 km, Mali 419 km, Mauritania 813 km

Coastline: 531 km

Maritime claims:
contiguous zone: 24 nm
continental shelf: 200 nm or to the edge of the continental margin
exclusive economic zone: 200 nm
territorial sea: 12 nm

Climate: tropical; hot, humid; rainy season (May to November) has strong southeast winds; dry season (December to April) dominated by hot, dry, harmattan wind

Terrain: generally low, rolling, plains rising to foothills in southeast

Elevation extremes:
lowest point: Atlantic Ocean 0 m
highest point: unnamed feature near Nepen Diakha 581 m

Natural resources: fish, phosphates, iron ore

Land use:
arable land: 12%
permanent crops: 0%
permanent pastures: 16%
forests and woodland: 54%
other: 18% (1993 est.)

Irrigated land: 710 sq km (1993 est.)

Natural hazards: lowlands seasonally flooded; periodic droughts

Environment—current issues: wildlife populations threatened by poaching; deforestation; overgrazing; soil erosion; desertification; overfishing

Environment—international agreements:
party to: Biodiversity, Climate Change, Desertification, Endangered Species, Hazardous Wastes, Law of the Sea, Marine Life Conservation, Nuclear Test Ban, Ozone Layer Protection, Ship Pollution, Wetlands, Whaling
signed, but not ratified: Marine Dumping

Geography—note: The Gambia is almost an enclave of Senegal

People

[Top of Page]

Population: 10,051,930 (July 1999 est.)

Age structure:
0-14 years: 48% (male 2,403,384; female 2,416,791)
15-64 years: 49% (male 2,360,113; female 2,594,278)
65 years and over: 3% (male 134,765; female 142,599) (1999 est.)

Population growth rate: 3.32% (1999 est.)

Birth rate: 43.88 births/1,000 population (1999 est.)

Death rate: 10.71 deaths/1,000 population (1999 est.)

Net migration rate: 0 migrant(s)/1,000 population (1999 est.)

Sex ratio:
at birth: 1.03 male(s)/female
under 15 years: 0.99 male(s)/female
15-64 years: 0.91 male(s)/female
65 years and over: 0.95 male(s)/female
total population: 0.95 male(s)/female (1999 est.)

Infant mortality rate: 59.81 deaths/1,000 live births (1999 est.)

Life expectancy at birth:
total population: 57.83 years
male: 54.95 years
female: 60.78 years (1999 est.)

Total fertility rate: 6.11 children born/woman (1999 est.)

Nationality:
noun: Senegalese (singular and plural)
adjective: Senegalese

Ethnic groups: Wolof 43.3%, Pular 23.8%, Serer 14.7%, Diola 3.7%, Mandink 3%, Soninke 1.1%, European and Lebanese 1%, other 9.4%

Religions: Muslim 92%, indigenous beliefs 6%, Christian 2% (mostly Roman Catholic)

Languages: French (official), Wolof, Pulaar, Diola, Mandingo

Literacy:
definition: age 15 and over can read and write
total population: 33.1%
male: 43%
female: 23.2% (1995 est.)

Government

[Top of Page]

Country name:
conventional long form: Republic of Senegal
conventional short form: Senegal
local long form: Republique du Senegal
local short form: Senegal

Data code: SG

Government type: republic under multiparty democratic rule

Capital: Dakar

Administrative divisions: 10 regions (regions, singular—region); Dakar, Diourbel, Fatick, Kaolack, Kolda, Louga, Saint-Louis, Tambacounda, Thies, Ziguinchor

Independence: 4 April 1960 from France; complete independence was achieved upon dissolution of federation with Mali on 20 August 1960 (The Gambia and Senegal signed an agreement on 12

December 1981 that called for the creation of a loose confederation to be known as Senegambia, but the agreement was dissolved on 30 September 1989)

National holiday: Independence Day, 4 April (1960)

Constitution: 3 March 1963, revised 1991

Legal system: based on French civil law system; judicial review of legislative acts in Constitutional Court; the Council of State audits the government's accounting office; Senegal has not accepted compulsory ICJ jurisdiction

Suffrage: 18 years of age; universal

Executive branch:
chief of state: President Abdou DIOUF (since 1 January 1981)
head of government: Prime Minister Mamadou Lamine LOUM (since 4 July 1998)
cabinet: Council of Ministers appointed by the prime minister in consultation with the president
elections: president elected by popular vote for a seven-year term; election last held 21 February 1993 (next to be held NA February 2000); prime minister appointed by the president
election results: Abdou DIOUF reelected president; percent of vote—Abdou DIOUF (PS) 58.4%, Abdoulaye WADE (PDS) 32.03%, other 9.57%

Legislative branch: unicameral National Assembly or Assemblee Nationale (140 seats; members are elected by direct popular vote to serve five-year terms)
elections: last held 24 May 1998 (next to be held NA May 2003)
election results: percent of vote by party—PS 50.19%, PDS 19%, UDS-R 13%, And/Jef-PADS 5%, LD/MPT 4%, CDP/Garab-Gi 2%, FSD 1%, PDS-R 1%, RND 1%, BCG 1%, PIT 1% ; seats by party—PS 93, PDS 23, UDS-R 11, And-Jef/PADS 4, LD-MPT 3, CDP/Garab-Gi 1, FSD 1, PDS-R 1, RND 1, BCG 1, PIT 1

Judicial branch: under the terms of a reform of the judicial system implemented in 1992, the principal organs of the judiciary are as follows; Constitutional Court; Council of State; Court of Final Appeals or Cour de Cassation; Court of Appeals

Political parties and leaders: African Party for Democracy and Socialism or And-Jef/PADS (also known as PADS/AJ) [Landing SAVANE, secretary general]; Democratic League-Labor Party Movement or LD-MPT [Dr. Abdoulaye BATHILY]; Democratic and Patriotic Convention or CDP Garab-Gi [Dr. Iba Der THIAM]; Independent Labor Party or PIT [Amath DANSOKHO]; National Democratic Rally or RND [Madier DIOUF]; Senegalese Democratic Party or PDS [Abdoulaye WADE]; Senegalese Democratic Party-Renewal or PDS-R [Serigne Lamine DIOP, secretary general]; Senegalese Democratic Union-Renewal or UDS-R [Mamadou Puritain FALL]; Socialist Party or PS [President Abdou DIOUF]; African Party of Independence [Majhemout DIOP]; Front pour le socialisme et la democratie or FSD [leader NA]; Bloc des centristes Gainde or BCG [leader NA]; other small parties

Political pressure groups and leaders: students; teachers; labor; Muslim brotherhoods

International organization participation: ACCT, ACP, AfDB, CCC, ECA, ECOWAS, FAO, FZ, G-15, G-77, IAEA, IBRD, ICAO, ICC, ICFTU, ICRM, IDA, IDB, IFAD, IFC, IFRCS, ILO, IMF, IMO, Inmarsat, Intelsat, Interpol, IOC, IOM, ITU, MINURCA, MIPONUH, MONUA, NAM, OAU, OIC, OPCW, PCA, UN, UNAVEM III, UNCTAD, UNESCO, UNIDO, UNIKOM, UNMIBH, UPU, WADB, WAEMU, WCL, WFTU, WHO, WIPO, WMO, WToO, WTrO

Diplomatic representation in the US:
chief of mission: Ambassador Mamadou Mansour SECK
chancery: 2112 Wyoming Avenue NW, Washington, DC 20008
telephone: [1] (202) 234-0540

Diplomatic representation from the US:
chief of mission: Ambassador Dane Farnsworth SMITH, Jr.
embassy: Avenue Jean XXIII at the corner of Avenue Kleber, Dakar
mailing address: B. P. 49, Dakar
telephone: [221] 823-4296, 823-7384
FAX: [221] 822-2991

Flag description: three equal vertical bands of green (hoist side), yellow, and red with a small green five-pointed star centered in the yellow band; uses the popular pan-African colors of Ethiopia

Economy

[Top of Page]

Economy—overview: In January 1994, Senegal undertook a bold and ambitious economic reform program with the support of the international donor community. This reform began with a 50% devaluation of Senegal's currency, the CFA franc, which is linked at a fixed rate to the French franc. Government price controls and subsidies have been steadily dismantled. After seeing its economy contract by 2.1% in 1993, Senegal made an important turnaround, thanks to the reform program, with real growth in GDP averaging 5% annually in 1995-98. Annual inflation has been pushed below 2%, and the fiscal deficit has been cut to less than 1.5% of GDP. Investment rose steadily from 13.8% of GDP in 1993 to 16.5% in 1997. As a member of the West African Economic and Monetary Union (UEMOA), Senegal is working toward greater regional integration with a unified external tariff. Senegal also realized full Internet connectivity in 1996, creating a miniboom in information technology-based services. Private activity now accounts for 82% of GDP. On the negative side, Senegal faces deep-seated urban problems of chronic unemployment, juvenile delinquency, and drug addiction. Forecasters predict growth will continue in the 5% range in 1999-2000.

GDP: purchasing power parity—$15.6 billion (1998 est.)

GDP—real growth rate: 5.7% (1998 est.)

GDP—per capita: purchasing power parity—$1,600 (1998 est.)

GDP—composition by sector:
agriculture: 19%
industry: 17%
services: 64% (1996 est.)

Population below poverty line: NA%

Household income or consumption by percentage share:
lowest 10%: 1.4%
highest 10%: 42.8% (1991)

Inflation rate (consumer prices): 1.8% (1998 est.)

Labor force: NA

Labor force—by occupation: agriculture 60%

Unemployment rate: NA%; urban youth 40%

Budget:
revenues: $885 million
expenditures: $885 million, including capital expenditures of $125 million (1996 est.)

Industries: agricultural and fish processing, phosphate mining, fertilizer production, petroleum refining, construction materials

Industrial production growth rate: 7% (1998 est.)

Electricity—production: 1.027 billion kWh (1997 est.)

Electricity—production by source:
fossil fuel: 100%
hydro: 0%
nuclear: 0%
other: 0% (1996)

Electricity—consumption: 730 million kWh (1996)

Electricity—exports: 0 kWh (1997)

Electricity—imports: 0 kWh (1997)

Agriculture—products: peanuts, millet, corn, sorghum, rice, cotton, tomatoes, green vegetables; cattle, poultry, pigs; fish

Exports: $925 million (f.o.b., 1998)

Exports—commodities: fish, ground nuts (peanuts), petroleum products, phosphates, cotton

Exports—partners: France 20%, other EU countries, India, Cote d'Ivoire, Mali (1996)

Imports: $1.2 billion (f.o.b., 1998)

Imports—commodities: foods and beverages, consumer goods, capital goods, petroleum products

Imports—partners: France 36%, other EU countries, Nigeria, Cameroon, Cote d'Ivoire, Algeria, US, China, Japan (1996)

Debt—external: $3.8 billion (1997)

Economic aid—recipient: $647.5 million (1995)

Currency: 1 Communaute Financiere Africaine franc (CFAF) = 100 centimes

Exchange rates: Communaute Financiere Africaine francs (CFAF) per US$1—560.01 (December 1998), 589.95 (1998), 583.67 (1997), 511.55 (1966), 499.15 (1995), 555.20 (1994)

Fiscal year: calendar year

Communications

[Top of Page]

Telephones: 81,988 (1995 est.)

Telephone system:
domestic: above-average urban system; microwave radio relay, coaxial cable and fiber-optic cable in trunk system
international: 4 submarine cables; satellite earth station—1 Intelsat (Atlantic Ocean)

Radio broadcast stations: AM 8, FM 6, shortwave 1

Radios: 850,000 (1993 est.)

Television broadcast stations: 1 (1997)

Televisions: 61,000 (1993 est.)

Transportation

[Top of Page]

Railways:
total: 904 km
narrow gauge: 904 km 1.000-meter gauge (70 km double track) (1995)

Highways:
total: 14,576 km
paved: 4,271 km
unpaved: 10,305 km (1996 est.)

Waterways: 897 km total; 785 km on the Senegal river, and 112 km on the Saloum river

Ports and harbors: Dakar, Kaolack, Matam, Podor, Richard-Toll, Saint-Louis, Ziguinchor

Merchant marine:
total: 1 bulk ship (1,000 GRT or over) totaling 1,995 GRT/3,775 DWT (1998 est.)

Airports: 20 (1998 est.)

Airports—with paved runways:
total: 10
over 3,047 m: 1
1,524 to 2,437 m: 7
914 to 1,523 m: 2 (1998 est.)

Airports—with unpaved runways:
total: 10
1,524 to 2,437 m: 5
914 to 1,523 m: 4
under 914 m: 1 (1998 est.)

Military

[Top of Page]

Military branches: Army, Navy, Air Force, National Gendarmerie, National Police (Surete Nationale)

Military manpower—military age: 18 years of age

Military manpower—availability:
males age 15-49: 2,096,438 (1999 est.)

Military manpower—fit for military service:
males age 15-49: 1,095,047 (1999 est.)

Military manpower—reaching military age annually:

males: 103,348 (1999 est.)

Military expenditures—dollar figure: $68 million (1997)

Military expenditures—percent of GDP: 1.4% (1997)

Transnational Issues

[Top of Page]

Disputes—international: short section of boundary with The Gambia is indefinite

Illicit drugs: transshipment point for Southwest and Southeast Asian heroin moving to Europe and North America; illicit cultivator of cannabis

---

[Country Listing] [*Factbook* Home Page]

www.BestOffer.com
Looking out for used car buyers and sellers.
Best Offer

Newspaper Subscription

SECTIONS
Breaking News
Front Page (Image)
World
National
Local & State
Business & Stocks
Technology
Sports
SV Life
Entertainment
Opinion
Weekly Sections
Special Interests
Columnists
Comics
Weather
SV Magazine

CLASSIFIEDS & SERVICES
Classifieds
Jobs: CareerPath
Homes: HomeHunter
NewHomeNetwork.com
Apartments.com
Mortgage Link
Cars: Cars.com
Personals
Yellow Pages
BayArea.com
Entertainment: Just Go
S.F. Bay Traveler
Archives: NewsLibrary
E-mail Dispatches
Contests & Events

ABOUT US
Mercury Center
Advertising Information
Privacy Policy
Site Index

Local & State

Stories from the San Jose Mercury News

Related Features
- Education
- Gary Richards
- Joe Rodriguez
- Special Reports
- Seven-Day Archives

Published Monday, April 17, 2000, in the San Jose Mercury News

SETTING THE RECORD STRAIGHT

An article on Page 1A Sunday incorrectly stated that Sun Microsystems Inc. provided the seed money for Plugged In, an East Palo Alto non-profit agency that provides computer training. That seed money came from the New York-based Echoing Green Foundation in 1992; Sun Microsystems donated seed money to Plugged In Enterprises, a Web-design business run by the non-profit agency.

The index on Sunday's Page 1A gave an incorrect page for the horoscope. That feature appeared on Page 7G.

Site Index

San Jose Mercury News

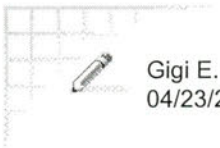
Advertising Information
Newspaper Subscription
Mercury News Jobs

▲ Back to top | San Jose Mercury News | Home | Site Index | Search | Feedback | Help | Customer Service

www.BestOffer.com
Looking out for used car buyers and sellers.

© 2000 Mercury Center. The information you receive online from Mercury Center is protected by the copyright laws of the United States. The copyright laws prohibit any copying, redistributing, retransmitting, or repurposing of any copyright-protected material. Mercury Center privacy policy

KNIGHTRIDDER INFORMATION FOR LIFE



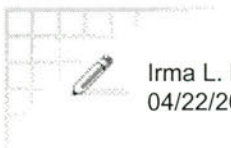
Gigi E. Georges
04/23/2000 05:03:16 PM

Record Type: Record

To: Natasha F. Bilimoria/OPD/EOP@EOP, Kendra P. Goldbas/OPD/EOP@EOP

cc:
Subject: NC deliverable?

I know I didn't do anything with this -- does it look familiar? thanks.
---------- Forwarded by Gigi E. Georges/OPD/EOP on 04/23/2000 05:04 PM ----------



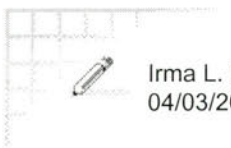
Irma L. Martinez
04/22/2000 05:32:00 PM

Record Type: Record

To: Gigi E. Georges/OPD/EOP@EOP, Jackson T. Dunn/WHO/EOP@EOP

cc:
Subject: NC deliverable?

Did we ever contact this person?
---------- Forwarded by Irma L. Martinez/WHO/EOP on 04/22/2000 05:33 PM ----------



Irma L. Martinez
04/03/2000 02:59:48 PM

Record Type: Record

To: Gigi E. Georges/OPD/EOP@EOP, Natasha F. Bilimoria/OPD/EOP@EOP

cc: Irma L. Martinez/WHO/EOP@EOP
Subject:

I just got a call from person below who believes he has deliverables for POTUS NC trip -- don't know if the NC piece if off now. If that is the case, please confirm and I will let this person know we won't be by his state. Thanks.

Admiral Paul Busick, 752-522-4929, ext 706
President and Exec. Director of Federal
North Carolina Global Transport Authority

Digital Bridge Building: A Proposal to Establish A Technology Learning Center in the Research Triangle

James H. Johnson, Jr.
William Rand Kenan, Jr. Distinguished Professor
Director, Urban Investment Strategies Center
Frank Hawkins Kenan Institute of Private Enterprise
University of North Carolina at Chapel Hill

Walter C. Farrell, Jr.
Professor of Social Work and Public Health
Associate Director, Urban Investment Strategies Center
Frank Hawkins Kenan Institute of Private Enterprise
University of North Carolina at Chapel Hill

Todd Cohen
Editor and Publisher
Nonprofitxpress
A publication of the A.J. Fletcher Foundation
P.O. Box 12800
Raleigh, North Carolina 27605

A breakthrough strategy is needed to bridge the growing gap between people with access to technology and those without it.

This proposal seeks support to establish a community technology center in the Research Triangle that will foster and deliver tech services to three core groups that find themselves on the margins of the information economy – economically disadvantaged youngsters, nonprofit organizations, and small and medium-sized businesses.

The proposed Technology Learning Center will develop, test, and evaluate innovative, technology-based education and training programs designed to equip each of these three core groups to compete and thrive in the digital economy.

The proposed center will house three interconnected programs rooted in learning about technology and enterprise:

- A lab school to train the next generation of knowledge workers.
- A support center to deliver technology know-how to nonprofits.
- An incubator to nurture electronic commerce ventures among small and medium-sized businesses.

The proposed center will draw upon the research, technical expertise, and business intelligence resources of The Frank Hawkins Kenan Institute of Private Enterprise, the Center for Innovation and Learning, and the Center for Entrepreneurship and Technology Venturing at the University of North Carolina at Chapel Hill (UNC-CH).

These three centers of excellence are housed in the UNC-CH's Kenan-Flagler Business School (KFBS). The proposed center will also serve as the Research Triangle's link to the resources of national programs and organizations that seek to resolve the growing digital divide in the U.S.

BACKGROUND AND CONTEXT

Media and policy circles have devoted considerable attention to the racial or ethnic and class manifestations of the digital divide.

Research shows that:

- Blacks and Hispanics are far less likely than whites to have access to a home computer or to use the Internet on a regular basis – especially in households earning less than $40,000 a year.
- Young people attending rural and inner city schools are far less likely than their counterparts at suburban schools to have access to computers and the Internet.
- Inner-city and rural schools that have access to technology often lack access to the peripherals and add-ons that allow or enable their students to take full advantage of the World Wide Web.

Studies have also drawn attention to two other dimensions of the digital divide:

- Nonprofit organizations in general suffer from a significant technological deficit. Those serving inner-city and low-income communities, in particular, are far less likely to have access to computers and the Internet than their national and international counterparts – and thus cannot take advantage of online resources to engage in fundraising and other activities.
- Small- and medium-sized businesses, especially those owned by minorities and women, face a big challenge in their efforts to join the digital economy. Many of these firms can't afford to buy the hardware, software, and training they need to participate in the new economy, which will be driven by electronic commerce.

Efforts to close these multiple digital divides abound -- locally and nationally. However, most initiatives so far have approached the problem in a piecemeal fashion. As one commentator has noted, for example, "unloading large shipments of hardware and software" will not solve the problems of impoverished, inner-city and rural schools.

To succeed, initiatives to plug the digital gap for disadvantaged young people, for nonprofit organizations, and for small and medium-sized businesses must integrate a broad range of strategies:

- Efforts to wire poor schools must be embedded in broader educational reform efforts that address the multiple barriers that socially and economically disadvantaged youngsters face in their home, family and neighborhood contexts.
- Efforts to wire nonprofits are not likely to succeed unless they are linked with larger efforts to address some of the management issues that that nonprofit face, especially in the current climate of increased competition for philanthropic and government dollars.
- Efforts to help small and medium-sized businesses succeed in the digital economy, must incorporate their technology needs -- for hardware, software and training -- into programs designed to address some of the serious managerial challenges they face in their day-to-day operations.

To ensure the future competitiveness of U.S. communities in the international marketplace, efforts to "bridge" these multiple digital divides must be approached in an integrated or systematic way, which is the goal of the proposed Technology Learning Center of the Triangle.

STRUCTURE AND ORGANIZATION OF PROPOSED CENTER

The proposed Triangle Learning Center will consist of three initiatives – Triangle Enterprise Academy, Triangle Digital Business Works and Triangle Nonprofit Tech Network (Figure 1). Each initiative will build on and expand outreach initiatives launched by the Frank Hawkins Kenan Institute of Private Enterprise at UNC-CH.

Triangle Enterprise Academy. This lab school will train the next generation of knowledge workers for the Triangle's information economy. While most lab schools are populated by children with an array of social, economic and cultural supports, the Triangle Tech Academy will focus on bringing into the information mainstream those children most at risk of falling through the digital divide.

The school will equip socially and economically disadvantaged youngsters with both the generic and application-specific skills they will need to take advantage of "good paying" jobs in the Triangle's high-tech economy. It also will certify school personnel in the use of the latest technology-based educational tools and techniques.

The proposed lab school will build on and expand the Durham Scholars Program (DSP), which was launched in 1995 with a $3.6 million grant from the William Rand Kenan, Jr. Charitable Trust.

DSP is designed to improve the academic performance and overall life chances of socially and economically distressed young people who live in the most concentrated poverty areas of Durham, North Carolina.

Now in its fourth year of operation, DSP seeks to build bridges to the social, educational and economic mainstream of society for these students. This population was selected, by design, to demonstrate those practices that can lead to the educational success of students facing significant social and economic barriers -- individually and in their family, neighborhood and community environments.

DSP offers after-school, weekend, and summer academic and cultural enrichment programs, as well as interventions designed to improve the child-rearing skills and family management practices of their parents or guardians.

Students are recruited as they enter sixth grade. The program aims to support their progress through the middle and high school years. DSP is staffed by model teachers, family mentors (typically clinical social workers) and volunteer tutors for each participating student.

Currently, 110 students are enrolled in the program, including 20 sixth-graders, 23 seventh-graders, 24 eighth-graders, 22 ninth-graders and 21 10th-graders. Building on the DSP model, Figure 2 describes the proposed structure and organization of the Triangle Tech Academy.

Triangle Digital Business Works. This small business incubator will (1) nurture the growth and development of new e-commerce business ventures; and (2) assist traditional small- and medium-size firms, especially those owned by minorities and women, to make the transition to the digital economy. The incubator will be staffed by MBA-trained small business consultants who are members of the Urban Enterprise Corps, a KFBS-sponsored program launched in 1994 to facilitate business development in economically distressed communities.

Triangle Nonprofit Tech Network. The Triangle has more than 2,000 nonprofit organizations, but most are "under-financed and overworked, pre-occupied with fundraising, and unable to perform on a scale anywhere near the needs they seek to address."

To improve the effectiveness of nonprofit organizations, the Frank Hawkins Kenan Institute of Private Enterprise launched a Civic Entrepreneurship Program in 1998, which is designed to train nonprofit and government organizations to apply entrepreneurial strategies and business principles in the pursuit of their missions.

The program strives to transform the culture of nonprofit and government organizations from operations based on a social-welfare model to operations based on a business model, enabling them to become creators rather than mere redistributors of wealth.

The Triangle Nonprofit Enterprise Center will expand this training in the "nuts-and-bolts" of sound, socially responsible business practices by addressing the technology needs of Triangle-area nonprofit organizations.

ANTICIPATED OUTCOMES

By successfully using state-of-the-art technology to strengthen the ability of small and medium-sized businesses, nonprofit organizations, and socially and economically disadvantaged young people to compete in the 21st century knowledge-based economy, the proposed Technology Learning Center will contribute to the future competitiveness of the Research Triangle and its constituent communities in the global marketplace.

More specifically, it will increase the probability that socially and economically disadvantaged young people will gain the essential skills they will need to compete in the contemporary labor market and thus reduce the likelihood that a permanent "information underclass" will develop in the Triangle.

In an era of devolution or "fend for yourself federalism," the Triangle Technology Learning Center will provide nonprofit organizations with new tools to attack pressing societal problems such as crime, illiteracy, and poor health. And the proposed center will foster the growth and development of e-commerce business, which, in turn, will create jobs that will enable Triangle residents to form and maintain stable and nurturing families.

Betsy.Kim@sba.gov
03/30/2000 01:12:43 PM

Record Type: Record

To: Gigi E. Georges/OPD/EOP, Thomas A. Kalil/OPD/EOP, Natasha F. Bilimoria/OPD/EOP, kpgoldbas@hotmail.com

cc: Irma L. Martinez/WHO/EOP, Michele.Kreiss@sba.gov, kris.swedin@sba.gov, James.Ballentine@sba.gov

Subject: possible deliverable for Raleigh/Chapel Hill

<<#2L01!.DOC>> have a great potential announcement for Raleigh/Chapel Hill Research Triangle area. Keenan-Flagler Business School, recipient of SBA 7(j) grant is involved in a project that is in infancy stage at this point, but with possible Presidential visit could maybe get commitments firmed up. They are discussing development of a new Technology Learning Center that will provide the following:

1. State of the art computer lab school for underprivileged youth
2. Non-profit organization center to help bring non-profits into the digital age
3. Incubator for minority- and women-owned e-commerce focused businesses

Corporate participants include Red Hat, IBM, Cisco and possibly Microsoft and Bank of America (see attached proposal on Bank of America/Kenan-Flagler Community Development Fund that we submitted for 2nd NM tour back in Nov).

- att1.htm

- #2L01!.DOC

Put this in the paper

U.S. SMALL BUSINESS ADMINISTRATION
WASHINGTON, D.C. 20416

DATE: October 15, 1999

TO: Gene Sperling, NEC
Lisa Green, NEC
Natasha Bilimoria, NEC

FROM: Betsy Kim, New Markets Director

SUBJECT: Proposal for President's Second New Market Tour -- SBA 7(j) Program Leveraging Private Investment

CC: Fred Hochberg, SBA
Kris Swedin, SBA
Michele Kreiss, SBA
James Ballentine, SBA
Mike Schattman, SBA

ANNOUNCEMENT OF BANK OF AMERICA/KENAN-FLAGLER BUSINESS SCHOOL COMMUNITY DEVELOPMENT FUND

BACKGROUND ON THE 7(J) INITIATIVE

SBA's 7(j) program authorizes SBA to provide financial assistance to fund technical or management assistance for individuals or businesses. SBA recently funded a new 7(j) initiative at the Kenan-Flagler Business School of North Carolina at Chapel Hill, in the amount of $413,000.00. The new initiative, called the Kenan Institute National Year Round Assistance Program, will develop an assistance program that is effective year round, merges the resources and talents of national business schools, including Historical Black Colleges and Universities, and provides direct management and technical assistance to a greater number of 8(a) businesses at a reasonable cost. The Kenan Institute, an arm of the Kenan-Flagler Buisness School of North Carolina at Chapel Hill, will oversee and integrate with a network of other national business schools and MBA graduates and students in providing 8(a) firms this business development opportunity.

The funding level will permit a pilot program involving schools in five proposed cities – Los Angeles, San Antonio, Chicago, New York and Washington, DC. These cities were selected by SBA, based on such criteria as concentration of 8(a) firms, wide-ranging demographic representation, wide-ranging geographic representation, and strength of business school programs. Currently, the Kenan Institute and SBA are looking at the following business schools to participate in the pilot:

Los Angeles – University of California at Los Angeles
University of Southern California

San Antonio – University of Texas at San Antonio
University of Texas at Austin

Chicago – University of Chicago
Northwestern University (Kellogg)

New York – Columbia University
New York University

Washington, DC – Georgetown University
Howard University

ANNOUNCEMENT

During the first tour, Bank of America[1] announced its commitment of $500 million to a new venture fund, the Bank of America Catalyst Fund, to support community development opportunities in America's New Markets. In response to SBA's 7(j) pilot, **Bank of America has agreed to join Kenan-Flagler in creating a venture development fund to invest in promising small and mid-size women- and minority-owned businesses that serve, operate in, hire from, or seek to expand into under-invested urban and rural communities in North Carolina.** The Kenan-Flagler Business School/Bank of America Community Development Venture Fund (the "Fund") will offer to institutional and accredited individual investors up to $30,000,000 in limited partnership interests with a minimum investment of $100,000 per Investor. Through its Catalyst Fund, the Bank of America will initially subscribe to $10 million in capital. The Fund will be formed if at least $15,000,000 is subscribed. In response to Bank of America's commitment, Kenan-Flagler has, in turn, committed to matching the $10 million with an additional $10 million (to be obtained through other private sector investments).

In other words, **SBA's funding of $413,000 has leveraged an additional $20 million in private capital investments. Additionally, there is a direct tie to THE major announcement made during the President's first tour. This epitomizes the President's New Markets strategy, where initial government action spurs private sector investment. It is a concrete example of the New Markets strategy at work.**

The Kenan-Flagler Business School/Bank of America Community Development Venture Fund will be a North Carolina venture capital fund managed and operated by the Frank Hawkins Kenan Institute of Private Enterprise, the community outreach arm of the Kenan-Flagler Business School. The Fund will be an extension of the Kenan Institute's ongoing efforts, including the 7(j) initiative, to promote synergy among leaders in business, academia, and government for the purpose of strengthening the private enterprise system worldwide. The Fund's mission is to promote competitiveness among smaller businesses and to increase employment growth. The Fund intends to accomplish its mission by integrating venture capital investment and intensive management assistance. The Fund intends to leverage the talents and resources within the Kenan-Flagler Business School with a consortium of business and community leaders in the state to reach its goals. The Fund will seek investment opportunities in small companies, which exhibit substantial potential for profitability and sustained growth. Investments will not be limited to any particular industry. The Fund will focus on investments in manufacturing, healthcare, information technology, communication, manufacturing, and transportation.

[1] The current president of Bank of America, Hugh McColl, is a graduate of Kenan-Flagler.

BACKGROUND ON THE FUND

The Fund will have access to several resources that will offer a significant competitive advantage and help ensure success of investments. The major competitive advantages inherent in the Kenan-Flagler Business School Community Development Venture Fund are the following:

- The Fund will be managed by an accomplished full-time professional venture fund manager(s).

- The Fund will also draw upon the expertise of the business faculty of the Kenan-Flagler Business School, the Kenan Institute of Private Enterprise, and other professionals to direct the fund, offering a combination of academic and business expertise that is unmatched by other venture capital funds. These professionals have experience in small business management, entrepreneurship, strategic planning, economic forecasting, venture capital, finance, law, technological developments, and international business.

- The faculty have the know-how and experience that will be beneficial for evaluating deals, determining reasonable valuations for investments, managing the portfolio, and structuring financing to benefit both the investors and the companies.

- The Fund will have access to current research on business trends, technological developments, economic forecasts, competitive analysis, high growth opportunities and international markets.

- The Fund will have access to the latest business intelligence information pertinent to the growth of minority- and women-owned businesses and will have the capabilities to identify economically vibrant minority- and women-owned businesses that can achieve high growth. The Fund will also be informed of the latest studies addressing urban economic development.

- MBA candidates will assist experienced venture capital professionals in managing the fund and evaluating investment opportunities. Portfolio companies will receive the consultation services of MBA graduates of the top 30 accredited business schools who are members of Kenan-Flagler's MBA Instructors Corps. Portfolio companies will be provided with human capital, typically reserved for Fortune 500 companies, to assist with strategic planning, problem solving, information technology, corporate finance, and management and technical assistance.

- The Fund will have an Advisory Board to assist with evaluating deals and counseling portfolio companies. The Advisory Board shall be composed of individuals who specialize in venture capital, technology, research and development, investments, finance, urban economic development, and law. This should lead to high quality candidates for investment and put additional resources at the Fund Manager's disposal.

Community Development Financial Institutions Fund
U.S. Department of the Treasury
601 Thirteenth Street, NW, Suite 200-South
Washington, DC 20005
Tel: (202) 622-8662 Fax: (202) 622-7754

Please Deliver ASAP!

Fax

To:	Natasha	**From:**	Bill Luecht, External Affairs Office
Fax:	456-5334	**Pages:**	4, including cover sheet
Re:	$100 million NC announcement	**Date:**	4/5/00

Please keep the circulation of this document limited as the state of NC's commitment hasn't been finalized.

DRAFT

Self-Help Home Lending Program for Eastern North Carolina
March 22, 2000

In response to the displacement of over 15,000 families in eastern North Carolina due to recent flooding, Self-Help is seeking to deliver $100-115 million of homeownership funding to families in eastern North Carolina. This effort would jumpstart homeownership for over 1,700 families and facilitate construction of new housing units. The program would use Self-Help's Community Advantage secondary market program to expand underwriting and credit availability in the impacted areas. A proposed special component of this program would target specific barriers that prevent many flood victims from moving quickly into new homes.

Overall Program

- Self-Help will package $50 million in bank funds ($10 million loans committed to Self-Help from BB&T, CCB, First Union, and Wachovia; $5 million loan committed from Centura and First Citizens) and $50 million in Federal Home Loan Bank of Atlanta funds to create a $100 million homeownership fund. The Bank loans have been committed through incentives from Bank Enterprise Award Program which is administered by the CDFI Fund, U.S. Department of the Treasury.
- An additional $15 million fund has been requested from the state to meet the special needs of direct flood victims, helping jumpstart new home purchases in anticipation of subsequent buyout and other assistance by FEMA and the State of North Carolina.
- Self-Help will use internal equity, and state assistance to create an equity reserve to absorb the risk on the loans.
- Centura Bank, Bank of America, Self-Help Credit Union, and potential other lenders will provide the direct home loans to families in the affected counties. Self-Help will use the homeownership fund to purchase these loans.
- Lenders would use flexible, individualized underwriting to meet the needs of affected families. The loan guidelines will allow the following, subject to guidelines by the various originating lenders:
    - Because families may have stretched their savings to deal with immediate flood effects and income may have been interrupted, maximum loan-to-value may be as high as 100% of the new home purchase price.
    - Minimum borrower contribution may be as low as $500.
    - Loans are limited to families at or below 115% of area median income.
    - Families may have experienced credit blemishes that can be tied to the flooding; conventional loan products that use automated underwriting have difficulty making such determinations. Lenders would have the ability to forgive blemishes that they determine are due to the flooding.

DRAFT

- For the $15 million special fund, any existing loan on a flooded and abandoned house will not be counted against the borrower in the purchase of a new home.

$15 Million Special Flood Victim Fund

A special component of this program will target flood victims who face significant barriers in credit issues and a timing dilemma that prevents them from moving expeditiously into new homeownership situations.

Credit problems for flood victims and others in flood-impacted areas:

- Lack of downpayment: Equity trapped in an abandoned home, or needed for repairs to homes still occupied, can dissipate a homeowner's cash reserves, leaving no downpayment funds available for the purchase of a new home.
- Credit blemishes: Disruption in work income and emergency cash needs have created credit report problems for large numbers of potential home purchasers in the flood-impacted areas.
- Existing, unresolved mortgages: A home mortgage on a now uninhabitable dwelling is still a debt of the homeowner, causing disqualification for a new home loan because the borrower's loan application will show too much debt for the available family income.

Solving the "timing" problem

County, state, and federal disaster programs cannot provide homeownership assistance to all flood victims all at once. Without intervention, displaced families cannot qualify for new home loans for a period of months or even years.

A builder needs to pre-sell housing units before beginning construction. A potential home buyer cannot sign a binding purchase contract without a mortgage loan commitment. A home mortgage lender cannot commit a loan without a down payment, good credit, and acceptable debt-income ratios on the part of the borrower. The potential homeowner/borrower cannot resolve equity, credit report, and outstanding debt issues until the FEMA buyout and state assistance are actually completed.

Hence, a catch-22 situation arises. Many potential homeowner/borrowers need to actually receive government buyout assistance before they can buy a new house. But builders cannot start construction until a pool of qualified borrowers exist to purchase the homes. The result is unavoidable delays in development of new housing.

The special program will solve this dilemma by not counting the existing loan on an abandoned home in the consideration of a prospective borrower's eligibility. This will allow these families to obtain a mortgage commitment prior to the completion of the buyout and state assistance, thus jumpstarting construction in the region.

DRAFT

Self-Help Home Lending Program for Eastern North Carolina

Overall Lending Program Goals

Jumpstart homeownership loan for 1,725 eastern NC families.
Facilitate construction of new housing units.
Free up existing homes to increase the supply of homes available to flood victims.
Special lending assistance to flood victims.
Enable displaced residents to remain in their home communities.

Sources of Funds for the Program

BB&T	$ 10 million
Centura	$ 5 million
CCB	$ 10 million
First Citizens	$ 5 million
Wachovia	$ 10 million
FHLB/ Fannie Mae	$ 50 million
State of North Carolina	$ 15 million
Total	$115 million

Uses of Funds for the Program

100% LTV home loans in flood impacted counties	$100 million
Special flood victim home loans	$ 15 million
Total	$115 million

Participating Lenders- Lending capacity is greater than available resources

Bank of America	$100 million capacity
Centura	$ 25 million per year capacity
Self-Help Credit Union	$ 10 million per year capacity
First South	still under discussion
SECU	still under discussion, $$ amount uncertain
Total	$135 million lending capacity exists to access $115 million of available funds on first-come basis

Supporting Organizations and Agencies

North Carolina Bankers Association
North Carolina Credit Union League
North Carolina Realtors Association
North Carolina Homebuilders Association
Congressional Black Caucus Foundation
U. S. Treasury/ Bank Enterprise Award Program
North Carolina Department of Commerce

bigchalk.com and The New Markets Tour

bigchalk.com recognizes the essential role that technology will play in the educational futures of all of our children. But not all children are being given the same opportunities to benefit from all that computers and the Internet can offer. Providing access to content along with powerful tools to communicate and collaborate is an area where schools, public libraries, community access centers and the business community can cooperate to fulfill our obligation to students to prepare them for the 21st century.

Over the next few months, in concert with our catalyst school program, bigchalk.com will announce sponsorship of several New York and nationally-based organization. These partnerships will provide community organizations the necessary tools to establish online community and better serve their constituents. Students, and all members of the community, will have access to technology tools to build their own web site, research information for a homework assignment, participate in an online discussion, or track down the answer to a longtime curiosity. We'll even be giving participants a free email account.

Our catalyst program will include 150 diverse schools, over half are communities where the digital divide is a critical social issue. bigchalk.com will provide these schools with significant financial resources for technology equipment, professional development and direct grants for projects related to technology access issues. (See program description.)

bigchalk.com is proposing showcasing the dramatic effect that our tools, including our free community publishing system, can have on the lives of the technology "have-nots" in our country. With a presence in over 40,000 schools, we are confident that we can arrange for a dramatic and inspiring visit to a bigchalk school in one of the cities on the New Markets Tour.

Who We Are

bigchalk.com is a team of educators and technologists dedicated to improving education while supporting students, educators, and parents with the best possible collection of resources. The Internet, with its capacity for maintaining communities of learners, will help us do that.

Where did we get our name? It started with chalk, the longtime medium for education. For us, the Internet, with all its possibilities, is the new version of chalk.

Our Mission

We want to make a difference in education.

We're committed to providing educators, students, parents, and their surrounding community with the very best applications, products, and services available. And we'll make sure that they're appropriate, accessible, and easy to use.

At bigchalk.com, we're harnessing the power of the Internet to support learning. Our goal is to be the single education destination that's trusted by educators, used by students, and relied on by parents.

Content

Sources of information. Research material. To be successful, students and educators need up-to-date content at their fingertips. We use the Internet to make it available. We provide broad access to content from more than 2,600 publications and data sources – including newspapers, magazines, books, periodicals, wire services, TV and radio transcripts, photo archives, and map collections. And we provide appropriate search engines – so students, educators, and parents can find what they need and use it to increase their knowledge.

Curriculum Support

A better way to understand the causes of the American Revolution. Help in grasping experiments on wave motion. A place to find the capital of Louisiana. Students need the best materials for learning. We offer access to the Internet's premier site for homework help – comprehensive, up-to-date, and easy enough for even young students to find exactly what they need.

Community

With bigchalk.com community tools, it's easy to make the connections that help students fulfill their potential. Use our tools to showcase the talent in your community with the personal web pages they created, keep community calendars up-to-date and accessible, and foster conversation on discussion boards for any topic needing a forum. bigchalk community tools help eliminate the barriers of time, distance, gender and access.

Jack Lynch
BACKGROUND SUMMARY

Positions

9/99- present	CEO Internet Education Company
8/96- 8/99	CEO Internet Technology Venture
2/93- 4/96	CEO Professional Content and Services Company
4/95- 4/96	Vice President of Corporate Strategy
10/89- 2/93	Vice President Marketing/Product Dev. Content and Services Company
4/83- 10/89	Sales and Marketing positions of increasing responsibility for two Professional Content and Service Companies

---

Track Record (General Management)

- Took Internet Technology Venture from R&D stage to commercial release of product and acquired Blue Chip Customers
- Successful restructuring and financial turnaround of Content and Services Provider over four year period:
  - Bottom line grew from ($2M) EBIT to $36M EBIT
  - Sales grew from $100M to $153M
  - Sales per employee grew from $72K to $150K

Track Record (Transactions)

- Led transaction team to sell $600M Content Provider
- Negotiated content provider agreements with Microsoft, Lexis-Nexis
- Made private equity investment in Seattle software and services firm

Personal Data

Age: 41, Married with two children,
Graduate of Boston University 1982

Employers are/have been: bigchalk.com from 9/99 to present, Jnana Technologies Corporation from 8/96- present; CCH Incorporated and CCH Legal Information Services from 1989-4/96; Prentice Hall Legal & Financial Services, a division of the Simon & Schuster Professional Information Group from 4/84-10/89 and Mathew Bender Company from 4/83- 4/84.

CONTENT AND SERVICES COMPANY
MANAGEMENT EXPERIENCE & PERFORMANCE

ACCOMPLISHMENTS

- Took company from operating loss of $2 million on $100M of sales to an operating profit of $38 million on sales of $153M over a four year period through an extensive business transformation process.
- Managed technology migration from MVS/CICS platform to client/server distributed architecture. Ranked 8th out of Top 500 companies by InfoWorld in 1995.
- Rebuilt entire product line to jump-start top line growth. Result: CAGR of 17%.
- Increased employee productivity from $72k/employee to $150k/employee while increasing customer satisfaction from 3.9 to 4.8 out of a possible 5.0.

CHALLENGES

Upon taking over as CEO of CCH Legal Information Services, the company had just posted an operating loss of $2M. Its market share declined from 56% to 44% over the previous three years, revenues stopped growing and customer satisfaction had declined to a score of 3.9 out of a possible 5. When combined, these factors represented a "burning platform," a situation that called for large scale, discontinuous change fast-- in essence, the building a new business platform.

That required a new blueprint for how we used people, process and technology. We started with redesigning the critical business processes end to end. The new processes required new job functions and new ways of performing the work. And the new processes and job functions were enabled by technology that focused on pushing expertise from management out to the points of customer contact while automating routine and repetitive tasks to radically improve operating efficiency.

Organizationally we delayered management moving from a military command and control structure to empowered work teams with team leaders. The incentive portion of compensation was increased and tied to team scores on customer satisfaction--the single largest driver of revenue and market share. Functional silos were replaced by interdisciplinary teams at headquarters.

Finally, we rebuilt the product line to improve customer satisfaction while adding many new products to generate new streams of profitable revenue growth.

CONTENT AND SERVICES COMPANY
TRANSACTION EXPERIENCE & PERFORMANCE

ACCOMPLISHMENTS

- Managed the transaction to sell CCH, Inc. to Wolters Kluwer for $1.9 billion or 3x its market capitalization two weeks prior to sales announcement.
- Hired and managed activities of Financial Advisors (Goldman Sachs) and Legal Advisors (Sidley & Austin). One of three principle authors of Offerring Memorandum. Prepared Board briefings. Met with buyers and assisted in negotiation of the deal.
- Prepared analysis of alternative value maximizatition strategies including recapitalization, mergers with other professional publishers and their combination values as well as a stand alone plan.
- Also negotiated other deals prior to the company's sale including a content provider agreement with Microsoft, a joint venture with Lexis-Nexis and an equity investment in Elf Technologies.

CHALLENGES

There are many challenges in any large transaction but for a company that spent three years working on its operating strategy, the biggest challenge was determining its financial strategy. To accomplish this we built financial models using discounted cash flow analysis to compare the present values of competing scenarios (status quo, recapitalization, sell). The most difficult scenario to build was the sell scenario because the company's future operating performance was burdened by one-time non-recurring reengineering expense that was woven into departmental cost centers. We needed to take them out to establish operating earnings after the one-time investment. Secondly we had to model the combination values for each potential buyer and lastly we needed to take an objective look at market timing considerations and whether CCH had a "scarcity" value in the private market.

Once we completed the analysis, we had an objective range for the private market value of the company compared to the "status quo" and "recapitalization" scenarios. That was the biggest challenge: determining if it made sense to sell the company.

Analysis of the Transaction
(dollars in millions except per share amounts)

Consideration Per Share		**$ 55.50**
Aggregate Consideration		**1,901**
Levered Consideration		**1,869**
Multiple of Revenues		
1995E	$600.7	3.11x
1996E	638.6	2.93
Multiple of EBITDA		
1995E	$ 82.7	22.6x
1996E	116.2	16.1
Multiple of EBIT		
1995E	$ 58.3	32.0x
1996E	90.6	20.6
Multiple of Fully Diluted EPS		
1995E	$ 1.10	50.5x
1996E	1.67	33.3
Premium to Market Price		
Latest Close	$ 27.75	100%
Undisturbed Price	23.25	138.7
10 Year High	35.50	56.3
Aggregate Goodwill		$1,844

INTERNET TECHNOLOGY VENTURE
OVERVIEW

COMPANY OVERVIEW

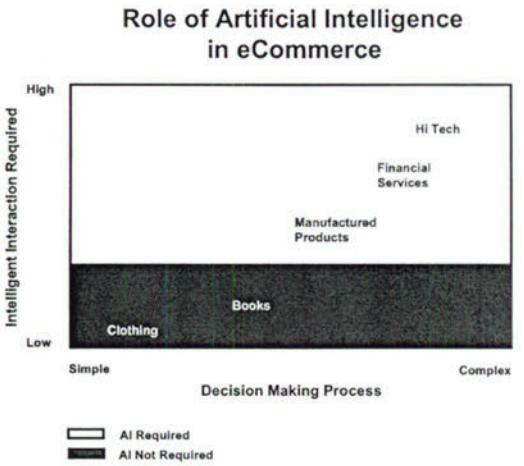
Jnana Technologies Corporation develops and sells a new technology platform, written entirely in Java, that lets organizations rapidly create and maintain Virtual Web Advisors, software based on Artificial Intelligence that interacts at a sophisticated level with end users over the Internet and Intranets.

Jnana's technology enables organizations to provide intelligent, real time advice and assistance to their customers, clients, suppliers and employees at a fraction of the cost and time required when engaging a human representative or company expert over the phone or in person. At the same time, by obtaining advice and assistance over the Web, users experience the convenience and time savings that they enjoy today when, for example, they use an ATM instead of a bank teller.

FOCUS ON E-COMMERCE

Companies operating in the new electronic marketspace require software solutions that engage their customers in an interactive dialog rather than simply execute a transaction. While products like clothing, books and CD's lend themselves to one-way order processing where the customer places an order with a vendor and the financial transaction is completed, many products in industries like Financial Services have customers that require guidance to make the best product decisions. In short, they need a customer service representative that can help them tailor product solutions to their unique needs and objectives.

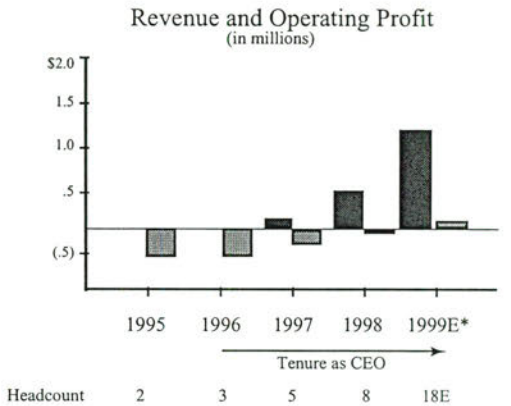
Web Advisors are like Virtual Customer Service Representatives. They dialog with customers in a rich, interactive environment as a human customer service representative would except electronically over the Web. They provide product recommendations, decision support tools, links to product catalog information and they are available on a 24 X 7 basis. Like a good customer service representative they will cross sell products and services at just the appropriate time in a session with a customer.



INTERNET TECHNOLOGY VENTURE
MANAGEMENT EXPERIENCE & PERFORMANCE

ACCOMPLISHMENTS

- Took Company from R&D stage to Commercial release of Web-based product and acquired Blue Chip Customers: General Electric, Rockwell International, MONY, Goldman Sachs, Texas Instruments and Conexant.
- Established development and marketing partnerships with Digital Marketers and System Integrators supplying eCommerce services to Financial Services Firms: US Interactive and Burnett Group.
- Sold Reseller's agreement to Intellectual Property Content provider: MNIS.
- Established relationships with numerous Internet Content, Technology and Service companies as well as Venture Capital Companies focused on Internet investment opportunities.



* Already includes approximately $500,000 in booked revenue from existing customer subscriptions.

CHALLENGES

The principle challenge of any start up is cash flow. For Jnana, getting to a cash positive state was particularly challenging because we had to do it without investment capital-- being perceived as "another AI company" or "too early" by venture capitalists. That meant moving the company quickly from a technology centric stage to a customer centric stage, developing Web-based solutions for major corporations and covering operating expenses with the cash generated from customer sales.

Once we enforced the "operate on customer cash" discipline, our next biggest challenge was scaling the business. To accomplish this, we: 1) coopted the resources of larger companies who would incorporate our product into their product line and sell it to their customers on our behalf; 2) built recurring revenue streams into our product pricing to grow cash reserves necessary to add additional staff and; 3) focused our marketing efforts on new markets and uncontested ground where we were in a unique position to create value for customer niches without drawing fire from much larger competitors.

With a solid economic foundation in place, the next big challenge for Jnana is building critical mass in its target market for eCommerce: financial services.

Catalyst Communities...
Where Shared Knowledge is Power

Catalyst schools are the model programs where bigchalk.com's suite of tools and resources is an integral tool for teaching, learning and communicating. The program that connects these schools, *Catalyst Communities*, seeks to gather the shared knowledge and use it to fuel development of increasingly powerful tools and resources for education as well as demand for the product. Since schools will adapt many of the tools and resources, especially Community Tools, to meet the unique needs of their community, *Catalyst Communities* provides bigchalk.com a primary strategy for understanding and expanding how the Community Tools tools and resources are used across diverse learning environments.

Overall, *Catalyst Communities* support a continuous cycle of feedback: from users and community to field and inside sales to development to marketing and back to the users. In product development, as schools and families utilize new tools and resources, they will provide ideas for product innovation and refinement. In training development, schools and families will field-test the newest training materials and experiences. In marketing, schools and families will be used as reference and promotional sites to build awareness and begin aggressive marketing initiatives. In customer support, schools and families will provide feedback on documentation, support processes and online support systems.

"Building local knowledge communities that link teachers, students and parents."

The robust set of interactive technologies included in the bigchalk.com suite of web-based tools and resources for education remove the technical barriers that stand in the way of sharing knowledge in a web-based environment. Without these barriers, everyone can freely participate in the local online community thereby strengthening the bonds created between all members of the school community. An easily created Internet environment that includes a combination of customizable areas and content from external sources allows administrators, educators, students, parents, and their community to publish and share information online.

What is the Goal of the *Catalyst Communities*?

Continuous improvement. Every company may use this term but the design of this program puts this concept into action. Aggressive outreach to school users through an effective and efficient communication system will bring new ideas and needs to our development group which will in turn provide enhancements and new products that our inside and field sales staffs can bring back to our customers. In addition, data gathered at these sites will provide our marketing staffs insight and information about customers' perceptions of our company and product offerings. In addition, this program will support school communities as they strive to continuously improve the integration of technology into the learning environment in meaningful ways and involving entire families in the educational system. The goal of *Catalyst Communities* is to provide a set of activities and communications processes to meet all of these needs and then demonstrate and communicate results.

How will the *Catalyst Communities* program help schools?
The combination of tools and resources offered by bigchalk.com provides a solution to the primary challenges facing schools today and *Catalyst Communities* is designed to identify and disseminate the most successful strategies that best help schools achieve results in the face of these challenges. A list of challenges (from the 1999 National Education Summit) and how *Catalyst Communities* schools can use bigchalk.com in their quest to address each of them follows.

Strengthening Accountability

- Publicly accessible archives of classroom activities and homework through web pages, calendar and newsletter features of Community Tools
- Transcripts of chat and discussion board contributions by students and parents
- Student electronic portfolios to support performance evaluations
- Use of alignment tool to correlate classroom activities to national, state and local standards

- Use of assessment tool to help site leaders gauge the growth and effectiveness of the technology program

Helping All Students Achieve

- Tools and resources encourage student-centered learning approach
- Individualization of instruction through adaptation of tools
- Students adapt tools to communicate their achievements in their own way in a variety of formats
- Access to highest quality information databases for learning that are developmentally appropriate

Improving Teacher Quality

- Professional development ranging from skill building to learning design (curriculum and environment)
- Tools to support and foster professional exchange of ideas, skills and strategies
- Access to high quality professional resources available on the Web
- Access to national and international examples of teachers incorporating web-based resources into the classroom

Diversifying the Delivery System

- Local control over how information is used, accessed and disseminated across and between everyone in the community to engage and excite families
- Support for school innovation around teaching, learning and communicating in an increasingly competitive environment (voucher and charter school programs)

Sustaining Public Support

- Communication vehicle for families and communities to learn about and monitor what is happening in the school
- Opening access to activities, challenges and solutions inviting allies
- Utilizing greater power of school's investment in technology
- Providing the "customer" (the family) a role in the "product" (the education of their children)

How will the *Catalyst Communities* program help bigchalk.com?

Catalyst Communities schools will serve as testbeds for the continuous improvement of the product and support services. Relationships with these schools will serve to inform product, training, marketing and customer support development as well as to create momentum and enable rapid adoption of bigchalk.com in other school communities. The basis for these school relationships will be the development and maintenance of a broad and active channel of communication with all everyone in these communities.

Our objective is to enroll 150 schools across the country into which we can rapidly deploy an integrated set of resources for the classroom that provide relevant content resources and a robust set of interactive tools to build knowledge and share information with teachers, parents and students. By doing so, we will seed those school communities where a self-sustaining critical mass of users will expand and perpetuate the use of all bigchalk.com resources, especially including Community Tools.

In each function below, specific strategies are identified for how bigchalk.com staff can work with all of the stakeholders – the site leader (principal), technology specialist or lead technology teacher, media specialist, teachers, students and parents – in schools enrolled in the *Catalyst Communities*.

Product Development

Utilize a network of beta testing sites
Develop ongoing relationships with users for feedback on product
Conduct focus groups

Since developers need consistent and thoughtful feedback on the wide range of tools and resources in bigchalk.com, the portfolio of schools selected for the *Catalyst Communities* will include instances of every tool and resource being used in a variety of contexts. With a network of schools already in place, beta sites and quick feedback cycles are immediately available to the developers reducing the time spent in the information gathering phase. Online feedback forms and surveys will be created and consistently made available to this network of schools.

Content Development

Invite teacher and student contribution of curriculum integration ideas through incentives
Conduct pilot of new content
Poll schools and families about their emerging content needs

Catalyst Communities schools provide the testing ground for new resources and tools. With the large number of schools enrolled in the program (250), a variety of pilots can be run simultaneously without placing too much burden on any one school. In addition, schools can be surveyed from time to time to discover any new content pieces that bigchalk.com should be investigating and possibly acquiring.

Training Development

Field test training materials and agendas (for all stakeholders, including families)
Identify potential trainers (students and teachers)
Pilot online training modules

Since professional development is being funded in greater levels by local, state and federal education budgets, the training division of bigchalk.com could provide a significant portion of the company's revenue stream. By designing a suite of professional development experiences, ranging from skills development to technology leadership, all stemming from the core concept of "Building Community," bigchalk.com can be positioned as the portal for tools, research resources and training. The *Catalyst Communities* schools will serve as the development testbeds for a suite of training experiences for all stakeholders in school communities.

Market Research

Conduct focus groups (both online in chat format as well as onsite)
Conduct interviews (both online in chat format as well as onsite)
Conduct classroom observations
Conduct online surveys for families to complete in exchange for gift certificates or other incentives

Catalyst Communities schools provide environments in which bigchalk.com marketing staff can gather critical information about emerging needs. A key strategy for the market research will be to distinguish needs by the level of technology usage in a school. We need to learn how to market Community Tools to a low technology school as well as to a high technology school, which will help segment current customers and identify and target potential customers.

Marketing

Cultivate a core group of "evangelists" from *Catalyst Communities* schools to use in print, audio and video "events"
Coordinate all press communication about *Catalyst Communities* schools with larger bigchalk.com communication plan
Direct media outlets to *Catalyst Communities* schools for coverage of stories
Field test outreach pieces specifically for each stakeholder
Develop "virtual" visit program for superintendents and school board members

There is a bigger story to tell than teachers transforming their classrooms with technology. *Catalyst Communities* schools will provide stories about how teachers and media specialists transform entire school communities. Marketing staff will be able to shape a new conversation rather than feed into what is already out in the media. *Catalyst*

Communities staff will continually update a shared database of schools and their stories. Marketing staff will be able to search on multiple fields to discover the stories that best meet their needs for a specific piece they are developing. This allows each piece to be as directly and specifically targeted as possible.

Sales Education

Provide implementation strategies and conditions for success
Provide case studies describing contexts of use
Provide references for potential customers

For those schools that are existing Proquest and eLibrary users, opportunity to learn which strategies for scale-up work and don't work that can then be shared with sales representatives. This allows them to be key advisors to the implementation of the product in the school community (value-added). Selling schools not only Community Tools, the product, but strategies for successful implementation of the product in their school communities.

Support Development

Onsite interviews of users
Investigate the answers behind the support usage statistics
Conduct regular chat sessions for support and mentoring

Catalyst Schools are agreeing to open up their classrooms to a wider degree than other Community Tools users. Identified bigchalk.com staff person or team in marketing, sales and support will work with *Catalyst Communities* staff to conduct in-depth information gathering experiences. For example, a member of the Level II support team with experience working in schools will spend one-day onsite at one of the Catalyst Schools to extracting key support issues in order to optimize Level II support quality.

How will the *Catalyst Communities* program be implemented?

The initial implementation of the *Catalyst Communities* program will be conducted in three phases between January and December 2000:

Phase I: Enrollment
Phase II: Training
Phase III: Baseline Research

By identifying specific and measurable results within each phase, our interaction with everyone in these schools will be clearly focused, laying the groundwork for an active working relationship. In each phase, a communications plan is included since it is imperative that a system and expectation of open communication is instilled at the outset of our work with these schools. Then, all of the activities described above can produce quality results.

PHASE 1: ENROLLMENT
February-March 2000

Objective 1: Enroll 150 schools across the country into which we can rapidly deploy Community Tools.

Objective 2: Achieve diversity across the schools in both demographic and socio-economic status.

Objective 3: Identify and train trainers to deliver initial 2-day training in 150 *Catalyst Communities* schools.

How will target schools be identified and enrolled?
The initial 150 school sites targeted to be enrolled in the *Catalyst Communities* are a combination of existing Proquest, eLibrary and Schoollife users as well as a sampling of non-customer schools. Current customers of bigchalk.com tools will comprise 60% of the total schools and be nominated for inclusion by the sales force. The latter will comprise 40% of the total schools and be identified through a variety of channels: NextDay (focus on schools in federal empowerment zones), LearnNC (focus on North Carolina schools), Co-nect, GenY, BellSouth Foundation (focus on Southeastern schools) and professional networks of bigchalk.com staff. Additional relationships with state, regional and national consortiums of schools (such as Council of the Great City Schools, National Association of Secondary School Principals, National Association of Elementary School Principals, and National Governor's Association) will be actively sought.

Targeted schools will be provided with enrollment materials describing the *Catalyst Communities* and the benefits participation brings to the school. For those schools identified through a consortium, bigchalk.com staff will work with consortium representatives to design an approach consistent with their existing communication strategies.

Schools joining *Catalyst Communities* will receive:

- 2-day training experience at the school site
- initial and follow-up strategy consultation with school technology leaders
- just-in-time support for all users, both remote and onsite availability
- assistance implementing assessment of school-wide technology usage
- access to the all bigchalk.com tools and, over time, to the most current release of each tool
- CEUs for their teachers' training time
- assistance around addressing student technology competency standards
- membership in a national network of model schools
- membership for teachers in a professional network of teachers in other *Catalyst Communities* schools

Targeted schools will also be offered an incentive to join the *Catalyst Communities*. A menu of options called, "Tech Treats," will outline a set of hardware and software tools (perhaps 3 or 4 selections) appropriate for school and/or home use, all of approximately equal value. Examples of selections may include (1) one classroom computer or media center workstation, (2) set of student laptops or handheld devices, (3) CD burner and a selection of software, and (4) set of digital cameras and photo editing software, all of which can be combined with complimentary subscriptions to Proquest, eLibrary, and/or Explorasource if they are not already subscribing users.

In addition to incentives, a mini-grant and/or awards program will be developed to solicit and recognize innovative ideas, particularly surrounding Community Tools. Through both individual and school-wide team grant/awards, compelling stories will be gathered and can play a large role in program's communication plan as well as marketing efforts.

What is the target profile of *Catalyst Communities* schools?

On both an internal and external basis, schools in the *Catalyst Communities* will be contextually rich environments within which we can better understand of how bigchalk.com tools and resources are used to advance student achievement, parent involvement and professional productivity. Although *Catalyst Communities* schools will vary widely in population and culture profiles, the goal is to include schools where all stakeholders have a sense of ownership around this platform of shared knowledge.

Our goal is to find or foster in every *Catalyst Communities* school a well-articulated vision for technology as a tool for advancing student achievement, teaching and learning, and parent and community involvement. Since we want to tell stories about school communities rather than isolated classrooms, *at least 80% of Catalyst Communities schools will have a site leader (or leadership team) that is involved directly and at least 15% of the teachers willing to participate in the training.*

Characteristics of *Catalyst Communities* school environments will include:

- Diverse population of schools across the country
  - equal percentages of small, mid-, and large sized schools
- Diverse geographic location of schools
  - equal percentages of rural, suburban and urban
- Diverse income levels of students
  - 40% from low-income; 30% from mid-income; 30% from high-income
- Range of public, private/parochial and charter/virtual school sites
  - 60% from public; 30% from private/parochial; 10% charter/virtual
- Influential technology districts (at least 20% of total schools)
  - Note: Schoollife.net has realized most sustained success with teachers in districts without strong technology program
- Broad continuum of levels of technology infusion into the curriculum
  - using CEO Forum's STAR Chart levels: Low Tech, Mid Tech, High Tech, Target Tech
  - 30% from low tech; 30% from mid tech; 30% from high tech; 10% from target tech
  - Note: very few schools in the country are at the "target tech" level

For those schools that are existing Proquest and eLibrary users, *Catalyst Communities* schools provide bigchalk.com the opportunity to learn which strategies for scale-up work and don't work which can then be shared with sales representatives. This allows them to be key advisors to the implementation of bigchalk.com in the school community and allows bigchalk.com to sell schools not only tools and resources but also strategies for successful implementation of the product in their school communities.

Examples of Catalyst School Sites:

- The Winston-Salem/Forsyth County Schools in North Carolina utilize Community Tools to support a project based learning (PBL) approach in math and science classrooms under a National Science Foundation grant. Teachers received laptops to learn how to integrate technology in the classroom as well as customized professional development for teachers and administrators. Teachers then have access to the PBL Online System from CERTL (Center for Excellence in Research Teaching and Learning) which is an environment where Project Based Learning (PBL) modules can be accessed from the World Wide Web.

- In St. Philip Neri School, serving the Archdiocese of New Orleans, Catherine Campanella and her 8th grade web masters have designed and executed a website that stands out for its comprehensive scope of content and collaborative learning environment. Campanella has inspired and supported staff to use the community school website to post general class information.

How will trainers be identified and training materials developed?
Staff at bigchalk.com dedicated to the *Catalyst Communities* program includes Lucy Miller, Deb Derloshon, and Deneen Frazier. Additionally, an outside training firm, JN4D, will be contracted to supply additional trainers to meet the initial objective of utilizing trainers as well as the development of an initial set of training materials. All trainers will possess extensive experience working with teachers as learners in school settings.

Based on this initial round of training, a suite of training offerings for all stakeholders will be developed as a branded product line to be rolled out coinciding with the September 2000 rollout of full-service bigchalk.com.

What is the communications plan for Phase I?

During this phase, the communications plan must include the following:

Communication Piece	Audience	Critical Component
Program Description Catalyst Communities	Sales force	Nomination form for sales reps to recommend schools
Program Description	Targeted Schools & Consortiums	Enrollment Materials

PHASE II: TRAINING
April – July, 2000

Objective 1: Deliver two-day training to selected staff in the 150 enrolled schools.

Objective 2: Develop workshop to hold at three conferences targeted at site leaders.

Objective 3: Obtain baseline data regarding technology use in *Catalyst Communities* schools.

Why will teachers want to participate in training?
By agreeing to use their sites as learning ground for the launch of a new generation of tools, teachers in these schools will receive intensive and high quality assistance in exploring new solutions for the primary issues they face in the classroom. In most cases, teachers and media specialists are at the "end of the food chain" when it comes to development of new products and they end up with a "take what I can get mentality." Through *Catalyst Communities*, these teachers are research partners and will help shape the design and growth of all of the bigchalk.com tools and resources since they can take the product to levels that we cannot in a corporate environment.

Teachers and media specialists must see the two-day training as a way to create a foundation and infrastructure for technology usage in their curriculum. These teachers will put into practice the bigchalk concept and adapt it to meet the realities of the classroom. The training agenda must be designed to allow for adaptation exploration, particularly during the follow-up sessions. For schools already strong users of Schoollife, an advanced training or leadership training will be developed to meet their needs. All site leaders (principals) will be expected to participate in the 2-day training.

A workshop for site leaders, "Catalyst Leaders," will be developed to run at several targeted conferences as part of the training component:

Nat'l Assoc. of Elementary School Principals
March 18-21, 2000 in New Orleans, LA
Nat'l Education Computing Conference
June 26-28, 2000 in Atlanta, GA
Nat'l School Boards Assoc.'s Institute for the Transfer of Technology to Education
October 25-28, 2000 in Denver, CO

Several other conferences that are targets but held recently or too soon:

Nat'l Assoc. of Secondary School Principals
February 4-8, 2000 in San Antonio, TX
Next year: unknown
Nat'l Assoc. of Independent Schools
March 1-4, 2000 in Baltimore, MD
Next year: Feb. 28 – March 3, 2001 in Boston, MA

Members of the sales force will be invited and strongly encouraged to attend school training experiences to enhance their learning and provide a common foundation for the sales representative and the educators with whom he/she is working. A role for their participation will be created within the training agenda and materials. They will be active participants, not simply observers.

How will we get baseline data about the schools?
Currently, several national organizations are developing assessments that allow the leadership for one school site to get a clear picture of how technology is being used in the classroom, administratively and as a communication tool with parents and the community. Research is currently being undertaken to identify the best tool to use with *Catalyst Communities* schools.

All data gathered about these schools will be entered into the customer database to allow all bigchalk departments access to the information. In Phase III, this information will feed the development of a Catalyst profile report for the sales and marketing groups to guide communication with customers as well as the larger educational community.

In addition to providing bigchalk.com with baseline data consistent across schools, the individual sites will learn how to use these assessments for themselves at any point in the future. This will be presented to the schools as a value-added aspect of their participation in the *Catalyst Communities* since practically every community in the country is pressing for higher standards of accountability.

What is the communications plan for Phase II?

During this phase, the communications plan must include the following:

Communication Piece	Audience	Critical Component
Training Materials	Trainers	Agenda Training Modules
Training Materials	Teachers, media specialists, families	Clear documentation
Assessment Materials	Targeted Schools	Overview of instrument(s) End report description

Phase III: Baseline Research
July – December, 2000

Objective 1: 75% of initial target schools (115) continuing to utilize and expand their usage of Community Tools.

Objective 2: Design of longitudinal research program is complete.

Objective 3: 50% of initial target schools (75) host Back-to-School Community Tools nights.

Objective 4: Conduct grant, awards and scholarship programs for January, 2001 selection and release.

During the first semester, follow-up visits by trainers will be made to ensure that teachers and media specialists are using Community Tools as they had envisioned in the initial training session. Additionally, trainers will host online mentoring sessions and meet individually (online and onsite) with teachers to assist with their goals. We anticipate that there will be several *Catalyst Communities* schools that lose interest or are faced with competing demands. It is our intention to work most closely with those schools that have internal energy to go forward.

The *Catalyst Communities* research program has several purposes:

- provide information about impact of product line on learning environments and parent involvement
- provide information around usage of specific toolsets within Community Tools
- provide information around implementation strategies for scaling-up within school

The "products" of this research will be documents that align Community Tools toolset with roles, responsibilities and expectations of educators and media specialists. These products will assist bigchalk.com sales representatives with strategies for increasing usage amongst existing users as well as expanding the user base within *Catalyst Communities* schools. Additional products include connecting the Community Tools toolset to existing research frameworks such as the CEO Forum STAR Chart and the Milken Exchange's Dimensions of Progress clearly showing how we can help them become a high performing school in these dimensions.

The research component of the *Catalyst Communities* program will allow bigchalk.com to demonstrate how Community Tools helps schools achieve the following goals:

- increasing student achievement
    - Note: Since a direct link between technology and student achievement has yet to be made by educational researchers, initial research will focus on student *engagement* in the learning process where credible claims may be made.
- increase the level of technology adoption by teachers and media specialists
- getting technology into the homes (low and middle income communities)
- integrating local, state and national standards
- increasing involvement of media specialists in the curriculum design process
- increasing professional collaboration and use of shared resources
- expansion of parent involvement and community outreach activities
- broadening of the community awareness of school programs

Research design may include partnership with external researchers from institutions of higher education or education improvement organizations.

Parent involvement will be the initial target for research and learning activities in *Catalyst Communities* schools. In particular, increasing Internet access from home, especially in low and middle income school communities, is a primary area in which a variety of strategies can be field tested. For example, in one group of schools we may engage a hardware/telecomm partner to creatively finance/support access while in another group of schools we may

provide ideas and materials for schools to invite parents into technology-infused classes held in the evening with hardware/connection incentives. This would be an opportunity to market to families through the school (a la Microsoft Family Night) where we would provide materials, agendas, posters and electronic files to use to promote what they are doing in the school.

Regional catalyst liaisons (6 trainers across different regions) will be hired to provide training and facilitate any communication/activities between schools in their region and internal staffs of bigchalk.com. After the initial training, liaisons will focus on site leaders (principals) for additional strategic planning and training for technology leadership.

Liaisons will submit a monthly report which will include training schedule, traffic and take rate amongst Catalyst schools in their region, plan for working with schools not scaling up as well as expected, and suggestions for product, training, marketing and support development. An incentive program will be developed providing bonuses to catalyst liaisons.

What is the communications plan for Phase III?

During this phase, the communications plan must include the following:

Communication Piece	Audience	Critical Component
Internal sales materials	Sales/Marketing	Analysis of data gathered Stats and stories
Baseline data	Schools	Share data gathered through assessment
Catalyst Communities stories	Educational Community	Articles placed in May/June trades
Back-to-School Community Tools stories	General Public	Coverage in local dailies and weeklies
Grant/Awards/Scholarships	Schools	How to enter Selection criteria

NEW EDGE Networks

NEW EDGE NETWORKS:

DELIVERING THE DIGITAL PROMISE TO AMERICA'S COMMUNITIES

Rural Access issues

ABOUT NEW EDGE NETWORKS:

Call us pioneers. Innovators. Or just plain crazy. But at New Edge Networks, we believe in taking digital subscriber line services (DSL) to places other companies don't. Places ready for a whole new dimension of high speed Internet services. Places ready for a whole new level of productivity. Places like:

Sequim, Washington
Jackson, Wyoming
Eagle, Idaho
Ft. Meyers, Florida

Places that typically don't get offered broadband service. Until now.

OUR CEO, DAN MOFFAT:

Dan Moffat, President and CEO of New Edge Networks, has been making waves in telecommunications for over 22 years. Dan is the former President of GST Whole Earth Networks, responsible for Internet and data services. He was the founder of the telecom strategy consulting firm Access Value Services. He was VP of Marketing and Sales for US Intelco Networks (Illuminet) and held positions with Pacific Telecom, IBM/ROLM and US West. Dan started his telecom career at Tymnet, one of the original packet based value-added networks.

OUR PROPOSAL:

New Edge Networks stands eager to assist in making the President's New Markets Tour a successful showcase of rural economic development efforts. Dan Moffat is available to join the Tour and announce additional efforts on the part of New Edge Networks to bring advanced telecommunications services to small and medium sized cities and town across America.

New Edge is ready to participate at any Tour locations across the country. We particularly suggest any or all of the following locations, at which we would intend to showcase our provision of digital subscriber line (DSL) services and high speed Internet access in partnership with local Internet Service Providers nationwide and in the local communities shown:

P.O. Box 5159
3000 Columbia House Blvd
Vancouver, WA 98668
Phone: 360.693.9009
Fax: 360.693.9997
www.newedgenetworks.com

Boise, Idaho

DSL services in Boise, Caldwell, Coeur d'Alene, Eagle, Hayden Lake, Idaho Falls, Lewiston, Meridian, Moscow, Nampa, Pocatello, Post Falls, Rexburg, Twin Falls.

Jackson, Wyoming

DSL services in Jackson, Laramie, Gillette, Cheyenne, and Casper, Wyoming and in Bozeman, Butte, Great Falls, Helena and Missoula, Montana.

Seattle, Washington

DSL services in Anacortes, Battle Ground, Bellingham, Bremerton, Camas, East Wenatchee, Enumclaw, Graham, Kennewick, Lacey, Longview, Mt. Vernon, Oak Harbor, Olympia, Pasco, Port Angeles, Port Townsend, Poulsbo, Pullman, Richland, Sequim, Shelton, Silverdale, Spokane, Walla Walla, Wenatchee and Yakima, Washington. Also in Eugene, Grants Pass, Klamath Falls, McMinnville, Medford, Milwaukie, Newberg, Redmond, Roseburg, Salem and Springfield, Oregon.

Minneapolis, Minnesota

DSL services in Anoka, Austin, Bemidji, Blaine, Brainerd, Duluth, Owatonna, Rochester, Shoreview, St. Cloud, and Winona, Minnesota. Also in Fargo and Grand Forks, North Dakota and in Rapid City and Sioux Falls, South Dakota.

EZas12Free.com

DJM Internet Marketing, Inc.
1407 Broadway
Suite 1012
New York, N.Y. 10018

Phone: 212-944-0300
Fax: 212-944-0293
E-mail: jmenaged01@aol.com

Facsimile

To: Mr. Jackson Dunn/The White House
@Fax: 202-456-6218
From: Jeffrey Menaged
Date: Wednesday, February 16, 2000 @ 7:07 PM
Re: Introduction to EZas12Free
Pages: 5, including this

Dear Mr. Dunn:

Please find below my contact information.

DJM Internet Marketing
EZas12Free.com
1407 Broadway, Suite 1012
New York, N.Y. 10018
Tel. 212-944-0300
Fax. 212-944-0293

1401 I Street, NW –11th Floor
Washington, DC 20005

Date: 2/22/2000 Number of Pages (Including this Page): ___

TO: Jay Dunn Fax#: 456-1218

FROM: Dorothy Walsh dwalsh@corp.sbc.com
Phone: (202)326-8813 Fax: (202)408-4808

RE: Digital Divide

Comments:

Attached are some current SBC projects —

Dorothy

In case of erroneous transmission or technical trouble contact:
Nora Venegas, (202)326-8821

Closing the Digital Divide:

SBC Communications Commitment to Extending the Information Revolution to Underserved Communities

SBC Communications

Dorothy Walsh
202/326-8813

SBC Communications, Inc.

www.sbc.com

SBC is a telecommunications company that provides a w de variety of services:

- Through its *Southwestern Bell, Ameritech, Pacific Be l, Nevada Bell* and *Southern New England Telecommunications* subsidia ies, the company provides local telephone and other services to nearly 100 mllllc n Americans in 13 states. After completing its merger with Ameritech in Octobe , SBC announced plans to spend $6 billion to bring broadband Internet access tc 80 percent of these customers within three years.

- SBC provides wireless communications services to 1(.1 million people across the nation. Via *Cellular One, Ameritech Cellular, Paci c Bell Wireless, Southwestern Bell Wireless, Nevada Bell Wireless* and *SNET Wireless,* the company serves 119 markets, including nine of the na ion's ten largest.

- In October 1999, the company created a new subsidia y, *SBC Telecom*, which will provide facilities-based communications services to the 30 largest metropolitan areas where it doesn't operate today. *SE C Telecom* will enter the Boston, Seattle and Miami markets first and be operat ng in all 30 no later than April, 2002. This initiative is historic; it is the first tim e a former Bell Operating Company will compete to provide local service on a n tional scale and against other local providers.

- SBC is a major American competitor in the internation al telecommunications marketplace. The company's international investment s are worth an estimated $22 billion in Asia, Africa, Europe, the Middle East and North America. SBC is the largest non-European investor in the European tel communications market.

- Over 200,000 men and women work for SBC and appr ximately __ percent are members of the Communications Workers of America and the IBEW.

- The company's workforce reflects the diversity of its c stomers and its commitment to diversity has been widely recognized. Most recently, the *Women's Business Enterprise National Council* name l SBC as one of the country's 15 top corporations who support women's b sinesses and *Fortune* magazine ranked it as among the "50 best companies for Asians, Blacks and Hispanics" to work.

- On October 28 1999, the *National Minority Supplier De elopment Council* named SBC as 1999 Corporation of the Year. In 1998, SBC sp nt $1.3 billion with minority, women-owned and disabled veteran-owned s ppliers. That figure represents more than 20 percent of the company's tota l procurement dollars, up from 14 percent in 1994.

SBC Global Network

Southwestern Bell · Ameritech · PACIFIC BELL · SBC Telecom · NEVADA BELL · SNET · CELLULARONE

Introduction

The burgeoning revolution in information technology offers new opportunity for America, from universal access to computers and telephones to the benefits of telemedicine and distance learning. Although technology has already revolutionized our economy, our educational system, and nearly every other aspect of society, recent data show that the promise of the Information Revolution is to a significant extent unavailable for large segments of the American population.

"Falling through the Net II: New Data on the Digital Divide," a report prepared in 1998 by the Department of Commerce at the request of Vice President Gore, found that the benefits of the Information Age are not being equally shared among all income levels and racial groups. That report built on the results of a 1994 Commerce Department report which first showed the disparity in access to telecommunications and computer services. Instead of revealing a narrowing "digital divide," however, the 1998 report found that "blacks and Hispanics lag even further behind whites in their levels of on-line access than they did in 1994."

In an economy that is increasingly dependent on information technology, the expanding digital divide threatens to leave large segments of the population without access to the engines that drive that economy. "The Emerging Digital Economy II," a report released in June of 1999 by Vice President Gore found that "since 1995, even though information technology industries make up less than one percent of all retailers, they account for fully one-third of our nation's economic growth." To realize the promise of the Information Age heralded in that report, SBC believes that the "emerging digital economy" must be open to all Americans.

SBC Communications shares the Administration's goal, as stated in "Falling through the Net II," to "connect all Americans to the information infrastructure" and has launched initiatives throughout its eight states of primary operation to close the digital divide. This report focuses on SBC's efforts in two of those states, Texas and California, and also includes a brief look at what SBC and Ameritech are doing in their other states. In Texas, SBC has committed to closing the digital divide by investing heavily in infrastructure improvements that will bring the Information Revolution to regions of the state that have too often been ignored. In California, SBC's investment in high-speed Internet facilities is paying dividends for community centers that bring high-technology to areas that most need it.

SBC and the Texas Rio Grande Valley: Partners in Progress

These are rosy days for the Texas economy. New jobs, business starts, and housing sales are watchwords in the Lone Star State. Unfortunately, the boom has not spread equally to every part of the state. While the good times are being felt in the Rio Grande Valley area of South Texas, for example, they are less pronounced than in other regions of the state.

The good news is that leaders in both the public and private sectors are meeting this challenge head-on. The state government is investing in new higher education facilities in the region, while major corporations, local economic development groups and factors like NAFTA-induced

trade increases are all combining to make sure that the economic expansion is broad, deep and lasting.

One of the key players in this effort is SBC's subsidiary Southwestern Bell Telephone Company, which is making major investments in the advanced telecommunications infrastructure that is so crucial to economic and social development today.

SBC has made significant investments throughout this historically underserved region. In the past few months alone, we installed a cutting-edge fiber optic network providing protected connectivity throughout the Rio Grande Valley for Asynchronous Transfer Mode (ATM) type services and for broadband services such as ADSL. In this project, we have placed more than 20 miles of fiber optic cable between Brownsville and Harlingen at a total cost of more than $1,000,000. This network will be utilized by Internet Service Providers to provide Internet access for individuals, businesses and schools, bringing the Information Revolution home to millions of families throughout this previously technology-poor area.

In 1998 and 1999, SBC replaced an antiquated network between San Antonio and Laredo with state-of-the-art fiber optics. Prior to the installation of this new network a cable cut anywhere along the 155-mile stretch between these two cities resulted in the isolation of not only Laredo, but also surrounding rural communities such as Eagle Pass, Cotulla and Encinal. Expenditures on new fiber and other equipment have exceeded $1,700,000, and we anticipate spending $700,000 more in other Border cities over the next two years.

We have also invested more than $22 Million in our Digital Switching Improvement Program to modernize service to all customers in the Valley. In 1998, advanced digital switches were placed in service in Harlingen, serving 49,000 customer lines, Pharr with 45,000, and Edinburg with 6,000 now and the remaining 38,000 customers in the year 2000. By September, the largest remaining analog switch along the border will be converted to new digital equipment in McAllen. At a cost of over $5.5 Million, 75,000 telephone lines will have state-of-the-art digital service. In the year 2000, SWBT Co will serve 100% of our Rio Grande customers with digital technology.

We have keep pace with the dynamic growth in the border city of Laredo. In 1998 and 1999 the investment in digital technology will exceed $10 Million. The addition of a $500,000 ATM data switch will provide for ATM and Frame Relay services to area schools and business, while a new Signaling System 7 (SS7) network will provide crucial back-up routing of call signals to improve network reliability. More than $3.2 million in new fiber optic and digital equipment not only provides for future growth, but also creates self-healing networks in the event of an equipment or cable failure. Our multi-million dollar investment in digital switches and new services such as ISDN also gives Laredo a premier telecommunications infrastructure for consumers and businesses.

We realize, of course, that not all of these investments will generate significant returns immediately, but SBC is committed to this region for the long term. We believe that the

economic and social well being of the Rio Grande Valley is growing, and we are proud to be a part of that growth.

SBC and California – Bringing High Speed Internet Access to Underserved Communities

SBC Communications is deploying throughout its operating territories an advanced new technology known as Asymmetrical Digital Subscriber Lines, or ADSL, that provides access to the Internet at speeds up to 50 times faster than traditional phone lines. Unlike traditional Internet access, which requires that a user dial the Internet on a dedicated line each time he or she wishes to gain access, ADSL is "always on," meaning users simply must turn their computer on to reach the Internet. ADSL is faster and more convenient than traditional modem service and promises to revolutionize the way people use the Internet. For the first time, ADSL and other high-speed technologies offer the chance to incorporate Internet use into everyday life.

In California, SBC has targeted ADSL deployment to include traditionally underserved communities such as Oakland and Compton. These communities have long been ignored by the Information Revolution, and SBC has committed to ensuring they do not miss its next wave.

Simple deployment of ADSL facilities, however, does not in itself ensure that underserved communities can access the Internet. As "Falling through the Net I," found, low-income, central city, and Hispanic and African-American households lag behind the national average in rates of *personal computer ownership*. Without a personal computer, high-speed access to the Internet offers little benefit.

There is a solution. "Falling through the Net II" recognized the importance of Internet access and made policy recommendations for increasing it in underserved areas:

> The above data demonstrate that there are still pockets of "have nots" among the low-income, minorities, and the young, particularly in rural areas and central cities. Policymakers should continue to focus on connecting these populations so that they too can communicate by telephone or computer. These populations are among those, for example, that could most use electronic services to find jobs, housing, or other services. Because it may take time before these groups become connected at home, it is still essential that schools, libraries, and other community access centers ("CACs") provide computer access in order to connect significant portions of our population.

SBC agrees and has partnered with community access centers in California to provide Internet access to communities with low levels of computer ownership. In the fourth quarter of 1998, SBC's Pacific Bell subsidiary identified three community-based organizations in the San Francisco Bay Area and supplied them with ADSL and Internet access at no cost for one year. These centers, which serve minority, disabled, low-income, and senior communities in Berkeley, Oakland and Palo Alto, are described in detail below.

Eastmont Computing Center, Oakland, CA

The Eastmont Computing Center (www.eastmont.net) is an authoritative community resource on technology that maintains a commitment to providing universal access and employment focused, cutting-edge training. Through its partnership with SBC, it provides technology access to all segments of the local community by providing community assistance in three areas: free computer and Internet access at a local mall; employment-focused job-training and placement for youth; and technology resource assistance for local schools, libraries, and other non-profit organizations.

In addition to its work with SBC, the Eastmont Computing Center also partners with the Oakland Citizens' Committee for Urban Renewal (OCCUR), the East Bay Urban Church and Family Network, Youth Media, the FAITHS Initiative, and the Urban Technology Center Inc.

Plugged In, East Palo Alto, CA

SBC works with Plugged In (www.pluggedin.org) to bridge the gap between the digital "haves" and "have-nots" by bringing the benefits of computer and communications technologies to the entire community. Plugged In provides East Palo Alto organizations and families with access to computer technology and serves as a nationally recognized model for connecting low-income communities with the information economy. Community members of all ages use state-of-the-art computers to build their literacy skills, work on resumes, earn money through team enterprises, or build valuable computer skills through classes. Plugged In serves approximately 26,000 community members each year.

Center for Accessible Technology, East Berkeley, CA

The Center for Accessible Technology (www.el.net/CAT/) is a non-profit organization that works with children and adults with disabilities, their families, teachers, counselors, and employers to explore computer systems, adaptive devices and software. It assists people in gaining the knowledge and expertise needed to make the best decisions about selecting and using adaptive computer equipment. By partnering with SBC, it receives free high-speed Internet access that increases its ability to serve the community.

Conclusion

Unless the digital divide is closed, significant segments of American society will never realize the benefits of the Information Revolution and the new era it promises. Through efforts such as those outlined in this report, government and the private sector can work together to close the digital divide and extend the power of telecommunications and technology to all Americans. SBC Communications is committed to erasing the digital divide and will continue to answer the challenge set by President Clinton and Vice President Gore to spread the Information Revolution across the country. We look forward to continued cooperation with the Administration to achieve our shared objectives.

SBC: Closing the Digital Divide in the States

Texas

In addition to its efforts mentioned previously, SBC has undertaken numerous projects during the last few years in Texas to narrow the digital divide. During the last few years, SBC provided $277.7 million, assisting local communities by funding hundreds of school districts, grades K through 12, college campuses and public libraries to integrate the Internet with the classroom. SBC is currently providing more than $79 million to continue its efforts established over the past few years and primarily focusing on providing greater access to technology, particularly in rural and traditionally underserved areas.

In addition, SBC has made ISDN available to every customer in Texas and provided rural and low-income Texans access to advanced telecommunications services that compare reasonably in price and type to those available in urban areas. By keeping local rates well below the cost of service, especially in rural Texas, SBC is making it a top priority to narrow the digital divide and expand access to technology in Texas.

Projects

- Through its program to provide Internet Access for Secondary Public Schools, SBC provided $24 million to fund 111 school districts and campuses to integrate the Internet into the classroom.
- SBC provided $28 million to expand Internet Access for Rural Public Schools, funding 205 rural school districts for Internet connectivity in the classroom.
- SBC provided $57.6 to connect grades K-12 in Public Schools to the internet. This grant funded 630 school districts and campuses for Internet connectivity.
- SBC gave $15.4 million to connect 360 Public Libraries to the internet.
- SBC provided $15 million to fund 57 two-year community colleges in Texas to help upgrade educational facilities for student internet access.
- SBC provided $55.3 million in Technology advancement grants for public schools to 307 school districts and campuses and 70 higher education campuses.
- SBC provided $55.8 million to fund 1082 entities for a basic Internet package and/or funds for the expansion of an existing network or for basic distance learning equipment.

Arkansas

Southwestern Bell is committed to closing the digital divide for all Arkansans and ensuring they are not left behind. SBC has initiated programs in Arkansas designed to ensure access to members of all age and socioeconomic groups, particularly those that have been under-served.

Projects

- Through Operation SchoolNet, Southwestern Bell and the Telephone Pioneers of America have wired more than 900 classrooms in 100 Arkansas schools with Internet access.

- Southwestern Bell assisted the Arkansas Public School Computer Network in creating a statewide data network and established more than 600 Frame Relay Service links to Arkansas public school locations. An ATM video network (full-motion video) trial was begun between three cities (Arkadelphia, Hot Springs and Malvern). Advanced placement mathematics, language courses, and computer classes were successfully conducted over this network.

- SWBT offers Lifeline, Link Up America and prepaid services to low-income Arkansans to insure that everyone has access to telecommunication services.

- Through a grant from Southwestern Bell, University of Arkansas at Little Rock faculty, staff and students are working with inner-city youth in a new interactive learning environment provided at the Neighborhood Homework Center on Fairpark Blvd. near the UALR campus. Among other learning experiences, students have an opportunity to connect to the information superhighway by using computers at the center, which were provided by the $90,000 grant from SWB.

- Through the Seniornet program, Southwestern Bell has established technology centers in 11 Arkansas cities that provide a fun, comfortable environment for older adults to learn and use the Internet.

- SBC offers educational discounts up to 35% on selected products such as T-1 and 56kb frame relay.

Kansas

In Kansas, SBC is closing the digital divide by committing to aggressively deploy high-speed Digital Subscriber Line (DSL) service to 23 communities across the state. Southwestern Bell already provides DSL service to Kansas' three largest markets -- Kansas City, Wichita and Topeka and pending a few state regulatory issues, and once deployment is completed, 80 percent of Southwestern Bell's customers in Kansas will have access to high-speed DSL Internet services. Nearly every Kansan has had access to ISDN services since 1997.

Projects

- The Arts Council of Topeka will use laptop computers and software to teach computer graphics and design to at-risk youth. Students at the Topeka Juvenile Correctional Facility and four additional community centers in the Topeka area will use the computers to create artwork, Web pages and design projects. Work will be exhibited in the community by May 2000.

- Donnelly College and the Kansas City, Kan., School District will offer a youth mentoring program that gives inner-city high school students the opportunity for hands-on interaction with new technology. The partnership will expose urban students to the information superhighway through a variety of academic, social and cultural activities utilizing advanced technology. The program also will encourage participants to consider college, explore technology-related careers or earn job-training certification.

- The Southeast Kansas Greenbush Education Foundation, a collaboration between school districts in four counties in southeast Kansas, will bring remote learning experiences and education resources into classrooms, offering students the opportunity to interact with members of other communities through telecommunications, the Internet, and an Interactive Distance Learning Network.

- The Cerebral Palsy Research Foundation of Kansas is establishing an Adaptive Computer Training Center with multiple computer workstations, designed for wheelchair accessibility, to provide people with disabilities access to advanced computer technology. Workstations will be configured with state-of-the-art, adaptive equipment to accommodate individuals with a wide variety of disabilities.

- Sunflower Resource Conservation and Development Area provides information through the Grant Reference Library Assistance Program to eight rural south-central Kansas counties. The grant will be used to upgrade resource materials and establish a dedicated computer, making it easier for rural organizations to access funding sources, community education information and economic development information.

New project in Missouri
Telecommunity Centers

Southwestern Bell

News Media Report

Publication / Statio: Neosho Daily News
Location: Neosho Page(s) 1 of 2 Date/Time: 11/19/99
Comments: Prepared by Jeff Leeka 417-625-8125

eosho named Telecommunity;

AT PAYNE
NEWS STAFF WRITER

eosho residents will soon a place to go where they can r all about computers and vare, from turning one on to ing the Internet or holding a oconference.

We are going to teach every- in town how to use a com- r," said Kay Hively, chairman steering committee formed to blish the center. "This is sho's ticket to tomorrow. We t everyone in Neosho to be puter literate."

Jeff Leeka, area manager of rnal affairs for Southwestern with members of the eering committee, nounced the establishment of Neosho TeleCommunity ter Thursday at the Neosho Department. The fire depart- nt has donated space avail- to house the center.

The state-of-the-art center will provide free access to computers, the Internet, scanners, printers and videoconferencing equipment for use to the public. Southwestern Bell has donated 20 computers for use at the center, which is expected to open early next year.

Hively said those involved in developing the center want people who have never touched a computer to learn how to use one. There will be open labs and classes at no charge whatsoever." The only cost involved will be to those who use the videoconferencing system. They will be required to pay for use of a toll line for the conference, Hively said the TeleCommunity Center will be based on the principle of a library, with short-term classes in various aspects of computer use.

"It will not be like taking a semester of classes," she said. "It may be two hours."

Leeka said the new center is

Daily News photo/Pat Pa

Kay Hively, chairman of a steering committee to estab lish a Neosho TeleCommunity Center, talks to Car Norman and Sta Kenny about the equipment bei installed at the N sho Fire Department and plans the center.

Southwestern Bell

News Media Report

Publication / Station: Neosho Daily News
Location: Neosho Page(s) 2 of 2 Date/Time: 11/19/99
Comments: Prepared by Jeff Leeka 417-625-8125

computer instruction to be offered

"truly a community effort."

Leeka said plans are to have the fastest technology for the center, including a digital subscriber line. He said hopes are to have the fastest connection available for the center. Toward the effort to provide Missouri citizens with such access, Leeka said Southwestern Bell has committed $6 billion to bring DSL lines to 80 percent of its customers over the next three years.

"It is a place people can come and learn at the most basic level," Leeka said. "What is unique about it is that it is a community effort, and technical training will be provided by volunteers."

Leeka and Hively said the equipment at the center, if the committee had "started from scratch" to buy it, would have cost "many thousands of dollars." They estimated the cost of equipment to establish the center to be at least $500,000.

A steering committee made up of Neosho residents and business leaders began meeting in October to develop plans for the proposed TeleCommunity Center. Leeka serves as advisor to the TCC committee.

Work station furniture is being supplied by Scholastic, Inc. Southwestern Bell will work with the City of Neosho, the Neosho-Newton County Library Board and the Neosho Economic Development Council to provide assistance in training TCC volunteers, and will install equipment needed for browsing the Web, e-mail and videoconferencing capabilities. Training will be provided on facility software, Internet browsing, spreadsheet and database applications.

"This is an asset," said Sen. Marvin Singleton, who also attended the event. "It is good to see a private-public partnership that doesn't cost taxpayers.

TELECOMMUNITY, page 3A

TELECOMMUNITY:

Computer instruction to be offered

Continued from Page 1A

Anytime we can see movement to the future, it is wonderful. I congratulate Southwestern Bell on its efforts to establish a community service."

Southwestern Bell has started six TeleCommunity Centers in the state, starting just over three years ago to partner with local colleges and universities to develop the centers. Volunteer technical trainers have provided more than 4,500 free training sessions attended by more than 67,000 people.

Oklahoma

In Oklahoma, SBC has narrowed the digital divide by providing internet access to public and private high schools, colleges, universities, libraries and vocation-technical schools. It is our priority to do everything we can to ensure that every Oklahoman has access to the best technologies available.

Projects

- In 1995, Southwestern Bell teamed up with other companies and officials from Western Heights School to launch JetNet, a futuristic state-of-the-art telecommunications system at the Oklahoma City school. Recently, Microsoft founder Bill Gates described JetNet as "perhaps the leading technology-driven curriculum in the country." Teachers and students have access to Oklahoma's OneNet, the state's telecommunications network, or Southwestern Bell's Integrated Service Digital Network (ISDN) technology to get on-line or meet face-to-face through videoconferencing. Southwestern bell's Multipoint Video Service, an enhancement to ISDN, enables simultaneous, ongoing visual and audio contact among all participants, keeping up to five meeting locations in constant sight of each other.

- In 1996, Southwestern Bell provided free long-distance access to Internet connections for up to three years for public and private, a $30 million value, to public and private high schools, colleges, universities, libraries and vocation-technical schools.

- Beginning in 1996, Southwestern Bell contributed $1 million a year for three years to purchase services and equipment for distance learning.

- In 1996, Southwestern Bell provided $1.4 million for the establishment of at least 33 telecommunications centers in its territory as outlined in the Oklahoma Department of Commerce's proposal for the National Telecommunications and Information Administration.

- The Oklahoma Universal Service Fund ensures continued modern and affordable telecommunications services are available to all Oklahomans.

- The Oklahoma Telecommunications Technology Training Fund is used to train teachers to use telecommunications and distance learning technology to enhance education. The training enables educators to integrate technologies, such as the Internet and other high-tech tools, into their daily education process. The 60 original master trainers have shared their training with 290 educators in their regional consortia. Approximately 45,000 educators across the state are being provided the opportunity to receive this training over five years.

- Southwestern Bell provides each public school and public library in its service area with one line to access an Internet Service Provider or the equivalent dollar credit to offset the cost of such a connection.

- As part of SchoolNet, Southwestern Bell provided more than 1;!0 Oklahoma schools with Internet access thanks to donations of money and time from SV 'B employees and retirees. SWB Internet Services is providing up to six dial-in Internet ac :ess accounts free of charge or dedicated access at a 40 percent discount for nine months to :ach participating school.

- SWB Internet Educational Discount provides a 20 percent disc(unt for dedicated Internet access to all public and private schools in its Tulsa and Oklaho; ıa City service areas that are not participating in SchoolNet.

- ClassLink is the in-building wireless service offered to schools ɔy Southwestern Bell Mobile Systems. A wireless extension of the existing school phone sys tem, ClassLink provides access to the Internet via wireless modems connected to phones and computers. SWBMS has teamed up with other telecommunications partners to donat : a ClassLink system to an OKC school.

- Southwestern Bell plans to replace existing non-digital switche(in its territory which would not otherwise be replaced. SWB's switching network will then be 100% digital. In addition, three digital switches will be upgraded to provide all optional s(rvices.

- SWB will invest in new high-speed Internet connections. This s a major infrastructure investment for DSL deployment to 20 non-metro exchanges an(DSL expansion in Oklahoma City and Tulsa. Neither the non-metro exchanges nc r the Oklahoma City and Tulsa expansion are currently included in SWB's business plan

- SWB will establish an education technology fund to provide hi; h-tech tools for Oklahoma schools. This is in addition to the free line to access the Interne that SWB has made available to all schools in its territory since 1996.

- SWB will waive the monthly Oklahoma Universal Service Fun(charge on each residential and business line for five years.

Connecticut

In Connecticut, through our subsidiary SNET (Southern New Engl and Telephone), SBC has given millions to help close the digital divide. Grants given to the University of Connecticut, community colleges, public libraries and schools, are evidence of SBC's determination to ensure that citizens of the nutmeg state are wired.

Projects

- Our most recent educational support is a $500,000 grant propos al for CT higher-ed institutions known as "Closing the Digital Divide" (individual grants will range from $50,000 to $100,000). SNET has issued a grant RFP requesting proposals from colleges, universities, and two-year institutions to create programs to pro vide technology training to Connecticut.

- SNET donated $500K to the University of Connecticut's Engin eering program to create an "SNET Professor of Information and Communication Technolo gies" who will lead the SNET Program for Future Focus. With SNET's support, the Universit y will recruit a top faculty member to conduct state-of-the-art research in information tech nology and train undergraduate and graduate research assistants. The new profes sor will also direct the SNET Program for Future Focus, a new initiative to recruit young sch olars to information technology and to UConn's School of Engineering.

- SNET gives grants valued at $200,000/year (established 1996-9 7 school year and will continue through December 2001) to provide free Internet to all Schools and Libraries in Connecticut.

- In September 1996, SNET began providing a free 60 hour/mon n Internet account to all Connecticut schools and libraries as part of ConneCT 96 (the st atewide initiative to connect all schools to the Internet). At the beginning of the 1998/99 sch ool year, SNET announced that we would continue these accounts through December 2001. Of the approximately 1,600 schools and libraries in the state, 1,100 have already established a free Internet account. Based upon the 1997 Education Week's assessment of technolo gy in schools, Connecticut was ranked 7th in Internet connectivity for K-12 schools with 8 :% of the schools reporting that they have Internet access.

- In November 1997 SNET announced that the company would b egin hosting school and library created WEB pages free of charge, a $50,000 grant. The offer becomes available in January 1998. The company views this as a significant enhance nent to the free Internet offer, which provides schools with a method to now publish on the Internet. All 1,600 schools and libraries in the state are eligible for this program. A s of the summer of 1999, approximately 160 institutions have established free web sites u nder this program.

- Through the FCC's "E"ducational Rate Program (part of the Ur iversal Service Fund process), Connecticut schools have realized approximately $23 nillion in discounts for deploying technology ($9million – telecommunications service; $13 million – internal wiring; $1million – Internet services). As the leading telecomm unications provider in Connecticut, SNET has developed internal procedures to effect he process of providing discounts for SNET provided services to schools and libraries. n addition, SNET worked collaboratively with the Connecticut State Department of Educa tion, and the local educational agencies to educate school officials through worksh ops and promotional campaigns.

- SNET gave $30,000 to the Mystic Aquarium located in Mystic, CT recently opened a remote location in Hartford to provide opportunities for urban youth (fc cused on pre-K to 6th grade) to experience ocean centered displays and programs. The cente employs Hartford youth that maintain academic levels. SNET provided funding which supp rts the telecommunications needs of the center. In December, SNET provided two videoco: iferencing units and operational expenses which will allow the Mystic site to interac with Hartford students in an effort to expand the center's reach to higher level students.

- Since 1985, SNET has given over $1 million to the Celebration of Excellence Program, recognizing teachers for their development of innovative and ex mplary classroom projects. The projects encourage students to develop their potential and t live and learn in this changing world. Since its inception, SNET has been a major fir ancial sponsor of this program ($1M +) which promotes and recognizes educational e: cellence on a statewide basis.

- SNET has established programs to distribute over $200,000 wo: h of surplus inventory of computer equipment, fax machines, and furniture. To be consid red for adonation, organizations must qualify as not for profit and substantiate hov the donated items will be used.

- SNET provided $150,000 in funding to Amistad America, a nor -profit organization responsible for funding and overseeing the operation of the ship Amistad. The Amistad will be outfitted as a learning center and exhibit.

- SNET has given $150,000 to support senior citizens by helping hem enter the information age and establishing SeniorNet Learning Centers; Eleven (11) c nters are in operation by year-end 1998 with funding, technical support and training prov ded for startup. This effort is in cooperation with the national SeniorNet program providing a model for self-sustaining centers, which have been adopted by over 125 centers as a vehic le to introduce seniors to the world of computers.

- This program promotes the study of geography by using the UC)NN basketball program as a basis. Teachers receive a master lesson plan at the beginning of the season and follow the UCONN team and their opponents through the season. Studyin ; geography during the

process. Over 605 classes, and 26,205 students have signed up for the second year of this program.

- 167 of Connecticut High Schools were awarded $1,000, for a total of $167,000. Grant monies were used to support band and music programs. This was the first time that SNET has offered a grant opportunity that did not support telecommunications technology and over 75% of Connecticut high schools participated in the program.

- Charter Oak State College received $25,000 to help establish Internet based training.

- SNET provided $20,000 to support the CT NASA Education Collaborative's effort to expand opportunities for CT teachers to use and access NASA material

- SNET provided $5,000 to the CT Academy for Math and Science to provide a high speed link to a centralized databank of information as part of a project effort to centralize data and make it easily available for educators.

- For the past three years, SNET has given $5,000/year and supported a statewide survey of schools which evaluates the current technology environment throughout the state. The survey is conducted by the CT Association of Boards of Education (CABE) and receives funding from the CT State legislature.

- In an effort to assist educators in the use of technology, the CT Educator's Computer Association holds a one-day fall conference featuring presentations by classroom teachers for classroom teachers. SNET donates $8,250/year to promote the sharing of information among the teachers of Connecticut.

- In 1998, SNET wireless deployed a wireless PBX to an elementary school in Rocky Hill in order to facilitate conversation among teachers and parents. Each teacher has been provided a wireless phone, which can be used from any location within the building or from any of the school grounds. SNET has donated a total of $50,000.

- SNET donates $10,000/year and created a five-member teacher team to evaluate and review telecommunications applications in the school environment. These teachers have been provided the opportunity to trial new technologies such as high speed Internet access and interactive desktop video teleconferencing. An example of their efforts is reflected in a program known as Rivers to the Sea which connects six school regions with interactive desktop video as a student tool to enhance interaction among the classes.

- As part of an effort to increase awareness and availability of the Internet to all Connecticut citizens, SNET donated $30,000 for a high speed Internet link to the Children's Science Museum Internet Computer Center. The link provides access to all computers located in a newly created computer lab, which can be used by school groups on both a daytime and evening basis.

- From 1987 through 1997, SNET provided $50,000 annually in a competitive grant program to allow classroom teachers to use telecommunications technology in the learning environment. This grant program has been cited by many teachers as their introduction to telecommunications technology as a real classroom tool.

- Bristol school system was awarded $10,000 to establish an interactive video connection between their two high schools. The facility should be operational in the fall of 1999.

PACIFIC BELL

Los Angeles, CA

In Los Angeles, SBC subsidiary Pacific Bell has worked to narrow the digital divide by providing millions to numerous schools, libraries and other community centers.

Projects

- Since 1997, the Los Angeles External Affairs Group has contributed more than $400,000 towards educational programs.
- Through the Education First initiative, which concluded at the end of '97, Pacific Bell contributed more than $240,000 in net-day kits, hardware and software.
- Wired over 350 schools in the L.A. County area.
- Contributed more than $3.1 million in customer ISDN lines.
- Supported three Demonstration Sites in L.A. county for three years ('95-'97) providing ISDN lines for Internet Access and videoconferencing, routers, email capabilities, newsgroups, training support, and additional resources. The Pasadena Public Library, Los Angeles Harbor College, and the Manual Arts High School.
- Our Education Advocates have delivered customized workshops on technology to thousands of L.A., Ventura, and Santa Barbara educators. The value of these workshops is more than $300,000.
- In 1992 Pacific Bell created the Los Angeles School Volunteer Program. This program reaches five schools and it works with schools in assisting them in their efforts to motivate students to work hard, set goals for their future and improve self-esteem. Since 1992, Pacific Bell has contributed more than 50,000 volunteer hours serving more than 10,000 students, over $700,000 in employee volunteer time since 1992, and given more than $535,000 to operate the program.
- Pacific Bell contributed $100,000 to the Los Angeles County Library Foundation in 1999 to establish Homework Help Centers at libraries in Carson and North Hollywood. The libraries were targeted because of the minority and low-income population in the communities neighboring the libraries. The centers have trained helpers to assist students in successfully completing homework assignments. Computers with Internet access also are available for use by the students.

San Francisco, Ca

Pacific Bell is committed to ensuring that all Californians have acc ss to our state-of-the- art high-speed Internet service ADSL (Asymmetrical Digital Subscrib r Lines). We targeted our initial roll-out to include traditionally under-served communities su ch as Oakland and Compton. And in the 4th Quarter of 1998, Pacific Bell identified 3 community based organizations in the San Francisco Bay Area to receive ADSL and Internet access at no cost for 1 year. These organizations: Plugged In, The Center for Accessible Technology, and The Eastmont Computing Center serve underserved communities including the di abled, low-income, minority and senior communities in Berkeley, Oakland, and East Palo Alto.

Projects

- Plugged In helps bridge the gap by bringing the benefits of com puter and communications technologies to the entire community. Plugged In helps to prov de East Palo Alto organizations and families with access to computer technology, serving as a nationally recognized model for connecting low-income communities witl the information economy. Community members of all ages use state-of-the-art computers o build their literacy skills, work on resumes, make money in our team enterprises, or build valuable computer skills in its classes. Plugged In serves approximately 26,000 community members each year.

- The Center for Accessible Technology is a non-profit organizat on that works with children and adults with disabilities, their families, teachers, counselors, and employers to explore computer systems, adaptive devices and software. They assist p eople in gaining the knowledge and expertise needed to make the best decisions abo it selecting and using adaptive computer equipment. The Center empowers consume s by not prescribing aids, but by recognizing that each person has something to contribute to t ne successful implementation of a technological solution.

- The Eastmont Computing Center is an authoritative community resource on technology, with a commitment to providing universal access and employment fc cused, cutting-edge training. Programs will provide technology access to all segments of the ocal community including a special emphasis on employment focused training primarily to y outh. The Eastmont Computing Center is the product of a partnership between the O akland Citizens' Committee for Urban Renewal (OCCUR), the East Bay Urban Church and Family Network, and Family Netowrk, Youth Media, the FAITHS Initiative, and the Urban T echnology Center Inc. Eastmont Computing Center's programs focus on three areas: F ree computer and Internet access at a local mall; Employment-focused job-training and pla cement for youth and a technology resource for local schools, libraries, and other non-p ofit organizations.

- On November 18, SBC Communications Chairman Ed Whitacr delivered the first $10 million to the Community Partnership Agreement. The Commu ity Partnership Agreement is a collaboration between nine community coalitions statewide – epresenting 134 Latino, Asian American, African American, civil rights, and disability c rganizations – and Pacific

Bell. It is dedicated to bringing both existing and new commun cations technologies to traditionally disadvantaged communities.

- The $50 million Community Technology Fund, which will dist ibute at least $5 million each year through the next decade to the nonprofit Community Tech ology Foundation of California, is headed by community leaders who understand co: nmunity needs. The Fund received its first $10 million installment in a November 18th ce: emony in Los Angeles.

- The Universal Service Task Force will focus on creative ways t) increase telephone subscribership to 98 percent in low-income areas and broaden c)mmunity access to advanced telecommunications technologies;

- A $1 million research initiative will complement efforts of the ('ommunity Technology Foundation of California; The nine coalitions working with Pa ific Bell are African Americans for Telecommunications Equity; the Asian Pacific A merican Community Partnership; the Asian Pacific Islanders California Action Netw)rk; the Greenlining Coalition; the Hispanic Association on Corporate Responsibilit ; the Los Angeles Urban League; the Universal Service Alliance; the World Institute on))isability; and Public Advocates' clients, the Southern Christian Leadership Conferen :e, National Council of La Raza, Korean Youth and Community Center, Association of M(xican-American Educators, California Association for Asian-Pacific Bilingual Education, C alifornia Association for Bilingual Education, Filipino Civil Rights Advocates, Filipinos for Affirmative Action, Korean Community Center of the East Bay.

- Pacific Bell was named NAACP's corporation of the year beca se of our supplier diversity program.

- Pacific Bell donated $100,000 to two programs, the Mayfair Ne ghborhood and the Mexican Heritage Grant, benefiting the Latino community in East San Jo :e, funding a neighborhood revitalization project (in Cesar Chavez' neighborhood) and also a cultural center.

- The Pacific Bell Foundation recently announced a $75,000 gran to the Spanish Speaking Unity Council to fund the Pacific Bell Technology Center at the Fruitvale BART Transit Village. The Center will reach out to all members of the Fruitv: le community, opening the gateway of the World Wide Web to all its residents. The Cente will feature bilingual software programs to allow computer use and Internet access in Spanish, as well as educational programs for literacy training and GED preparation In addition, the center will provide a job Readiness and Employment Program, Business A: sistance, Homeownership Counseling, Mentoring of school-age students, and Head Start.

- The Northern and Central California Community Enrichment P:)gram awards grants of up to $25,000 to local government and community-based organizatio: s working to put today's technology where it's needed most. Awarding a total of $350,0(0 in 1998, the C.E.P. helped fund projects that brought Internet and computer training to emp loyment development efforts, opened new avenues of learning in rural schools, and br ught social service programs

closer to the clients they serve. The awards were spread throu hout Pacific Bell's 41-county Northern and Central California region, covering urban areas s ch as Sacramento and Fresno, as well as rural areas such as Shasta and Humboldt counties.

San Diego, Ca

In San Diego and southern California, Pac Bell is partnering with l ocal communities and providing computers for under-served populations and reaching ou to a diverse population speaking both English and Spanish.

Projects

- Pacific Bell, the San Diego Regional Technology Allicance anc ATCOM/INFO have partnered together to provide computers for five local commun ty centers which work with under-served populations. Through a competitive process the f ollowing centers were chosen as the first five recipients of the "Computers in Community Ce ters" program. They include the Urban Corps of San Diego, Jackie Robinson YMCA, YWC A Downtown San Diego, Chula Vista Public Library, San Diego Urban League.

- We also made a donation to the Council on Literacy to adminis er an education outreach program with San Diego County libraries. The program is focu sed on a literacy effort that is designed to reach all of the diverse communities of San Diego (ounty while strengthening local libraries.

- Pacific Bell also teamed with Casa Familiar, located in an extre nely poor and under-served community along the Mexican Border, on a project that provide s basic and computer literacy skills to at risk or drop out youth to better prepare them for scho ol and the job market. Our company provided computers and wiring for their new educatio n center.

- At the Center for Parent Involvement in Education, Pacific Bel 's contribution helped in providing for the "I'm going to College program." This progra n provides training on entering college for inner city parents and their children.

- Pacific Bell's role in its education outreach is its commitment t curriculum, which is achieved by working closely with educators to provide technolc gy that supports what is being taught in the classrooms. Log Onto the Future, a landmarl partnership with the Classroom of the Future Foundation and the County Office of E ducation, brings high speed data transfer and video conferencing into the classroom and sup orts a math and science intensive curriculum. The 12 San Diego elementary, middle and high schools involved are linked via high-speed digital lines and allow the students to coll aborate on various projects ranging from building a station on Mars to exploring the ethical political and scientific implications of human cloning.

- Pacific Bell, working with the San Diego Padres baseball team, announced its Little Padres Program, a plan to build or refurbish 60 youth baseball fields lo ated in under-served communities through San Diego and the surrounding region, inc luding south of the border. The 60 Little Padres Parks, which will honor 60 years of profes ional baseball in San Diego, will be built

- Pacific Bell recently contributed $10,000 to this youth academi and job training program that focused on underserved communities. The grant will fund n educational computer repair class. In addition, Pacific Bell has contributed working c mputers used by Urban Corps participants, who as part of the academic part of the prog am, are completing their high school education.

AMERITECH

SBC's partnership with Ameritech will enable a pooling of resources to close the digital divide in the southwest and midwest regions in which they operate. Ameritech has also demonstrated a commitment to closing the digital divide by having programs operative in all states as well as specific programs designed to help local communities in their unique situations.

Efforts in the 5 States

- The Ameritech Economic Education Technology Project was developed through a grant to the National Council on Economic Education. Utilizing communications technologies such as the Internet and distance learning, the project provides economics education workshops and curricula to school districts, teachers, and students located in Ameritech's five-state region, including Illinois, Indiana, Michigan, Ohio, and Wisconsin.

- In 1997, Ameritech created the Ameritech Faculty Development Technology Program -- a program that brings faculty together from independent colleges in Illinois, Michigan, Ohio and Wisconsin to develop and implement technology training for teachers. Faculty from the four states who participate in the workshops have an opportunity to exchange best teaching and learning models through a regional toolbox posted on the world wide web.

- The Ameritech Partnership Awards for Independent Colleges were developed to encourage the innovative use of technology in higher education by private institutions in Ameritech's five state region. All accredited, degree-granting institutions that are members of the Midwest Partnership of Independent Colleges are invited to compete on a statewide basis. This years award winners include: North Park U. (Chicago, IL) Blackburn College (Carlinville, IL), Indiana Wesleyan U. (Marion, IN), Tri-State U. (Angola, IN), Madonna U. (Livonia, MI), Kalamazoo College (Kalamazoo, MI), Otterbein College (Westerville, OH), Oberlin College (Oberlin, OH), Carthage College (Kenosha, WI), Milwaukee School of Engineering (Milwaukee, WI).

- The Ameritech Technology Program for Arts & Culture is a competitive grant program for arts and cultural institutions in Ameritech's five-state region. The program is designed to bridge technology with art programs that are rich in cultural diversity, provide broad educational experiences and enhance the quality of life for customers, shareowners and employees. In 1997, more than $530,000 was contributed to five arts and cultural organizations in the five states including the Akron (OH) Art Museum, Chicago (IL) Children's Museum, Detroit (MI) Historical Society, Indianapolis (IN) Museum of Art, and Milwaukee (WI) Art Museum.

- For the second consecutive year, Ameritech has made nearly 45 000 copies of The Big Deal Book of Technology for K-12 educators available to superintendents, principals, and technology coordinators in its service area in the states of IL, M , OH, and WI. The book is

designed to provide K-12 educators with some of the best buys and savings on technology-related products and services, including some offerings from Ameritech. The Big Deal Book of Technology serves as a semiannual resource. Approximately one-half of the book's pages provides access to some $300 million in grant opportunities, sources of free technology-related materials and more than 100 noncommercial websites for research and enrichments, many of which offer free lesson plans and teaching ideas.

- Over the past decade, Ameritech has strongly supported the national Reading is Fundamental (RIF) organization in Washington, DC. Through the Ameritech and RIF partnership, children and their families are inspired to read through planned reading-related activities and through a special book distribution program. Ameritech funds enable schools, libraries and other non-profits to partner with the RIF program to take advantage of various literacy programs and book supplier discounts.

Illinois

- Ameritech is Integrating Technology into the Curriculum by enabling dedicated teachers and students of the fourth and sixth grades to use a multimedia approach to address various extra-curricular proposals. The program helps students become comfortable using technology as a tool for research and instruction, which substitutes the paper and pencil tasks. The skills developed by the students in working on this program such as; identify, describe, investigate, collect, organize and analyze to name a few, will enable them far beyond the school walls.

- The WIU/Ameritech TechKnowledgy Project is a state-wide telecommunications-based staff development program for Illinois K-12 educators. Through a partnership with the Illinois State Board of Education, its seven regional Learning Technology hubs and WIU, the projects addresses Illinois' need for intensive, on-going teacher training in the effective use of communications technologies.

Michigan

- Ameritech funds the Detroit Area Pre-College Engineering Program for K-12 teachers in the Detroit Public Schools. As part of the learning process, teachers develop lesson plans which are posted on DAPCEP's web site to be shared with others. In addition to helping teachers in the use of technology, the grant also helps students research and complete their science fair projects using the Internet.

- The Learning Exchange for Teachers and Students through the Internet (LETSNet) project, funded by Ameritech, has developed resources for K-12 teachers on how the Internet can be used in their classrooms. This resource has been created by a collaboration between Michigan State University's College of Education and College of Communication Arts and Sciences. LETSNet encourages teachers to think about using the Internet in the classroom in terms of concepts already familiar to teachers, such as field trips, publishing, teamwork and research.

- The Electronic Generation Connection (Bloomfield Hills, MI) literally puts the students from Della Lutes Elementary School and Hickory Grove Elementary in communication with "students" from another generation. Fifth grade students work through varying stages of digital communication skills with senior citizens at three community senior citizens centers in Michigan. As the youngsters are learning from and sharing with unseen friends, they are concurrently studying reading, spelling, grammar, history, math, geography, and social studies. They generate maps, measure distances, compare and graph cost of goods over a period of time, carefully prepare and peer-edit questions, and use their "free" reading time to investigate unfamiliar terminology of references. They use computers, scanners, digitizing cameras, printers, modems, electronic bulletin boards, encyclopedias, CD-ROM, videodisks, and VCRs.

Wisconsin

- K-12 students can assess a statewide helpline to obtain teacher assistance after school hours. The helpline is an education/business partnership of the Wisconsin Cooperative Education Services Agencies Foundation (CESA), Ameritech, University of Wisconsin Eau Claire, Wisconsin Department of Public Instruction, Wisconsin Education Association Council and the Wisconsin Association of School Boards.

- The Student Information System program offers one-stop shopping for accessing information about the University of Wisconsin (UW) System and the Wisconsin Technical College System (WTCS). The program features: an on-line introduction to the UW System with descriptions of institutions, admission requirements, and academic programs, a UW System and WTCS telephone directory that provides ready access to all offices and individuals at every institution, an electronic application for admission to any UW System institution or any WTCS campus, on-line financial aid form, an electronic aid application form, and hypertext connections to advice on how families can save for college, on-line career advising services.

Indiana

- The Ameritech Hoosier Academic Super Bowl is a title sponsor partnership between Ameritech and the Indiana Association of competition for students in grades 9-12. The Super Bowl has separate competitions in English, fine arts, mathematics, science, social studies and interdisciplinary (a combination of the five subject areas). More than 5,000 students from 300 high schools are expected to take part in regional competition, during which 150 squads are expected to qualify for the state finals. Ameritech contributes $300 to the schools' media centers of 24 state champion teams in honor of their accomplishments. Ameritech also awards each champion team Olympic-style medals, plaques, banner and customized "road sign" that proclaim its champion status.

- A Community Safe Haven. Students at Crown Point High School (Crown Point, IN) have a greater awareness of the positive impact that technology makes possible. The school opened its doors and technology resources to students and adults after hours. This effort was an attempt made to reduce inappropriate behaviors after school behaviors and increase students'

educational achievement. As a result, the citizens of Crown Poi t now have a technology community resource center. This program registers successes of assisting the students to develop greater skills and self-esteem, and a community of life l ong learners. The Indiana Criminal Justice Institute Board of Trustees awarded Crown Poi nt Community School Corporation (CPCSC) a $35,000 Safe Haven grant.

Ohio

- The Ameritech Electronic Classroom at Kent State electronicall ' links with the University's eight-campus system and also with schools, communities and c rporations worldwide. The classroom, a collaboration of teachers, supervisors and administ ators in Portage and Summit County's K-12 public and private schools, is designed for obser ation, field experience and experimentation about how K-12 students interact with and lear using interactive multimedia courses.

- The major goal of Snaps: A Special Needs Application of Probl m Solving was to apply scientific and technological principles to solve real world proble ns. This goal enabled the students to look beyond the classroom and work in the real worl l enhancing career exposure. SNAPS helped foster creativity, develop problem-solving techn ques, built communication skills and enable them to understand the interdisciplinary nature of the sciences. By use of e-mail, Internet home page, and computer video conferencing, the SNAPS teams hope to establish an electronic support group for others wishing to adapt this worthwhile project in their community.