

Endnotes

CHAPTER 1

- ¹ Utah History Encyclopedia, "Central Utah Project," 1994. <<http://www.media.utah.edu/UHE/c/CENTRALUTAH.html>>.
- ² *Utah History To Go*, "Interstate 70," 1994, <<http://historytogo.utah.gov/i70.html>>.
- ³ *Deseret News*, "Leavitt seeks increase in gas tax for I-15 repairs," from Lexis-Nexis, September 27, 1996.
- ⁴ Karl Cates, "Lawmakers Set Aside Funds for I-15, Bangerter Highway," *Deseret News*, from Lexis-Nexis, February 29, 1996.
- ⁵ Amy Joi Bryson, "Gas-tax opinions flood capitol," *Deseret News*, from Lexis-Nexis, January 12, 2003.
- ⁶ Zack Van Eyck, "Lawmakers tackle road-project funding," *Deseret News*, Lexis-Nexis, May 13, 2004.
- ⁷ John Keahey, "S.L. to deliver hard sell for 2002 Winter Games," *Salt Lake Tribune*, 23 January 1995, A3.
- ⁸ John Keahey, "IOC gives Utah bid gold stars report makes S.L. leader of olympic pack, for now IOC report gives Utah bid gold stars," *Salt Lake Tribune*, sec. A1, Lexis-Nexis, December 21, 1994.
- ⁹ Mike Gorrell, "Winter Olympics funding bill for SLOC breezes by Senate," *Salt Lake Tribune*, 5 March 1997, A6.
- ¹⁰ *Salt Lake Tribune*, "Private dollars, public dream: here's who bankrolled the bid," 18 June 1995, A11.
- ¹¹ State of Utah Governor's Office of Planning and Budget, *2002 Olympic Winter Games: Economic, Demographic, and Fiscal Impacts*, State of Utah, November 2000, 3.
- ¹² State of Utah Governor's Office of Planning and Budget, 3
- ¹³ American City Business Journals, Quality of Life Rankings, Bizsites.com [n.d.] <http://www.bizsites.com/toolkit/qol_rankings/quality_of_life_rankings.html>.

CHAPTER 2

- ¹ Utah Foundation, *The 2004 Utah Priorities Poll: The Top Issues and Concerns of Utahns for the 2004 Gubernatorial Election*, March 2004, 1.
- ² Utah Governor's Office of Planning and Budget, *2004 Economic Report to the Governor*, State of Utah, January 2004, 2.
- ³ James A. Wood, "The Utah Economy: A Review and Outlook," *Utah Economic and Business Review*, January/February 2004, 1.
- ⁴ Utah Governor's Office of Planning and Budget, 3.
- ⁵ Utah Foundation Research Brief, May 2004.
- ⁶ Jennifer K. Nii, "Job Growth in Utah Tops 2003 by 3%," *Deseret Morning News*, 20 October 2004, <<http://deseretnews.com/dn/print/1,1442,595099418,00>>.
- ⁷ Utah Governor's Office of Planning and Budget, 15.
- ⁸ Jennifer K. Nii, "Salt Lake a Good Fit for Tech," *Deseret Morning News*, 16 September 2004, E1.
- ⁹ Wood, 1.

- ¹⁰ Utah Governor's Office of Planning and Budget, 2.
- ¹¹ Pamela S. Perlich, "Demographic Trends Affecting Public Education in Utah," *Utah Economic and Business Review*, November/December 2000.
- ¹² Perlich, 9.
- ¹³ Daphne Borromeo, "Utah Improves in Preparing Students for College But Not In Enrolling Them In Higher Education," *State News Summary*, September 15, 2004.
<<http://measuringup.highereducation.org/statedir.cfm?myyear=2004&stateName=Utah>>.
- ¹⁴ Utah's School Age and College Age Population Boom, "College Age Population,"
<<http://governor.utah.gov/dea/ERG/ERG2003/23.School-AgeBoom.PDF>>, (accessed October 7, 2004).
- ¹⁵ Steven Levy, "The Hot New Tech Cities," *Newsweek*, 9 November 1998, 45.
- ¹⁶ Levy.

CHAPTER 3

- ¹ Brice Wallace, "Utah's Grip on High Tech Slipping," *Deseret Morning News*, 22 August 2003,
<<http://deseretnews.com/dn/view/0,1249,510048676,00.html>>.
- ² Matt Asay, "Who Speaks for Tech," *Connect*, 8 November 2003, <<http://www.connect-utah.com/article.asp?r=166&iid=16&sid>>.
- ³ Rich Nelson, "UITA Tech Industry Study," *Connect*, 14 November 2003, <<http://www.connect-utah.com/article.asp?r=174&iid=16&sid>>.
- ⁴ Wallace, "Utah's Grip on High Tech Slipping."
- ⁵ Ross DeVol and Perry Wong. *America's High-Tech Economy: Growth, Development and Risks for Metropolitan Areas* (Santa Monica, CA: Milken Institute, 1999), 2.
- ⁶ Lisa Carricaburu and Lesley Mitchell, "Rolling Down the Line: High-Tech Shakeout," *The Salt Lake Tribune*, 3 December 2000, A1.
- ⁷ Lisa Carricaburu, "Utah Slowly Slips Off Map of Tech Hubs," *The Salt Lake Tribune*, 8 February 2004, E1.
- ⁸ Carricaburu.
- ⁹ Carricaburu
- ¹⁰ W.E. Pete Peterson, *Almost Perfect*, Rocklin, CA: Prima Publishing, 1994, 1.
- ¹¹ Harvard Business School, "Raymond J. Noorda," *20th Century Great American Business Leaders*, n.d.,
<<http://www.hbs.edu/leadership/database/leaders/567/>>.
- ¹² Carricaburu.
- ¹³ Adobe, "Corporate Backgrounder," Adobe Pressroom,
<<http://www.adobe.com/aboutadobe/pressroom/companyprofile.html>> (Accessed 8 October 2004.)
- ¹⁴ Pixar, "Meet the Execs," Pixar, <<http://www.pixar.com/companyinfo/aboutus/mte.html#edcatmull>>
(Accessed 6 October 2004).
- ¹⁵ Nelson.

- ¹⁶ State of Utah Department of Community and Economic Development, "Program Highlights," Centers of Excellence, <<http://dced.utah.gov/techdev/highlights.html>> (Accessed 4 October 2004).
- ¹⁷ Carricaburu.
- ¹⁸ Brice Wallace, "Utah High-Tech Sites Mapped," *Deseret Morning News*, 10 January 2002, <<http://deseretnews.com/dn/print/1,1442,365006922,00.html>>.
- ¹⁹ Steven Levy, "The Hot New Tech Cities," *Newsweek*, 9 November 1998, 45.
- ²⁰ Paul Beebe, "Leavitt's Silicon Valley Initiative Bearing Little Fruit," *The Salt Lake Tribune*, 5 August 2001, E1.
- ²¹ Wallace, "Utah's Grip on High-Tech Slipping."
- ²² Utah Governor's Office of Planning and Budget, *2004 Economic Report to the Governor*, State of Utah, January 2004, 2.
- ²³ Utah Governor's Office of Planning and Budget, 1.
- ²⁴ James A. Wood, "The Utah Economy: A Review and Outlook," *Utah Economic and Business Review*, January/February 2004, 1.
- ²⁵ Mark Knold, "High Technology Downturn in Utah: Tracing Utah's High Technology Industries and their Relation to the Recession," Utah Department of Workforce Services, 9 August 2004, <<http://jobs.utah.gov/wi/pubs/HiTechReport.pdf>>.
- ²⁶ Wallace, "Utah's Grip on High-Tech Slipping."
- ²⁷ Utah Governor's Office of Planning and Budget.
- ²⁸ Nelson.
- ²⁹ David L. Politis, "Funds Flowing to Utah's High-Tech Firms," *Deseret Morning News*, 21 July 2003, <<http://deseretnews.com/dn/print/1,1442,510040796,00.html>>.
- ³⁰ Utah Technology Alliance, "Fund of Funds- HB 240 Venture Capital Enhancement Act," *Utah Department of Community and Economic Development*, <<http://techalliance.utah.gov/fundoffunds.html>> (Accessed 8 October 2004).
- ³¹ Ross DeVol, Perry Wong, Armen Bedroussian, Lorna Wallace, Junghoon Ki, Daniela Murphy and Rob Koepp, *Biopharmaceutical Industry Contributions to State and U.S. Economies*, (Santa Monica, CA: Milken Institute, 1999), 4.
- ³² DeVol et al, 1.
- ³³ Myriad Genetics Inc, "Management's Discussion and Analysis of Financial Condition and Results of Operations," *Annual Report*, 10 September 2004. <<http://biz.yahoo.com/e/040910/mygn10-k.html>>.
- ³⁴ Myriad Genetics, Inc., "About Myriad," Myriad Genetics, Inc., <<http://www.myriad.com/corporate/index.htm>> (accessed October 5, 2004).
- ³⁵ Myriad Genetics, Inc., "Working at Myriad," Myriad Genetics, Inc. <<http://www.myriad.com/careers/working.htm>> (accessed October 5, 2004).
- ³⁶ Charly Travers, "Myriad's Making Hope Possible," *Motley Fool*, 19 August 2004. <http://biz.yahoo.com/fool/040819/1092940740_2.html>.
- ³⁷ TheraTech, Inc., "Mission Statement," *Informagen*, <<http://informagen.com/RI/index.php?mrn=3351>> (accessed October 5, 2004).

³⁸ *Connect Magazine*, September 2004.

³⁹ Russ DeVol and Rob Koepp, *State Technology and Science Index: Enduring Lessons for the Intangible Economy*, (Santa Monica, CA: Milken Institute, 2004), 2.

⁴⁰ DeVol and Keopp, 4

⁴¹ DeVol and Koepp, 35.

CHAPTER 4

¹ Wallace.

² Huntsman for Governor, *John Huntsman, Jr.'s Plan for Economic Revitalization for Utah*, April 2004, <<http://www.votehuntsman.com/downloads/pdf/Economic-Plan.pdf>>.

³ Shinika A. Sykes, "A 'tough' higher ed budget," *The Salt Lake Tribune*, 12 December 2003, C1.

⁴ Utah Information Technology Association. "Utah Governor Olene Walker and Prominent Business Leaders Outline Growth Initiatives for Utah Technology Industry," 16 August 2004, <<http://www.uita.org/press/2004/aug-16.htm>>.

⁵ Utah Information Technology Association.

⁶ Shinika A. Sykes, "Universities saluted as engines of economy," *The Salt Lake Tribune* 30 July 2004, B5.

⁷ Mary Jane Collipriest, "Bennett Receives Legislator of the Year Award," *U.S. Senator Bob Bennett*, 5 June 2001, <<http://www.senate.gov/~bennett/press/record.cfm?id=224851>>.

⁸ The Brookings Institution, *Keeping the Good Times Rolling: Technology and the Global Economy*, 10 October 2000, <http://www.senate.gov/~bennett/issues/documents/THE_BROOKINGS_INSTITUTION.pdf>, 4.

⁹ E. J. "Jake" Garn, "Don't Shortchange Higher Education [editorial]," *Deseret News*, 13 February 1997, A30.

¹⁰ Jeff Call, "High-Tech Hopes for Beehive State," *Deseret Morning News*, 10 May 2004, <<http://deseretnews.com/dn/print/1,1442,595061678,00.html>>.

¹¹ Michael T. Benson, "Utahns should invest in higher education [editorial]," *Deseret Morning News*, 29 December 2003.

¹² David Buhler, "Regents Chair Nolan Karras Links Economic Development to Higher Education in Speech to the Economic Development Corporation of Utah Annual Meeting," *Utah System of Higher Education*, 5 August 2003, <http://www.utahsbr.edu/PressRelease/PR_2003/PR_Aug05_2003.pdf>.

¹³ Amelia Nielson-Stowell, "Higher Ed Chief Notes Funding Not Keeping Pace," *Deseret Morning News*, 7 July 2004, <<http://deseretnews.com/dn/print/1,1442,595075512,00.html>>.

¹⁴ A. Scott Anderson, "Research Universities Fuel Utah's Economy," *The Enterprise Special Report*, 23 August 2004, 6.

¹⁵ *The Enterprise Special Report*, "An Educated Workforce: The Key to a Strong Economy," 23 August 2004, 16.

¹⁶ Kelly K. Matthews, "The University of Utah: An Economic Lynchpin," *The Enterprise Special Report*, 23 August 2004, 9.

¹⁷ David L. Politis, "Technology—It Can be a Love-Hate Relationship," *Deseret Morning News*, 10 August 2004.

- ¹⁸ *The Enterprise Special Report*, "Technology Transfer: Turing Ideas into Profits," 23 August 2004, 13.
- ¹⁹ Colin Kelly, Jr., "Point of View: Jack Sunderlage," *Connect*, 23 June 2004, <<http://www.connect-utah.com/article.asp?r=412&iid=23&sid>>.
- ²⁰ *Deseret News*, "Why Higher Ed is Important [editorial]," *Deseret News*, 25 July 2002, A28.
- ²¹ *Deseret News*, "Don't Shortchange U.S. Research [editorial]," *Deseret News*, 6 September 1995, A10.
- ²² *The Salt Lake Tribune*, "Universities Invaluable [editorial]," 13 February 1997, A12.
- ²³ *The Daily Herald*, "In Our View: Roads can't suffer for education [editorial]," *The Daily Herald*, 17 December 2003.
- ²⁴ *The Daily Herald*, "In Our View: Give colleges the power to progress [editorial]," *The Daily Herald*, 1 March 2004.
- ²⁵ *The Standard Examiner*, "Tuition sticker-shock hits Utah universities [editorial]," *The Standard Examiner*, 15 September 2004.
- ²⁶ *The Standard Examiner*, "Utah's incentives for businesses are weak [editorial]," *The Standard Examiner*, 7 November 2002.

CHAPTER 5

- ¹ Office of the President, Arizona State University, *The Economic Benefits from Investment in University Based Research, Development and Education* (Tempe, AZ: ASU, n.d.), 5.
- ² *Economic Benefits*, 5.
- ³ *Economic Benefits*, 7.
- ⁴ Ross DeVol and Perry Wong. *America's High-Tech Economy: Growth, Development and Risks for Metropolitan Areas* (Santa Monica, CA: Milken Institute, 1999), 2.
- ⁵ Chris Freeman and Luc Soete, *The Economics of Industrial Innovation, 3rd Edition*, (Cambridge, MA: MIT Press, 1997), 316.
- ⁶ *Economic Benefits*, 19.
- ⁷ *Economic Benefits*, 19.
- ⁸ Office of Public Affairs and Office of University Initiatives, Arizona State University, *Investing in Arizona's Future* (Tempe, AZ: ASU, n.d.), 9.7.
- ⁹ *Economic Benefits*, 19.
- ¹⁰ Ross DeVol and Perry Wong, 6.
- ¹¹ Bruce Kirchoff et al., *The Influence of R&D Expenditures on New Firm Formation and Economic Growth* (Maplewood, NJ: BJK Associates, 2002), 24.
- ¹² *Investing in Arizona's Future*, 7.
- ¹³ Kirchoff et al, 3.
- ¹⁴ Kirchoff et al., 2.
- ¹⁵ DeVol and Wong, 13.

- ¹⁶ *Economic Benefits*, 13.
- ¹⁷ Kirchhoff et al., 24.
- ¹⁸ *Economic Benefits*, 14.
- ¹⁹ Mackun.
- ²⁰ Paul Mackun, "Silicon Valley and Route 128: Two Faces of the American Technopolis Investing," *Internet Valley* (n.d.) <<http://www.internetvalley.com/archives/mirrors/sv&128.html>> (11 Sept. 2004).
- ²¹ Richard Rosan, "The Key Role of Universities in Our Nation's Economic Growth and Urban Revitalization," Urban Land Institute, 2002, <http://experts.uli.org/content/whoswho/officers/rosan/rosan_C7.htm>.
- ²² DeVol and Wong, 3.
- ²³ DeVol and Wong, 6.
- ²⁴ DeVol and Wong, 6.
- ²⁵ Rosan
- ²⁶ Paul Judge, "Boston's Route 128: Complementing Silicon Valley," *Business Week*, 13 August 1997, <<http://www.businessweek.com/1997/34/b354197.htm>>.
- ²⁷ Research Triangle Park, *About Us: Park History*, 2004, <http://www.rtp.org/index.cfm?fuseaction=page&file-name=about_us_history.html> (11 Sept. 2004).
- ²⁸ Rochester International Council, *New Technology/High Technology*, n.d., <<http://www.rifc.org/ivtech.html>> (11 Sept. 2004).
- ²⁹ City of San Diego, *Technology and Development*, n.d., <<http://www.sannet.gov/economic-development/business-assistance/techanddev/>> (11 Sept. 2004).
- ³⁰ Robert Dynes, "State's competitiveness starts at research universities," *San Francisco Chronicle*, 23 April 2004.
- ³¹ "Deep in the Heart of Texas", *The Economist*, 27 Mar. 1997, <http://www.economist.com/surveys/PrinterFriendly.cfm?story_ID=366803> (11 Sept. 2004).
- ³² Rosan.
- ³³ DeVol and Wong, 8.
- ³⁴ DeVol and Wong, 8.
- ³⁵ Kenneth Bartlett, "Towards a True Community of Scholars: Undergraduate Research in the Modern University," *Journal of Molecular Structure* 666 (Dec. 2003): 707.
- ³⁶ R. Eric Landrum and Lisa R. Nelsen, "The Undergraduate Research Assistantship: An Analysis of the Benefits," *Teaching of Psychology* 29.1 (2002): 17.
- ³⁷ Jeffrey Mervis, "Student Research: What is It Good For?," *Science*, 293.5535 (2001): 1614.
- ³⁸ Mervis, 1615.
- ³⁹ John W. Moore, "The Boyer Report," *Journal of Chemical Education*. 1998 (75) p. 935.

CHAPTER 6

- ¹ House of Representatives Committee on Science, *Statement of the Honorable John Marburger, III, Director of the Office of Science and Technology Policy*, 13 February 2000, <<http://www.house.gov/science/full02/feb13/marburger.htm>>.
- ² Eric Berger, "Cloudy Skies for Biomedical Research; Scientists Fret over Funding Cuts Just 4 Years after Budget was Doubled," *Star Edition*, 7 Sept. 2004, A1.
- ³ *Investing in Arizona's Future*, 7.
- ⁴ *Dee Ann Divis*, "Basic Research Funds Face Years of Cuts," *United Press International*, 28 July 2004.
- ⁵ *Jeff Nesmith*, "Innovation Being Squeezed from Federal Budget," *Cox News Service*, 14 May 2004.
- ⁶ Jeffrey Brainard and Anne Marie Borrego, "Bush Budget Offers Small Increases for Science, and Some Cuts," *The Chronicle of Higher Education*, 13 February 2004, 24.
- ⁷ Dave Goldston, "Rep. Boehlert to Address Universities Research Group in Washington," *SpaceRef.com*, 30 January 2001, <<http://www.spaceref.com/news/viewpr.html?pid=3712>>.
- ⁸ *Investing in Arizona's Future*, 12.
- ⁹ Richard M. Jones, "Dividing Up The S&T Portfolio: Remarks of Senator Domenici," *FYI: The AIP Bulletin of Science Policy News*, 18 March 2004, <<http://www.aip.org/fyi/2004/033.html>>.
- ¹⁰ Kevin Schweers, "Senator Hutchison Announces Leap in Federal Funding for Texas Universities," *Kay Bailey Hutchison Website*, 20 February 2003, <<http://hutchison.senate.gov/pr1433.htm>>.
- ¹¹ Lieberman, Joe, "Growing the Innovation Economy: A New Strategy for A New Prosperity [speech]," Remarks at University of California San Diego, 28 May 2003, <<http://www-irps.ucsd.edu/about/Speeches/lieberman.pdf>>.
- ¹² "Senate Approves Agriculture Funding," *Patty Murray's Washington View*, 7 November 2003, <<http://murray.senate.gov/news/031107-waview.pdf>>.
- ¹³ Pat Roberts, *Speech to the National Association of State Universities and Land-Grant Colleges (NASULGC)*, Washington, DC: NASULGC, 13 November 2001, <http://www.nasulgc.org/CRPGE/CRPGE%20AM%202001/AM2001_CRPGE_Sen_Roberts_spch.pdf>.
- ¹⁴ *Investing in Arizona's Future*, 12.
- ¹⁵ *Investing in Arizona's Future*, 12.
- ¹⁶ Lomi Kriel, "Republican physics lover likely for UT: U.S. Representative Lamar Smith advocates nanotechnology research," *Daily Texan Online*, 24 October 2003, <<http://www.dailytexanonline.com/news/2003/10/24/TopStories/Republican.Physics.Lover.Likely.For.Ut.U.Representative.Lamar.Smith.Advocates-538248.shtml>>.
- ¹⁷ *Investing in Arizona's Future*, 13.
- ¹⁸ Betsy Boyd, "Senator Ron Wyden Recognized as 'Champion of Science' at University of Oregon," *Science Blog*, 18 August 2003, <<http://www.scienceblog.com/community/older/archives/K/0/pub0603.html>>.
- ¹⁹ U.S. Commission on National Security/21st Century, *Road Map for National Security: Imperative for Change*, 15 February 2001, <<http://www.nssg.gov/PhaseIIIFR.pdf>>, ix.
- ²⁰ U.S. Commission on National Security/21st Century, ix.
- ²¹ U.S. Commission on National Security/21st Century, ix.

- ²² *Investing in Arizona's Future*, 12.
- ²³ Alan Greenspan, "Structural Change in the New Economy [speech]," *Federal Reserve*, 11 July 2000, <<http://www.Federalreserve.gov/boarddocs/speeches/2000/20000711.htm>>.
- ²⁴ Alan Greenspan, "Education [speech at the International Understanding Award Dinner, Institute of International Education, New York, New York]," *Federal Reserve*, 29 October 2002, <<http://www.Federalreserve.gov/boarddocs/speeches/2002/20021029/default.htm>>.
- ²⁵ Greenspan, "Structural Change."
- ²⁶ Greenspan, "Structural Change."
- ²⁷ Greenspan, "Structural Change."
- ²⁸ Greenspan, "Structural Change."
- ²⁹ Greenspan, "Structural Change."
- ³⁰ Greenspan, "Structural Change."
- ³¹ Greenspan, "Structural Change."
- ³² National Science Foundation, "NSF Survey of R&D Expenditures at Universities and Colleges, 1993-2002" *WebCASPAR*, 17 September 2004, <<http://webcaspar.gov>>.
- ³³ Daniel J. Evans and Booth Gardner, "Higher Ed Jeopardized by Ricketty Foundation," *Seattle Post-Intelligencer*, 12 January 2003.
- ³⁴ "Microsoft Research Faculty Summit: Fostering the Virtuous Cycle of University-Industry Partnership," *Microsoft.com*, 2 August 2004, <<http://www.microsoft.com/presspass/features/2004/Aug04/08-02FacultySummit.asp>>.
- ³⁵ Bill Gates, "Remarks by Bill Gates, Chairman and Chief Software Architect, Microsoft Corporation Microsoft Research Faculty Summit 2003 [speech]," *Microsoft.com*, 28 July 2003, <<http://www.microsoft.com/bill-gates/speeches/2003/07-28facultysummit.asp>>.
- ³⁶ "It's Academic: Microsoft Research Collaboration Projects Fuel Technology Innovation at Universities," *Microsoft.com*, 28 July 2003, <<http://www.microsoft.com/presspass/features/2003/jul03/07-28MSRCollaboration.asp>>.
- ³⁷ "Microsoft Research Faculty Summit."
- ³⁸ "It's Academic."
- ³⁹ Fyffe.
- ⁴⁰ "How Successful Companies Innovate," *Business and Finance*, 6 December 2001, 48.
- ⁴¹ Lefkowitz, 52.
- ⁴² *Going Global: The New Shape of American Innovation*, Washington, DC: Council on Competitiveness, September 1998, 2.
- ⁴³ "UMass, IBM Call for Academic—Industry Partnership to Drive Innovation," *IBM Investor Relations Press Room*, 14 April 2004, <<http://www.ibm.com/investor/press/apr-2004/14-04-04-2.phtml>>.
- ⁴⁴ Fyffe.
- ⁴⁵ Ross Perot, *The Dollar Crisis*, 2 July 1996, 133-134.

⁴⁶ "Innovative partnerships: Case Western Reserve University research event shows off possibilities for innovative entrepreneurs," *Inside Business*, April 2004, 34.

⁴⁷ Steven Fyffe, "Federal Funding Cuts Cause Electronics Brain Drain; Government research funding crisis endangers industry, SIA says," *Electronic News*, 30 April 2001, 4.

⁴⁸ Chappell Brown, "Universities seen as nurturing nanotech growth — Academe, not industry, will propel gains, Intel research chief says; asks more funds," *Electronic Engineering Times*, 15 March 2004, 10.

CHAPTER 7

¹ Rob Melnick, Rick Heffernon, and Nancy Welch, "Seeds of Prosperity: Public Investment in Science and Technology Research," *Morrison Institute for Public Policy*, 2003, 5.

² Michael M. Crow. *A New American University: The New Gold Standard* [policy paper]. Tempe, AZ: Arizona State University, 2002, 1.

³ Crow, 8.

⁴ Crow, 8.

⁵ Melnick, Heffernon, and Welch, 4.

⁶ Rick Heffernon, Nancy Welch, and Walter Valdivia, *New Returns on Investment in the Knowledge Economy: Proposition 301 at Arizona State University, FY 2003*. Tempe, AZ: Morrison Institute for Public Policy, 2003, 1.

⁷ Melnick, Heffernon, and Welch, 18.

⁸ Skip Derra, "AzBio's 'Design' Goes Way Beyond Biotech," *ASU Insight*, 19 September 2003, B1.

⁹ Gary Campbell, "ASU Plans Buildings, Strategy to Triple Research Capacity," *ASU Insight*, 19 September 2003, B1.

¹⁰ Heffernon, Welch, and Valdivia, 10.

¹¹ Melnick, Heffernon, and Welch, 9.

¹² Office of Public Affairs, Arizona State University, *Investing in Arizona's Future*, (Tempe, AZ: ASU, n.d.) 23.

¹³ *Investing in Arizona's Future*, 23.

¹⁴ *Agence France Presse*, "Californians to vote on 3-billion-dollar stem cell research initiative," Lexis-Nexis, 4 July 2004.

¹⁵ *Investing in Arizona's Future*, 23.

¹⁶ Oklahoma Medical Research Foundation, "Biomedical Research Initiatives in Other States," Oklahoma Medical Research Foundation, <http://www.omrf.org/OMRF/News_Releases/PresidentsNewsPage/BioMedicalA.asp> (accessed October 4, 2004).

¹⁷ *Investing in Arizona's Future*, 23.

¹⁸ *Investing in Arizona's Future*, 23.

¹⁹ Jacob Dipietre, "Governor Bush recommends \$20 million for additional Centers of Excellence," *Florida Department of Education*, 9 January 2004, <http://www.fldoe.org/news/2004/2004_01_09.asp>.

²⁰ Win Phillips, D.Sc. Vice President for Research, "Research and Economic Development at the University of Florida," *University of Florida*, 3. <http://www.fldoe.org/BOG/meetings/2003_12_03/Profile_UF.pdf>.

- ²¹ *Investing in Arizona's Future*, 24.
- ²² *Augusta Chronicle*, "State of the state address/Perdue tackles budget/schools," A01, Lexis-Nexis, 15 January 2004.
- ²³ *Investing in Arizona's Future*, 25.
- ²⁴ *Investing in Arizona's Future*, 26.
- ²⁵ *Investing in Arizona's Future*, 26.
- ²⁶ Lisa Eckelbecker, "UMass venture fund set; \$1M dedicated to tech projects," *Telegram & Gazette*, 7 February 2004, B6, Lexis-Nexis.
- ²⁷ *Investing in Arizona's Future*, 29.
- ²⁸ Jim McCartney, "Selling of biotech initiative to have new focus," *St. Paul Pioneer Press*, 20 January 2004, Lexis-Nexis.
- ²⁹ Associated Press State & Local Wire, "A look at proposed university bonding projects," 19 April 2004, Lexis-Nexis.
- ³⁰ Martin Van Der Werf, "Legislative leaders pitch bond proposal for life sciences at UM/\$190.4 million would help create new research centers," *The Post-Dispatch*, 30 December 2003, B1.
- ³¹ *Investing in Arizona's Future*, 30.
- ³² *Investing in Arizona's Future*, 30.
- ³³ New Jersey Commission on Higher Education, "*Higher Education Technology and Research: Creating Excellence Through State Investments*," March 2004, 1, <<http://www.state.nj.us/highereducation/TechReportMar04.pdf>>.
- ³⁴ Jennifer Kohlhepp, "Initiative encourages local tech sector growth, No. Brunswick one of three N.J. areas included in Innovation Zones." <http://nbs.gmnews.com/news/2004/0916/Front_Page/007.html>.
- ³⁵ *Higher Education Technology and Research: Creating Excellence through State Investments*, 33.
- ³⁶ *Higher Education Technology and Research: Creating Excellence through State Investments*, 15.
- ³⁷ The Albuquerque Tribune, *Voters Give to Schools*, The Associated Press, <http://www.abqtrib.com/archives/news02/110602_news_bonds.shtml> (accessed November 4, 2004).
- ³⁸ *Investing in Arizona's Future*, 32.
- ³⁹ *Investing in Arizona's Future*, 33
- ⁴⁰ *Investing in Arizona's Future*, 34.
- ⁴¹ *Investing in Arizona's Future*, 34.
- ⁴² The Ohio 3rd Frontier Project, <<http://www.thirdfrontier.com/overview.asp>>, accessed November 3, 2004.
- ⁴³ The Ohio 3rd Frontier Project.
- ⁴⁴ Maria Smith, *Johnson Unveils Innovation Ohio Loan Fund*, Ohio Department of Development, November 24, 2003, <<http://www.thirdfrontier.com/documents/11.24.03InnovationOhio.pdf>>.
- ⁴⁵ Ohio Department of Development, *InnOHvate*, September 2004, <<http://www.thirdfrontier.com/documents/innOHvate-0409-FINAL.pdf>>, accessed November 4, 2004.

⁴⁶ *The Journal Record*, "Research, training key to growth for Oklahoma's biotech sector," 27 October 2003, Lexis-Nexis.

⁴⁷ *Investing in Arizona's Future*, 35.

⁴⁸ Greg Bolt, "University of Oregon thinks small with big nanotechnology research center," *The Register Guard*, 26 April 2004, Lexis-Nexis.

⁴⁹ Bolt.

⁵⁰ Russ DeVol and Rob Koepp, *State Technology and Science Index: Enduring Lessons for the Intangible Economy*, (Santa Monica, CA: Milken Institute, 2004), 2.

⁵¹ *Investing in Arizona's Future*, 35.

⁵² Memphis Biotech Foundation, *The UT/Baptist Research Park*, <<http://www.memphisbiotech.org/page.cfm?pageid=81>> (accessed November 4, 2004).

⁵³ *Investing in Arizona's Future*, 36.

⁵⁴ *The News Tribune*, "Biotech industry is the big prize of the 21st century, state lawmakers should provide important incentives," 23 January 2004, B06.

CHAPTER 8

¹ John Clifton Moffit, *John Rocky Park in Utah's Frontier Culture*, n.p. 1947, 12.

² Ralph V. Chamberlain, *The University of Utah: A History of its First Hundred Years*, Salt Lake City, UT: University of Utah Press, 1960, 7.

³ University of Utah, "Deseret University: 1850-1892," University of Utah Sesquicentennial Exhibition, 2000, <<http://www.lib.utah.edu/150/01/index.html>>.

⁴ University of Utah, "Deseret University."

⁵ University of Utah, "The New U of U: 1892-1914," University of Utah Sesquicentennial Exhibition, 2000, <<http://www.lib.utah.edu/150/02/index.html>>.

⁶ A.J. Simmonds, *Pictures Past: A Centennial Celebration of Utah State University*, 1988, Logan, UT: Utah State University Press, 9.

⁷ Simmonds, 109.

⁸ Simmonds, 13.

⁹ Alan Kent Powell, "Dry Farming in Utah," *Utah History Encyclopedia*, 1994, <<http://www.media.utah.edu/UHE/d/DRYFARM.html>>.

¹⁰ Simmonds, 109.

¹¹ Alan Kent Powell, "Utah State University," *Utah History Encyclopedia*, 1994, <<http://www.media.utah.edu/UHE/u/UTAHSTATEUNIVERSITY.html>>.

¹² University of Utah, "Becoming a Research Center: 1973-1990," University of Utah Sesquicentennial Exhibition, 2000, <<http://www.lib.utah.edu/150/07/index.html>>.

¹³ Chamberlain, 538.

¹⁴ Simmonds, 83.

¹⁵ Simmonds, 83.

¹⁶ Simmonds, 119.

CHAPTER 9

¹ The Enterprise Special Report, "An Educated Workforce: The Key to a Strong Economy," 23 August 2004, 16.

² University of Utah, "University of Utah Facts," <<http://www.utah.edu/unews/facts/index.html>> (Accessed 5 October 2004).

³ Paul Brinkman, "U of U: A Center of Business Activity," The Enterprise Special Report, 23 August 2004, 1.

⁴ Ana Antunes, "Utah State Ranks in the Top 10 for Value," Utah State University, <<http://www.usu.edu/tuition/great-value.cfm>>.

⁵ Shinika A. Sykes, "Universities Saluted as Engines of Economy," The Salt Lake Tribune, 30 July 2004, B5.

⁶ Sykes.

⁷ The Enterprise Special Report, "Research at U of U Benefits Economy—And Day-to-Day Lives of Utahns," 23 August 2004, 11.

⁸ Jennifer J. Jones, "Funding Essential for Utah to Become a National Tech Player," The Enterprise Special Report, 23 August 2004, 18.

⁹ Michael Young, "Zions Bank Luncheon Remarks [speech]," 1 September 2004.

¹⁰ Office of the Vice President for Research, "Discovery and Creativity: 2003 Annual Report," University of Utah, 2003, <<http://www.research.utah.edu/annualreport.pdf>>.

¹¹ Office of the Vice President for Research.

¹² The Enterprise Special Report, "Entrepreneurial Spirit Thrives Among U of U Alumni," 23 August 2004, 14.

¹³ Space Dynamics Laboratory, "About SDL," <<http://www.sdl.usu.edu/about/>> (Accessed 8 October 2004.)

¹⁴ Utah State University College of Education, "Message from the Interim Dean, Carol J. Strong," <<http://www.coe.usu.edu/aboutus/message.htm>> (Accessed 8 October 2004).

¹⁵ Center for Persons with Disabilities, "What is the CPD?" <http://www.cpd.usu.edu/what_is_the_cpd.php> (Accessed 8 October 2004).

¹⁶ Young.

¹⁷ The Enterprise Special Report, "Technology Transfer: Turning Ideas into Profits," 23 August 2004, 13.

¹⁸ Office of the Vice President for Research.

¹⁹ Office of the Vice President for Research.