

Digital Arizona Program (DAP)

Broadband Grants & Resources Guide

For
**Arizona Strategic Enterprise
Technology Office (ASET)**

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Preface

Arizona's rural communities are now receiving Community Broadband Planning and Technical Assistance help from the Arizona Strategic Enterprise Technology Office (ASET - <http://aset.azdoa.gov/>) and its non-profit partner, the Arizona Telecommunications & Information Institute (ATI Institute - <http://aztii.org/>). They have qualified and approved a cadre of consultants who have been selected by regional government coalitions to provide strategic planning, technical assistance, and grant writing, e-commerce training and assistance across Arizona's rural areas. This forms the planning portion of a grant provided through the American Recovery and Reinvestment Act of 2009 (ARRA) and the Broadband Data Improvement Act (BDIA), and in conjunction with the National Telecommunications and Information Administration (NTIA) and the Federal Communications Commission (FCC).

This planning activity is being conducted in parallel with a mapping effort called the Arizona Broadband Assessment Project (AZ BAP), which is to identify both the availability and speed of broadband services, and the location of broadband infrastructure throughout Arizona, including middle mile infrastructure and Community Anchor Institutions (CAIs). These two activities are managed by ASET under the Arizona Department of Administration (ADOA) in partnership with the Arizona State Land Department (ASLD), contractor Data Site Consortium, Inc. and their GIS subcontractor, TerraSystems Southwest (TSSW).

The State of Arizona, through ASET, continues to define and develop an array of broadband policy and planning initiatives including a Digital Arizona Council (DAC) comprised of government, institutional, and private sector participants. The ASET team has involved many in the broadband provider community in discussing Arizona broadband deployment issues and working towards creative and effective solutions. There are six established DAC Task Forces. ASET has continued to evolve the Arizona Broadband Project Portal by hosting the Digital Arizona Program (DAP) content and resources at <http://www.digitalarizona.gov/> as a home base for DAC and this project as well as other broadband initiatives. The DAC is chaired by Aaron Sandeen, State CIO and ADOA Deputy Director. Five DAC Task Groups drafted initial recommendations that were further developed by the Strategic Planning Task Group into a draft Arizona Strategic Broadband Plan.

ASET and ATI Institute broadband grants supported the generation of this report by International Research Center (<http://www.researchedge.com/>) with a team lead by Mark Goldstein, President, and including Michael Cohen and Oris Friesen. Their efforts were facilitated by Brad Zerbe of B2G Solutions. Additional contributions to this guide were made by Bill Bolin of Systems Technology Staffing (STS).

Disclaimer: This report was produced by International Research Center, a research and consulting firm. None of the information in this report should be construed as official public policy of Arizona's regional government entities or the Arizona State government. However, funding to assist in producing this report came from a federal NTIA grant managed by an Arizona State agency.

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Broadband Grants Seekers Introduction

Grants can be thought of as “free money” given under government programs and by philanthropic and other non-profit organizations, or even business enterprises directly or through foundation arms. But that “free money” often takes a good bit of work to apply and qualify for, as well as to spend wisely and consistent with the grant expectations, processes and terms. It should become a productive partnership between the grantor and the grantee.

Good organization is vital to the success of any grant project. You need to be clear about the need and rationale for your project. At the very least, you need to address the five W’s (Who, What, Where, When, Why and How) in your discussions, correspondence, and application(s).

WHO will benefit? When the project is complete whose lives will be improved. Also, who is going to do the work and how will these people be selected? What criteria will be used to identify and select staff, contractors, and companies? How will responsibilities be delegated? What is the background and relevant experience of the primary personnel involved.

WHAT is the nature of the community? What will the project accomplish? What will success look like? What criteria define success and how will results be measured? What is the scope of work and how does it meet the goals of the funder? What is the total cost and what tangible and intangible return on investment (ROI) can the funding organization expect. The budget narrative is one of the most important parts of your proposal.

WHERE will the project take place? Where is the target location for the project?

WHEN will the project take place? What is the timeline and what are the milestones that define your timetable? When will the project begin and when will it be complete?

WHY are you doing the project? Why should the potential funding agency care and how does it relate to their objectives? How does it fit into their existing grant programs and direction? What impact will their giving a grant have on the target community and how will that impact be measured.

HOW are you going to allocate the money? How much will the project cost as well as how will it be allocated, spent, and accounted for? Is this seed money for a project with ongoing impact and a plan for sustainability or will the project activities terminate when funding expires? How will you complete activities within budget and on time? Are your cost estimates congruent with your budget and total available funding?

Project Planning for Grants

1. Summarize in one sentence your project's Goal and Objectives	<i>What will you do, where will it occur, who will do it, when will it start & end, how much will it cost, and most importantly, WHY?</i>
2. Who are you and who is your organization? What is your charter, mission or purpose?	<i>Organization name Location(s) History Mission Financial wherewithal and credibility</i>
3. What have you identified as "critical success factors?" How will this grant affect the state, regions, communities, stakeholders?	<i>What makes your proposal unique? What will be achieved? What are the success factors, milestones and metrics? Explain the direct impact and any indirect benefits</i>
4. Describe the specific need or issue that your Project plan proposes to achieve.	<i>Why is the issue important? Can statistics or surveys support your position? Does it respond to the grantor's Scope of Work? How does it relate to the state, region, community, stakeholders?</i>
5. What are the major action tasks that you must take to make the Project a success?	<i>What are the key deliverables? Prepare an Action Plan with schedule, dates, responsibilities, deliverables, and metrics Monitor and report on the results at certain milestone intervals</i>
6. Who are your Partners and Collaborators?	<i>What are your partner's vested interest, assigned responsibilities, and resource commitments? Have you prepared Letters of Engagement / Agreement(s) or Memorandums of Understanding? Who is the Fiscal Agent? Is the Fiscal Agent internal to your organization or outside?</i>
7. What tools, data resources, will you use to accomplish the Project's objectives?	<i>Pre-testing to see if the tools and costs are in line with the Project Have you developed Performance Measures? Will there be logs, timesheets, charts, write-ups, etc. to identify and report on results?</i>
8. What resources are required to accomplish the Goal?	<i>How many people and responsibilities are required? Will human resources be employees or contractors? What are the Operating Expenses? What are the Capital requirements? Are In Kind contributions required and how is that scaled and structured? Identify any additional funding resources.</i>
9. Total Cost of the Project	<i>What is the total cost of the Project? Budget: Salaries / Wages / Contracted Services Capital - software, hardware, connectivity, etc. Expenses - supplies, utilities, travel, shipping, etc.</i>
10. What does your Project produce that will make it so appealing to the Grantor?	<i>Use "key words" that are found in the Grant to meet specifics Respond to the "Issue Areas" Identify the "Target Groups" Create or complete a checklist of application elements and support documents</i>

Where to Begin

When writing a proposal, **have the project clearly defined** and be certain it fits with your organization. A common mistake is to simply look for money and then try to shoehorn a project that may not be a good fit. In the end, this practice can siphon energy from other projects and actually cost more money than you receive from the grant. Find appropriate sources for funding. Don't spin your wheels approaching funders whose goals don't correspond with yours. A few good places to begin are:

The Foundation Center was established in 1956 and today supported by close to 550 foundations, the Foundation Center is the leading source of information about philanthropy worldwide. Through data, analysis, and training, it connects people who want to change the world to the resources they need to succeed. The Center maintains the most comprehensive database on U.S. and, increasingly, global grantmakers and their grants — a robust, accessible knowledge bank for the sector. Foundation Center Coordinating Collections can be found in Arizona at:

1. Flagstaff: Flagstaff City / Coconino County Public Library
2. Prescott: Prescott Public Library
3. Phoenix: Phoenix Public Library
4. Tucson: Pima County Public Library
5. Yuma: Yuma County Library District
6. You can contact the Center directly at <http://www.foundationcenter.org/>

The Foundation Center also offers on-line subscriptions to their materials with plans ranging from \$19.95/month - \$195/year -to- \$179.95.month - \$1295/year

The **Arizona Community Foundation** (<http://www.azfoundation.org/>) awards millions of dollars each year to some 2,500 nonprofit organizations, educational institutions and government agencies in Arizona and across the country. Most of ACF's Competitive Grant Cycles are conducted online. To be eligible for competitive grant funding and to appear in the online Charitable Catalog, applying organizations must complete an online organizational profile and submit required documents, such as a current Form 990 and the IRS letter of determination.

The Federal government's **Grants.gov** (www.grants.gov). If you use this resource be sure to check the Federal Register for the exact grant application requirements.

You can also check with Federal Government agencies directly. Here are three that you may find particularly useful.

1. U.S. Department of Education: <http://www.ed.gov/>.
2. The U.S. Department of Agriculture: Offers grants for rural broadband development, telemedicine, distance learning, and other programs specifically for rural areas.
3. The U.S. Federal Communications Commission (FCC): <http://www.fcc.gov>. The FCC has a number of assistance programs and occasional grants for things like rural telemedicine.

After you have identified a potential source for funding you need to complete a grant application. This generally consists of four parts:

- Introduction
- Narrative
- Budget
- Formal documentation

The first rule of proposal writing is, give funders what they want. We all know that our project will do wonderful things for your community, there is tremendous need and your organization is in the perfect position to make life better. However, funders have many proposals to review and they want to know what they have determined is most important to them. Funders, particularly government agencies, may also have very specific technical requirements.

Every Federal grant application begins with a NOFA (Notice of Funds Availability). This notice will tell you who is eligible to apply and what requirements to meet. Requirements include such things as geographic and demographic requirements. For example, a NOFA may specify the percent of children eligible for school lunch programs that must be met before an application may be submitted for something that is completely unrelated.

A grant announcement and instructions may also specify page margins, font size, number of pages and other technical details. A grant application will be rejected if it does not meet all technical requirements. Remember to read the NOFA, request for proposal (RFP), and other instructions very carefully. Individual agencies often have additional requirements that do not appear in either the Federal Register or the NOFA.

Here are some required items that are common to most grant proposals.

1. D-U-N-S (Data Universal Number Systems) number. This is a number that is used for tracking when doing business with the Federal Government. It is provided free by Dun & Bradstreet. A link for applying for a DUNS number can be found at www.grants.gov. But before you apply for a DUNS number, check to make sure that your organization does not already have one.
2. E-I-N (Employer Identification Number) is like a social security number for businesses and nonprofit organizations. It is used to identify individual organizations for a great many purposes, including grant applications. You apply for one of these with the IRS (Internal Revenue Service) if your organization does not already have one.
3. The Federal Contractor Registry (FCR) is a third-party registration assistance service that was created to address the needs of businesses looking to do business with federal, state and local governments. By handling the time-consuming and highly detailed task of System for Award Management registration (formerly CCR Registration and ORCA Certification legacy systems), FCR can help make sure that your company, as a federal contractor, is in a position to take advantage of the government's ongoing commitment to the small business community. For information and to initiate a new application go to <http://www.federalcontractorregistry.com/> or call 1-800-985-7658.
4. The website <http://www.grants.gov/> is not just a place to search for government grants. A subscription (free) can get you regular grant announcements from agencies that offer grants in your areas of interest. It can also be used for some applications and downloading application materials. AOR (Authorized Organization Representative) and POC (Point of Contact) enable your organization to conduct normal business and grant related transactions

with the Federal Government. You can register at http://www.grants.gov/applicants/org_step5.jsp. The checklist for registration is available at <http://www.hud.gov/offices/adm/grants/egrants/grantsgovchklist.doc>

Now let's take a moment to see how most grant proposals are organized. Just about all Federal grant applications are scored with each section receiving a certain number of points. Since the actual number of points in each section and the required number of pages varies with different grants and projects we will not attempt to identify which sections get how many points. Moreover, since Federal grants are VERY competitive all of the sections are important and none should be neglected. Just think how you would feel if your application lost by five points that you could have gotten if you had paid more attention to some section that only carried twenty points.

Please note that many grants carry extra points for serving specific populations, institutions, or geographic areas. If you can address these criteria you can sometimes place your proposal ahead of one that may even be better written.

1. The first step is to write a "statement of need." This part should answer the questions: Why do you need the money? and Who will benefit from this grant? This section also provides an opportunity to assure the funder that the grant will meet their objectives and justify their provision of funds and resources to help you be successful. It also allows you to show how the constituency to be served will be involved in the planning and execution of the project.
2. The next step is the project design and evaluation. Here is where you can talk about how you are going to use the grant money. What sort of plan do you have to manage the money? Are you including partners who are actively collaborating in the management of your project? How will the activities supported by the grant address the problems identified in your needs statement? Will the project and/or its impact continue after funding expires? How will this happen? What are the short term and long term impacts of your project? This is where you should show that your management staff are capable, that you have effective accounting and reporting procedures and that you have quantifiable and verifiable criteria for success which you will report periodically throughout the project and in a comprehensive evaluation at the end.
3. Capability of Applicant. Have you had other grants? Do you have a grant now? How long has your organization existed? What experience do you have with this type of undertaking? Are your resources sufficient to implement the project successfully? What outcomes have you experienced in the past with projects of this kind? Is your Board of Directors a working Board? How will they be participating in the project? What segments of your proposed constituency do they represent? What data, statistics, or benchmarks will you use to measure your performance? How flexible is your organization? How will your organization respond to changes on the ground during the grant period?
4. Budget. Will you have enough to complete all parts of the project? Do you have enough of a cash or in-kind match to do everything you are promising in your proposal? Have you allocated enough money in each key area? What are the percentages of your match? What are the percentages for each type of match? Where are these matches coming from (partners, internal cash match from your organization, match from other local sources)?

Once you have answered the above questions, you are ready to construct a grant proposal. As mentioned above, each grant has its own criteria, so it is important to be informed about the opportunities that exist.

A Checklist

When applying for grants there are some basic things to remember.

- A. Make sure your proposal is not late. Late proposals are usually disqualified.
- B. Make sure you have available your DUNS, EIN, TAX ID, System for Award Management (SAM) registration (formerly CCR and ORCA legacy systems).and all other appropriate numbers.
- C. Make sure you have filled out the necessary forms.
- D. Make sure the forms comply with the stated guidelines of the Grant.
- E. Make sure you are abiding by copyrights and credits. Check to see if copyright of materials is required, and who is responsible for obtaining.
- F. Always have a backup plan and know of other resources and know how much you can actually accomplish if the amount of the grant is reduced.

Your proposal should include:

- 1. A statement of how the project(s) fit the guidelines and intent of the Grant.
- 2. A list of categories of costs to reflect the items the funding can cover. In some cases, only actual costs are allowed. Describe how you will keep accurate records of expenditures along with receipts, in-kind and any match dollars.
- 3. The required number of application copies. If the grantee asks for 1 original and 5 copies, you must provide. Often times this means delivery of hard-copies.
- 4. An assessment of the required payment procedures, schedules and partial payment schedules. Progress reports are often due within billing cycles. Make sure the resources are available to meet the demands of administering the grant.

The next section will introduce you to a number of funding organizations available to Arizona citizens, businesses, organizations, and regional government agencies and entities.

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State of Arizona Grant Opportunities

There are numerous organizations within the State of Arizona that provide grant opportunities. Although many offer funding in areas other than broadband, we will focus on those that include broadband in their portfolio.

Arizona Strategic Enterprise Technology Office (ASET) - <http://aset.azdoa.gov/>

ASET, a division of the Arizona Department of Administration (ADOA), has created the Digital Arizona Program (DAP) to facilitate better broadband in Arizona, which in turn will expedite our economic recovery, transform our lives, and become a model for other States.

Arizona's rural communities are now receiving Community Broadband Planning and Technical Assistance help. ASET and its non-profit partner, the Arizona Telecommunications & Information Institute (ATI Institute - <http://aztii.org/>), have qualified and approved a cadre of consultants who have been selected by regional government coalitions to provide strategic planning, technical assistance, and grant writing, e-commerce training and assistance across Arizona's rural areas.

AZ: Digital Arizona Program - <http://digitalarizona.gov/>

Digital Arizona Council (DAC) -

http://www.digitalarizona.gov/Digital_Arizona_Council/About_DAC.html

Task Groups -

http://www.digitalarizona.gov/Digital_Arizona_Council/Task_Groups.html

Strategic Plan Draft-

http://www.digitalarizona.gov/Digital_Arizona_Council/Strategy.html

Arizona Broadband Map - <http://broadbandmap.az.gov/map/>

Arizona Broadband Map (Policy) -

<http://broadbandmap.az.gov/CommunityPlanningMap/>

Planning Help - <http://broadbandmap.az.gov/HelpPlanning/index.htm>

Arizona Telecommunications & Information Institute (ATI Institute) - <http://aztii.org/>

ATI Institute is dedicated to supporting and promoting initiatives in the area of advanced telecommunications and information infrastructure that lead to effective deployment and availability of innovative and state-of-the-art broadband services and information technologies for the entire Arizona community.

Broadband Technical Assistance - http://aztii.org/broadband_consultants.html

Public Sector Services -

http://aztii.org/public_sector_services.html#Optional_Public_Sector_Services

Arizona Governor's Office - <http://www.azgovernor.gov/>

Reporting directly to the Governor, the Arizona Ready Education Council is in charge of developing and utilizing an online "report card" to review the performance of Arizona students and coordinate efforts to improve achievement. Additionally, a series of high-profile state goals have been established for 2020, including increasing to 94 percent, up from 73 percent, the number of 3rd graders reading at or near grade level; increasing the high school graduation rate to 93 percent, up from 75 percent; and doubling the number of baccalaureate degrees issued by Arizona institutions of higher education.

Governor's Arizona Ready Education Council - <http://www.arizonaready.com/> & <http://azgovernor.gov/AzReady/>

Arizona Department of Education - <http://www.azed.gov/>

The Arizona Department of Education (ADE) has a real need for broadband and is focused on building a strong technology infrastructure. According to the Superintendent the minimum speed that is needed to support ADE's transformational plans, including uninterrupted video communication and streaming and rapid downloads of educational content whether a student is at home or at school, is 6 Megabits per second per student.

The Partnership for Assessment of Readiness for College and Careers (PARCC) is a consortium of states working together to develop a common set of K-12 assessments in English and math anchored in what it takes to be ready for college. Minimum bandwidth requirements will be determined based on the final selection of the PARCC assessment delivery platform and the level of multimedia and technology enhanced items in the final assessment design. PARCC will provide minimum specifications by October 2013.

Arizona Ready - <http://arizonaready.com/>

Educational Technology Group - <http://www.azed.gov/educational-technology/>

E-Rate - <http://www.azed.gov/educational-technology/e-rate/>

Technology Plans - <http://www.azed.gov/educational-technology/technology-plans/>

Multimedia Resource Links - <http://www.azed.gov/educational-technology/2011/09/14/multimedia-resource-links/>

Information Technology - <http://www.azed.gov/information-technology/>

Arizona's Common Core Standards - <http://www.azed.gov/standards-practices/common-core-state-standards/>

Resources and Tools - <http://www.azed.gov/standards-practices/resources-and-tools/>

Research and Evaluation Division - <http://www.azed.gov/research-evaluation/>

State Report Cards - <http://www.azed.gov/research-evaluation/report-cards/>

School and District Report Cards - <http://www10.ade.az.gov/ReportCard/>

Indian Education - <http://www.azed.gov/indian-education/>

Arizona State Library, Archives and Public Records - <http://azlibrary.gov/>

The Arizona State Library, Archives and Public Records Division serves the Arizona Legislature and Arizonans, providing public access to public information, fostering historical/cultural collaborative research, information projects and ensuring that Arizona's history is documented and preserved. Consultant services are offered to public libraries to strengthen county and local library services, and to government agencies of the cities, counties, and state to assist them in the management of official records. State grants for public libraries and other authorized services are administered and monitored. Special library and information services are offered for anyone who is unable to read or use standard printed materials as a result of temporary or permanent visual or physical limitations.

E-Rate Resources - <http://azlibrary.gov/erate/>

Library Services and Technology Act (LSTA) in Arizona - <http://azlibrary.gov/lsta/>

Digital Government Information Initiatives - <http://azlibrary.gov/diggovt/index.aspx>

Arizona Tribal Library Resources - <http://azlibrary.gov/extension/tribal.aspx>

Arizona Memory Project - <http://azmemory.azlibrary.gov/cdm/>

Statewide Access to Databases - <http://azlibrary.gov/extension/statewidedb.aspx>

Tools for Tough Times - <http://www.azlibrary.gov/about/helpinfo.aspx>

Arizona Department of Homeland Security - <http://www.azdohs.gov/>

The Arizona Department of Homeland Security provides up-to-date information on homeland security and preparedness efforts across the state. This central source includes: News about the federal homeland security grant program and timelines for first responder agencies, public safety officials, emergency managers and other stakeholders who receive federal homeland security funding through the U.S. Department of Homeland Security's State Homeland Security Grant Program; Tips for protecting your home, family and business to prepare for and respond to emergency situations; The latest travel advisories and other homeland security-related information.

Arizona Commerce Authority (ACA) - <http://www.azcommerce.com/>

The Arizona Department of Commerce (ACA) is a public-private entity. It is guided by a 31-member Board of Directors consisting of leaders in both the public and private sectors. The ACA was formed in 2010 to infuse the collective strengths and passion of the private sector with the powers and possibilities found in the Legislative and Executive branches of our state government. It essentially took over many of the functions previously performed by the Department of Commerce.

Arizona Commerce Authority Incentives

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Visit the incentives page of the ACA website (<http://www.azcommerce.com/incentives/aca/>) for a complete list of funding opportunities in Arizona.

Angel Investment Tax Credit Program - <http://www.azcommerce.com/angel-investment/>

This program offers an Arizona income tax credit to "qualified investors" who invest in early-state "qualified small businesses." The income tax credit is equal to 30% of the investment amount, increasing to 35% for investments in "bioscience enterprises" and in companies located in rural Arizona.

Deadline: Year Round

Job Training Program - <http://www.azcommerce.com/job-training/>

This program offers job specific reimbursable grants for employers creating new jobs or increasing the skill and wage level of their current employees.

Deadline: Year Round

Quality Jobs Tax Credit Program - <http://www.azcommerce.com/quality-jobs/>

This program provides Arizona income tax credits for companies creating new jobs and investing in Arizona. The credit is valued at up to \$9,000 over a 3-year period per each new employee and offers a 5-year carry forward provision for any unused tax credits. Eligibility qualifications are different for rural and metro areas.

Deadline: Year Round

Renewable Energy Tax Incentive Program - <http://www.azcommerce.com/renewable-energy-tax-incentive/>

This program offers a refundable income tax credit and property tax reduction to companies in solar, wind, geothermal and other renewable energy industries who are expanding or locating a manufacturing or headquarters operation in Arizona. The tax credit is up to 10% of the total qualified investment amount and the property tax benefit can reduce a company's property taxes by up to 75%.

Deadline: Year Round

Research and Development Tax Credit - <http://www.azcommerce.com/research-development/>

This is an Arizona income tax credit for increased research and development activities conducted in this state. Starting in 2010, a qualifying company may be eligible to claim a partial refund of its current year excess R&D credit. Applicants may apply at the end of their tax year but prior to filing a tax return with Revenue.

Deadline: Year Round

Small Business Innovation Research (Arizona Innovation Challenge) - <http://www.azinnovationchallenge.com/>

The Small Business Innovation Research program is administered by the Arizona Commerce Authority and is called the Arizona Innovation Challenge. All companies must fit into one of the following industries: Advanced Materials, Advanced Manufacturing, Aerospace-Defense, Bio-Life Sciences, Clean Tech-Renewable Energy or Information Technology. Awards range from \$100,000 to \$250,000 per company. Some of the criteria for applicants are that they involve innovative technology or scientific solutions to a marketplace issue(s) in an industry; are an existing, for-profit corporate entity; have between 2 and 30 employees; have less than

\$10,000,000 in net assets and preferably be located within Arizona. An application is available at: <http://www.azinnovationchallenge.com/apply/application>

A similar program is operated by the Federal Government under the auspices of the Department of Homeland Security as the Small Business Innovation Research Program (SBIR). More information about this program can be found at: <https://sbir2.st.dhs.gov/portal/SBIR/>.

Arizona STEP Grant - Cash assistance to help develop international exports. -
<http://www.azcommerce.com/az-step-grant/>

With funding under a grant from the U.S. Small Business Administration (SBA) and matching funds contributed by the Arizona Commerce Authority (ACA), ACA has launched Arizona's State Trade and Export Promotion (STEP) program which will be undertaken with public and private sector partners in Arizona. The STEP program will assist Arizona small businesses (defined as those with less than 500 employees) to enter export markets for the very first time or to expand into new markets. This will enable these businesses (which account for 98% of the businesses in Arizona) to increase their revenues via international sales and to thereby be even more significant engines for job creation and economic growth in Arizona.

Job Training Program - <http://www.azcommerce.com/job-training/>

75% eligible training expenses for net new employees, 50% for incumbent job training. The Arizona Job Training Program is a job-specific reimbursable grant program that supports the design and delivery of customized training plans for employers creating new jobs or increasing the skill and wage levels of current employees.

Under a "Net New Grant" an employer creating new jobs can apply for a grant to receive up to 75% of their eligible training expenses reimbursed.

Under the "Incumbent Grant" an employer seeking to supplement their current training plan and increase the skill level of their employees may apply for a grant to receive up to 50% of their eligible training expenses reimbursed.

Quality Jobs Program - <http://www.azcommerce.com/quality-jobs/>

This program offers a tax credit up to \$9,000 per new qualified employee over 3 year period.

Research & Development - <http://www.azcommerce.com/research-development/>

This program offers a tax credit up to 24% new R&D, \$600,000 plus 15% of expenses in excess of \$2.5M, 34% of expenses if in conjunction with AZ public university and 75% of excess tax credit can be refunded to small businesses.

Small Business Capital Investment Tax Credit (Angel Investment) -
<http://es.azcommerce.com/angelinvestment.aspx>

This program provides a tax credit up to 35% of investment over 3 years. Elimination of capital gains tax on income from investment in certified companies.

Arizona's FAST Grant - <http://www.azcommerce.com/az-fast-grant/>

AZ Fast Grant Enables Arizona-based technology companies to initiate the commercialization process. The grant will pay up to \$7,500 to provide one or more of select professional consulting services.

Other Arizona Resources can be found at - <http://www.azcommerce.com/incentives/>

Science Foundation of Arizona (SFAz - <http://www.sfaz.org/>)

The Science Foundation of Arizona (SFAz - <http://www.sfaz.org/>) was founded in 2006, and is a 501(c)(3), public/private non-profit organization created from the collaboration of three Arizona CEO business organizations - Greater Phoenix Leadership, Southern Arizona Leadership, and the Flagstaff 40. SFAz sponsors a number of Grants that are funded on a competitive basis and judged by national experts. The evaluation and selection process is governed by Requests For Proposals (RFPs). The following programs are administered by SFAz, which brings together businesses and researchers to generate tangible economic benefits for Arizonans.

Bisgrove Post-doctoral Scholars Program (Bisgrove) -

SFAz has initiated a new program for the recruitment and mentoring of top-tier, post-doctoral scientists and engineers in Arizona. This program is in recognition of businessman and philanthropist, Mr. Jerry Bisgrove, who made a \$25 million donation to SFAz in 2007 to help create a stronger culture for science and engineering entrepreneurship in Arizona.

SFAz Graduate Research Fellowship Program -

The program is offered to attract and support the very best graduate students to qualifying research performing institutions in order to advance the competitive research capacity in science, engineering and biomedical research in Arizona.

Small Business Catalytics -

Seed Funding that SFAz provides to Arizona's researchers is intended to act as a catalyst for technology development and company formation. Product Accelerator funding is intended for funding of an R&D partnership between a principal investigator (PI) at one of Arizona's RPIs and an Arizona company (including RPI spin-outs) at a critical phase in the product development cycle that requires a joint research effort between the PI and company to ensure a products success and accelerate its time to market.

Competitive Advantage Award -

This award is offered to support outstanding Arizona researchers in three strategic areas: Sustainable Systems (SUS), Information Communication Technologies (ICT), and Biosciences (BIO).

Strategic Research Groups (SRG) awards -

The SRG will invest in awards which facilitate the collaboration of outstanding researchers at Arizona's Research Performing Institutions (RPIs) with industry in order to cultivate strong partnerships that will inform and enhance the State's existing research programs, help attract and retain new industry research to Arizona, and create both research and economic advantages for the partners and consequently, for Arizona.

K - 12 Discovery and Innovation Programs -

This program makes K-12 investments in 2008 in three complementary areas to advance education in science, technology, engineering and mathematics (STEM): (1) Institutes focus on building STEM skill sets essential for entering the workforce; (2) Centers focus on recruiting, training and retaining teachers; and (3) Programs focus on motivating students and teachers through innovative partnerships and practices.

Arizona Corporation Commission (ACC) - <http://www.azcc.gov/>

The National Broadband Plan (NBP), drafted by the Federal Communication Commission and released in 2010, seeks to provide all Americans with affordable broadband Internet access. It proposes to transform the Universal Service Fund - a subsidy program that spends \$8.7 billion every year to develop infrastructure and improve affordability for telephone service - into a program that would do the same for broadband Internet.

The Arizona Corporation Commission (ACC) is established via Article 15 of the Arizona Constitution with elected Commissioners and has responsibilities that go beyond traditional public utilities regulation including regulation of telephone services, facilitating the incorporation of businesses and organizations, securities regulation, and railroad/pipeline safety. By virtue of the Arizona Constitution, the Commissioners function in an Executive capacity, they adopt rules and regulations thereby functioning in a Legislative capacity, and they also act in a Judicial capacity sitting as a tribunal and making decisions in contested matters.

The ACC has considered expanding the Arizona Universal Service Fund (AUSF) to include broadband services as opposed to telephone services. See http://www.azruco.gov/ausf/johnson_direct.pdf. Because the ACC is open to someone demonstrating a clear need for the ACC to act; there exists an opportunity for consigning AUSF funds for digital buildout for Arizona's schools through the Education eRate Office at ADOA with input from important stakeholders. In order to repurpose the fund in part to specifically support broadband deployment in poorly served areas or funding for other purposes, such changes would have to be proposed to the Commission as part of a new rulemaking proceeding, and the Commission would have to approve a rulemaking package to go through the normal rulemaking process for adoption. This remains an open issue.

Utilities Division - <http://www.azcc.gov/Divisions/Utilities/>

Telephone - <http://www.azcc.gov/divisions/utilities/telecom.asp>

Telecommunications Industry Page -
<http://www.azcc.gov/divisions/utilities/telecom/industry.asp>

Arizona Universal Service Fund (AUSF) -
<http://www.azcc.gov/divisions/utilities/telecom/ausf-faqs.asp>

Telecommunications Rules -
http://www.azsos.gov/public_services/Title_14/14-02.htm#ARTICLE_5

Arizona Telemedicine Program (ATP) - <http://www.telemedicine.arizona.edu/>

The Arizona Telemedicine Program was created in 1996 to oversee and coordinate telemedicine clinical, education, research and telecommunications programs, as well as to operate the Arizona Telemedicine Network. The Arizona Telemedicine Program (ATP) network is primarily devoted to improving access to specialized medical care throughout the State of Arizona through the use of telemedicine technologies such as digital imaging and real-time video conferencing.

Arizona Telemedicine Council - <http://www.telemedicine.arizona.edu/atc.cfm>

Arizona Telemedicine Network - <http://www.telemedicine.arizona.edu/network.cfm>

Southwest Telehealth Resource Center (SWTRC) - <http://www.southwesttrc.org/>

Arizona Grantmakers Forum (AGF) - <http://www.arizonagrantmakersforum.org/>

The Arizona Grantmakers Forum (AGF) is a regional association that provides a myriad of services including educational resources, research and networking opportunities for grantmakers in Arizona. Its mission is to increase, enhance and improve philanthropy in Arizona. AGF offers programs and services designed to increase knowledge and understanding about charitable giving.

Resources - <http://www.arizonagrantmakersforum.org/resources/resources.aspx>

Nonprofits Resources -

<http://www.arizonagrantmakersforum.org/resources/ForNonprofits.aspx>

Digital Arizona Program (DAP)

Broadband Grants & Resources Guide

Federal Government Grant Opportunities

General Federal Grant Sources

As mentioned earlier there are many federal organizations that provide grant opportunities. Many offer funding in general areas that include but are not limited to broadband. Some are listed below.

USA.gov - <http://www.usa.gov/>

Citizen Services - <http://www.usa.gov/Citizen/Services.shtml>

Government Benefits, Grants, and Financial Aid - <http://www.usa.gov/Citizen/Topics/Benefits.shtml>

Benefits.gov - <http://www.benefits.gov/>

National Science Foundation - www.nsf.gov

Enhancing Access to the Radio Spectrum (EARS) -

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503480&org=NSF&sel_org=NSF&from=fund

NSF seeks to help reach the nation's broadband goals and the larger objective of alleviating growing pressure on limited spectrum resources. Innovative approaches, technologies, and policies will be required to enable more flexible and efficient access to the radio spectrum.

Technology Innovation Program (TIP) - <http://www.nist.gov/tip/>

The Technology Innovation Program (TIP) supports, promotes, and accelerates innovation in the United States through high-risk, high-reward research in areas of critical national need. TIP has the agility and flexibility to make targeted investments in transformational R&D that will ensure our nation's future through sustained technological leadership.

Department of Energy - <http://www.eere.energy.gov/>

This division has oversight of Renewable Electricity Generation; Energy-Saving Homes, Buildings, and Manufacturing; and Sustainable Transportation.

US Army - <http://www.army.mil/>

Dual Use Science & Technology Program -

http://www.redstone.army.mil/amrdec/io/dust_purpose.html

The purpose is to increase the pace at which commercial technological improvements are incorporated into defense systems and reduce the cost of military systems.

Federal Government Grant Opportunities

U.S. Department of Agriculture (USDA) Rural Utility Services (RUS)

USDA Rural Development is the leading advocate for rural America. The mission area supports rural communities and enhances quality of life for rural residents by improving economic opportunities, community infrastructure, environmental health, and the sustainability of agricultural production. Below are some programs that specifically target telecommunications and broadband.

Rural Business Enterprise Grants <http://www.rurdev.usda.gov/>

Telecommunications Loans and Grants -
http://www.rurdev.usda.gov/UTP_Programs.html

USDA Rural Development continues to provide many programs for financing rural America's telecommunications infrastructure. The Traditional Telephone Loan program consists of hardship, cost of money, and guaranteed loans that finance voice telephone service. The Broadband Access Loan program provides loans for funding the costs of construction, improvement, and acquisition of facilities to provide broadband service to eligible rural communities. The Distance Learning and Telemedicine program continues its charge of bringing electronic educational resources to rural schools and improving health care delivery in rural America. Lastly, the Community Connect Grant program provides financial assistance to eligible applicants that will provide currently unserved areas with broadband service that fosters economic growth and public safety services.

Telecommunications Infrastructure Loan Program -
http://www.rurdev.usda.gov/utp_infrastructure.html

The Telecommunications Infrastructure Loan Program makes Long-term direct and guaranteed loans to qualified organizations for the purpose of financing the improvement, expansion, construction, acquisition, and operation of telephone lines, facilities, or systems to furnish and improve Telecommunications service in rural areas. All facilities financed must be capable of supporting broadband services. It has recently been expanded to cover funding for E911 service. The loans are to improve and build telecommunications service in rural communities (<5,000 population)

Community Connect Grants - http://www.rurdev.usda.gov/utp_commconnect.html

The Community-Oriented Connectivity Broadband Grant ("Community Connect") Program serves rural communities where broadband service is least likely to be available, but where it can make a tremendous difference in the quality of life for citizens. The projects funded by these grants will help rural residents tap into the enormous potential of the Internet. These grants are for broadband service providers and others who offer broadband services in rural and remote areas (<20,000 population).

Distance Learning and Telemedicine Program (DLT) -
http://www.rurdev.usda.gov/UTP_DLT.html

The Distance Learning and Telemedicine Loan and Grant Program (DLT) is designed specifically to meet the educational and health care needs of rural America. Through loans,

grants and loan/grant combinations, advanced telecommunications technologies provide enhanced learning and health care opportunities for rural residents. It focuses on loans and grants for providing Distance Learning and Telemedicine services to rural residents and anchor institutions

Farm Bill Broadband Program - http://www.rurdev.usda.gov/utp_farmbill.html

This program is designed to provide loans for funding, on a technology neutral basis, for the costs of construction, improvement, and acquisition of facilities and equipment to provide broadband service to eligible rural communities.

Below are some other programs that are related to rural development in general but are not broadband specific.

Business Loans and Grants - <http://www.rurdev.usda.gov/BCP-LoanAndGrants.html>

The Business Program (BP) works in partnership with the private sector and the community-based organizations to provide financial assistance and business planning. BP helps fund projects that create or preserve quality jobs and/or promote a clean rural environment. The financial resources of BP are often leveraged with those of other public and private credit source lenders to meet business and credit needs in under-served areas. Recipients of these programs may include individuals, corporations, partnerships, cooperatives, public bodies, nonprofit corporations, Indian tribes, and private companies.

Cooperative Grants and Other Programs - <http://www.rurdev.usda.gov/cphome.html>

The mission of Cooperative Program (CP) is to promote understanding and use of the cooperative form of business as a viable organizational option for marketing and distributing agricultural products. CP serve cooperative members, directors, management, educational institutions, organizations, rural residents, and all others with an interest in the cooperative form of business. CP strive to assist them to effectively use cooperatives to improve their economic well-being and quality of life.

Single Family Housing Loans and Grants - http://www.rurdev.usda.gov/HSF_SFH.html

Single Family Housing Programs provide homeownership opportunities to low- and moderate-income rural Americans through several loan, grant, and loan guarantee programs. The programs also make funding available to individuals to finance vital improvements necessary to make their homes decent, safe, and sanitary.

Multi Family Housing Loans and Grants - http://www.rurdev.usda.gov/HMF_MFH.html

Multi-Family Housing Programs offer Rural Rental Housing Loans to provide affordable multi-family rental housing for very low-, low-, and moderate-income families; the elderly; and persons with disabilities. This is primarily a direct mortgage program, but funds may also be used to buy and improve land and to provide necessary facilities such as water and waste disposal systems. In addition, deep subsidy rental assistance is available to eligible families.

Community Facilities Loans and Grants - http://www.rurdev.usda.gov/HCF_CF.html

Community Programs provide loans and grants and loan guarantees for water and environmental projects, as well as community facilities projects. Water and environmental projects include water systems, waste systems, solid waste, and storm drainage facilities. Community facilities projects develop essential community facilities for public use in rural areas and may include hospitals, fire protection, safety, as well as many other community-

based initiatives.

Electric Loans and Grants - http://www.rurdev.usda.gov/UEP_Loans_Grants.html

Providing reliable, affordable electricity is essential to the economic well-being and quality of life for all of the nation's rural residents. The Electric Programs provide leadership and capital to upgrade, expand, maintain, and replace America's vast rural electric infrastructure. Under the authority of the Rural Electrification Act of 1936, the Electric Programs make direct loans and loan guarantees to electric utilities to serve customers in rural areas.

Water Loans and Grants - http://www.rurdev.usda.gov/UWEP_HomePage.html

Water and Environmental Programs (WEP) provides loans, grants and loan guarantees for drinking water, sanitary sewer, solid waste and storm drainage facilities in rural areas and cities and towns of 10,000 or less. Public bodies, non-profit organizations and recognized Indian tribes may qualify for assistance. WEP also makes grants to nonprofit organizations to provide technical assistance and training to assist rural communities with their water, wastewater, and solid waste problems.

Community and Economic Development Programs - http://www.rurdev.usda.gov/LP_EconDevHome.html

The CEDP administers programs and initiative that promote self-sustaining, long-term economic and regional development in rural areas. The programs demonstrate how every rural community can achieve self-sufficiency through innovative and comprehensive strategic plans developed and implemented at a grassroots level. The programs stress continued local involvement and decision making which is supported by partnerships among private, public and nonprofit entities.

Rural Utility Service Grant - http://www.rurdev.usda.gov/Utilities_Assistance.html

Utility services are the foundation of rural infrastructure. Reliable and affordable water, waste treatment, electric power and telecommunications services can help rural areas expand economic opportunities and improve the quality of life for rural residents. USDA Rural Development provides funding opportunities in the form of payments, grants, loans, and loan guarantees, for the development and commercialization of vital utility services. These programs revitalize rural communities with a variety of infrastructure improvements, and create sustainable opportunities for wealth, new jobs, and increased economic activity in rural America.

Intermediary Relending Program (IRP) Revolving Loan Fund - http://www.rurdev.usda.gov/bcp_irp.html

The purpose of the IRP program is to alleviate poverty and increase economic activity and employment in rural communities. Under the IRP program, loans are provided to local organizations (intermediaries) for the establishment of revolving loan funds. These revolving loan funds are used to assist with financing business and economic development activity to create or retain jobs in disadvantaged and remote communities. Intermediaries are encouraged to work in concert with State and regional strategies, and in partnership with other public and private organizations that can provide complimentary resources.

Rural Business Opportunity Grant (RBOG) - http://www.rurdev.usda.gov/BCP_RBOG.html

The primary objective of the RBOG program is to promote sustainable economic

development in rural communities with exceptional needs. Grants are awarded on a competitive basis.

Rural Business Enterprise Grant (RBEG) -

http://www.usda.gov/wps/portal/usda/usdahome?contentid=kyf_grants_rd6_content.html

The RBEG program funds projects that facilitate the development of small and emerging rural businesses, distance learning networks, and employment-related adult education programs.

Rural Economic Development Grant (REDG) -

http://www.usda.gov/wps/portal/usda/usdahome?navtype=SU&navid=RURAL_DEVELOPMENT

Requires a community-oriented utility coop willing to apply on the project's behalf. Revolving loan that could be used to offset broadband infrastructure costs.

Federal Government Grant Opportunities

Federal Communications Commission (FCC)

Broadband USA - <http://www.broadbandusa.gov/>

Broadband.gov Plan Site - <http://www.broadband.gov/plan/>

Broadband Opportunities for Rural America - http://wireless.fcc.gov/outreach/index.htm?job=broadband_home

Connecting America Fund - <http://www.fcc.gov/encyclopedia/connecting-america>

The FCC also offers grants for some broadband projects. Below are a couple of recent offerings.

eRate

The program is administered by the Universal Service Administrative Company, or USAC. Support for Broadband Services in Schools and Libraries

The FCC is working to bring every school in America into the information age. The Schools and Libraries Universal Service program, commonly known as the “E-Rate” program, was established as part of the Telecommunications Act of 1996 to provide affordable telecommunications services for all eligible schools and libraries, especially those in rural and economically disadvantaged areas.

The level of discount is based on a school's or library's level of economic disadvantage and its location. Facilities in rural areas higher discounts in certain instances than their urban counterparts. The program is administered by the Schools and Libraries Division of USAC under the direction of the FCC.

Universal Service Administrative Company (USAC) - <http://www.usac.org/>

Schools and Libraries Program (E-Rate) - <http://www.usac.org/sl/>

Eligible Services List 2013 -

http://www.usac.org/res/documents/sl/pdf/ESL_archive/EligibleServicesList-2013.pdf

Rural Health Care - <http://www.usac.org/rhc/>

Telemedicine

The Rural Health Care Support mechanism provides support for telecommunications and Internet access, including satellite and broadband services, for certain rural health care facilities. The program is intended to ensure that rural health care providers pay no more for telecommunications in the provision of health care services than their urban counterparts. The program will pay for 25% of the cost of Internet access, and up to \$180 a month in toll charge credits if toll-free service to an Internet service provider isn't available.

Either public or non-profit rural health care providers are eligible to receive support under the program. Providers can include teaching hospitals or medical schools, community health centers, local health departments or agencies, community mental health centers, non-for-profit hospitals and rural health clinics.

Federal Government Grant Opportunities

U.S. Department of Commerce (DOC) -

<http://www.commerce.gov/>

National Telecommunications and Information Administration (NTIA) - <http://www.ntia.doc.gov/>

NTIA is the Executive Branch agency that is principally responsible for advising the President on telecommunications and information policy issues. NTIA's programs and policymaking focus largely on expanding broadband Internet access and adoption in America, expanding the use of spectrum by all users, and ensuring that the Internet remains an engine for continued innovation and economic growth.

Broadband - <http://www.ntia.doc.gov/category/broadband>

Recovery Act Broadband Programs - <http://www2.ntia.doc.gov/>

Digital Literacy Initiative - <http://digitalliteracy.gov/>

National Broadband Map - <http://www.broadbandmap.gov/>

Broadband Adoption Research - <http://www.ntia.doc.gov/data>

State and Local Rights-of-Way Guide -
<http://www.ntia.doc.gov/legacy/ntiahome/staterow/statelocalrow.html>

Broadband Grants - <http://www.ntia.doc.gov/grants-combined>

Broadband Technology Opportunities Program (BTOP) -
<http://www.ntia.doc.gov/category/broadband-technology-opportunities-program>

State Broadband Initiative (SBI) - <http://www2.ntia.doc.gov/SBDD>

Arizona Projects - <http://www2.ntia.doc.gov/arizona>

National Broadband Map Datasets - <http://www2.ntia.doc.gov/broadband-data>

Estimating the Economic Impact of the Broadband Stimulus Plan (2/09) -
http://www.elinoam.com/raulkatz/Dr_Raul_Katz_-_BB_Stimulus_Working_Paper.pdf

First Responder Network Authority (FirstNet) -

<http://www.ntia.doc.gov/category/firstnet>

An important grant opportunity that may help Arizona advance its digital buildout is to leverage Arizona's portion of the \$7 billion in funds allocated for the buildout of a National Public Safety Broadband Network (NPSBN) to be overseen by the First Responder Network Authority (FirstNet) working in conjunction with the States. FirstNet's NPSBN is intended to allow first responders from different agencies, departments and jurisdictions to effectively communicate with each other in an emergency. Arizona's portion of the FirstNet funds could also be leveraged through the SB 1402 initiative allowing FirstNet and other digital providers to use the same trench, with separate conduits for each purpose and provider.

The Grant was released in February 2013, and the amount available for Arizona is \$2,981,000 with a required matching contribution of \$745,250 (in-kind allowed). The application was submitted in March 2013, and the award notices are projected to go out mid-

July of 2013, for a three year period of performance.

Economic Development Administration (EDA) - <http://www.eda.gov/>

Measuring Broadband's Economic Impact (MIT 2/06) -
http://cfp.mit.edu/publications/CFP_Papers/Measuring_bb_econ_impact-final.pdf

Bureau of Economic Analysis - <http://www.bea.gov/>

The Bureau of Economic Analysis (BEA) is an agency of the Department of Commerce and it promotes a better understanding of the U.S. economy by providing the most timely, relevant, and accurate economic accounts data in an objective and cost-effective manner. BEA is one of the world's leading statistical agencies. Although it is a relatively small agency, BEA produces some of the most closely watched economic statistics that influence the decisions made by government officials, business people, households, and individuals.

Federal Funding Opportunities - <http://www.eda.gov/ffo.htm>

Regional Economic Accounts - <http://www.bea.gov/regional/>

Federal Government Grant Opportunities

Education & Libraries Specific

U.S Department of Education

A major responsibility of the U.S. Department of Education (ED) is the administration of programs. To help educators, policymakers, and citizens understand these programs, ED publishes each year a "Guide to U.S. Department of Education Programs."

You can download or print out the entire Guide as a PDF (8.15M) at <http://www2.ed.gov/programs/gtep/gtep.pdf>, which provides information on all programs administered by the Department.

You can also use ED.gov to find information about ED programs, their purpose, funding, contacts, and more. You can sort ED programs by office, title, subject, CFDA number, assistance type, and eligibility. You can also search the Guide from <http://www2.ed.gov/programs/find/search/index.html> or look for archived programs.

The Department of Education offers a broad array of grants as described at <http://www2.ed.gov/programs/gtep/gtep.pdf>.

Federal Government Grant Opportunities

Telehealth Specific

Universal Service Administrative Company (USAC) - <http://www.usac.org/>

Rural Health Care - <http://www.usac.org/rhc/>

U.S. Health Resources and Services Administration (HRSA) - <http://www.hrsa.gov/>

Rural Health - <http://www.hrsa.gov/ruralhealth/index.html>

Grants - <http://www.hrsa.gov/ruralhealth/grants/index.html>

USDA Rural Utilities Service (RUS) - http://www.rurdev.usda.gov/Utilities_LP.html

Distance Learning and Telemedicine Loan and Grant Program (DLT) - http://www.rurdev.usda.gov/utp_dlt.html

National Institute of Health - <http://grants.nih.gov/grants/guide/>

The Agency for Healthcare Research and Quality (AHRQ), - <http://grants.nih.gov/grants/guide/pa-files/PA-09-231.html>

The Agency for Healthcare Research and Quality (AHRQ), announces its continued interest in supporting conferences through the AHRQ Small Grant Program for Conference Support. A conference is a symposium, seminar, workshop, or any other organized and formal meeting, whether conducted face-to-face or via the Internet, where individuals assemble (or meet virtually) to exchange information and views or explore or clarify a defined subject, problem, or area of knowledge, whether or not a published report results from such meeting.

AHRQ is especially interested in supporting conferences that demonstrate strategies which include plans for disseminating conference materials and products beyond the participants attending the event. Such strategies might include, but are not limited to, submitting articles for publication, posting information on a Web site, implementation of conference findings and seeking formal opportunities to discuss conference information with others.

Understanding User Needs and Context to Inform Consumer Health Information Technology (IT) Design (R01) - <http://grants.nih.gov/grants/guide/pa-files/PA-11-199.html>

This is to fund research projects that will build a knowledge base of individuals' personal health information management (PHIM) needs and practices and the design principles related to these activities. It looks to bridge the chasm that currently exists between consumer health IT designers and the users themselves, by bolstering basic research to better understand users' PHIM practices, needs, and goals as they are intrinsically shaped by an array of contextual factors.

Federal Government Grant Opportunities

Public Safety Specific

U.S Department of Homeland Security - <http://www.dhs.gov/>

With the passage of the Homeland Security Act by Congress in November 2002, the Department of Homeland Security formally came into being as a stand-alone, Cabinet-level department to further coordinate and unify national homeland security efforts, opening its doors on March 1, 2003.

On June 2004 the Arizona Telecommunications Council (ATIC) submitted the "WiFi Security for First Responders - Border Area Grant" application to the Information Technology and Evaluation Program (ITEP) within the United States Department of Homeland Security (DHS). In September the award was granted to the Arizona Division of Emergency Management (DEMA) and ATIC was the designated implementor.

This was a Proof of Concept project to provide Broadband Wireless Fidelity (WiFi) along a short 30 mile segment of Arizona's 487 mile CANAMEX Corridor. It utilized existing and new "state of the market" 802.11 public spectrum access points, strategically placed for rural users, including law enforcement, first responders and civilians, to obtain broadband connectivity within this segment of the corridor.

A unique aspect of this approach was that, unlike other 802.11 users, these corridor users could have access while mobile. Such connectivity requires a high level of power and focused dispersion and collection of the 802.11 signal, as well as a sound security envelope around the connection. These project characteristics could potentially benefit the entire U. S. Corridor, from Mexico to Canada.

ATIC DHS WiFi Security Project for First Responders (2006) - <http://www.arizonatele.com/atic/wireless/>

Federal Emergency Management Agency (FEMA) - <http://www.fema.gov/>

Assistance to Firefighters Grants (AFG) - <http://www.firegrants.info/GrantDetails.aspx?gid=18039>

The purpose of AFG is to enhance through financial assistance the safety of the public and firefighters regarding fire and fire-related hazards. The objective of the AFG is to award grants directly to fire departments and EMS organizations that are unaffiliated with a hospital.

Department of Justice - <http://www.justice.gov/>

Coordinated Tribal Assistance Solicitations (CTAS) - <http://ncfy.acf.hhs.gov/funding/2013-tribal-justice-safety>

The Department of Justice's Coordinated Tribal Assistance Solicitation will fund projects that support public safety, victim services and crime prevention improvements for Native American and Alaska Native governments. The program is administered by the [Office of Justice Programs](#), the [Office of Community Oriented Policing Services](#) and the [Office on Violence Against Women](#). Projects might address such issues as juvenile justice, youth substance abuse, sexual assault and juvenile delinquency.

Indiana Criminal Justice Institute (ICJI) - <http://www.in.gov/cji/>

Edward Byrne Memorial Justice Assistance Grant (JAG) -
[http://www.in.gov/cji/files/2013_Byrne_JAG_Grant_Request_for_Proposals\(1\).pdf](http://www.in.gov/cji/files/2013_Byrne_JAG_Grant_Request_for_Proposals(1).pdf)

The Edward Byrne Memorial Justice Assistance Grant (“JAG”) Program is the primary provider of federal criminal justice funding to state and local jurisdictions. JAG funds support all components of the criminal justice system, from multijurisdictional drug and gang task forces to crime prevention and domestic violence programs, courts, corrections, treatment, and justice information sharing initiatives. JAG funded projects may address crime through the provision of services directly to individuals and/or communities and by improving the effectiveness and efficiency of criminal justice systems, processes, and procedures.

Federal Government Grant Opportunities

Small Business Innovation Research (SBIR) -

<http://www.sbir.gov/>

The Small Business Innovation Research (SBIR) program is a highly competitive program that encourages domestic small businesses to engage in Federal Research/Research and Development (R/R&D) that has the potential for commercialization. Through a competitive awards-based program, SBIR enables small businesses to explore their technological potential and provides the incentive to profit from its commercialization. By including qualified small businesses in the nation's R&D arena, high-tech innovation is stimulated and the United States gains entrepreneurial spirit as it meets its specific research and development needs.

Each year, Federal agencies with extramural research and development (R&D) budgets that exceed \$100 million are required to allocate 2.5 percent of their R&D budget to these programs. Currently, eleven Federal agencies participate in the program:

Department of Agriculture - <http://www.nifa.usda.gov/fo/sbir.cfm>

Department of Commerce - <http://www.commerce.gov/>

National Institute of Standards and Technology - <http://www.nist.gov/tpo/sbir/>

National Oceanic and Atmospheric Administration -
<http://www.oar.noaa.gov/orta/>

Department of Defense - <http://www.acq.osd.mil/osbp/sbir/>

Department of Education - <http://www2.ed.gov/programs/sbir/index.html>

Department of Energy - <http://science.energy.gov/sbir/>

Department of Health and Human Services -
<http://grants.nih.gov/grants/funding/sbir.htm>

Department of Homeland Security - <https://sbir2.st.dhs.gov/portal/SBIR/>

Department of Transportation - <http://www.volpe.dot.gov/sbir/index.html>

Environmental Protection Agency - <http://www.epa.gov/ncer/sbir/>

National Aeronautics and Space Administration -
<http://sbir.gsfc.nasa.gov/SBIR/SBIR.html>

National Science Foundation - <http://www.nsf.gov/eng/iip/sbir/>

Small Business Technology Transfer (STTR) -

<http://www.sbir.gov/about/about-sttr>

The Small Business Technology Transfer (STTR) is another program that expands funding opportunities in the federal innovation research and development (R&D) arena. Central to the program is expansion of the public/private sector partnership to include the joint venture opportunities for small businesses and nonprofit research institutions. The unique feature of the STTR program is the requirement for the small business to formally collaborate with a research institution in Phase I and Phase II. STTR's most important role is to bridge the gap between performance of basic science and commercialization of resulting innovations.

The Small Business Technology Transfer program stimulates technological innovation in the private sector by strengthening the role of small business concerns in meeting Federal research and development needs, increasing the commercial application of federally supported research results, and fostering and encouraging participation by socially and economically disadvantaged and women-owned small businesses. The Small Business Technology Transfer Program (STTR) requires researchers at universities and other non-profit research institutions to play a significant intellectual role in the conduct of each STTR project. These researchers, by joining forces with a small company, can spin-off their commercially promising ideas while they remain primarily employed at the research institution.

Currently five agencies participate in the STTR:

Department of Defense - <http://www.acq.osd.mil/osbp/sbir/>

Department of Energy - <http://science.energy.gov/sbir/>

Department of Health and Human Services -
<http://grants.nih.gov/grants/funding/sbir.htm>

National Aeronautics and Space Administration -
<http://sbir.gsfc.nasa.gov/SBIR/SBIR.html>

National Science Foundation - <http://www.nsf.gov/eng/iip/sbir/>

Small Business Administration (SBA) Programs -

<http://www.sba.gov/>

Since its founding on July 30, 1953, the U.S. Small Business Administration has delivered millions of loans, loan guarantees, contracts, counseling sessions and other forms of assistance to small businesses.

Digital Arizona Program (DAP)

Broadband Grants & Resources Guide

Other Grant Opportunities

Foundations and Trusts - Arizona Specific

Below are some Arizona foundations that include support for broadband activities. This information has been summarized from the Phoenix Business Journal Book of Lists at <http://www.bizjournals.com/phoenix/research/bol-marketing/> (subscription required).

Virginia G. Piper Charitable Trust - www.pipertrust.org

Their focus is to enhance the quality of life in Maricopa County through support of health care, children, older adults, arts and culture.

Helios Education Foundation - www.helios.org

They are interested in developing and sponsoring grant programs, activities and partnerships with Arizona and Florida educational institutions.

Arizona Community Foundation - www.azfoundation.org

They deal in arts and culture, public education, youth development, environment, community building and health and human services.

Nina Mason Pulliam Charitable Trust - www.nmpct.org

The focus is on helping people in need, protecting animals and nature and enriching community life in Arizona and Indiana.

Flinn Foundation - www.flinn.org

They support efforts in the arts, biological sciences, higher education, medical research and Arizona's biosciences infrastructure.

Hickey Family Foundation - www.hickeyfoundation.org/

They provide financial support to projects that help young people who are socially, medically or educationally at risk from achieving productive lives; invests in the development of promising medical technology; and finances the establishment of medical training centers where no or inadequate medicine exists.

Community Foundation for Southern Arizona - www.cfsoaz.org

They aid arts, children and youth, community development, education, environment, health care, human services and recreation.

Rodel Foundation - www.rodela.org

They focus on improving public education, making college affordable for low-income students and improving public policy research.

Below are a few Foundations that can be approached for grants to fund broadband and telecommunications projects. These were gleaned from the ARIZONA GUIDE TO GRANTS ONLINE which can be accessed at some public libraries, university libraries, and by subscription. For more information about the guide go to <http://www.arizonanonprofits.org/>.

Avnet, Inc. Corporate Giving Program

Location: Phoenix, AZ

Geographic Scope: Primarily in areas of company operations, with emphasis on Chandler, Phoenix and Tempe

Core Grant Making Priorities: Civic affairs, volunteerism programs, education; reading, writing, and computer skills programs; medical and dental programs for children and youth; social services; programs for children and youth

Updated: Feb, 14, 2013

Marley Foundation (Kemper & Ethel) [RESTRICTED]

Location: Phoenix

Recipient: Arizona Rural Development Council

Purpose: Operational support

Amount: \$25,000

Date: Dec. 31, 2011

Pulliam Charitable Trust (Nina Mason) - Grant Location: Tucson

Recipient: Arizona Land and Water Trust

Purpose: Support for a third year of the Desert Rivers and Riparian Heritage Initiative to work with rural water users to conserve desert springs, rivers and aquifers in the Gila River Basin of eastern and central Arizona.

Amount: \$64,000

Date: Nov. 13, 2012

Scholl Foundation (Dr.) - Grant Location: Casa Grande

Recipient: Center for Rural Leadership

Purpose: Leadership program

Amount: \$20,000

Date: Dec. 31, 2011

Southwest Gas Corporation Contributions Program - Phoenix

[RESTRICTED] - Grant Location: Phoenix

Recipient: Arizona Rural Development Council

Amount: \$2,500

Date: Dec. 31, 2011

Yuma Community Foundation -

<http://www.azfoundation.org/affiliates/western/yuma/index.shtml>

Grant Location: Yuma

Arizona grantseekers - <http://www.azgrants.com/>

Online searchable DB - annual cost \$45.00/yr

The Alliance of Arizona Nonprofits is a unifying association formed in 2004 to advance the common interests of more than 20,000 nonprofits in the Grand Canyon State. We are a statewide organization of, by, and for all of Arizona's nonprofits. The *Arizona Guide to Grants Online* is one of the oldest and most respected state-specific foundation databases in the country. Since 2000, the *Guide Online* has been Arizona's premier resource for information about corporations and foundations that give in Arizona.

Arizona's Research & Development Income Tax Credit - <http://www.azdor.gov/>

This is another area of the Arizona Department of Revenue. It contains reports, data, and other useful information.

Other Grant Opportunities

Foundations and Trusts - National

TJX Foundation, Inc. (The) - http://www.tjx.com/corporate_community_foundation.asp

Framingham, MA Updated: Apr. 23, 2013

Geographic Scope: In communities where our company operates, including throughout Arizona

Core Grant Making Priorities: Civic affairs; programs that improve race and cultural relations; civil rights programs; education; mentoring programs; tutoring programs; vocational training; healthcare organizations; prenatal and health baby education; medical research; disease-related education and research programs; social services; programs for disadvantaged children and youth; youth development programs; programs for families; food and clothing for low-income populations; programs for people with disabilities; programs for women

Verizon Foundation - <http://www.verizonfoundation.org/>

Basking Ridge, NJ

Geographic Scope: Nationwide, including throughout Arizona

Core Grant Making Priorities: Arts and culture; civic affairs; disaster relief programs; community technology development; employee volunteerism; leadership development; elementary, secondary, and higher education; literacy; computer literacy; healthcare organizations; medical research; AIDS and cancer education and research programs; social services; programs for children and youth; programs for families; domestic violence prevention programs; programs for minorities; welfare-to-work programs; programs for people with disabilities; programs for the economically disadvantaged

Updated: June, 18, 2012

The Verizon Foundation targets our philanthropic investments to partners and programs that achieve meaningful outcomes and measurable results in specific areas within each of our Funding Priorities. Grant applicants are required to select one or more outcomes and results for grants in each of our Funding Priorities. Areas of funding interest include Education, Literacy, Domestic Violence Prevention, Healthcare and Accessibility, Internet Safety. The Verizon Foundation reviews unsolicited proposals on a continuous calendar year basis from January 1st through October 31st.

The Bill & Melinda Gates Foundation - <http://www.gatesfoundation.org/>

U.S. Libraries - <http://www.gatesfoundation.org/united-states-libraries/Pages/overview.aspx>

Microsoft Shape the Future Program -

<http://www.microsoft.com/publicsector/ww/programs/shape-the-future/Pages/index.aspx>

ATI Institute partnered with Microsoft Corporation (<http://www.microsoft.com/>) and their Shape the Future team to have a Digital Inclusion Economic Impact Model for Arizona executed by their partner The Arnold Group (<http://www.the-arnold-group.com/>) at no cost to ATI Institute or the State. The model is designed to measure the economic impact of digital

inclusion initiatives and has been performed across the U.S. in five states and seven cities to date including Arizona. Now that the statewide study is complete, the tool as provided to ATI Institute can be freely used with local communities by government, consultants, and the communities themselves, so they too can begin to understand the benefits of digital inclusion at a local level.

Microsoft Commits to Bringing Technology Access to 1 Million Low-Income Youth
<http://www.microsoft.com/en-us/news/press/2011/sep11/09-20CGIPR.aspx>

The Arnold Group - <http://www.the-arnold-group.com/>

Cisco Systems Social Investments - <http://csr.cisco.com/>

At Cisco, we believe in the power of collaboration, so many of our CSR activities are achieved through partnerships with nonprofit organizations and NGOs. We focus our grant-making activities on three issue areas: addressing critical human needs, improving access to education, and supporting economic empowerment. In order to maximize the collaborative impact of our investments, we partner with community organizations that leverage the internet and communications technology to improve the efficiency and reach of their services. The target audience must be greater than 65% economically underserved, relative to the average standards of the target geography. We have revised our process for grant application and evaluation to accept unsolicited applications to the Global Impact Cash Grant program. Our new application process is open year-round; therefore, your organization may begin the application process at any time. Please note that all grant applications must be submitted using our online grant application tool. We do not accept applications submitted via postal mail or email attachment. Each of Cisco's worldwide Civic Councils consists of a team of employee champions who are passionate about giving back in their local communities. The Civic Councils plan volunteer projects, develop nonprofit partnerships, roll out product donation programs, and work towards cash grantmaking — each initiative custom-fit to the specific needs of the local community. By leveraging existing Cisco resources and fostering new enthusiasm for giving back, our Civic Councils create meaningful change at the local level. See our blog (under Foundations Profiles) for more information and links.

Connect2Compete (C2C) - <http://www.connect2compete.org/>

Connect2Compete is a national non-profit working to bring digital opportunity to 100M unconnected Americans through free and low-cost Internet and computer offers and free digital training. To drive awareness and relevance, they have designed and launched a three year, multi-media, bi-lingual Ad Council campaign on digital inclusion - the first of its kind (EveryoneOn.org). Success will be measured by the longitudinal gains made around the correlated social outcomes for education, employment and financial independence, health, and civic engagement.

EveryoneOn.org - www.EveryoneOn.org

2,000 government, foundations and corporate funders - <http://www.fundsnet.com/>

Fundsnet Services.com's purpose is to help spread the word about grants programs initiatives, fundraising programs, philanthropy, foundations and 501(c)(3) non-profits organizations sources by posting related links on the site. They do not offer grants opportunities or provide personal financial assistance but a lot foundations, organizations and private companies do, so they dedicate this site to post such resources on one place making such grants initiatives and resources easier to find for those 501(c)(3) organizations in need

of a grant opportunity program to accomplish their philanthropic efforts and missions.

Overview of federal & foundation grantmakers - <http://www.ecivis.com/>

There is an annual cost. eCivis Grants Network, Grants Professional Services, and Grants Management Consulting make up an all-inclusive [grants management system](#) that provides organizations of any size with the tools and resources necessary to find, win and manage grant funding. Our suite of web-based software applications, along with our unrivaled grant-writing services and grants management consulting, cover all aspects of the grants process from start to finish.

Private grantmakers - <http://www.granstation.com/>

There is an annual cost \$59.00

GrantStation.com, Inc. (GrantStation) offers nonprofit organizations, educational institutions, and government agencies the opportunity to identify potential funding sources for their programs or projects as well as resources to mentor these organizations through the grantseeking process.

35,000 foundations, corporate donors, matching gift programs, in-kind donations and gov. grantmakers - <http://www.bigdatabase.com/>

Established in 1988 as an Information Technology (IT) consulting and software development firm, Metasoft Systems Inc. has been recognized by the Branham Group/Financial Post as a Top 100 Canadian Independent Software Company. Utilizing the unique skills and experience of over 70 employees, Metasoft operates two distinct and highly successful business units: a fundraising division and software development division.

Center for Rural Affairs - <http://www.cfra.org/node/1880/>

For entrepreneurs, energy efficiency, hiking trails, broadband, etc.

The Center is unapologetically rural. They stand up for the small family farmer, new business owner, and rural communities. For 40 years, they have been a leading force engaging people to build a better rural future.

Brian Depew, briand@cfra.org or 402-687-2103 x 1015

New Market Tax Credits - <http://www.cdfifund.gov/>

The CDFI Fund was created for the purpose of promoting economic revitalization and community development through investment in and assistance to community development financial institutions (CDFIs).

Other Grant Opportunities

Company and Community Investment

It is beyond the scope of this document to detail and explore the full range of venture capital invest that can be brought to bear in starting up and growing entrepreneurial companies. However, the new phenomenon of crowdfunding may well have applications for communal investing in regional and local projects.

The **Rocky Mountain Venture Capital and Private Equity Directory** focuses exclusively on Venture Capital , Private Equity, Angel and Incubator investors in Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah and Wyoming. It is provided as an ebook, spreadsheet, and online database. For more information, see http://www.massinvestor.com/rm_vc.htm.

Crowdfunding and crowdsourcing are new techniques for acquiring funds. Crowdfunding can be thought of as a subset of crowdsourcing. Crowdsourcing is the practice of acquiring services or content by soliciting contributions from a large group of people rather than from traditional employees or suppliers. This practice has become especially popular in the online community and the Internet.

Crowdfunding involves obtaining funds for one's projects from a multitude of people who pledge or contribute a small amount in order to attain a certain return on their investment, which may be some level of equity in a project. The dilemma right now for equity crowdfunding in the USA is how the SEC is going to regulate the entire process. You can find an enormous repository of information on all forms of crowdsourcing, including crowdfunding at <http://www.crowdsourcing.org/>.

Kickstarter - <http://www.kickstarter.com/hello?ref=nav>

Their vision is to back creative projects, not company creation or order placing for products. There is an interesting infographic and discussion on AppsBlogger at <http://www.appsblogger.com/behind-kickstarter-crowdfunding-stats/>.

Indiegogo - <http://www.indiegogo.com/>

The world's funding platform - Go fund yourself. Second in size to Kickstarter.

fundable.com - <http://www.fundable.com/>

An Online Funding Platform for Small Businesses.

getfunded.org - <http://getfunded.org/>

A nonprofit Management Consulting LLC that works with community-based and faith-based organizations nationwide to improve effectiveness and sustainability. Areas of speciality include grantwriting, board training and organizational development consulting, as well as long-term contracted administration of state, federal and private foundation-funded projects.

www.greenunite.com - <http://www.greenunite.com/>

Focus is on green projects.

Small Business and Entrepreneurship Council - <http://www.sbecouncil.org/>

Crowdfunding & Capital Access - <http://www.sbecouncil.org/resources/crowdfunding/>

Digital Arizona Program (DAP)

Broadband Grants & Resources Guide

Broadband Resources

Federal Resources

State Digital Capacity Plans and Resources

Arizona State Resources

National Nonprofit Organizations

National Trade Associations

Arizona Nonprofit Organizations and Trade Associations

National eLearning and Technology in Education Resources

Arizona eLearning and Technology in Education Resources

National Telehealth Resources

Arizona Telehealth Resources

National eGovernment Resources

Arizona eGovernment Resources

National Discovery, Innovation and Research Resources

Arizona Discovery, Innovation and Research Resources

National Smart Energy and Environmental Resources

Arizona Smart Energy and Environmental Resources

National Public Safety Communications Resources

Arizona Public Safety Communications Resources

National Native American Resources

Arizona Native American Resources

Arizona Statistical Resources

Community Toolkits, Economic and Financial Modeling

Federal Resources:

White House - <http://www.whitehouse.gov/>

Technology Issues - <http://www.whitehouse.gov/issues/technology>

21st Century Digital Infrastructure -
<http://www.whitehouse.gov/issues/technology#id-4>

Executive Order -- Accelerating Broadband Infrastructure Deployment (6/14/12) -
<http://www.whitehouse.gov/the-press-office/2012/06/14/executive-order-accelerating-broadband-infrastructure-deployment>

USA.gov - <http://www.usa.gov/>

Citizen Services - <http://www.usa.gov/Citizen/Services.shtml>

Government Benefits, Grants, and Financial Aid -
<http://www.usa.gov/Citizen/Topics/Benefits.shtml>

Benefits.gov - <http://www.benefits.gov/>

Contact Elected Officials - <http://www.usa.gov/Contact/Elected.shtml>

Find Government Agencies - <http://www.usa.gov/Agencies.shtml>

Tribal Governments and Native Americans -
<http://www.usa.gov/Government/Tribal.shtml>

Fedstats - <http://www.fedstats.gov/>

Arizona MapStats - <http://www.fedstats.gov/qf/states/04000.html>

International, State, County, & Local Area Statistics -
<http://www.fedstats.gov/regional.html>

Federal Communications Commission (FCC) - <http://www.fcc.gov/>

The FCC regulates interstate and international communications by radio, television, wire, satellite and cable in all 50 states, the District of Columbia and U.S. territories. It was established by the Communications Act of 1934 and operates as an independent U.S. government agency overseen by Congress.

Legacy FCC Site - <http://transition.fcc.gov/>

FCC Encyclopedia - <http://www.fcc.gov/encyclopedia>

National Broadband Plan - <http://www.fcc.gov/topic/national-broadband-plan>

Broadband USA - <http://www.broadbandusa.gov/>

Broadband.gov Plan Site - <http://www.broadband.gov/plan/>

Chapter 6: Infrastructure -
<http://www.broadband.gov/plan/6-infrastructure/>

U.S. CRS Report: The National Broadband Plan (7/9/10) -
<http://www.fas.org/sgp/crs/misc/R41324.pdf>

Connecting America Fund - <http://www.fcc.gov/encyclopedia/connecting-america>

National Broadband Map - <http://broadbandmap.gov/>

Measuring Broadband America Report Series -
<http://www.fcc.gov/measuring-broadband-america>

Measuring Broadband America (8/11) -
<http://www.fcc.gov/measuring-broadband-america/2011/august>

Report (PDF) -
http://transition.fcc.gov/cgb/measuringbroadbandreport/Measuring_U.S._-Main_Report_Full.pdf

Measuring Broadband Speeds (7/12) -
<http://www.fcc.gov/measuring-broadband-america/2012/july>

Report (PDF) -
<http://transition.fcc.gov/cgb/measuringbroadbandreport/2012/Measuring-Broadband-America.pdf>

Eighth Broadband Progress Report (8/12) -
http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-12-90A1.pdf

Wireline Competition Bureau - <http://www.fcc.gov/wireline-competition-bureau>

Broadband Acceleration Initiative -
<http://www.fcc.gov/encyclopedia/broadband-acceleration>

Wireless Telecommunications Bureau (WTB) - <http://wireless.fcc.gov/>

Tower Overview - <http://www.fcc.gov/topic/tower>

Tower and Antenna Siting Issues - <http://wireless.fcc.gov/siting/>

Antenna Structure Registration (ARS) Search -
<http://wireless2.fcc.gov/UlsApp/AsrSearch/asrRegistrationSearch.jsp>

Broadband Opportunities for Rural America -
http://wireless.fcc.gov/outreach/index.htm?job=broadband_home

Spectrum Dashboard - <http://reboot.fcc.gov/reform/systems/spectrum-dashboard>

U.S. CRS Report: The Federal Communications Commission: Current Structure and Its Role in the Changing Telecommunications Landscape (2/21/12) -
<http://www.fas.org/sqp/crs/misc/RL32589.pdf>

U.S. Department of Commerce (DOC) - <http://www.commerce.gov/>

The U.S. Department of Commerce promotes job creation, economic growth, sustainable development and improved standards of living for all Americans by working in partnership with businesses, universities, communities and our nation's workers. The department touches the daily lives of the American people in many ways, with a wide range of responsibilities in the areas of trade, economic development, technology, entrepreneurship and business development,

environmental stewardship, and statistical research and analysis.

National Telecommunications and Information Administration (NTIA) -

<http://www.ntia.doc.gov/>

NTIA is the Executive Branch agency that is principally responsible for advising the President on telecommunications and information policy issues. NTIA's programs and policymaking focus largely on expanding broadband Internet access and adoption in America, expanding the use of spectrum by all users, and ensuring that the Internet remains an engine for continued innovation and economic growth.

Broadband - <http://www.ntia.doc.gov/category/broadband>

Recovery Act Broadband Programs - <http://www2.ntia.doc.gov/>

Digital Literacy Initiative - <http://digitalliteracy.gov/>

National Broadband Map - <http://www.broadbandmap.gov/>

Broadband Adoption Research - <http://www.ntia.doc.gov/data>

State and Local Rights-of-Way Guide -
<http://www.ntia.doc.gov/legacy/ntiahome/staterow/statelocalrow.html>

U.S. Broadband Availability Report (6/10 - 6/12) -
<http://www.ntia.doc.gov/report/2013/us-broadband-availability-june-2010-june-2012>

Broadband Grants - <http://www.ntia.doc.gov/grants-combined>

Broadband Technology Opportunities Program (BTOP) -
<http://www.ntia.doc.gov/category/broadband-technology-opportunities-program>

State Broadband Initiative (SBI) - <http://www2.ntia.doc.gov/SBDD>

Arizona Projects - <http://www2.ntia.doc.gov/arizona>

National Broadband Map Datasets -
<http://www2.ntia.doc.gov/broadband-data>

Estimating the Economic Impact of the Broadband Stimulus Plan (2/09) -
http://www.elinoam.com/raulkat/Dr_Raul_Katz_-_BB_Stimulus_Working_Paper.pdf

Economic Development Administration (EDA) - <http://www.eda.gov/>

Measuring Broadband's Economic Impact (MIT 2/06) -
http://cfp.mit.edu/publications/CFP_Papers/Measuring_bb_econ_impact-final.pdf

Bureau of Economic Analysis - <http://www.bea.gov/>

Federal Funding Opportunities - <http://www.eda.gov/ffo.htm>

Regional Economic Accounts - <http://www.bea.gov/regional/>

U.S. Department of Agriculture (USDA) - <http://www.usda.gov/>

Rural Utilities Service (RUS) - http://www.rurdev.usda.gov/Utilities_LP.html

Rural Development Loan Assistance -
http://www.rurdev.usda.gov/RD_Loans.html

Farm Bill Broadband Program -
http://www.rurdev.usda.gov/utp_farmbill.html

Rural Development Grant Assistance -
http://www.rurdev.usda.gov/RD_Grants.html

Community Connect -
http://www.rurdev.usda.gov/utp_commconnect.html

Distance Learning and Telemedicine Program (DLT) -
http://www.rurdev.usda.gov/UTP_DLT.html

Telecommunications Bulletins -
http://www.rurdev.usda.gov/RDU_Bulletins_Telecommunications.html

Universal Service Administrative Company (USAC) - <http://www.usac.org/>

Schools and Libraries Program (E-Rate) - <http://www.usac.org/sl/>

Eligible Services List 2013 -
http://www.usac.org/res/documents/sl/pdf/ESL_archive/EligibleServicesList-2013.pdf

Rural Health Care - <http://www.usac.org/rhc/>

U.S. Department of Transportation (DOT) - <http://www.dot.gov/>

Federal Highway Administration (FHWA) - <http://www.fhwa.dot.gov/>

Publications & Statistics - <http://www.fhwa.dot.gov/resources/pubstats/>

Office of Infrastructure - <http://www.fhwa.dot.gov/infrastructure/>

Intelligent Transportation Systems (ITS) Library -
<http://www.its.dot.gov/library.htm>

Rural Interstate Corridor Communications Study -
http://ops.fhwa.dot.gov/int_its_deployment/rural/congrpt0807/03potben.htm

Telecommunications Handbook for Transportation Professionals: The Basics of Telecommunications (9/04) -
http://www.ops.fhwa.dot.gov/publications/telecomm_handbook/index.htm and
http://www.ops.fhwa.dot.gov/publications/telecomm_handbook/telecomm_handbook.pdf

Rural Interstate Corridor Communications Study Report to States - Cost Estimates - FHWA Operations
<http://ops.fhwa.dot.gov/publications/fhwahop09021/03cost.htm>

Future Uses of Highway Rights of Way Study (4/12) -
<http://www.fhwa.dot.gov/policy/otps/rowstudyproj.htm>

Bureau of Transportation Statistics (BTS) - <http://www.bts.gov/>

TranStats - <http://www.transtats.bts.gov/>

U.S. Census Bureau - <http://www.census.gov/>

American Community Survey - <http://www.census.gov/acs/www/>

Computer and Internet Use in the United States: 2010 -
<http://www.census.gov/hhes/computer/publications/2010.html>

Table 3A. Reported Internet Usage for Individuals 3 Years and Older, by State: 2010 - <http://www.census.gov/hhes/computer/files/2010/table3A.xls>

Table 3B. Presence and Type of Computer for Individuals 3 Years and Older, by State: 2010 - <http://www.census.gov/hhes/computer/files/2010/table3B.xls>

U.S. Congressional Research Service (CRS) - <http://www.loc.gov/crsinfo/>

Federation of American Scientists (FAS) CRS Reports Access -
<http://www.fas.org/sgp/crs/>

Broadband Internet Access and the Digital Divide: Federal Assistance Programs (4/12/11) - <http://www.fas.org/sgp/crs/misc/RL30719.pdf>

Rural Broadband: The Roles of the Rural Utilities Service and the Universal Service Fund (5/9/12) - <http://www.fas.org/sgp/crs/misc/R42524.pdf>

Access to Broadband Networks: The Net Neutrality Debate (2/21/12) -
<http://www.fas.org/sgp/crs/misc/R40616.pdf>

The National Broadband Plan (7/9/10) -
<http://www.fas.org/sgp/crs/misc/R41324.pdf>

The Federal Communications Commission: Current Structure and Its Role in the Changing Telecommunications Landscape (2/21/12) -
<http://www.fas.org/sgp/crs/misc/RL32589.pdf>

Spectrum Policy in the Age of Broadband: Issues for Congress (6/21/12) -
<http://www.fas.org/sgp/crs/misc/R40674.pdf>

Public Safety Communications and Spectrum Resources: Policy Issues for Congress (9/1/10) - <http://www.fas.org/sgp/crs/misc/R40859.pdf>

Institute of Museum and Library Services (IMLS) - <http://www.imls.gov/>

Broadband Issue Area - <http://www.imls.gov/about/broadband.aspx>

Building Digital Communities: Getting Started (3/12) -
<http://www.imls.gov/assets/1/AssetManager/BuildingDigitalCommunities.pdf>

Building Digital Communities: New Resource to Help Communities Bridge the Digital Divide (3/12) -
http://www.imls.gov/assets/1/AssetManager/BuildingDigitalCommunities_Framework.pdf

Building Digital Communities: A Framework for Action (1/12) -
http://www.imls.gov/assets/1/workflow_staging/AssetManager/2140.PDF

State Digital Capacity Plans and Resources:

AZ: Digital Arizona Program - <http://digitalarizona.gov/>

Digital Arizona Council (DAC) -

http://www.digitalarizona.gov/Digital_Arizona_Council/About_DAC.html

Task Groups -

http://www.digitalarizona.gov/Digital_Arizona_Council/Task_Groups.html

Strategic Plan Draft -

http://www.digitalarizona.gov/Digital_Arizona_Council/Strategy.html

Arizona Strategic Enterprise Technology Office (ASET) - <http://aset.azdoa.gov/>

Arizona Broadband Map - <http://broadbandmap.az.gov/map/>

Arizona Broadband Map (Policy) -

<http://broadbandmap.az.gov/CommunityPlanningMap/>

Planning Help - <http://broadbandmap.az.gov/HelpPlanning/index.htm>

Research & Analysis - http://www.digitalarizona.gov/About/Current_Work.html

Arizona GIS (Geographic Information System) Broadband Survey (2009) -

http://www.digitalarizona.gov/images/Current_and_Historical_Docs/AZ%20GITA%20Broadband%20Assessment%20GIS%20Study%20Jan2009.pdf

CA: California Broadband Council - <http://broadbandcouncil.ca.gov/>

The State of Connectivity, Building Innovation Through Broadband (1/08) -

<http://broadbandcouncil.ca.gov/WorkArea/DownloadAsset.aspx?id=44>

Broadband Task Force History & Recommendations (2/11) -

http://www.cio.ca.gov/broadband/pdf/California_Technology_Agency_Report_on_Broadband_Task_Force_7_Recommendations.pdf

California Executive Order S-21-06 - <http://gov.ca.gov/news.php?id=4818>

CO: Colorado Broadband Data and Development Program -

<http://www.colorado.gov/cs/Satellite/OIT-StateInitiatives/CBON/1251575390656>

Bottom-Up Regional Statements -

<http://www.colorado.gov/cs/Satellite/OEDIT/OEDIT/1251588546249>

Regional Economic Development Plans (2010) -

<http://www.colorado.gov/cs/Satellite/OEDIT/OEDIT/1251588672781>

Local Technology Planning Team Lessons Learned -

http://www.colorado.gov/cs/Satellite?c=Document_C&childpagename=OIT-StateInitiatives%2FDocument_C%2FCBONAddLinkView&cid=1251610054179&pageName=CBONWrapper

I'll Vote for You If You Make My Netflix Work: The Five A's of Community Broadband in Colorado (Book by Frank Ohrtman) -

<http://www.illvoteforyouifyoumakemynetflixwork.org/>

GA: Georgia Broadband Excellence - <http://www.georgiabroadband.net/>

Georgia Statewide Broadband Strategy Position Paper (12/10) -
<http://www.georgiabroadband.net/Portals/0/State%20Broadband%20Strategy%20-%20Rich%20Calhoun%20December%203%202010%20-%20Read%20Only%20-%20Final.pdf>

IA: Connect Iowa - <http://www.connectiowa.org/>

Research - <http://www.connectiowa.org/research>

The Great Rural America Paradox Blog Post (7/12) -
<http://www.connectiowa.org/blog/post/great-rural-america-paradox>

ID: Link Idaho - <http://www.linkidaho.org/>

Regional Planning Teams and Tools -
<http://www.linkidaho.org/lid/default.aspx?page=43#Priorities>

IL: Broadband Illinois - <http://www.broadbandillinois.org/>

Research - <http://www.broadbandillinois.org/Research.html>

Chicago Broadband Challenge -
<http://digital.cityofchicago.org/index.php/the-broadband-challenge/>

LA: Louisiana State Broadband Office - <http://broadband.la.gov/>

Broadband Lifecycle - http://broadband.la.gov/lbi_communities_lifecycle.asp

Lafayette Utilities System's Fiber-to-the-Home Project - <http://www.lus.org/site184.php>

MS: Broadband for Mississippi - <http://msbb.broadmap.com/>

Mississippi Broadband Connect Coalition (MBXX) -
<http://msbb.broadmap.com/mississippi-broadband-connect-coalition.html>

Broadband Strategic Plan - <http://msbb.broadmap.com/strategic-plan.html>

Mapping Mississippi's Digital Future (Fall 2011) -
<http://msbb.broadmap.com/strategic-plan/strategic-plan.pdf>

MO: MoBroadbandNow - <http://mobroadbandnow.com/>

2011 Annual Summit - <http://mobroadbandnow.com/mo-broadband-initiatives/2011-summit/>

Regional Technical Planning Toolkit (RTPT) -
<http://mobroadbandnow.com/files/2011/03/Toolkit.pdf>

NC: Connect Nevada - <http://www.connectnv.org/>

Planning - <http://www.connectnv.org/planning>

Connect Nevada Report (10/10) -
http://www.connectnv.org/documents/NevadaPlanningReport_screen.pdf

NC: North Carolina Broadband - <http://ncbroadband.gov/>

NC Broadband Research - <http://ncbroadband.gov/broadband-101/e-nc-research>

PR: Connect Puerto Rico - <http://www.connectpr.org/>

Puerto Rico Strategic Broadband Plan (5/12) -
<http://www.connectpr.org/strategic-plan?lang=en>

Executive Summary (1.5MB PDF) -
http://www.connectpr.org/sites/default/files/connected-nation/Puerto%20Rico/files/executive_summary.pdf

Full Report (27MB PDF) -
http://www.connectpr.org/sites/default/files/connected-nation/Puerto%20Rico/files/pr_bb_plan_final.pdf

UT: State of Utah Broadband Project - <http://www.utah.gov/broadband/index.html>

Utah Broadband Advisory Council - <http://blog.broadband.utah.gov/about/broadband-advisory-council/>

Utah Broadband Advisory Council Report (6/12) -
<http://utahbroadband.files.wordpress.com/2012/06/utah-broadband-advisory-council-report3.pdf>

Governor's Office of Economic Development (GOED) - <http://business.utah.gov/>

Broadband Mapping and Planning -
<http://business.utah.gov/programs/broadband/>

Automated Geographic Reference Center (AGRC) - <http://gis.utah.gov/>

Broadband Internet Data Download -
<http://gis.utah.gov/data/utilities/broadband-internet/>

VA: NetworkVirginia (Virginia Tech) - <http://www.networkvirginia.net/>

eCorridors Program - <http://www.ecorridors.vt.edu/>

Accelerate Virginia - <http://www.acceleratevirginia.org/>

Accelerate Your Community -
http://acceleratevirginia.org/accelerate_your_community/

Blacksburg Electronic Village (BEV) - <http://top.bev.net/new/>

Publications - http://top.bev.net/new/final_report.php

Final Public Report (9/04) - http://top.bev.net/Final_Public_Report.pdf

Virginia Information Technology Agency (VITA) - <http://www.vita.virginia.gov/>

WA: Washington State Broadband Office - <http://broadband.wa.gov/>

Creating Opportunities for Washington Broadband Report (2010) -
<http://broadband.wa.gov/sites/default/files/docs/WashingtonStateBroadbandReport.pdf>

Annual Reports on Broadband in Washington -

<http://www.commerce.wa.gov/Programs/Infrastructure/Broadband/Pages/AnnualReport.aspx>

WI: University of Wisconsin Extension - <http://www.uwex.edu/>

Broadband Initiative - <http://www.uwex.edu/academic-affairs/initiatives.html>

Building Community Capacity through Broadband - <http://broadband.uwex.edu/>

Arizona State Resources:

Arizona Governor's Office - <http://www.azgovernor.gov/>

Arizona.gov Official Web Site - <http://az.gov/>

Arizona Travel Guide - <http://www.arizonaguide.com/>

Arizona Governor's Office of Health Information Exchange (HIE) - <http://hie.az.gov/>

Strategic Plan (3/11) -

http://hie.az.gov/docs/app_plans/AZHIEStrategicPlanv1_10.pdf

Governor's Arizona Ready Education Council - <http://www.arizonaready.com/> &
<http://azgovernor.gov/AzReady/>

Arizona State Legislature - <http://www.azleg.gov/>

Arizona State Senate - <http://www.azsenate.gov/>

Arizona House of Representatives - <http://www.azhouse.gov/>

Arizona Revised Statutes (ARS) -

<http://www.azleg.state.az.us/ArizonaRevisedStatutes.asp>

Arizona Department of Administration - <http://www.azdoa.gov/>

Arizona State Enterprise Technology (ASET) Office - <http://aset.azdoa.gov/>

Digital Arizona Project (DAP) - <http://digitalarizona.gov/>

Arizona Broadband Map - <http://broadbandmap.az.gov/map/>

Arizona Broadband Map (Policy) -

<http://broadbandmap.az.gov/CommunityPlanningMap/>

Planning Help - <http://broadbandmap.az.gov/HelpPlanning/index.htm>

Digital Arizona Council (DAC) -

http://www.digitalarizona.gov/Digital_Arizona_Council/About_DAC.html

Task Groups -

http://www.digitalarizona.gov/Digital_Arizona_Council/Task_Groups.html

Strategic Plan Draft -

http://www.digitalarizona.gov/Digital_Arizona_Council/Strategy.html

Research & Analysis - http://www.digitalarizona.gov/About/Current_Work.html

Arizona GIS (Geographic Information System) Broadband Survey (2009)

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http://www.digitalarizona.gov/images/Current_and_Historical_Docs/AZ%20GITA%20Broadband%20Assessment%20GIS%20Study%20Jan2009.pdf

eGov Program - <http://aset.azdoa.gov/e-gov>

Health Information Exchange (HIE) - <http://hie.az.gov/>

Public Safety Interoperable Communications (PSIC) -
<http://www.azpsic.gov/>

Telecommunications Program Office (TPO) AZNet - <http://www.aznet.gov/>

Arizona Department of Transportation (ADOT) - <http://www.azdot.gov/>

Geographic Information Systems for Transportation (GIS-T) Section -
<http://www.azdot.gov/mpd/gis/index.asp>

GIS-T Projects - <http://www.azdot.gov/mpd/gis/projects/index.asp>

ADOT Maps - <http://www.azdot.gov/mpd/gis/maps/index.asp>

Arizona State Highway System -
<http://www.azdot.gov/mpd/gis/maps/pdf/shs.pdf>

ADOT Engineering and Maintenance Districts -
http://www.azdot.gov/mpd/gis/maps/pdf/eng_maint_dist_mp.pdf

Interstate 11 (I-11) and Intermountain West Corridor Study - <http://i11study.com/wp/>

Report TRQS-02 - Arizona I-19 Wi-Fi Corridor: Assessment of Opportunities for Probe Data Operations (10/05) -
<http://www.azdot.gov/TPD/ATRC/publications/QuickStudies/PDF/TRQS-02.pdf>

Report TRQS-03 - Arizona I-19 Wi-Fi Corridor: Concept Demonstration of Probe Vehicle Tracking (3/07) -
<http://www.azdot.gov/TPD/ATRC/publications/QuickStudies/PDF/TRQS-03.pdf>

Arizona State Land Department (ASLD) - <http://www.land.state.az.us/>

ASLD's mission is to manage State Trust lands and resources to enhance value and optimize economic return for the Trust beneficiaries, consistent with sound stewardship, conservation, and business management principles supporting socioeconomic goals for citizens here today and generations to come, as well as to manage and provide support for resource conservation programs for the well-being of the public and the State's natural environment.

Real Estate Division - <http://www.land.state.az.us/divisions/realestate.htm>

Sales & Commercial Leasing Section -
<http://www.land.state.az.us/programs/realestate/sections/sales.htm>

Commercial Leasing Section -
http://www.land.state.az.us/programs/realestate/sections/comml_leasing.htm

Right-of-Way Section -
<http://www.land.state.az.us/programs/realestate/sections/row.htm>

Information Systems & Resource Analysis Division -
<http://www.land.state.az.us/divisions/infoSystems.htm>

Arizona Land Resource Information System (ALRIS) -
<http://www.land.state.az.us/alris/index.html>

ALRIS GIS Data - <http://www.land.state.az.us/alris/layers.html>

Arizona State Cartographer's Office (SCO) - <http://sco.az.gov/>

Arizona Geographic Information Council (AGIC) - <http://www.agic.az.gov/>

Telecommunications Site Rental Schedule for 2010 -
http://www.land.state.az.us/news/2009/103009_news.htm

Arizona Corporation Commission (ACC) - <http://www.azcc.gov/>

The Arizona Corporation Commission (ACC) is established via Article 15 of the Arizona Constitution with elected Commissioners and has responsibilities that go beyond traditional public utilities regulation including regulation of telephone services, facilitating the incorporation of businesses and organizations, securities regulation, and railroad/pipeline safety. By virtue of the Arizona Constitution, the Commissioners function in an Executive capacity, they adopt rules and regulations thereby functioning in a Legislative capacity, and they also act in a Judicial capacity sitting as a tribunal and making decisions in contested matters.

Utilities Division - <http://www.azcc.gov/Divisions/Utilities/>

Telephone - <http://www.azcc.gov/divisions/utilities/telecom.asp>

Telecommunications Industry Page -
<http://www.azcc.gov/divisions/utilities/telecom/industry.asp>

Arizona Universal Service Fund (AUSF) -
<http://www.azcc.gov/divisions/utilities/telecom/ausf-faqs.asp>

Telecommunications Rules -
http://www.azsos.gov/public_services/Title_14/14-02.htm#ARTICLE_5

Arizona Goes Solar - <http://arizonagoessolar.org/>

Arizona Commerce Authority (ACA) - <http://www.azcommerce.com/>

Arizona Facts & Figures - <http://www.azcommerce.com/facts-and-figures/>

Arizona Community Profiles -
<http://www.azcommerce.com/facts-and-figures/community-profiles/>

Maps & GIS Data - <http://www.azcommerce.com/facts-and-figures/maps/>

Arizona Broadband Initiative Framework Analysis and Report (4/07) -
<http://old.azcommerce.com/doclib/prop/originals/arizona%20broadband%20initiative%20framework.pdf>

Innovation Arizona - <http://www.innovationaz.com/>

Arizona Research Centers -
<http://www.innovationaz.com/resources/research.asp>

Aerospace & Defense Arizona - <http://www.azaerospace.com/>

ASU Aerospace & Defense Research Collaboratory (ADRC) -
<http://adrc.asu.edu/>

Resources - <http://adrc.asu.edu/resources>

Bioscience & Healthcare - <http://www.azcommerce.com/industries/bioscience-health-care/>

Solar Arizona - <http://www.azsolarstate.com/>

Arizona Department of Real Estate - <http://www.re.state.az.us/>

Laws, Rules, Policy Statements and Advisories -
<http://www.re.state.az.us/LawBook/LawBook.aspx>

Arizona Attorney General - <http://www.azag.gov/>

Publications - <http://www.azag.gov/publications.html>

Arizona Department of Education - <http://www.azed.gov/>

Arizona Ready - <http://arizonaready.com/>

Educational Technology Group - <http://www.azed.gov/educational-technology/>

E-Rate - <http://www.azed.gov/educational-technology/e-rate/>

Multimedia Resource Links -
<http://www.azed.gov/educational-technology/2011/09/14/multimedia-resource-links/>

Information Technology - <http://www.azed.gov/information-technology/>

Arizona's Common Core Standards -
<http://www.azed.gov/standards-practices/common-core-state-standards/>

Resources and Tools - <http://www.azed.gov/standards-practices/resources-and-tools/>

Research and Evaluation Division - <http://www.azed.gov/research-evaluation/>

State Report Cards - <http://www.azed.gov/research-evaluation/report-cards/>

School and District Report Cards - <http://www10.ade.az.gov/ReportCard/>

Indian Education - <http://www.azed.gov/indian-education/>

Arizona State Library, Archives and Public Records - <http://azlibrary.gov/>

E-Rate Resources - <http://azlibrary.gov/erate/>

Library Services and Technology Act (LSTA) in Arizona - <http://azlibrary.gov/lsta/>

Digital Government Information Initiatives - <http://azlibrary.gov/diggovt/index.aspx>

Arizona Tribal Library Resources - <http://azlibrary.gov/extension/tribal.aspx>

Arizona Memory Project - <http://azmemory.azlibrary.gov/cdm/>

Statewide Access to Databases - <http://azlibrary.gov/extension/statewidedb.aspx>

Tools for Tough Times - <http://www.azlibrary.gov/about/helpinfo.aspx>

Arizona Small Business Development Centers (SBDC) Network -
<http://www.azsbdc.net/>

Tools and Resources - <http://www.azsbdc.net/tools-resources/>

Resources and Links - <http://www.azsbdc.net/tools-resources/resources-links/>

Arizona Commission for the Deaf and Hard of Hearing (ACDHH) -
<http://www.acdhh.org/>

Arizona Telecommunications Equipment Distribution Program (AzTEDP) -
<http://www.acdhh.org/home/aztedp>

Resource Directory - <http://www.acdhh.org/resources/directory>

Northern Arizona University (NAU) - <http://www.nau.edu/>

Arizona Rural Policy Institute (ARPI) at The W. A. Franke College of Business -
<http://www.franke.nau.edu/RPI/>

National Nonprofit Organizations:

National Governors Association (NGA) - <http://www.nga.org/cms/home.html>

NGA is the bipartisan organization of the nation's governors that promotes visionary state leadership, shares best practices, and speaks with a collective voice on national policy.

Communications Key Issue - <http://www.nga.org/cms/home/federal-relations/nga-key-committee-issues/page-edc-issues/col2-content/main-content-list/communications.html>

State Priorities in Communications Policy Position - <http://www.nga.org/cms/home/federal-relations/nga-policy-positions/page-edc-policies/col2-content/main-content-list/state-priorities-in-communicatio.html>

National Conference of State Legislatures (NCSL) - <http://www.ncsl.org/>

NCSL is a bipartisan organization that serves the legislators and staffs of the nation's 50 states, its commonwealths and territories providing research, technical assistance, and opportunities for policymakers to exchange ideas on the most pressing state issues. NCSL is an effective and respected advocate for the interests of state governments before Congress and federal agencies.

Telecommunications and Information Technology Issue - <http://www.ncsl.org/Default.aspx?TabID=756&tabs=951,71,531#951>

Telecommunications Technology and Regulation - <http://www.ncsl.org/Default.aspx?TabID=756&tabs=951,71,540#540>

Broadband Statutes - <http://www.ncsl.org/default.aspx?tabid=13455>

2010 Enacted Broadband Legislation - <http://www.ncsl.org/default.aspx?tabid=21125>

Transforming Health Care Through Technology: NCSL Partners Project - <http://www.ncsl.org/default.aspx?tabid=22228>

The Council of State Governments (CSG) - <http://www.csg.org/>

Telecommunications Policy Area - <http://knowledgecenter.csg.org/drupal/category/policy-area/technology/telecommunications>

Broadband Policy Area - <http://knowledgecenter.csg.org/kc/view-policy-areas/825>

National Association of Regulatory Utility Commissioners (NARUC) - <http://www.naruc.org/>

NARUC is the national association representing the State Public Service Commissioners who regulate essential utility services, including energy, telecommunications, and water. NARUC members are responsible for assuring reliable utility service at fair, just, and reasonable rates. Founded in 1889, the Association is an invaluable resource for its members and the regulatory community, providing a venue to set and influence public policy, share best practices, and foster innovative solutions to improve regulation.

Committee on Telecommunications - <http://www.naruc.org/committees.cfm?c=53>

Ad Hoc Committee on National Wireless Consumer Protection Standards - <http://www.naruc.org/committees.cfm?c=59>

Staff Subcommittee on State Universal Service Fund Administrators - <http://www.naruc.org/committees.cfm?c=27>

Staff Subcommittee on Telecommunications - <http://www.naruc.org/committees.cfm?c=26>

National Regulatory Research Institute (NRRI) - <http://www.nrri.org/>

National Inventory of Broadband Projects and Programs - <http://communities.nrri.org/web/telecom-broadband-adoption/706-project-home>

Telecommunications Research Papers - <http://www.nrri2.org/web/guest/research-papers?categoryId=351279>

Fundamentals of Telecommunications Regulation: Markets, Jurisdiction, and Challenges (1/11) - http://www.nrri.org/pubs/telecommunications/NRRI_telecomm_overview_jan11-03.pdf

Taking Another Look at Federal/State Jurisdictional Relationships in the New Broadband World V1.1 (2/12) - <http://www.nrri2.org/documents/317330/0a215d85-787a-4ca0-a1fd-fcc59f28ffe0>

The Year in Review: The Status of Telecommunications Deregulation in 2012 (6/12) - <http://www.nrri2.org/documents/317330/0179150e-ef83-4e94-bf94-80c7af830ab6>

National League of Cities (NLC) - <http://www.nlc.org/>

NLC is dedicated to helping city leaders build better communities. Working in partnership with the 49 state municipal leagues, NLC serves as a resource to and an advocate for the more than 19,000 cities, villages and towns it represents.

Information Technology & Communications Committee - <http://www.nlc.org/influence-federal-policy/policy-committees/information-technology-communications>

National Association of Counties (NACo) - <http://www.naco.org/Pages/default.aspx>

NACo is the only national organization representing county government. Driven by a strong membership, NACo's Board of Directors represents counties across America.

Legislation & Policy - <http://www.naco.org/legislation/Pages/default.aspx>

Telecommunications & Technology Steering Committee - <http://www.naco.org/legislation/policies/Pages/TT.aspx>

International City/County Management Association (ICMA) -

<http://icma.org/en/icma/home>

Public Policy - http://icma.org/en/icma/priorities/public_policy/overview

Center for Sustainable Communities -
http://icma.org/en/results/sustainable_communities/home

Center for Public Safety Management -
http://icma.org/en/results/public_safety_management/home

Arizona City/County Management Association - <http://www.azmanagement.org/>

National Association of Telecommunications Officers and Advisors (NATOA) -

<http://www.natoa.org/>

NATOA is the premier local government professional association that provides support to members on the many local, state, and federal communications laws, administrative rulings, judicial decisions, and technology issues impacting the interests of local governments.

Policy/Advocacy - <http://natoa.org/policy-advocacy/>

Broadband - <http://natoa.org/broadband/national-broadband-plan.html>

Local Government Officials Principles Relating to Rights-of-Way (8/98) -
http://www.natoa.org/documents/Local_Government_Principles_Relating_to_Rights-of-Way.pdf

Transmitting Antenna RF Emission Safety: Rules, Procedures, and Practical Guidance (6/00) -
http://www.natoa.org/documents/FCC_LSGAC_RF_Guide.pdf

NATOA Local Government Official's e-Guide to Communications Facilities Siting (\$50 Members/\$100 Non-Members) -
<http://www.natoa.org/documents/FacilitiesSitingFlyerUpdated.pdf>

National Association of State Chief Information Officers (NASCIO) -

<http://www.nascio.org/>

NASCIO's mission is to foster government excellence through quality business practices, information management, and technology policy.

State Connectivity and Broadband Working Group -
<http://www.nascio.org/committees/broadband/>

Bowling for Broadband 2: Toward Citizen-Centric, Broadband-Based E-Government (8/06) - http://www.nascio.org/publications/documents/NASCIO-Bowling_for_Broadband2.pdf

Bowling for Broadband: The Role of the State CIO in Promoting High-Speed Internet Access (9/04) -
http://www.nascio.org/publications/documents/NASCIO-CIO_and_Broadband.pdf

National Association of State Technology Directors (NASTD) - <http://www.nastd.org/>

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Libraries (Members Only) -

<http://www.nastd.org/NASTD/Community/Resources/AllLibraries>

National Regulatory Research Institute (NRRI) - <http://www.nrri.org/>

Telecommunications Community - <http://www.nrri.org/web/telecommunications>

Telecommunications Knowledge Base -

<http://communities.nrri.org/web/telecommunications/nrri-research-papers>

Rural Telecommunications Congress (RTC) - <http://www.ruraltelecon.org/pages/>

RTC is a national membership organization dedicated to assuring that rural areas in the United States have access to the information and support they need to obtain and use advanced telecommunications services and technology for social and economic development.

Broadband Planning - <http://www.ruraltelecon.org/pages/BroadbandPlanning.aspx>

Community Toolkit -

http://www.ruraltelecon.org/pages/Portals/0/Content_files/Community%20Toolkit%20Rough%20Outline%20%20REV%201.pdf

Rural Telecommunications Group (RTG) - <http://ruraltelecomgroup.org/>

RTG is a trade association representing rural wireless carriers who provide wireless telecommunications services, such as cellular telephone service and Personal Communications Services, to regions with less than 100,000 subscribers comprising secondary, tertiary, and rural markets. RTG membership is comprised of both independent wireless carriers and wireless carriers that are affiliated with rural telephone companies that have joined together to speed delivery of new, efficient, and innovative telecommunications technologies to the populations of remote and underserved sections of the country.

Advocacy - <http://ruraltelecomgroup.org/advocacy/>

RICA/RTG Fall Forum and RTG Annual Meeting 11/2/11 in Phoenix, AZ -

<http://ruraltelecomgroup.org/types/events/>

Connect2Compete (C2C) - <http://www.connect2compete.org/>

EveryoneOn.org - www.EveryoneOn.org

American Planning Association (APA) - <http://www.planning.org/>

APA is an independent, not-for-profit educational organization that provides leadership in the development of vital communities.

Technology Division - <http://www.planning.org/divisions/tech/index.htm>

Resources - <http://www.planning.org/resources/>

APA Planning Books - <http://www.planning.org/apastore/>

Planning and Broadband: Infrastructure, Policy, and Sustainability (7/12) -

<http://www.planning.org/apastore/Search/Default.aspx?p=4193>

American Public Works Association (APWA) - <http://www.apwa.net/>

APWA serves professionals in all aspects of public works and acts as an effective voice of public works throughout North America. APWA includes not only personnel from local, county, state/province, and federal agencies, but also private sector personnel who supply products and services to those professionals.

Advocacy - <http://www.apwa.net/Topics/Advocacy>

Utility and Public Right-of-Way -
<http://www.apwa.net/Topics/Utility-and-Public-Right-of-Way>

Resource Center - <http://www.apwa.net/ResourceCenter/>

Utility and Public Right-of-Way -
<http://www.apwa.net/ResourceCenter/Category/Utility-and-Public-Right-of-Way>

**International Right of Way Association (IRWA) -
<https://www.irwaonline.org/eweb/StartPage.aspx>**

Region 1 (AZ, CA, HI, NV) -
<http://www.irwaonline.org/eweb//DynamicPage.aspx?Webcode=region01>

Phoenix Chapter - <http://www.irwachapter28.org/>

Tucson Chapter - <http://www.irwa73.org/>

International Municipal Lawyers Association (IMLA) - <http://www.imla.org/>

IMLA is a nonprofit, professional organization that has been an advocate and resource for local government attorneys since 1935 and serves as an international clearinghouse of legal information and cooperation on municipal legal matters.

Sections -
http://www.imla.org/index.php?option=com_content&task=view&id=82&Itemid=170
Including a Telecommunications & Franchise Section (no specific link)

Public Technology Institute - <http://pti.nw.dc.us/>

Topics Index - <http://www.pti.org/index.php/ptiee1/cl/C32>

Web Management and E-Government Topic -
<http://www.pti.org/index.php/ptiee1/inside/C29>

Public Safety Technology Topic - <http://www.pti.org/index.php/ptiee1/inside/C25>

Energy Star for Local Governments - <http://www.pti.org/index.php/ptiee1/inside/C128>

Small Business and Entrepreneurship Council - <http://www.sbecouncil.org/>

Research - <http://www.sbecouncil.org/research/>

Start-Up Savings: Boosting Entrepreneurship through Broadband Internet
(4/18/12) - <http://www.internetinnovation.org/small-biz/>

Print Version - <http://www.internetinnovation.org/small-biz/Start-Up-Savings-IIA-SBE-print.pdf>

Advocacy & Policy - <http://www.sbecouncil.org/policy/>

Technology & IP - <http://www.sbecouncil.org/category/technology-ip/>

Small Business Innovation and Success Depends on More Spectrum
(6/6/13) - <http://www.sbecouncil.org/2013/06/06/small-business-innovation-and-success-depends-on-more-spectrum/>

Technology and Entrepreneurs: FCC Lagging and Dragging the Market
(5/17/13) - <http://www.sbecouncil.org/2013/05/17/technology-and-entrepreneurs-fcc-lagging-and-dragging-the-market/>

Crowdfunding & Capital Access - <http://www.sbecouncil.org/resources/crowdfunding/>

National Trade Associations:

PCIA - The Wireless Infrastructure Association - <http://www.pcia.com/>

PCIA - The Wireless Infrastructure Association is the trade association representing the companies that make up the wireless telecommunications infrastructure industry. Members include the carriers, infrastructure providers and professional services firms that own and manage more than 130,000 telecommunications facilities throughout the world.

Advocacy -

http://www.pcia.com/index.php?option=com_content&view=article&id=30&Itemid=33

Federal -

http://www.pcia.com/index.php?option=com_content&view=article&id=14&Itemid=34

State -

http://www.pcia.com/index.php?option=com_content&view=article&id=15&Itemid=35

Local -

http://www.pcia.com/index.php?option=com_content&view=article&id=16&Itemid=36

Model Ordinances -

http://www.pcia.com/index.php?option=com_content&view=article&id=17&Itemid=37

Model Legislation -

http://www.pcia.com/index.php?option=com_content&view=article&id=78&Itemid=159

References -

http://www.pcia.com/index.php?option=com_content&view=article&id=18&Itemid=38

Distributed Antenna System (DAS) Forum - <http://www.thedasforum.org/>

AWS Clearinghouse - <http://www.awsclearinghouse.com/>

Frequency Coordination -

http://www.pcia.com/index.php?option=com_content&view=article&id=32&Itemid=10

CTIA - The Wireless Association - <http://www.ctia.org/>

CTIA - The Wireless Association is an international nonprofit membership organization that represents the wireless communications industry. Membership includes wireless carriers and their suppliers, as well as providers and manufacturers of wireless data services and products.

Advocacy - <http://www.ctia.org/advocacy/>

Policy Topics - http://www.ctia.org/advocacy/policy_topics/

Broadband - http://www.ctia.org/advocacy/policy_topics/topic.cfm/TID/37

Spectrum, Tower Siting & Antennas -
http://www.ctia.org/advocacy/policy_topics/topic.cfm/TID/65

Research - <http://www.ctia.org/advocacy/research/>
Legislative Search -
<http://www.ctia.org/advocacy/research/index.cfm/AID/10586>

National Exchange Carrier Association, Inc. (NECA) - <http://www.neca.org/>

Government Relations -
https://www.neca.org/cms400min/NECA_Templates/Government_LP.aspx

Washington Watch -
https://www.neca.org/cms400min/NECA_Templates/PublicInterior.aspx?id=6024

Resources -
https://www.neca.org/cms400min/Neca_templates/Resources_Landing_Page.aspx

Organization for the Promotion and Advancement of Small Telecommunications Companies (OPASTO) - <http://www.opastco.org/>

Advocacy - <http://www.opastco.org/site/advocacy/>

Resources - <http://www.opastco.org/site/resources/>

United States Telecom Association - <http://www.ustelecom.org/>

Broadband Industry - <http://www.ustelecom.org/broadband-industry>

Issues - <http://www.ustelecom.org/issues>

Broadband Infrastructure - <http://www.ustelecom.org/issues/broadband-infrastructure>

Universal Service - <http://www.ustelecom.org/issues/universal-service>

National Telecommunications Cooperative Association (NTCA) - <http://www.ntca.org/>

Rural Telecommunity - <http://www.ntca.org/rural-telecommunity.html>

Advocacy - <http://www.ntca.org/advocacy/advocacy/>

Advocacy Issues - <http://www.ntca.org/advocacy/advocacy-issues/>

Broadband - <http://www.ntca.org/advocacy/broadband/>

Universal Service - <http://www.ntca.org/advocacy/universal-service/>

Rural Health Care -
<http://www.ntca.org/advocacy/ntca-health-care-update-august-14-2009.html>

Position Papers - <http://www.ntca.org/position-papers/ntca-position-papers.html>

NTCA Smart Grid Resource Center -

<http://www.ntca.org/smart-grid/ntca-smart-grid-resource-center.html>

National Cable Television Association (NCTA) - <http://www.ncta.com/>

Legislative & Regulatory Issues - <http://www.ncta.com/Issues.aspx>

CableLabs - <http://www.cablelabs.com/>

Cable in the Classroom (CIC) - <http://www.ciconline.org/>

Society of Cable Telecommunications Engineers (SCTE) -
<http://www.scte.org/default.aspx>

Technical Resources - <http://www.scte.org/resources/resources.aspx>

SCTE Cactus Chapter (Phoenix) - <http://chapter.scte.org/cactus/>

Telecommunications Industry Association (TIA) - <http://www.tiaonline.org/>

Policy - <http://www.tiaonline.org/policy/>

Standards - <http://www.tiaonline.org/standards/>

Resources - <http://www.tiaonline.org/resources/>

Telecom Association - <http://www.telecomassociation.com/>

Voice & data telecom agents, channel partners, independent consultants, network service integrators, business phone system equipment VARs & vendors

Fiber to the Home (FTTH) Council - <http://www.ftthcouncil.org/>

Knowledge Center - <http://www.ftthcouncil.org/en/knowledge-center>

FTTH Fiber Primer 2011 - http://s.ftthcouncil.org/files/bbp_marapr_primer_2011.pdf

Regulatory - <http://www.ftthcouncil.org/en/regulatory/>

The Fiber Optic Association, Inc. - <http://www.thefoa.org/>

FTTx: Fiber To The Home/Premises/Curb - <http://www.thefoa.org/FTTX/index.html>

FOA Guide To Fiber Optics & Premises Cabling -
<http://www.thefoa.org/tech/ref/contents.html>

FOA Reference Guide to Outside Plant Fiber Optics (book) -
<http://www.thefoa.org/FOArgOSP.html>

Communications Workers of America (CWA) - <http://www.cwa-union.org/>

Telecommunications - <http://www.cwa-union.org/issues/entry/c/telecommunications>

Telecom Policy - <http://www.cwa-union.org/issues/entry/c/telecom-policy>

BICSI - <https://www.bicsi.org/>

BICSI Standards Program - <https://www.bicsi.org/double.aspx?l=3672,3306&r=3308>

BICSI Bookstore - <https://www.bicsi.org/bookstore.aspx>

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Arizona Nonprofit Organizations and Trade Associations:

Arizona Telecommunications & Information Council (ATIC) - <http://arizonatele.com/>

ATIC is an economic development foundation that functions as Arizona's recognized and authoritative organization guiding technology policy development, serving as a leading source of information and expertise on telecommunications and information technology matters. ATIC develops, promotes and supports initiatives and guides adoption of effective public policies that encourages wide-scale deployment and availability of telecommunication services and information technologies to insure economic prosperity for the Arizona community, expand the region's global competitive advantage, enable continued educational advancement, and support an enhanced quality of life.

ATIC Strategy Committee - <http://arizonatele.com/atic/strategy/default.htm>

ATIC DHS WiFi Security Project for First Responders (2006) - <http://www.arizonatele.com/atic/wireless/>

ATIC Multi-tenant Building Telecom Access Study (MBTAS 2000) - <http://www.researchedge.com/MBTAS/>

Arizona Telecommunications & Information Institute (ATI Institute) - <http://aztii.org/>

ATI Institute is dedicated to supporting and promoting initiatives in the area of advanced telecommunications and information infrastructure that lead to effective deployment and availability of innovative and state-of-the-art broadband services and information technologies for the entire Arizona community.

Arizona New Mexico Cable Television Association (AZ-NMCTA) - <http://www.azcable.org/>

AZ-NMCCA works closely with state and federal lawmakers to implement a positive legislative program for the cable television industry. AZ-NMCCA has successfully obtained state theft of service legislation, codified a state sales tax exemption, put a cap on state license fees, and was instrumental in developing the 1984 & 1996 Federal Cable Communications Acts. AZ-NMCCA offers guidance and assistance to cable television systems in dealing with local government relations issues.

Society of Cable Telecommunications Engineers (SCTE) - <http://www.scte.org/default.aspx>

SCTE Cactus Chapter (Phoenix) - <http://chapter.scte.org/cactus/>

Arizona Wireless Association (AZWA) - <http://azwa.org/>

AZWA seeks to cultivate relationships within the wireless industry and with Arizona's cities and towns and to create a unified voice that supports the development of quality wireless networks, the enhancement of the communities we serve, and a spirit of charitable giving.

Arizona Association for Economic Development (AAED) - <http://www.aaed.com/>

Arizona Economic Development Directory -
<http://www.ecodevdirectory.com/arizona.htm>

The League of Arizona Cities and Towns - <http://www.azleague.org/>

Member Cities and Towns -
<http://www.azleague.org/index.cfm?fuseaction=about.cities>

Legislative Issues - <http://www.azleague.org/index.cfm?fuseaction=legislative.main>

Resources & Research -
<http://www.azleague.org/index.cfm?fuseaction=resources.main>

Arizona Chamber of Commerce and Industry - <http://www.azchamber.com/>

Policy Briefs & Publications - <http://www.azchamber.com/policy/policy-briefs>

Useful Links - <http://www.azchamber.com/about/useful-links>

Local Chambers Directory -
<http://www.azchamber.com/localchambers/index.cfm?ID=34>

**International City/County Management Association (ICMA) -
<http://icma.org/en/icma/home>**

Arizona City/County Management Association - <http://www.azmanagement.org/>

Arizona Councils of Government (COGs)

**Central Arizona Association of Governments (CAAG) -
<http://www.caagcentral.org/>**

Maricopa Association of Governments (MAG) - <http://www.mag.maricopa.gov/>

Northern Arizona Council of Governments (NACOG) - <http://www.nacog.org/>

Pima Association of Governments (PAG) - <http://www.pagnet.org/>

**Southeastern Arizona Governments Organization (SEAGO) -
<http://www.seago.org/>**

Western Arizona Council of Governments (WACOG) - <http://www.wacog.com/>

Arizona Technology Council (AZTC) - <http://www.aztechcouncil.org/>

Technology Advocacy & Technology Public Policy -
<http://www.aztechcouncil.org/advocacy>

Arizona Technology Workforce Study (9/11) -
<http://www.aztechcouncil.org/External/WCPages/WCWebContent/WebContentPage.aspx?ContentID=1132>

TechConnect Magazine -
<http://www.aztechcouncil.org/cwt/external/wcpages/initiatives/techconnect.aspx>

Arizona Energy Consortium (AEC) - <http://www.aztechcouncil.org/committees/aec>

In Cooperation with ASU W. P. Carey School of Business L. William Seidman
Research Institute

Arizona's Technology Workforce: Issues, Opportunities, and Competitive
Pressures (9/11) Executive Summary -

<http://www.aztechcouncil.org/External/WCPages/WCWebContent/WebContentPage.aspx?ContentID=1133>

Arizona's Technology Workforce: Issues, Opportunities, and Competitive
Pressures (9/11) Study -

<http://www.aztechcouncil.org/External/WCPages/WCWebContent/WebContentPage.aspx?ContentID=1132>

Tucson Regional Economic Opportunities (TREO) - <http://treoaz.org/>

Data Center - <http://treoaz.org/Data-Center.aspx>

Arizona Investment Council (AIC) - <http://www.arizonaic.org/>

Current Utility News - <http://www.arizonaic.org/news/current-news>

Investor Links - <http://www.arizonaic.org/investorlinks>

Greater Arizona eLearning Association (GAZeL) - <http://gazel.org/>

Directory of Providers of eLearning Technologies and Services -
<http://gazel.org/products>

eLearning System for Arizona Teachers and Students (eSATS) - <http://esats.org/>

Arizona Health-e Connection (AzHeC) - <http://www.azhec.org/>

Health Information Network of Arizona (HINAz) - <http://www.ehealthnetworkaz.org/>

Arizona Telemedicine Program (ATP) - <http://www.telemedicine.arizona.edu/>

Arizona Telemedicine Council - <http://www.telemedicine.arizona.edu/atc.cfm>

Arizona Telemedicine Network - <http://www.telemedicine.arizona.edu/network.cfm>

Southwest Telehealth Resource Center (SWTRC) - <http://www.southwesttrc.org/>

Science Foundation Arizona (SFaz) - <http://www.sfaz.org/>

STEM Education initiative - <http://www.sfaz.org/live/page/stem>

STEM Immersion Matrix - <http://www.sfaz.org/stemimmersion>

Information and Communications Technology Research -
<http://www.sfaz.org/live/collection/research/10714>

Arizona BioIndustry Association (AZBio) - <http://www.azbio.org/>

Flinn Foundation Arizona's Bioscience Roadmap - <http://www.flinn.org/bio-roadmap>

Arizona Nanotechnology Cluster - <http://www.aznano.org/>

Arizona Grantmakers Forum (AGF) - <http://www.arizonagrantmakersforum.org/>

Resources - <http://www.arizonagrantsmakersforum.org/resources/resources.aspx>

Nonprofits Resources -

<http://www.arizonagrantsmakersforum.org/resources/ForNonprofits.aspx>

Coalition for a Connected West - <http://www.connectedwest.org/>

Arizona - <http://www.connectedwest.org/states/arizona/>

CANAMEX Corridor Project - <http://www.canamex.org/>

Infrastructure - <http://www.canamex.org/canamex-trade-route/infrastructure/>

Urban Land Institute (ULI) Arizona Chapter - <http://arizona.uli.org/>

Strategic Plan 2012-2014 -

<http://arizona.uli.org/~media/DC/Arizona/Documents/Publications/ARIZONA%20Strategic%20Plan%202012%202014%20042511.ashx>

Community Plan -

<http://arizona.uli.org/sitecore/content/District%20Councils/Sites/ULI%20Arizona/Community%20Building/CommunityPlan.aspx>

American Public Works Association (APWA) Arizona Chapter - <http://arizona.apwa.net/>

Intelligent Transportation Society of Arizona (ITS AZ) - <http://www.itsaz.org/>

Arizona Section of Institute of Transportation Engineers (AZITE) - <http://azite.org/>

Arizona Association of County Engineers (AACE) - <http://www.azace.org/>

American Council of Engineering Companies (ACEC) of Arizona - <http://www.acecaz.org/>

International Right of Way Association (IRWA) Region 1 (AZ, CA, HI, NV) - <http://www.irwaonline.org/eweb//DynamicPage.aspx?Webcode=region01>

Phoenix Chapter - <http://www.irwachapter28.org/>

Tucson Chapter - <http://www.irwa73.org/>

National eLearning and Technology in Education Resources:

U.S. Department of Education - <http://www.ed.gov>

Infrastructure: Access and Enable -

<http://www.ed.gov/technology/netp-2010/infrastructure-access-and-enable>

Institute of Education Sciences (IES) - <http://ies.ed.gov/>

Data and Tools - <http://ies.ed.gov/data.asp>

Resources for Researchers - <http://ies.ed.gov/resourcesforresearchers.asp>

Funding Opportunities for Research and Research Training -

<http://ies.ed.gov/funding/>

Universal Service Administrative Company (USAC) - <http://www.usac.org/>

Schools and Libraries Program (E-Rate) - <http://www.usac.org/sl/>

Eligible Services List 2013 -

http://www.usac.org/res/documents/sl/pdf/ESL_archive/EligibleServicesList-2013.pdf

U.S. Congressional Research Service (CRS) - <http://www.loc.gov/crsinfo/>

Federation of American Scientists (FAS) CRS Reports - <http://www.fas.org/sgp/crs/>

Science, Technology, Engineering, and Mathematics (STEM) Education: A Primer (8/1/12) - <http://www.fas.org/sgp/crs/misc/R42642.pdf>

An Analysis of STEM Education Funding at the NSF: Trends and Policy Discussion (4/9/12) - <http://www.fas.org/sgp/crs/misc/R42470.pdf>

National Education Association (NEA) - <http://www.nea.org/>

Legislation Action Center - <http://www.nea.org/home/LegislativeActionCenter.html>

Reference Center - <http://www.nea.org/home/32073.htm>

Council of Chief State School Officers (CCSSO) - <http://www.ccsso.org/>

Legislation & Advocacy -

http://www.ccsso.org/What_We_Do/Legislation_and_Advocacy.html

Common Core State Standards Initiative - <http://www.corestandards.org/>

Resources - <http://www.corestandards.org/resources>

Common Core, Inc. - <http://commoncore.org/>

Common Core Curriculum Mapping Project - <https://commoncore.org/maps/>

Digital Resources - http://commoncore.org/maps/resources/digital_resources

Our Reports - <http://commoncore.org/ourreports.php>

Partnership for Assessment of Readiness for College and Careers (PARCC) - <http://www.parcconline.org/>

Assessment Blueprints and Test Specifications - <http://www.parcconline.org/assessment-blueprints-test-specs>

PARCC Technology Guidance - <http://www.parcconline.org/technology>

Assessment Administration Capacity Planning Tool (3/13) - http://www.parcconline.org/sites/parcc/files/PARCCCapacityPlanningTool_3-5-13FINAL4-12-13.xlsx

Assessment Administration Capacity Planning Tool User's Guide (3/13) - http://www.parcconline.org/sites/parcc/files/UserGuideforAssessmentAdministrationCapacity%20PlanningTool_FINAL.pdf

Frequently Asked Questions - http://www.parcconline.org/sites/parcc/files/PARCCFAQ_5-30-13.pdf

Glossary - http://www.parcconline.org/sites/parcc/files/PARCCGlossary_5-30-13.pdf

iNACOL (International Association for K-12 Online Learning) - <http://www.inacol.org/>

Advocacy - <http://www.inacol.org/advocacy/>

Research - <http://www.inacol.org/research/>

State Educational Technology Directors Association (SETDA) - <http://www.setda.org/>

ARRA Information and Resources - <http://www.setda.org/web/guest/ARRAresources>

National Education Technology Plan - <http://www.setda.org/web/guest/NETP>

Profiling Educational Technology Integration (PETI) resources - <http://www.setda.org/web/guest/peti>

SETDA Publications - <http://www.setda.org/web/guest/publications>

SETDA Research - <http://www.setda.org/web/guest/setdaresearch>

The Broadband Imperative: Recommendations to Address K-12 Education Infrastructure Needs Report (5/12) - http://www.setda.org/c/document_library/get_file?folderId=353&name=DLFE-1517.pdf

The Bill & Melinda Gates Foundation - <http://www.gatesfoundation.org/>

U.S. Libraries - <http://www.gatesfoundation.org/united-states-libraries/Pages/overview.aspx>

Schools, Health and Libraries Broadband Coalition (SHLB) - <http://www.shlb.org/>

Initiatives - <http://www.shlb.org/initiatives>

Resources - <http://www.shlb.org/resources>

ASCD (formerly the Association for Supervision and Curriculum Development) - <http://www.ascd.org/>

EduCore (Tools for Teaching the Common Core) - <http://educore.ascd.org/>

About the Common Core State Standards -

<http://educore.ascd.org/channels/02d1bb32-0584-4323-908e-df822f4fc68f>

Fulfilling the Promise of the Common Core State Standards: Moving from Adoption to Implementation to Sustainability Report -

<http://educore.ascd.org/resource/Download/1d60f46d-b786-41d1-b059-95a7c4eda420>

American Council on Education (ACE) - <http://www.acenet.edu/>

Technology in Higher Ed - <http://www.acenet.edu/higher-education/topics/Pages/Technology.aspx>

ACE to Forge New Ground in MOOC Evaluation and Research Effort (1/15/13) -

<http://www.acenet.edu/news-room/Pages/ACE-to-Forge-New-Ground-in-MOOC-Evaluation-and-Research-Effort.aspx>

The Center for Education Reform - <http://www.edreform.com/>

Online Learning - <http://www.edreform.com/issues/online-learning/>

CER's Digital Learning Toolkit (12/11) - http://www.edreform.com/wp-content/uploads/2012/04/CER_DigitalLearning_Toolkit.pdf

Education Week Magazine - <http://www.edweek.org/>

Digital Directions - <http://www.edweek.org/dd/>

E-Learning Topic Area - <http://www.edweek.org/topics/e-learning/index.html>

Preparing for Change Report PDF (1/12) -

<http://www.edweek.org/media/preparingforchange-17standards.pdf>

E-Learning Series Reports - <http://www.edweek.org/ew/collections/e-learning-2010/e-learning/>

Technology Topic Area - <http://www.edweek.org/topics/technology/index.html>

Technology Counts Reports - <http://www.edweek.org/ew/tc/index.html>

Research Topic Area - <http://www.edweek.org/topics/research/index.html>

Arizona Topic Area - <http://www.edweek.org/topics/states/arizona/index.html>

The Education Trust - <http://www.edtrust.org/>

Our Advocacy Agenda - <http://www.edtrust.org/issues/our-advocacy-agenda>

Resources - <http://www.edtrust.org/dc/resources/>

Achievement and Opportunity in America: Where Are We? What Can We Do?

Critical Steps for Arizona? Presentation to Arizona Legislators (1/16/13) -

http://www.edtrust.org/sites/edtrust.org/files/publications/files/az.phoenix.AZStateLegislators.final_2013.pptx

Digital Learning Now - <http://digitallearningnow.com/>

10 Elements of High Quality Digital Learning - <http://digitallearningnow.com/ten->

[elements-of-high-quality-digital-learning/](#)

EDUCAUSE - <http://www.educause.edu/>

Research and Publications - <http://www.educause.edu/research-and-publications>

EDUCAUSE Library - <http://www.educause.edu/library>

Information Literacy - <http://www.educause.edu/library/information-literacy>

EDUCAUSE Core Data Service (CDS) -
<http://www.educause.edu/research-and-publications/research/core-data-service>

American Educational Research Association (AERA) - <http://www.aera.net/>

Education Research -
<http://www.aera.net/EducationResearch/tabid/10065/Default.aspx>

Publications - <http://www.aera.net/Publications/tabid/10067/Default.aspx>

Policy & Advocacy -
<http://www.aera.net/ResearchPolicyAdvocacy/tabid/10064/Default.aspx>

Edutopia (George Lucas Educational Foundation) - <http://www.edutopia.org/>

Technology Integration Core Strategy - <http://www.edutopia.org/technology-integration>

Special Reports - <http://www.edutopia.org/edutopia-special-reports>

T.H.E. Journal - <http://thejournal.com/Home.aspx>

21st Century School Resource Center -
<http://thejournal.com/pages/resource-centers/resource-center-21st-century.aspx>

GSV Advisors - <http://gsvadvisors.com/>

American Revolution 2.0: How Education Innovation is Going to Revitalize America and Transform the U.S. Economy (7/4/12) - <http://gsvadvisors.com/wordpress/wp-content/themes/gsvadvisors/American%20Revolution%202.0.pdf>

Fall of the Wall: Capital Flows to Education Innovation (7/12) -
http://gsvadvisors.com/wordpress/wp-content/themes/gsvadvisors/GSV%20Advisors_Fall%20of%20the%20Wall_2012-8-3.pdf

Gooru Search Engine for Learning - <http://www.goorulearning.org/>

About Gooru - <http://about.goorulearning.org/>

FIRST Robotics Competition - <http://www.usfirst.org/>

Regional Contacts - <http://www.usfirst.org/regional-contacts>

Market Data Retrieval (MDR, a D&B Company) - <http://www.schooldata.com/>

Sales Solutions - <http://www.schooldata.com/mdrsalessol.asp>

K-12 Catalog - http://www.schooldata.com/pdfs/MDR_Ed_catalog.pdf

College Catalog - http://www.schooldata.com/pdfs/MDR_College_Catalog.pdf

Education MarketView (Online) -
http://www.schooldata.com/mdrmarketview_home.asp

Subscription Levels - <http://www.schooldata.com/mdrmvfeatures.asp>

Free Trial Subscription (15 Days) -
<http://forms.schooldata.com/?elqPURLPage=10>

MDR School Directories (Print) - <http://www.schooldata.com/mdrdir.asp>

Sample Directory Listing -
http://www.schooldata.com/mdrdir_sample.asp

Resources - <http://www.schooldata.com/mdrresource.asp>

Industry Links - <http://www.schooldata.com/mdrindustrylinks.asp>

Federally Funded Education Programs 2012 -
http://www.schooldata.com/pdfs/FederalFundingGuide_2012.pdf

MCH Strategic Data - <http://www.mchdata.com/>

Quality Education Data (QED) - <http://www.mchdata.com/qed>

Education Data Products - <http://www.mchdata.com/products/education.html>

MCH Early Childhood & K-12 Education Catalog -
http://www.mchdata.com/PDFs/MCH_Early_Childhood_Catalog.pdf

School Technology Survey Briefing 2012 -
http://www.mchdata.com/PDFs/MCH_2012_School_Technology_Survey_Briefing.pdf

Social Media Marketing in Education (2011) -
http://www.mchdata.com/PDFs/Social_Media_Marketing_in_Education.pdf

Arizona eLearning and Technology in Education Resources:

Arizona Governor's Office - <http://www.azgovernor.gov/>

Governor's Arizona Ready Education Council - <http://www.arizonaready.com/> & <http://azgovernor.gov/AzReady/>

Arizona Department of Education - <http://www.azed.gov/>

Educational Technology Group - <http://www.azed.gov/educational-technology/>

E-Rate - <http://www.azed.gov/educational-technology/e-rate/>

Technology Plans - <http://www.azed.gov/educational-technology/technology-plans/>

Multimedia Resource Links - <http://www.azed.gov/educational-technology/2011/09/14/multimedia-resource-links/>

Arizona's Common Core Standards - <http://www.azed.gov/standards-practices/common-core-state-standards/>

Resources and Tools - <http://www.azed.gov/standards-practices/resources-and-tools/>

School Readiness Planning for PARCC (5/30/13) - <http://www.azed.gov/standards-development-assessment/2013/05/30/school-readiness-planning-parcc/>

Information Technology - <http://www.azed.gov/information-technology/>

Indian Education - <http://www.azed.gov/indian-education/>

Arizona State Library, Archives and Public Records - <http://azlibrary.gov/>

E-Rate Resources - <http://azlibrary.gov/erate/>

Library Services and Technology Act (LSTA) in Arizona - <http://www.azlibrary.gov/lsta/>

Science Foundation Arizona (SFAz) - <http://www.sfaz.org/>

STEM Education initiative - <http://www.sfaz.org/live/page/stem>

STEM Immersion Matrix - <http://www.sfaz.org/stemimmersion>

Arizona State University (ASU) - <http://www.asu.edu/>

ASU Education Innovation - <http://edinnovation.asu.edu/>

ASU Technology Based Learning and Research (TBLR) - <http://tblr.asu.edu/>

Northern Arizona University (NAU) - <http://www.nau.edu/>

Education Technology Consortium (ETC, formerly APSCC) - <http://apsc.org/>

Greater Arizona eLearning Association (GAZeL) - <http://gazel.org/>

Directory of Providers of eLearning Technologies and Services - <http://gazel.org/products>

eLearning System for Arizona Teachers and Students (eSATS) - <http://esats.org/>

Grand Challenge: Transforming Arizona's K-12 Education via eLearning Based Systems Design - <http://esats.org/Documents/GrandChallengeDocument.pdf>

Arizona Technology in Education Association (AzTEA) - <http://aztea.org/>

Related Organizations - <http://aztea.org/related-organizations/>

Arizona Science Teachers Association (ASTA) - <https://www.azsta.org/>

Websites (Members Only) - <https://www.azsta.org/websites>

ASSET (Arizona School Services through Educational Technology, educational arm of Eight Public Television/KAET) - <http://asset.asu.edu/>

PBS LearningMedia - <http://az.pbslearningmedia.org/>

Research - <http://www.asset.asu.edu/new/research.html>

National Telehealth Resources:

U.S. Department of Health and Human Services (HHS) - <http://www.hhs.gov/>

Office of the National Coordinator for Health Information Technology - http://healthit.hhs.gov/portal/server.pt/community/healthit_hhs_gov_home/1204

U.S. Health Resources and Services Administration (HRSA) - <http://www.hrsa.gov/>

Rural Health - <http://www.hrsa.gov/ruralhealth/index.html>

Grants - <http://www.hrsa.gov/ruralhealth/grants/index.html>

U.S. National Library of Medicine (NLM) - <http://www.nlm.nih.gov/>

PubMed/MEDLINE - <http://www.ncbi.nlm.nih.gov/pubmed/>

Consumer Health - <http://www.nlm.nih.gov/medlineplus/>

MedlinePlus Connect (Linking Patient Portals and EHRs to Consumer Health Information) - <http://www.nlm.nih.gov/medlineplus/connect/overview.html>

Office of the National Coordinator for Health Information Technology (ONC) HealthIT.gov - <http://www.healthit.gov/>

Policy Researchers & Implementers - <http://www.healthit.gov/policy-researchers-implementers>

Providers & Professionals - <http://www.healthit.gov/providers-professionals>

Patients & Families - <http://www.healthit.gov/patients-families>

Benefits of Electronic Health Records (EHRs) - <http://www.healthit.gov/providers-professionals/benefits-electronic-health-records-ehrs>

Policymaking, Rules, & Regulation: Meaningful Use - <http://www.healthit.gov/policy-researchers-implementers/meaningful-use>

Centers for Medicare & Medicaid Services - <http://www.cms.gov/>

EHR Incentive Programs - <http://www.cms.gov/Regulations-and-Guidance/Legislation/EHRIncentivePrograms/index.html?redirect=/EHRIncentivePrograms>

Research, Statistics, Data & Systems - <http://www.cms.gov/Research-Statistics-Data-and-Systems/Research-Statistics-Data-and-Systems.html>

Universal Service Administrative Company (USAC) - <http://www.usac.org/>

Rural Health Care - <http://www.usac.org/rhc/>

Health Information Management & Systems Society (HIMSS) - <http://www.himss.org/>

American Medical Informatics Association (AMIA) - <http://www.amia.org/>

American Telemedicine Association (ATA) - <http://www.americantelemed.org/>

Public Policy & Advocacy -

<http://www.americantelemed.org/get-involved/public-policy-advocacy/policy-issues>

ATA Standards & Guidelines -

<http://www.americantelemed.org/practice/standards/ata-standards-guidelines>

Telemedicine Buyer's Guide - <http://atatelemedirectory.com/>

National Telecommunications Cooperative Association (NTCA) - <http://www.ntca.org/>

Advocacy Issues - <http://www.ntca.org/advocacy/advocacy-issues/>

Rural Health Care -

<http://www.ntca.org/advocacy/ntca-health-care-update-august-14-2009.html>

Continua Health Alliance - <http://www.continuaalliance.org/>

Connected Health Vision -

<http://www.continuaalliance.org/connected-health-vision.html>

Health Transformation Institute (HTI) - <http://www.healthcaretransformationinstitute.org/>

Joint venture of the U of A, ASU, and the Chan Soon-Shiong Family Foundation

Engineering to Create a Health Care System -

<http://healthcaretransformationinstitute.org/page/engineering-create-health-care-system>

A Roadmap to High-Value Healthcare Delivery (7/12) -

<http://www.healthcaretransformationinstitute.org/page/publications-0>

Report PDF -

http://healthcaretransformationinstitute.org/sites/default/files/HVHC_070612%20final.pdf

Useful Links - <http://www.healthcaretransformationinstitute.org/page/useful-links>

Biotechnology Industry Organization (BIO) - <http://www.bio.org/>

Battelle/BIO State Bioscience Industry Development 2012 -

<http://www.bio.org/articles/battellebio-state-bioscience-industry-development>

Report PDF (Arizona state profile on pages 50-51) -

http://www.bio.org/sites/default/files/v3battelle-bio_2012_industry_development.pdf

Coalition for a Connected West - <http://www.connectedwest.org/>

mHealth - <http://www.connectedwest.org/category/mhealth/>

National Emergency Medical Services Management Association - <http://nemsma.org/>

Arizona Telehealth Resources:

Arizona Governor's Office - <http://www.azgovernor.gov/>

Arizona Governor's Office of Health Information Exchange (HIE) - <http://hie.az.gov/>
(Migrating to ADOA ASET for oversight)

Strategic Plan (3/11) -

http://hie.az.gov/docs/app_plans/AZHIEStrategicPlanv1_10.pdf

ASET Unconnected Healthcare Providers Health Information Exchange (HIE)
Grant Program Guidance (10/1/12) -

http://hie.az.gov/docs/app_plans/ASET_Unconnected_Providers_Program_Guidance_Final.pdf

Arizona Commerce Authority (ACA) - <http://www.azcommerce.com/>

Bioscience & Healthcare -

<http://www.azcommerce.com/industries/bioscience-health-care/>

Arizona Health-e Connection (AzHeC) - <http://www.azhec.org/>

Arizona HIE Marketplace - http://www.azhec.org/?page=HIE_Marketplace

Health Information Network of Arizona (HINAZ) - <http://www.ehealthnetworkaz.org/>

Arizona Telemedicine Program (ATP) - <http://www.telemedicine.arizona.edu/>

Arizona Telemedicine Council - <http://www.telemedicine.arizona.edu/atc.cfm>

Arizona Telemedicine Network - <http://www.telemedicine.arizona.edu/network.cfm>

ATP Map (9/12) -

<http://www.telemedicine.arizona.edu/app/sites/default/files/u5/ATP%20Map%20Sept%202012.pdf>

Southwest Telehealth Resource Center (SWTRC) - <http://www.southwesttrc.org/>

Health Information Network of Arizona (HINAZ) - <http://www.hinaz.org/>

What is Health Information Exchange? - <http://www.hinaz.org/health-information-exchange>

Resources - <http://www.hinaz.org/resources>

Arizona Health Information Management Association (AzHIMA) - <http://azhima.org/>

Healthcare Information & Management Systems Society (HIMSS) Arizona Chapter - <http://azhimss.org/>

Advocacy - <http://azhimss.org/advocacy/advocacy.html>

Arizona State Physicians Association (ASPA) - <http://www.azspa.com/>

ASPA Connected Community (Practice Management, EHR & Clinical Integration Services) - <http://www.aspaconnectedcommunity.com/en/default.aspx>

Arizona Rural Health Association - <http://www.azrha.org/azrha/>

Links -

http://www.azrha.org/azrha/index.php?option=com_content&view=category&layout=blog&id=4&Itemid=5

Rural Assistance Center - <http://www.raconline.org/>

Arizona State Guide - <http://www.raconline.org/states/arizona.php>

Arizona State University (ASU) - <http://www.asu.edu/>

Center for Health Information and Research (CHiR) - <http://chir.asu.edu/home>

Arizona HealthQuery (AZHQ) Data - <http://chir.asu.edu/data>

Research - <http://chir.asu.edu/research>

University of Arizona (UA) - <http://www.arizona.edu/>

Center for Rural Health - <http://crh.arizona.edu/>

State Office of Rural Health (AzSORH) - <http://crh.arizona.edu/programs/sorh>

Rural Health Data & Resources - <http://crh.arizona.edu/resources>

Rural Health Publications - <http://crh.arizona.edu/publications>

Tribal Health Initiatives - <http://crh.arizona.edu/programs/tribal-health>

National eGovernment Resources:

Government Technology - <http://www.govtech.com/>

Center for Digital Government - <http://www.centerdigitalgov.com/>

Reports and Papers - <http://www.centerdigitalgov.com/papers>

Lessons in Applied Innovation from State and Local Government (5/12)

-

http://media2.govtech.com/documents/CDG12_Trending+Up+Paper.pdf

Government Technology Magazine - <http://www.govtech.com/>

Library - <http://www.govtech.com/library/>

Arizona Digital Government Summit 2012 (5/23-24/12 in Phoenix) -

<http://events.govtech.com/events/arizonadgs2012>

E-Government - <http://www.govtech.com/e-government/>

Digital Communities - <http://www.digitalcommunities.com/>

Wireless/Mobile/Broadband - <http://www.govtech.com/wireless/>

Public CIO Magazine - <http://www.govtech.com/pcio>

Emergency Management Magazine - <http://www.emergencymgmt.com/>

Library - <http://www.emergencymgmt.com/papers>

Pew Research Center - <http://pewresearch.org/>

Pew Internet & American Life Project - <http://www.pewinternet.org/>

Government Topic Area - <http://www.pewinternet.org/topics/Government.aspx>

Public Technology Institute - <http://pti.nw.dc.us/>

Web Management and E-Government Topic -

<http://www.pti.org/index.php/ptiee1/inside/C29>

Arizona eGovernment Resources:

Arizona State Legislature - <http://www.azleg.gov/>

Arizona Revised Statutes (ARS) -

<http://www.azleg.state.az.us/ArizonaRevisedStatutes.asp>

Arizona Department of Administration - <http://www.azdoa.gov/>

Arizona State Enterprise Technology (ASET) Office - <http://aset.azdoa.gov/>

eGov Program - <http://aset.azdoa.gov/e-gov>

Arizona State Library, Archives and Public Records - <http://azlibrary.gov/>

Digital Government Information Initiatives - <http://azlibrary.gov/diggovt/index.aspx>

National Discovery, Innovation and Research Resources

National Science Foundation (NSF) - <http://www.nsf.gov/>

About the NSF - <http://www.nsf.gov/about/>

Cyberinfrastructure Program Area - <http://www.nsf.gov/dir/index.jsp?org=OCI>

Computer & Information Science & Engineering Program Area -
<http://www.nsf.gov/dir/index.jsp?org=cise>

National LambdaRail (NLR) - <http://www.nlr.net/>

NLR Overview Brochure - http://www.nlr.net/docs/NLR_OverviewBrochure.pdf

NLR Innovation Examples - <http://www.nlr.net/action.php>

Presentations - <http://www.nlr.net/presentations.php>

Institute for Advanced Health Announces High Performance Secure "National Health Intranet" (7/27/11) - <http://www.nlr.net/release77.php>

University Community Next Generation Innovation Project (Gig.U) - <http://www.gig-u.org/>

FAQs - <http://www.gig-u.org/faqs>

Internet2 - <http://www.internet2.edu/>

Research - <http://www.internet2.edu/research/>

US Ignite Partnership - <http://us-ignite.org/>

Next Gen Applications - <http://us-ignite.org/next-gen-applications/>

Global Environment for Network Innovation (GENI funded by NSF) - <http://geni.net/>

Arizona Discovery, Innovation and Research Resources

Science Foundation Arizona (SFAz) - <http://www.sfaz.org/>

STEM Education initiative - <http://www.sfaz.org/live/page/stem>

Information and Communications Technology Research -
<http://www.sfaz.org/live/collection/research/10714>

Arizona Science Center - <http://www.azscience.org/>

Arizona Challenger Space Center - <http://www.azchallenger.org/>

National Smart Energy and Environmental Resources

U.S. Department of Energy (DoE) - <http://energy.gov/>

SmartGrid.gov - <http://www.smartgrid.gov/>

Database of State Incentives for Renewables and Efficiency (DSIRE) - <http://www.dsireusa.org/>

Links - <http://www.dsireusa.org/links/>

American Public Power Association (APPA) - <http://www.publicpower.org/>

Energy Efficiency Resource Central - <http://www.publicpower.org/EERC/index.cfm>

Smart Grid - <http://www.publicpower.org/legislative/legreg.cfm?itemnumber=28475>

National Science and Technology Council (NSTC) Smart Grid Report “A Policy Framework for the 21st Century Grid: Enabling Our Secure Energy Future” (6/11) - http://www.publicpower.org/files/PDFs/nstc_smart_grid_june2011.pdf

Community Broadband Current News -

<http://www.publicpower.org/legislative/index.cfm?ItemNumber=9878>

The Municipal and Utility Guidebook to Bringing Broadband Fiber Optics to Your Community (9/08) -

<http://www.publicpower.org/files/PDFs/MuniFiberReportFinalDraft.pdf>

Broadband Policy Area - <http://knowledgecenter.csg.org/kc/view-policy-areas/825>

National Association of Regulatory Utility Commissioners (NARUC) - <http://www.naruc.org/>

National Regulatory Research Institute (NRRI) - <http://www.nrri.org/>

Smart Grid Research Papers -

<http://www.nrri2.org/web/guest/research-papers?categoryId=351335>

National Electrical Manufacturers Association (NEMA) - <http://www.nema.org/>

Smart Grid & Cybersecurity Energy Policy -

<http://www.nema.org/Policy/Energy/Smartgrid/Pages/default.aspx>

The Smart Grid Return on Investment (ROI) Catalog (2/12) -

<http://www.nema.org/Policy/Energy/Smartgrid/Documents/NEMA-SGC-ROI.pdf>

High Performance Buildings Initiative -

<http://www.nema.org/Technical/HPB/Pages/default.aspx>

National Telecommunications Cooperative Association (NTCA) - <http://www.ntca.org/>

NTCA Smart Grid Resource Center -

<http://www.ntca.org/smart-grid/ntca-smart-grid-resource-center.html>

SmartEnergyPortal.net (Penton Media) - <http://smartenergyportal.net/>

RenewableEnergyWorld.com - <http://www.renewableenergyworld.com/>

Rocky Mountain Institute (RMI) - <http://www.rmi.org/>

Knowledge Center - <http://www.rmi.org/Knowledge-Center/Library>

Solar Energy Industries Association (SEIA) - <http://www.seia.org/>

Issues and Policy - <http://www.seia.org/policy>

Research and Resources - <http://www.seia.org/research-resources>

Arizona State Solar Policy - <http://www.seia.org/state-solar-policy/arizona>

Clean Edge - <http://www.cleantechopen.com/>

State Clean Energy Index - <http://www.cleantechopen.com/research/state-index>

U.S. Metro Clean Tech Index - <http://www.cleantechopen.com/research/metro-index>

CleanTech Open - <http://www.cleantechopen.com/>

Arizona Smart Energy and Environmental Resources

Arizona Governor's Office - <http://www.azgovernor.gov/>

Arizona.gov Official Web Site - <http://az.gov/>

Governor's Office of Energy Policy - <http://www.azenergy.gov/>

Renewable Energy - <http://www.azenergy.gov/Renewable/Default.aspx>

Arizona Department of Environmental Quality - <http://www.azdeq.gov/>

Arizona Commerce Authority (ACA) - <http://www.azcommerce.com/>

Solar Arizona - <http://www.azsolarstate.com/>

Research Partners - <http://www.azsolarstate.com/research-partners>

Arizona Corporation Commission (ACC) - <http://www.azcc.gov/>

Arizona Goes Solar - <http://arizonagoessolar.org/>

Arizona Technology Council (AZTC) - <http://www.aztechcouncil.org/>

Arizona Energy Consortium (AEC) - <http://www.aztechcouncil.org/committees/aec>

Arizona Solar Center - <http://azsolarcenter.org/>

Arizona Solar Energy Industries Association (AriSEIA) -
<http://www.arizonasolarindustry.org/>

Database of State Incentives for Renewables and Efficiency (DSIRE) -
<http://www.dsireusa.org/>

Arizona Incentives/Policies for Renewables & Efficiency -
<http://www.dsireusa.org/incentives/index.cfm?re=1&ee=1&spv=0&st=0&srp=1&state=AZ>

Arizona Students Recycling Used Technology (AZ StRUT) - <http://www.azstrut.org/>

National Public Safety Communications Resources:

National Telecommunications and Information Administration (NTIA) -
<http://www.ntia.doc.gov/>

Remarks of Deputy Assistant Secretary Gomez at PSCR Demonstration Network Stakeholders Meeting (3/6/12) -
<http://www.ntia.doc.gov/speechtestimony/2012/remarks-deputy-assistant-secretary-gomez-pscr-demonstration-network-stakeholder>

White House Fact Sheet: 21st-Century Communications for our First Responders (6/16/11) - <http://www.whitehouse.gov/the-press-office/2011/06/16/fact-sheet-21st-century-communications-our-first-responders>

Nationwide Public Safety Broadband Network Report (6/11)
<http://www.whitehouse.gov/sites/default/files/uploads/publicsafetyreport.pdf>

U.S. Congressional Research Service (CRS) - <http://www.loc.gov/crsinfo/>

Federation of American Scientists (FAS) CRS Reports Access -
<http://www.fas.org/sgp/crs/>

Public Safety Communications and Spectrum Resources: Policy Issues for Congress (9/1/10) - <http://www.fas.org/sgp/crs/misc/R40859.pdf>

U.S. DHS - <http://www.dhs.gov/>

Public Safety Broadband -
<http://www.dhs.gov/public-safety-broadband-fulfilling-911-commission-recommendation>

- Nationwide Public Safety Broadband Network Fact Sheet (PDF) -
http://www.dhs.gov/sites/default/files/publications/nppd/Nationwide%20Public%20Safety%20Broadband%20Network_Fact%20Sheet.pdf

- Public Safety Communications Evolution brochure (PDF) -
<http://www.safecomprogram.gov/library/Lists/Library/Attachments/330/Public%20Safety%20Communications%20Evolution%20Brochure.pdf>

State and Major Urban Area Fusion Centers-
<http://www.dhs.gov/state-and-major-urban-area-fusion-centers>

Information Sharing Environment (ISE) - <http://www.ise.gov/>

Border Security - <http://www.dhs.gov/border-security>

Cybersecurity - <http://www.dhs.gov/cybersecurity>

DHS Daily Open Source Infrastructure Report -
<http://www.dhs.gov/dhs-daily-open-source-infrastructure-report>

DHS State and Local Law Enforcement Resource Catalog -
<http://www.dhs.gov/publication/dhs-state-and-local-law-enforcement-resource-catalog>

Federal Emergency Management Agency (FEMA) - <http://www.fema.gov/>

Ready.gov - <http://www.ready.gov/>

National Preparedness Coalition - <http://community.fema.gov/connect.ti/READYNPM>

National Emergency Management Association (NEMA) - <http://www.nemaweb.org/>

State Emergency Management Director Handbook -
http://www.nemaweb.org/index.php?option=com_content&view=article&id=330&Itemid=432

International Association of Emergency Managers (IAEM) - <http://www.iaem.com/>

Resources - <http://www.iaem.com/page.cfm?p=resources/intro>

Public Safety Alliance (PSA) - <http://www.psafirst.org/>

Frequently Asked Questions (FAQ) - <http://www.psafirst.org/what-is-at-stake/faq/>

Building a Nationwide Broadband Public Safety Network (D Block Briefing, 3MB PDF)
- http://www.psafirst.org/uploads/documents/D_Block_Briefing_Documnet_Final_reduced.pdf

APCO International (Public Safety Communications) - <http://www.psconnect.org/Home/>

APCO International is the world's largest organization of public safety communications professionals. It serves the needs of public safety communications practitioners worldwide and the welfare of the general public as a whole by providing complete expertise, professional development, technical assistance, advocacy, and outreach.

Resources - <http://www.psconnect.org/Resources/AllLibraries/>
<http://educore.ascd.org/resource/Download/1d60f46d-b786-41d1-b059-95a7c4eda420>

National Emergency Medical Services Management Association - <http://nemsma.org/>

**Community Emergency Response Team (CERT) Program -
<http://www.citizencorps.gov/cert/>**

Arizona CERTs -
<http://www.citizencorps.gov/cc/CertIndex.do?reportsForState&cert=&state=AZ>

**Armed Forces Communications and Electronics Association (AFCEA) -
<http://www.afcea.org/>**

SIGNAL Magazine - <http://www.afcea.org/signal/>

Resources - <http://www.afcea.org/mission/intel/resource.asp>

Public Technology Institute - <http://pti.nw.dc.us/>

Public Safety Technology Topic - <http://www.pti.org/index.php/ptiee1/inside/C25>

**International City/County Management Association (ICMA) -
<http://icma.org/en/icma/home>**

Center for Public Safety Management -
http://icma.org/en/results/public_safety_management/home

Arizona Public Safety Communications Resources:

Arizona Department of Administration - <http://www.azdoa.gov/>

ASET Office - <http://aset.azdoa.gov/>

Public Safety Interoperable Communications (PSIC) - <http://www.azpsic.gov/>

Arizona Department of Public Safety (DPS) - <http://www.azdps.gov/>

Technical Services Division (TSD) - http://www.azdps.gov/About/Organization/Technical_Services/

Operational Communications (OpComm) Bureau - http://www.azdps.gov/About/Organization/Technical_Services/Operational_Communications/

Emergency Medical Services Communications (EMSCOM) - http://www.azdps.gov/About/Organization/Technical_Services/EMSCOM/

Arizona Department of Emergency and Military Affairs (DEMA) - <http://www.azdema.gov/>

Arizona Division of Emergency Management (ADEM) - <http://www.dem.azdema.gov/>

Operations Section - <http://www.dem.azdema.gov/operations/index.html>

Communications Logistics - <http://www.dem.azdema.gov/logistics/comm/comm.html>

Radio Systems - <http://www.dem.azdema.gov/logistics/comm/radiosys.html>

Mobile Communications - <http://www.dem.azdema.gov/logistics/comm/mobilecomm.html>

Arizona Department of Homeland Security (AZDOHS) - <http://www.azdohs.gov/>

Resources & Links - <http://www.azdohs.gov/Resources.asp>

Arizona Fusion Center (AKA Arizona Counter Terrorism Information Center - ACTIC) - <http://www.azactic.gov/>

Links & Resources - <http://www.azactic.gov/Links/>

Community Emergency Response Team (CERT) Program - <http://www.citizencorps.gov/cert/>

Arizona CERTs - <http://www.citizencorps.gov/cc/CertIndex.do?reportsForState&cert=&state=AZ>

National Native American Resources:

U.S. Department of the Interior - <http://www.interior.gov/>

Bureau of Indian Affairs - <http://www.bia.gov/>

Western Regional Office (Phoenix) -
<http://www.bia.gov/WhoWeAre/RegionalOffices/Western/index.htm>

Indian Health Service (HIS) - <http://www.ihs.gov/index.cfm>

EPA's American Indian Environmental Office - <http://www.epa.gov/indian/>

ED's Office of Indian Education (OIE) - <http://www.indianeducation.org/>

USA.gov - <http://www.usa.gov/>

Tribal Governments and Native Americans -
<http://www.usa.gov/Government/Tribal.shtml>

National Indian Education Association (NIEA) - <http://www.niea.org/>

Policy - <http://www.niea.org/Policy.aspx>

Research - <http://www.niea.org/Research.aspx>

National Congress of American Indians (NCAI) - <http://www.ncai.org/>

Policy Issues - <http://www.ncai.org/policy-issues>

Resources - <http://www.ncai.org/resources>

Native Public Media (NPM in Flagstaff, AZ) - <http://www.nativepublicmedia.org/>

Policy Program - <http://www.nativepublicmedia.org/programs/policy-program>

NPM Publications - <http://www.nativepublicmedia.org/publications>

Native American Rights Fund (NARF) - <http://www.narf.org/>

**Tribal Telecom 2013 (2/11-13/13 in Chandler) -
<http://www.tribaltelecomconference.com/>**

Law Office of Randal T. Evans, PLLC - <http://www.evanslawaz.com/>

Arizona Native American Resources:

Arizona Commerce Authority (ACA) - <http://www.azcommerce.com/>

Arizona Facts & Figures - <http://www.azcommerce.com/facts-and-figures/>

Arizona Community Profiles -
<http://www.azcommerce.com/facts-and-figures/community-profiles/>

Arizona Department of Tourism - <http://www.arizonaguide.com/>

American Indian Culture - <http://www.arizonaguide.com/things-to-do/native-cultures>

Arizona Department of Education - <http://www.azed.gov/>

Indian Education - <http://www.azed.gov/indian-education/>

Arizona Department of Health Services - <http://www.azdhs.gov/>

Native American Liaison - <http://www.azdhs.gov/diro/tribal/>

Arizona State Land Department (ASLD) - <http://www.land.state.az.us/>

Arizona State Forestry Division - <http://www.azsf.az.gov/>

Arizona Tribal Transportation (ADOT) - <http://www.aztribaltransportation.com/>

Arizona Commission of Indian Affairs (ACIA) - <http://www.azcia.gov/>

Links - <http://www.azcia.gov/links.asp>

Inter Tribal Council of Arizona (ITCA), Inc. - <http://www.itcaonline.com/>

Maps - http://itcaonline.com/?page_id=16

Other Links - http://itcaonline.com/?page_id=18

Arizona Indian Chamber of Commerce of Arizona - <http://aiccaz.com/>

Resources - <http://aiccaz.com/resources/>

Arizona Indian Gaming Commission (AIGC) - <http://www.azindiangaming.org/>

Arizona State University (ASU) - <http://www.asu.edu/>

Center for Indian Education (CIE) - <http://center-for-indian-education.asu.edu/>

Research - <http://center-for-indian-education.asu.edu/node/13>

Resources - <http://center-for-indian-education.asu.edu/node/5>

American Indian Policy Institute (AIPI) - <http://aiipi.clas.asu.edu/>

ASU Morrison Institute for Public Policy - <http://www.asu.edu/copp/morrison/>

University of Arizona (UA) - <http://www.arizona.edu>

Indigenous Peoples Law & Policy (IPLP) Program, UA James E. Rogers College of Law - <http://www.law.arizona.edu/depts/iplp/index.cfm>

IPLP Monthly Newsletter -
<http://www.law.arizona.edu/depts/iplp/newsletter/index.cfm>

Native Nations Institute for Leadership, Management and Policy (NNI), UA Udall Center for Studies in Public Policy - <http://www.nni.arizona.edu/>

Native Peoples Technical Assistance Office (NPTAO) -
<http://www.nptao.arizona.edu/>

U of A NPTAO Resources - <http://www.nptao.arizona.edu/resources.cfm>

UANativeNet (formerly ArizonaNativeNet) - <http://www.uanativenet.com/>

American Indian Language Development Institute's (AILDI) -
<http://www.u.arizona.edu/~aildi/>

Northern Arizona University (NAU) - <http://www.nau.edu/>

Center for American Indian Economic Development (CAIED) -
<http://www.cba.nau.edu/caied/>

Institute for Native Americans - <http://www.nau.edu/sbs/ina/> &
<http://www4.nau.edu/ina/>

Arizona State Library, Archives and Public Records - <http://www.lib.az.us/>

Tribal Libraries - <http://www.lib.az.us/libdir/typeSearch.aspx?RecordID=72bb5fb7-f82b-4574-94ef-270c72aac084>

National Tribal Telecommunications Association (NTTA) -
<http://www.nationaltribaltelecom.org/> and <http://www.gilanet.net/nttA.htm>

Primary members are Tribally owned and Operated telephone companies including in Arizona:

Fort Mojave Telecommunications, Inc. - <http://www.ftmojave.com/>

Gila River Telecommunications, Inc. - <http://www.gilanet.net/>

Hopi Telecommunications, Inc. (HTI) - <http://www.hopitelecom.com/>

Saddleback Communications (Salt River Pima-Maricopa Indian Community) - <http://www.saddlebackcomm.com/>

San Carlos Apache Telecommunications Utility, Inc. (SCATUI) -
<http://www.scatui.net/>

Tohono O'odham Utility Authority (TOUA) - <http://www.toua.net/>

Navajo Nation Telecommunication Regulatory Commission (NNTRC) -
<http://www.nntrc.org/>

Arizona Native Assets Coalition (ANAC) - <http://www.aznativeassets.org/>

Heard Museum of Native Cultures and Art (Phoenix) - <http://www.heard.org/>

Digital Library - <http://heard.org/digitallibrary/index.html>

Museum of Northern Arizona (MNA, Flagstaff) - <http://www.musnaz.org/>

Focus on the Land and Peoples of the Colorado Plateau

Center for Desert Archaeology (Tucson) - <http://www.cdarc.org/>

Archaeology Southwest Magazine -

<http://www.archaeologysouthwest.org/what-we-do/information/asw/>

Arizona Statistical Resources:

ASU Morrison Institute for Public Policy - <http://morrisoninstitute.asu.edu/>

Arizona Indicators - <http://arizonaindicators.org/>

UA Eller Economic and Business Research Center - <http://ebr.eller.arizona.edu/>

EBR Database Online (Subscription) -

http://ebr.eller.arizona.edu/datacenter/EBR_Database.aspx

Key Economic Indicators - <http://ebr.eller.arizona.edu/indicators/>

UA Eller Arizona's Economy Quarterly - <http://azeconomy.eller.arizona.edu/>

Arizona Department of Administration - <http://www.azdoa.gov/>

Office of Employment and Population Statistics - <http://www.azstats.gov/>

Publications - <http://www.azstats.gov/publications.aspx>

Arizona Employment Report (5/12) -

<http://www.azstats.gov/pubs/labor/PrMay12.pdf>

Arizona Joint Legislative Budget Committee (JLBC) - <http://www.azleg.gov/jlbc.htm>

Economic Analysis - <http://www.azleg.gov/jlbc/econdoc2.htm>

Arizona Governor's Office of Strategic Planning and Budgeting (OSPB) -
<http://www.ospb.state.az.us/>

Arizona Commerce Authority (ACA) - <http://www.azcommerce.com/>

Arizona Facts & Figures - <http://www.azcommerce.com/facts-and-figures/>

Arizona Community Profiles -

<http://www.azcommerce.com/facts-and-figures/community-profiles/>

Maps & GIS Data - <http://www.azcommerce.com/facts-and-figures/maps/>

Arizona Department of Economic Security - <https://www.azdes.gov/>

Reports - <https://www.azdes.gov/appreports.aspx>

Arizona Department of Health Services - <http://www.azdhs.gov/>

Vital Records, Health Data, & Evaluation - http://www.azdhs.gov/vit_dir.htm

Health Status and Vital Statistics Site - <http://www.azdhs.gov/plan/>

Arizona Health Status and Vital Statistics Annual Reports -

<http://www.azdhs.gov/plan/report/ahs/index.htm>

Arizona Department of Education - <http://www.azed.gov/>

Research and Evaluation Division - <http://www.azed.gov/research-evaluation/>

State Report Cards - <http://www.azed.gov/research-evaluation/report-cards/>

School and District Report Cards - <http://www10.ade.az.gov/ReportCard/>

Arizona State University (ASU) Libraries - <http://lib.asu.edu/>

Arizona Business Information - <http://libguides.asu.edu/content.php?pid=4687>

Arizona Business and Economic Statistics Guide - <http://libguides.asu.edu/bizstatAZ>

ArizonaEconomy.com (Elliot Pollack & Co.) - <http://www.edpco.com/>

Statistics: United States Economy - http://www.edpco.com/content/statistics_us.aspx

Statistics: Arizona Economy - http://www.edpco.com/content/statistics_arizona.aspx

US Census Bureau - <http://www.census.gov/>

American FactFinder - <http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>

Arizona QuickLinks - <http://quickfacts.census.gov/qfd/states/04000lk.html>

Arizona State & County QuickFacts -
<http://quickfacts.census.gov/qfd/states/04000.html>

Center for Economic Studies (CES) - <http://www.census.gov/ces/>

Longitudinal Employer-Household Dynamics (LEHD) -
<http://lehd.did.census.gov/led/>

Arizona State Data - <http://lehd.did.census.gov/led/partnersonly/arizona/>

American Community Survey - <http://www.census.gov/acs/www/>

Computer and Internet Use in the United States: 2010 -
<http://www.census.gov/hhes/computer/publications/2010.html>

Fedstats - <http://www.fedstats.gov/>

Arizona MapStats - <http://www.fedstats.gov/qf/states/04000.html>

**USDA Arizona Statistics -
http://www.nass.usda.gov/Statistics_by_State/Arizona/index.asp**

Data.gov - <http://www.data.gov/>

Interactive Datasets - <https://explore.data.gov/catalog/next-gen>

Raw Data Catalog - <https://explore.data.gov/catalog/raw/>

ThisWeKnow (Citizen Portal to Data.gov) -
<http://www.greenriver.com/portfolio/thisweknow.html>

U.S. Department of Commerce (DOC) - <http://www.commerce.gov/>

Bureau of Economic Analysis - <http://www.bea.gov/>

Regional Economic Accounts - <http://www.bea.gov/regional/>

U.S. Department of Labor - <http://www.dol.gov/>

Bureau of Labor Statistics - <http://www.bls.gov/>

Databases, Tables & Calculators by Subject - <http://www.bls.gov/data/>

Arizona Information - http://www.bls.gov/ro9/ro9_az.htm

National Bureau of Economic Research (NBER) - <http://nber.org/>

Data - <http://nber.org/data/>

Small Business Administration (SBA) - <http://www.sba.gov/>

SizeUp (Analyze Your Business) - <http://www.sba.gov/sizeup>

SizeUp FAQ - <http://sizeup.com/help/faq>

Local Resources - <http://www.sba.gov/category/navigation-structure/starting-managing-business/managing-business/local-resources>

SBA Arizona District Office - <http://www.sba.gov/about-offices-content/2/3097>

Small Business Development Centers (SBDC) - <http://www.asbdc-us.org/index.html>

SCORE - <http://www.score.org/>

Business Guides by Industry - <http://www.sba.gov/category/navigation-structure/starting-managing-business/managing-business/business-guides-industry>

Telecommunications & Media - <http://www.sba.gov/content/telecommunications-media>

City-Data.com - <http://www.city-data.com/>

Arizona City Data (Over 6000 Population) - <http://www.city-data.com/city/Arizona.html>

The Henry J. Kaiser Family Foundation - <http://www.kff.org/>

State Health Facts - <http://www.statehealthfacts.org/>

Arizona Profile - <http://www.statehealthfacts.org/profileglance.jsp?rgn=4&rgn=1>

Health Reform Source - <http://healthreform.kff.org/>

Research & Analysis - <http://healthreform.kff.org/en/research-and-analysis.aspx>

Kids Count (Annie E. Casey Foundation) -
<http://www.aecf.org/MajorInitiatives/KIDSCOUNT.aspx>

Knowledge Center - <http://www.aecf.org/KnowledgeCenter.aspx>

Data Center - <http://datacenter.kidscount.org/>

Arizona Data -

<http://datacenter.kidscount.org/data/bystate/StateLanding.aspx?state=AZ>

Arizona Children's Action Alliance (CAA) - <http://www.azchildren.org/>

Research and Reports -

<http://www.azchildren.org/display.asp?pagelid=11>

Census Data Online - <http://www.kidscount.org/census/>

Publications and Resources -

<http://www.aecf.org/KnowledgeCenter/PublicationsSeries/KCDatabookProds.aspx>

2011 KIDS COUNT Data Book -

<http://www.aecf.org/KnowledgeCenter/Publications.aspx?pubguid={E78A80B5-988E-4FB5-A070-8279A5170B35}>

Esri Business Analyst - <http://www.esri.com/software/businessanalyst/index.html>

Esri Updated Demographics - http://www.esri.com/data/esri_data/demographic.html

Data Variables - http://www.esri.com/data/esri_data/pdfs/esri-updated-demographics-data-list.pdf

Esri Community Analyst - <http://www.esri.com/software/arcgis/community-analyst>

Community Analyst Data - <http://www.esri.com/software/arcgis/community-analyst/variables>

Esri Demographic, Consumer, and Business Data -

http://www.esri.com/data/esri_data/demographic-overview/demographic/

Infogroup - <http://www.infogroup.com/>

InfoUSA.com - <http://www.infousa.com/>

ReferenceUSA - <http://www.referenceusa.com/>

Library Locator - <http://www.referenceusa.com/Static/LibraryLocator>

ReferenceUSA Data Modules -

<http://referenceusa-resourcecenter.com/about/database-descriptions/>

Resource Center - <http://referenceusa-resourcecenter.com/>

D&B Market Insight -

<http://www.dnb.com/sales-marketing/find-new-customers-markets/14909147-1.html>

Claritas (Nielsen) SiteReports - <http://www.claritas.com/sitereports/default.jsp>

Ranking America - <http://rankingamerica.wordpress.com/>

Community Toolkits, Economic and Financial Modeling:

Broadband Communities Magazine - <http://www.bbpmag.com/>

FTTH Financial Analyzers - <http://www.ftthanalyzer.com/>

Municipal Broadband - <http://www.bbpmag.com/MuniPortal/FTTHLand.php>

Public Broadband Resources - <http://www.bbpmag.com/MuniPortal/publicorg.php>

National E-Commerce Initiative's Connecting Communities - <http://www.connectingcommunities.info/>

Resources -

<http://srdc.msstate.edu/ecommerce/curricula/connectingcommunities/resources.html>

Rural Telecommunications Congress (RTC) - <http://www.ruraltelecon.org/pages/>

Broadband Planning - <http://www.ruraltelecon.org/pages/BroadbandPlanning.aspx>

Community Toolkit -

http://www.ruraltelecon.org/pages/Portals/0/Content_files/Community%20Toolkit%20Rough%20Outline%20%20REV%201.pdf

W2i Digital Inclusion Forum - <http://w2i.com/>

Broadband Adoption Toolkit - <http://broadbandadoptiontoolkit.com/>

Blandin Foundation (Minnesota) - <http://www.blandinfoundation.org/>

Broadband Initiatives - <http://broadband.blandinfoundation.org/>

Toolkit - <http://broadband.blandinfoundation.org/toolkit/>

Nebraska Broadband - <http://broadband.nebraska.gov/>

Engaging People. Linking the World: Broadband Planning Workbook -

http://etraining.unl.edu/c/document_library/get_file?uuid=d7b74d0f-c89b-4c74-907d-ec3331eebb03&groupId=1874&.pdf

I'll Vote for You If You Make My Netflix Work: The Five A's of Community Broadband in Colorado (Book by Frank Ohrtman) -

<http://www.illvoteforyouifyoumakemyflixwork.org/>

Strategic Networks Group (SNG) - <http://www.sngroup.com/>

Regional Economic Development -

<http://www.sngroup.com/sng-offerings/awareness-adoption-support/>

Digital Economy Index (DEI) -

<http://www.sngroup.com/sng-offerings/gap-need-demand-identified/>

Research Library - <http://www.sngroup.com/research-library/>

OSP Magazine - <http://www.ospmag.com/>

Planning Profitable Broadband Networks: GIS-Based Modeling and Analysis by Randy Frantz - <http://www.ospmag.com/issue/article/planning-profitable-broadband-networks>

Regional Economic Models, Inc. (REMI) - <http://www.remi.com/>

Policy Insight (PI+) - <http://www.remi.com/products/pi>

Microsoft Shape the Future Program - <http://www.microsoft.com/publicsector/ww/programs/shape-the-future/Pages/index.aspx>

Microsoft Commits to Bringing Technology Access to 1 Million Low-Income Youth (9/20/11) -

<http://www.microsoft.com/en-us/news/press/2011/sep11/09-20CGIPR.aspx>

The Arnold Group - <http://www.the-arnold-group.com/>

City of Charlotte Project L.I.F.T. - <http://projectliftcharlotte.org/>

Project L.I.F.T. Summary -

http://www.projectliftcharlotte.org/uploads/project_lift/docs/2011-01-27_cms_school_investment_study_group.pdf

Project L.I.F.T. Strategic Plan -

http://www.projectliftcharlotte.org/uploads/project_lift/docs/Project_LIFT_Strategic_Plan_021212.pdf

World Economic Forum - <http://www.weforum.org/>

Global Information Technology -

<http://www.weforum.org/issues/global-information-technology>

The Global Information Technology Report 2012 - Living in a Hyperconnected World - http://www3.weforum.org/docs/Global_IT_Report_2012.pdf

Network Readiness Index - <http://www.weforum.org/issues/global-information-technology/gitr-2012-data-platform>

Lone Eagle Consulting - <http://www.lone-eagles.com/>

Broadband Entrepreneurship and Digital Literacy Curriculum -

<http://lone-eagles.com/guides.htm>

Grant Writing Resources - <http://www.lone-eagles.com/granthelp.htm>

The Baller Herbst Law Group - <http://www.baller.com/>

Community Broadband - http://www.baller.com/comm_broadband.html

National Broadband Strategy - http://www.baller.com/national_broadband.html

State Restrictions on Community Broadband Services or Other Public Communications Initiatives (as of 7/1/11) -

[http://www.baller.com/pdfs/BallerHerbstStateBarriers\(7-1-11\).pdf](http://www.baller.com/pdfs/BallerHerbstStateBarriers(7-1-11).pdf)

A Practical Primer on Pole Attachments (update 3/1/12) -

<http://www.baller.com/pdfs/BallerHerbstPracticalPrimerPoleAttachments.pdf>

Institute for Local Self Reliance - <http://www.ilsr.org/>

Broadband Initiatives - <http://www.ilsr.org/initiatives/broadband/>

Broadband at the Speed of Light (4/12) -
<http://www.ilsr.org/broadband-speed-light/>

Community Broadband Networks - <http://www.muninetworks.org/>

Resources - <http://www.muninetworks.org/content/resources>

Publicly Owned Broadband Networks: Averting the Looming Broadband Monopoly (3/23/11) - <http://www.muninetworks.org/reports/publicly-owned-broadband-networks-averting-looming-broadband-monopoly>

Report - <http://www.newrules.org/sites/newrules.org/files/cmtty-bb-map.pdf>

New America Foundation - <http://newamerica.net/>

Public Media Policy, Spectrum Policy, and Rethinking Public Interest Obligations for the 21st Century (6/12) -
http://newamerica.net/publications/policy/public_media_policy_spectrum_policy_and_rethinking_public_interest_obligations_f

Report -
http://oti.newamerica.net/sites/newamerica.net/files/policydocs/PublicMedia_Spectrum_Paper_1.pdf

The Cost of Connectivity (7/12) -
http://newamerica.net/publications/policy/the_cost_of_connectivity

Report -
http://newamerica.net/sites/newamerica.net/files/policydocs/The_Cost_of_Connectivity.pdf

Open Technology Institute - <http://oti.newamerica.net/dashboard>

From the Digital Divide to Digital Excellence -
http://www.newamerica.net/publications/policy/from_the_digital_divide_to_digital_excellence

Report (2011) -
<http://www.newamerica.net/sites/newamerica.net/files/policydocs/NAF%20Municipal%20and%20Community%20Wireless%20Report.pdf>

New America Foundation: Experts Explore Measures to Close the Digital Divide Article (4/13/12) -
http://oti.newamerica.net/pressroom/2012/experts_explore_measures_to_close_the_digital_divide

Wireless Future Project - <http://wirelessfuture.newamerica.net/>

Measurement Lab (M-Lab) - <http://oti.newamerica.net/mlab>

Open Wireless Movement - <https://openwireless.org/>

Wireless Community Network (Wikipedia) -

http://en.wikipedia.org/wiki/Wireless_community_network

California Emerging Technology Fund (CETF) - <http://www.cetfund.org/>

Model Policies and Ordinances - <http://www.cetfund.org/investments/initiative-smart-communities/model-policies-ordinances>

A Resource Guide: Getting Connected for Economic Prosperity and Quality of Life (10/10) -

http://www.cetfund.org/files/CETF_Resource_Guide_Model_Policies_web_120207.pdf

Public Policy Institute of California (PPIC) - <http://www.ppic.org/>

Does Broadband Boost Local Economic Development Activity? (1/10) -

http://www.ppic.org/content/pubs/report/r_110jkr.pdf

Technical Appendix -

http://www.ppic.org/content/pubs/other/110JKR_appendix.pdf

Progressive Policy Institute (PPI) - <http://progressivepolicy.org/>

Communications Issues -

<http://www.progressivepolicy.org/category/issues/communications/>

Telecom Issues - <http://www.progressivepolicy.org/category/issues/telecom/>

Investment Heroes: Who's Betting on America's Future? (7/12) -

http://progressivepolicy.org/wp-content/uploads/2012/07/07.2012-Mandel_Carew_Investment-Heroes_Whos-Betting-on-Americas-Future.pdf

International Telecommunications Union (ITU) - <http://www.itu.int/>

Telecommunication Development Sector (ITU-D) - <http://www.itu.int/en/ITU-D/Pages/default.aspx>

Statistics - <http://www.itu.int/ITU-D/ict/>

Publications - <http://www.itu.int/en/publications/Pages/default.aspx>

The State of Broadband 2012: Achieving Digital Inclusion for All (09/12) -

<http://www.broadbandcommission.org/Documents/bb-annualreport2012.pdf>

Trends in Telecommunication Reform 2012: Smart Regulation for a Broadband World

- <http://www.itu.int/pub/D-REG-TTR.13-2012>

Measuring the Information Society 2012 - <http://www.itu.int/en/publications/ITU-D/Pages/publications.aspx?lang=en&media=electronic&parent=D-IND-ICTOI-2012>

Executive Summary (Free PDF) -

http://www.itu.int/dms_pub/itu-d/opb/ind/D-IND-ICTOI-2012-SUM-PDF-E.pdf

Full Report (minus Annex 4) - http://www.itu.int/ITU-D/ict/publications/idi/material/2012/MIS2012_without_Annex_4.pdf

Continental Automated Buildings Association (CABA) - <http://www.caba.org/>

Research Publications - <http://www.caba.org/research-publications>

Resources - <http://www.caba.org/caba-resources>

Life Cycle Cost Calculator - <http://www.caba.org/lifecycle>

Tools - <http://www.caba.org/tools>

Miscellaneous Resources:

Broadband for America (BfA) - <http://www.broadbandforamerica.com/>

Issues - <http://www.broadbandforamerica.com/issues>

Resources - <http://www.broadbandforamerica.com/resources>

Internet Innovation Alliance (IIA) - <http://internetinnovation.org/>

10 Facts About Broadband and Jobs -

<http://internetinnovation.org/library/special-reports/10-facts-about-broadband-and-jobs/>

Broadband Guide for the 113th Congress -

<http://internetinnovation.org/files/2013-Broadband-Guide.pdf>

Electronic Frontier Foundation (EFF) - <https://www.eff.org/>

Innovation Issues - <https://www.eff.org/issues/innovation>

Net Neutrality Issue - <https://www.eff.org/issues/net-neutrality>

Pew Research Center - <http://pewresearch.org/>

Pew Internet & American Life Project - <http://www.pewinternet.org/>

Broadband Topic Area - <http://www.pewinternet.org/topics/Broadband.aspx>

Home Broadband 2010 -

<http://www.pewinternet.org/Reports/2010/Home-Broadband-2010.aspx>

Mobile Helping Narrow Digital Divide, But Not For All (4/12) -

<http://www.pewinternet.org/Media-Mentions/2012/Pew-Mobile-Helping-Narrow-Digital-Divide-But-Not-For-All.aspx>

Mobile Topic Area - <http://www.pewinternet.org/topics/Mobile.aspx>

Digital Differences (4/12) -

<http://www.pewinternet.org/Reports/2012/Digital-differences.aspx>

Digital Divide Topic Area -

<http://www.pewinternet.org/topics/Digital-Divide.aspx>

Future of the Internet Topic Area -

<http://www.pewinternet.org/topics/Future-of-the-Internet.aspx>

Education Topic Area - <http://www.pewinternet.org/topics/Education.aspx>

Libraries Topic Area - <http://www.pewinternet.org/topics/Libraries.aspx>

Government Topic Area - <http://www.pewinternet.org/topics/Government.aspx>

Download Data - <http://www.pewinternet.org/Data-Tools/Download-Data.aspx>

Cisco Systems: The Connected Life -

http://www.cisco.com/en/US/netsol/ns705/networking_solutions_solution.html

Visual Networking Index (VNI) -

http://www.cisco.com/en/US/netsol/ns827/networking_solutions_sub_solution.html

VNI Forecast Model Tool - http://www.ciscovni.com/vni_forecast/index.htm

VNI IP Traffic Chart (What's a Zottabyte?) -

http://www.cisco.com/assets/cdc_content_elements/networking_solutions/service_provider/visual_networking_ip_traffic_chart.html

Living the Connected Life White Paper (11/06) -

http://www.cisco.com/en/US/solutions/collateral/ns341/ns525/ns537/ns705/net_implementation_white_paper0900aec8057eead.pdf

Mobile Transformation -

http://www.cisco.com/en/US/netsol/ns810/networking_solutions_sub_solution.html

Cloud Index -

http://www.cisco.com/en/US/netsol/ns1175/networking_solutions_sub_solution.html

Akamai Visualizing the Internet -

http://www.akamai.com/html/technology/visualizing_akamai.html

State of the Internet Quarterly Report - <http://www.akamai.com/stateoftheinternet/>

Broadband Adoption Trends - <http://www.akamai.com/html/technology/dataviz5.html>

Real-Time Web Monitor - <http://www.akamai.com/html/technology/dataviz1.html>

Net Usage Index by Industry -

<http://www.akamai.com/html/technology/nui/industry/index.html>

Net Usage Index for Mobile Web -

<http://www.akamai.com/html/technology/nui/mobile/index.html>

Akamai Internet Visualization App (iTunes Store) -

<http://itunes.apple.com/in/app/akamai-internet-visualization/id502695146>

iPass, Inc. - <http://www3.ipass.com/>

Surveys & Reports - http://www3.ipass.com/resource-center/surveys_reports/

Mobile Workforce Report (Quarterly) - <http://mobile-workforce-project.ipass.com/>

Mobile Enterprise Report - <http://info.ipass.com/forms/mobile-enterprise-report/>

White Papers & Insight Briefs - <http://www3.ipass.com/resource-center/whitepapers/>

Grantsinfo.us - <http://www.grantsinfo.us/>

Grants Database - <http://www.grantsinfo.us/database.html>

LLRX.com (Law & Technology Resources for Legal Professionals) -

<http://www.llrx.com/>

New Economy Web Guide - <http://www.llrx.com/features/neweconomy2013.htm>

Brookings Institute - <http://www.brookings.edu/>

Metropolitan Policy Program - <http://www.brookings.edu/about/programs/metro>

Global MetroMonitor 2012 -

<http://www.brookings.edu/research/reports/2012/11/30-global-metro-monitor>

Research - <http://www.brookings.edu/research>

Technology - <http://www.brookings.edu/research/topics/technology>

Education - <http://www.brookings.edu/research/topics/education>

UBM's Future Cities - <http://www.ubmfuturecities.com/>

Internet & IT - <http://www.ubmfuturecities.com/it.asp>

Broadband - <http://www.ubmfuturecities.com/it-broadband.asp>

Telecommunications - <http://www.ubmfuturecities.com/it-telecommunications.asp>

6 Key Components for Smart Cities (12/19/12) -

http://www.ubmfuturecities.com/author.asp?section_id=219&doc_id=524053

Organisation for Economic Co-operation and Development (OECD) - <http://www.oecd.org/>

OECD Communications Outlook - http://www.oecd-ilibrary.org/science-and-technology/oecd-communicationsbuildoutlook_19991460

OECD Library - <http://www.oecd-ilibrary.org/>

OECD Digital Economy Papers - http://www.oecd-ilibrary.org/science-and-technology/oecd-digital-economy-papers_20716826

Information and Communication Technologies and Productivity Growth: A Survey of the Literature - http://www.oecd-ilibrary.org/science-and-technology/information-and-communication-technologies-and-productivity-growth_5k9bh3jllqs7-en

World Bank - <http://www.worldbank.org/>

Information and Communication Technologies -

http://econ.worldbank.org/external/default/main?pagePK=64165397&piPK=64165419&theSitePK=469372&function=BrowseFR&menuPK=64165080&siteName=&searchMenuPK=&conceptattcode=644292&pathtreeid=TERATOPIC_SUBTOPIC&sortattcode=DOCDT+Desc

Inter-American Development Bank (IDB) - <http://www.iadb.org/index.cfm?lang=en>

Research & Data - <http://www.iadb.org/en/research-and-data/research-data,1612.html>

Socioeconomic Impact of Broadband in Latin American and Caribbean Countries (11/12) - [http://search.iadb.org/search/cgi-bin/query-](http://search.iadb.org/search/cgi-bin/query-meta.exe?v%3afile=viv_U6AKOG&v%3astate=root%7croot&url=http%3a%2f%2fwww.iadb.org%2fdocument.cfm%3fid%3d37257082&rid=Ndoc1&v%3aframe=redirect&v%3aredirect-hash=86298335cf2cbccbab329bb348b2e5a&)

[meta.exe?v%3afile=viv_U6AKOG&v%3astate=root%7croot&url=http%3a%2f%2fwww.iadb.org%2fdocument.cfm%3fid%3d37257082&rid=Ndoc1&v%3aframe=redirect&v%3aredirect-hash=86298335cf2cbccbab329bb348b2e5a&](http://search.iadb.org/search/cgi-bin/query-meta.exe?v%3afile=viv_U6AKOG&v%3astate=root%7croot&url=http%3a%2f%2fwww.iadb.org%2fdocument.cfm%3fid%3d37257082&rid=Ndoc1&v%3aframe=redirect&v%3aredirect-hash=86298335cf2cbccbab329bb348b2e5a&)