

*partnership for*  
**Sustainable Communities**  
an interagency partnership HUD • DOT • EPA



The Partnership for Sustainable Communities (PSC) has compiled the following list of tools to help communities assess livability and sustainability. These tools cover a broad range of topics from community design, to transportation and housing, to the environment. The list includes tools developed by the Department of Housing and Urban Development (HUD), the Department of Transportation (DOT), and the Environmental Protection Agency (EPA) as well as other Federal agencies and non-governmental organizations. For information purposes, it also includes several tools that are currently under development.

The Partnership considers this to be a living document and will evaluate and update the list periodically. The PSC also will be exploring opportunities to provide joint trainings and other resources to help communities make effective use of these and other tools. Visit <http://www.sustainablecommunities.gov> for more information.

**DISCLAIMER:** Inclusion of non-governmental tools on this list does not constitute an endorsement.

# LIVABILITY AND SUSTAINABILITY TOOLS

FEDERAL GOVERNMENT			
Tools - Currently Available	Agency	Description	URL
Community Design Assessment			
Sustainable Communities HotReport	HUD-DOT-EPA Partnership for Sustainable Communities (with support from the U.S. Census Bureau)	Tool is designed to give community leaders and residents a quick and easy way to determine how well one's community is performing on a variety of sustainability indicators, including transportation, housing, economic development, income and equity. Allows the user to select his/her community and view charts, tables, and maps showing performance trends over time and compare the results with the state, U.S. and other communities.	<a href="http://thedataweb.rm.census.gov/TheDataWeb_HotReport2/EPA2/EPA_HomePage2.html">http://thedataweb.rm.census.gov/TheDataWeb_HotReport2/EPA2/EPA_HomePage2.html</a>
Sustainable Communities Grants & Technical Assistance	HUD-DOT-EPA Partnership for Sustainable Communities	Interactive map includes information on HUD, DOT and EPA grant awards and other assistance provided to communities across the country through the Partnership for Sustainable Communities since 2009.	<a href="http://www.sustainablecommunities.gov/map.html">http://www.sustainablecommunities.gov/map.html</a>
Smart Location Database	EPA	Tool uses characteristics like housing density, diversity of land use, neighborhood design, destination accessibility, transit service, employment, and demographics to measure location efficiency. Planners can use the tool in scenario planning and travel demand studies.	<a href="http://www.epa.gov/dced/smartlocationdatabase.htm">http://www.epa.gov/dced/smartlocationdatabase.htm</a>
Smart Growth Index	EPA	Tool is a sketch-planning transportation, land use, and community impact model that simulates alternative land-use and transportation scenarios. It allows users to select indicators to be measured, then prepare, evaluate, and compare alternative scenarios using indicators of environmental performance.	<a href="http://www.epa.gov/dced/topics/sg_index.htm">http://www.epa.gov/dced/topics/sg_index.htm</a>
Smart Growth Scorecards	EPA	Compilation of smart growth scorecards that fall under several categories: municipal level, project specific, bikeability, and walkability.	<a href="http://www.epa.gov/smartgrowth/scorecards/">http://www.epa.gov/smartgrowth/scorecards/</a>

Mixed-Use Trip Generation Model	EPA	Spreadsheet tool to help local government staff, consultants, and developers estimate trips generated by a new mixed-use development. The method also predicts trips by walking and transit and estimates the daily vehicle miles of travel associated with the development.	<a href="http://www.epa.gov/smartgrowth/mxd_tripgeneration.html">http://www.epa.gov/smartgrowth/mxd_tripgeneration.html</a>
Cleanups in My Community	EPA	Website maps sites across the U.S. where hazardous waste is being or has been cleaned up. Includes Superfund National Priorities List sites and Brownfields properties.	<a href="http://ofmpub.epa.gov/apex/cimc/f?p=cimc:63:0::::">http://ofmpub.epa.gov/apex/cimc/f?p=cimc:63:0::::</a>
EJView	EPA	Mapping tool that allows users to create maps and generate detailed reports based on the geographic areas and data sets they choose. Includes data from multiple factors that may affect human and environmental health within a community or region, including: demographic, health, environmental, and facility-level data.	<a href="http://www.epa.gov/compliance/ej/mapping.html">http://www.epa.gov/compliance/ej/mapping.html</a>
Livable Communities Discussion Board	DOT/FHWA	Online public forum for practitioners in public, private, and non-profit agencies and organizations at the local, State, and Federal levels who are interested in helping communities provide more transportation choices, encourage access to good jobs and affordable housing, support quality schools, and promote safer streets. Participants come from a range of fields, including transportation, land use, housing, environment, and economic development.	<a href="https://www.transportationresearch.gov/dot/fhwa/livablecommunities/default.aspx">https://www.transportationresearch.gov/dot/fhwa/livablecommunities/default.aspx</a>
Bureau of Transportation Statistics Livability Website	DOT/Bureau of Transportation Statistics	Variety of resources to help policy makers and transportation planners in their efforts to better understand, assess and evaluate transportation's role in creating livable communities.	<a href="http://www.rita.dot.gov/bts/programs/livability/index.html">http://www.rita.dot.gov/bts/programs/livability/index.html</a>
Healthy Community Design Checklist Toolkit	HHS/CDC	Four components work together to help include health in the planning process: a checklist, customizable PowerPoint presentation for stakeholder engagement; a tool for creating a health profile of a neighborhood; and a Planning for Health Resources Guide.	<a href="http://www.cdc.gov/healthyplaces/toolkit/">http://www.cdc.gov/healthyplaces/toolkit/</a>

Transportation and Housing			
National Household Travel Survey	DOT/FHWA	Serves as a tool in the urban transportation planning process by providing data on personal travel behavior, trends in travel over time, trip generation rates, national data to use as a benchmark in reviewing local data, and data for various other planning and modeling applications. Assists transportation planners and policymakers who need comprehensive data on travel and transportation patterns in the U.S.	<a href="http://nhts.ornl.gov/">http://nhts.ornl.gov/</a>
Location Affordability Index	HUD & DOT	Tool estimates the percentage of a family's income dedicated to the combined cost of housing and transportation at a given location. Individuals can customize their household profile by entering household income, household size, and the number of commuters.	<a href="http://www.locationaffordability.info/lai.aspx">http://www.locationaffordability.info/lai.aspx</a>
My Transportation Cost Calculator	HUD & DOT	Tool -- which is a component of the Location Affordability Index -- permits individuals to customize their transportation expenses by providing more specific transportation cost information.	<a href="http://www.locationaffordability.info/tcc.aspx">http://www.locationaffordability.info/tcc.aspx</a>
Preservation of Affordable Housing Near Transit	HUD	Data files for federally assisted projects located in the 20 metropolitan areas included in the report "Preserving Subsidized Housing Opportunities Near Transit." Planners and local practitioners may wish to use the geo-coded data to identify the federally assisted projects near transit that may be at risk during the next five years due to the expiration of existing Section 8 contracts.	<a href="http://www.hud.gov/offices/cpd/about/conplan/preservation.cfm">http://www.hud.gov/offices/cpd/about/conplan/preservation.cfm</a>
Community Planning and Development Maps	HUD	Online GIS mapping tool, includes data layers for housing -- including Community Development Block Grants (CDBG) and Home Investment Partnerships (HOME) Program data -- transportation, environment, economic development, and demographic data.	<a href="http://egis.hud.gov/cpdmaps/">http://egis.hud.gov/cpdmaps/</a>
Qualified Census Tract Locator	HUD	Allows user to identify whether a specific address is located in a Qualified Census Tract (QCT) for purposes of the Low-Income Housing Tax Credit (LIHTC) program.	<a href="http://209.48.228.153/qctmap.html">http://209.48.228.153/qctmap.html</a>

Transportation Safety			
Fatality Analysis Reporting System (FARS)	DOT/NHTSA	Website contains data on all vehicle crashes in the U.S. that occur on a public roadway and involve a fatality. Includes State-by-State data analysis and maps, a Highway Fatality GIS Tool, and a query system that provides interactive public access to fatality data.	<a href="http://www-fars.nhtsa.dot.gov/Main/index.aspx">http://www-fars.nhtsa.dot.gov/Main/index.aspx</a>
Highway Safety Improvement Program Self Assessment Tool	DOT/FHWA	Tool consists of a number of questions designed to provide those with Highway Safety Improvement Program (HSIP) management responsibilities information to assess their programs, policies, and procedures against many of the recommended HSIP practices in use today.	<a href="http://safety.fhwa.dot.gov/hsip/resources/fhwasa11043/">http://safety.fhwa.dot.gov/hsip/resources/fhwasa11043/</a>
Bicycle Countermeasure Selection System (BIKESAFE)	DOT/FHWA	Tools and resources intended to provide practitioners with the latest information available for improving the safety and mobility of those who bicycle. Allow the user to select appropriate countermeasures or treatments to address specific bicycling objectives or crash problems.	<a href="http://www.pedbikesafe.org/BIKESAFE/">http://www.pedbikesafe.org/BIKESAFE/</a>
Pedestrian Safety Guide and Countermeasure Selection System (PEDSAFE)	DOT/FHWA	Online tools intended to provide practitioners with the latest information available for improving the safety and mobility of those who walk. Provide the user with a list of possible engineering, education, or enforcement treatments to improve pedestrian safety and/or mobility based on user input about a specific location.	<a href="http://www.pedbikesafe.org/PEDSAFE/">http://www.pedbikesafe.org/PEDSAFE/</a>
Environment			
Household Carbon Footprint Calculator	EPA	Tool uses an online calculator to get a rough “ballpark” estimate of the user's personal or family’s greenhouse gas emissions (GHG) and explore the impact of taking various actions to reduce one's GHG emissions.	<a href="http://www.epa.gov/climatechange/ghgemissions/ind-calculator.html">http://www.epa.gov/climatechange/ghgemissions/ind-calculator.html</a>
Envirofacts	EPA	National information system that provides an integrated single point of access to data on Superfund sites, drinking water, toxics and air releases, hazardous waste, and water discharge permits.	<a href="http://www.epa.gov/enviro/">http://www.epa.gov/enviro/</a>

AirData	EPA	Website gives the user access to air quality data, primarily from the Air Quality System (AQS) database, collected at outdoor monitors across the U.S. Users can choose from among several ways of looking at the data: download data into a file (or view it on the screen); output the data into one of AirData's standard reports; create graphical displays using one of the visualization tools; and investigate monitor locations using an interactive map. AirData allows the user to display and download monitored hourly, daily, and annual concentration data, Air Quality Index data, and speciated particle pollution data.	<a href="http://www.epa.gov/airdata/">http://www.epa.gov/airdata/</a>
Toxics Release Inventory Explorer	EPA	Allows user to generate reports on releases, transfers, and waste management that can be displayed by facility, chemical, geographic area, industry (NAICS code), reporting years, or by map.	<a href="http://iaspub.epa.gov/triexplorer/tri_release.chemical">http://iaspub.epa.gov/triexplorer/tri_release.chemical</a>
School Environment Assessment Tool	EPA	Software tool to help school districts evaluate and manage their school facilities for key environmental, safety and health issues. Designed to be customized and used by district-level staff to conduct completely voluntary self-assessments of their school (and other) facilities and to track and manage information on environmental conditions school-by-school.	<a href="http://epa.gov/schools/healthyseat/">http://epa.gov/schools/healthyseat/</a>
National Environmental Public Health Tracking Network	HHS/CDC	System of integrated health, exposure, and hazard information and data from a variety of national, state, and city sources. Allows the user to view maps, tables, and charts with data about chemicals and other substances found in the environment, some chronic diseases and conditions, and the user's state.	<a href="http://ephtracking.cdc.gov/showHome.action">http://ephtracking.cdc.gov/showHome.action</a>
INVEST - Sustainable Highways Self-Evaluation Tool	DOT/FHWA	Self-evaluation tool allows transportation agencies to evaluate the sustainability of their programs and projects.	<a href="https://www.sustainablehighways.org/">https://www.sustainablehighways.org/</a>
<b>Health</b>			
Sortable Stats (Health)	HHS/CDC	Website provides population level data on health risk factors, rates of disease, and death rates in tables and on maps by State, Federal region, and territory.	<a href="http://wwwn.cdc.gov/sortablestats/">http://wwwn.cdc.gov/sortablestats/</a>

Web-based Injury Statistics Query and Reporting System (WISQARS™)	HHS/CDC	Interactive, online database that provides fatal and nonfatal injury, violent death, and cost of injury data from a variety of trusted sources. Researchers, the media, public health professionals, and the public can use WISQARS™ data to learn more about the public health and economic burden associated with unintentional and violence-related injury in the U.S.	<a href="http://www.cdc.gov/injury/wisqars/index.html">http://www.cdc.gov/injury/wisqars/index.html</a>
Area Health Resources Files	HHS/HRSA	Website includes several products: (1) downloadable data sets with demographic and training information for 50+ health professions; (2) a tool that compares a State/county's available health resources and health status indicators to other States/counties; and (3) a mapping tool that enables users to compare the availability of healthcare providers and environmental factors affecting health at the state and county levels. Resources draw from an extensive county-level database assembled annually from over 50 sources. Intended to inform health resources planning, analysis and decision-making.	<a href="http://www.arf.hrsa.gov/index.htm">http://www.arf.hrsa.gov/index.htm</a>
<b>Food Access</b>			
Food Environment Atlas	USDA	Website identifies factors that influence food choices and diet quality, such as access to grocery stores across U.S. counties, store/restaurant proximity, food prices, food and nutrition assistance programs, and community characteristics.	<a href="http://www.ers.usda.gov/data-products/food-environment-atlas/go-to-the-atlas.aspx">http://www.ers.usda.gov/data-products/food-environment-atlas/go-to-the-atlas.aspx</a>
Food Access Research Atlas (Food Desert Locator)	USDA	Tool offers census-tract-level data on food access and presents a spatial overview of food access indicators for low-income and other census tracts using different measures of supermarket accessibility.	<a href="http://www.ers.usda.gov/data-products/food-access-research-atlas/go-to-the-atlas.aspx">http://www.ers.usda.gov/data-products/food-access-research-atlas/go-to-the-atlas.aspx</a>
Know Your Farmer, Know Your Food Compass Map	USDA	Map shows efforts supported by USDA and other Federal partners and related information on local and regional food systems for the years 2009-2012 to illustrate the local foods landscape in communities across the country. Data includes USDA and other Federally supported local food projects, farmers markets, food hubs, meat processors and more.	<a href="http://www.usda.gov/maps/maps/kyfcompassmap.htm">http://www.usda.gov/maps/maps/kyfcompassmap.htm</a>

Demographic/Economic Data			
American FactFinder	Department of Commerce/U.S. Census Bureau	Website's Community Facts search function provides demographic information for a geographical area, drawing on data from the Decennial Census and the American Community Survey.	<a href="http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml#">http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml#</a>
Economy at a Glance	Department of Labor/Bureau of Labor Statistics	Website provides employment and unemployment by sector at the State and metropolitan levels.	<a href="http://www.bls.gov/eag/">http://www.bls.gov/eag/</a>
Atlas of Rural and Small-Town America	USDA	Aggregates data from several different Federal sources and provides statistics in four broad categories of socioeconomic factors: demographics, jobs, agriculture indicators, and poverty trends.	<a href="http://www.ers.usda.gov/data-products/atlas-of-rural-and-small-town-america/go-to-the-atlas.aspx">http://www.ers.usda.gov/data-products/atlas-of-rural-and-small-town-america/go-to-the-atlas.aspx</a>
Home Mortgage Disclosure Act Data	Federal Financial Institutions Examination Council	Provides information on home loan values, small business lending, and other Home Mortgage Disclosure Act- and Community Reinvestment Act-related data that are available at the census tract level.	<a href="http://www.ffiec.gov/census/default.aspx">http://www.ffiec.gov/census/default.aspx</a>
Tools - Under Development	Agency	Description	Timeline
PlaceFit Community Characteristics Database	DOT/FHWA	This investigative tool will provide access to a variety of existing websites based on livability characteristics that may appeal to an individual user's lifestyle choices. It will help the user identify communities with characteristics that appeal to the user and his/her family's needs when relocating for a job, schooling, retirement, or a variety of other reasons. It also will the user to compare his/her current community to other communities.	TBD
Transportation and Health Tool	DOT and CDC	Tool will provide transportation decisionmakers with a perspective on how transportation can influence public health.	Estimated release: Fall 2014



Scenario Planning Performance Based Tool	DOT	Tool will help State DOTs and MPOs integrate scenario planning into the transportation planning process. It will help MPOs develop scenarios for potential regional investment strategies, scenarios for assumed land use distribution of population and employment, scenarios associated with baseline conditions and improving baseline conditions for the national performance measures identified in MAP-21, scenarios associated with constrained and unconstrained revenues, and the evaluation of the potential costs and benefits associated with each scenario.	Estimated release: early 2017
Livability Performance Measures Tool	DOT/FHWA		Under development
EnviroAtlas	EPA	A collection of tools and resources that provides geospatial data, maps, research, and analysis on the benefits that humans receive from nature, including clean air, clean and plentiful water, natural hazard mitigation, biodiversity conservation, food, fuel, and materials, recreational opportunities, and cultural and aesthetic value. Currently available as a password protected beta-version.	<a href="http://www.epa.gov/research/enviroatlas/">http://www.epa.gov/research/enviroatlas/</a>
C-FERST (Community-Focused Exposure and Risk Screening Tool)	EPA	C-FERST is expected to increase the availability and accessibility of science for risk ranking and understanding the environmental health consequences of community decisions. By incorporating the latest research estimating human exposures to toxic substances in the environment, it will assist communities in identifying and prioritizing environmental health issues and potential actions. The tool provides easy access to maps, information, and location-specific environmental data for decision-making and problem solving. C-FERST and related research that will populate the tool will be used by stakeholders to make informed, cost-effective decisions to improve public health. Currently in pilot phase.	<a href="http://www.epa.gov/heads/c-ferst/">http://www.epa.gov/heads/c-ferst/</a>

<p>T-FERST (Tribal-Focused Environmental Risk and Sustainability Tool)</p>	<p>EPA</p>	<p>Web-based geospatial decision support tool designed to serve as a research framework to provide tribes with easy access to the best available human health and ecological science. Intended to empower tribes by providing access to relevant science that can be used to develop sustainable, cost-effective solutions for reducing environmental exposures and health risks. Using this web-based geospatial decision support tool, tribes may employ a holistic approach to address environmental concerns and plan for the future. Currently in pilot phase.</p>	<p><a href="http://www.epa.gov/heasd/research/tferst.html">http://www.epa.gov/heasd/research/tferst.html</a></p>
<p>Community Cumulative Assessment Tool (CCAT)</p>	<p>EPA</p>	<p>A computerized, guided process that informs users of the steps involved in a cumulative risk assessment (CRA), such as problem formulation, conceptual model development, and the consideration of multiple stressors. It clarifies relationships between stressors, sources, and health effects; highlights decision points in the cause-effect chain where actions could improve health and the environment; and helps identify areas of highest uncertainty. CCAT pays particular attention to susceptible and vulnerable populations and a range of chemical and non-chemical stressors to further inform Environmental Justice assessments. It accesses informational resources such as C-FERST and GeoPlatform to inform the CCAT decision-making process. A prototype has been developed, but this resource has not yet been publicly released.</p>	<p><a href="http://www.epa.gov/research/healthscience/health-ccat.htm">http://www.epa.gov/research/healthscience/health-ccat.htm</a></p>
<p>Environmental Quality Index</p>	<p>EPA</p>	<p>Future tool to examine the breadth of environmental factors that may contribute to adverse health outcomes and particularly how they contribute to health disparities in low-income and minority populations. Will include air, water, land, built environment, and social determinants data. Currently under development.</p>	<p><a href="http://www.epa.gov/nheerl/eqi/">http://www.epa.gov/nheerl/eqi/</a></p>

Human Well-Being Index	EPA	Includes metrics on ecosystem services, social structure, and economic health. Uses eight dimensions to map social well-being: connection to nature; cultural fulfillment; education; health; leisure time; living standards; safety and security; and social cohesion. Currently under development.	<a href="http://www.epa.gov/ged/wellbeing.pdf">http://www.epa.gov/ged/wellbeing.pdf</a>
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DOT-AFFILIATED			
Tools - Currently Available	Organization	Description	URL
SmartGAP (SHRP 2 Capacity Project C16)	TRB (with DOT/FHWA funding)	A tool for evaluating the impact of various smart growth policies to provide transportation planning agencies with improved tools and methods for more accurately and comprehensively integrating transportation investment decision-making with land development and growth management.	<a href="http://www.trb.org/main/blurbs/168842.aspx">http://www.trb.org/main/blurbs/168842.aspx</a>
Walk Friendly Communities - Community Assessment Tool	DOT/FHWA and Pedestrian and Bicycle Information Center	Form-based tool is intended to recognize existing walkable communities and provide a framework for communities to improve their walkability.	<a href="http://www.walkfriendly.org/WalkFriendlyCommunitiesAssessmentTool.pdf">http://www.walkfriendly.org/WalkFriendlyCommunitiesAssessmentTool.pdf</a>
Transportation for Communities – Advancing Through Partnerships (SHRP 2 Capacity Project C02)	TRB (with DOT/FHWA funding)	A decision support tool, developed based on the experience of transportation professionals and stakeholders, which provides information about the transportation planning and approval processes. Includes assessment tools to help identify barriers to successful project and plan development and strategies for overcoming them.	<a href="http://www.transportationforcommunities.com/">http://www.transportationforcommunities.com/</a>
Pedestrian and Bicycle Crash Analysis Tool (PBCAT)	DOT/FHWA and Pedestrian and Bicycle Information Center	Crash typing software product intended to assist state and local pedestrian and bicycle coordinators, planners and engineers with improving walking and bicycling safety through the development and analysis of a database containing details associated with crashes between motor vehicles and pedestrians or bicyclists.	<a href="http://www.pedbikeinfo.org/pbcat_us/">http://www.pedbikeinfo.org/pbcat_us/</a>

NON-GOVERNMENT			
Tools - Currently Available	Organization	Description	URL
Community Design Assessment			
LEED for Neighborhood Development	U.S. Green Building Council (USGBC)	This rating system integrates the principles of smart growth, urbanism and green building/infrastructure practices to rate neighborhood development on how well it reduces vehicle miles traveled (VMT), locates development where jobs and services are accessible by foot or transit, and uses energy and water efficiently.	<a href="http://www.usgbc.org/neighborhoods">http://www.usgbc.org/neighborhoods</a>
STAR Community Rating System	STAR Communities	Self-reporting framework and rating system for evaluating, quantifying, and improving the livability and sustainability of U.S. communities. Considers the built environment, equity, and health among other topics.	<a href="http://www.starcommunities.org/rating-system">http://www.starcommunities.org/rating-system</a>
Sustainable Communities Index	Sustainable Communities Collective	Website provides data and resources necessary to collect indicators for livable, equitable, and prosperous cities. Provides the methods and data sources required for collecting indicators in the user's city or region and resources for applying these metrics to planning, policymaking and civic engagement.	<a href="http://www.sustainablecommunitiesindex.org/">http://www.sustainablecommunitiesindex.org/</a>
Pedestrian Environmental Quality Index	San Francisco Department of Public Health	Observational survey tool to prioritize improvements in pedestrian infrastructure, drawing on published research and work from numerous cities to assess how the physical environment impacts whether people walk in a neighborhood. Quantifies street and intersection factors empirically known to affect people's travel behaviors. Organized into five categories -- intersection safety, traffic, street design, land use, and perceived safety -- with 31 indicators that reflect the quality of the built environment for pedestrians.	<a href="http://www.sfpbes.org/elements/24-elements/tools/106-pedestrian-environmental-quality-index">http://www.sfpbes.org/elements/24-elements/tools/106-pedestrian-environmental-quality-index</a>
Walk Score®, Bike Score®, TransitScore®	Walk Score®	Tool rates and ranks cities, neighborhoods and individual locations based on built environment attributes, and assigns scores evaluating accessibility for walking, bicycling and transit.	<a href="http://www.walkscore.com">http://www.walkscore.com</a>

ParkScore®	The Trust for Public Land	Comprehensive rating system that measures how well the 50 largest U.S. cities are meeting the need for parks. Uses GIS to provide in-depth data to guide local park improvement efforts. The mapping technology identifies which neighborhoods and demographics are underserved by parks and how many people are able to reach a park within a ten-minute walk.	<a href="http://parkscore.tpl.org/">http://parkscore.tpl.org/</a>
Complete Streets Assessment Tool	University of Oregon, Oregon Transportation Research and Education Consortium (Marc Schlossberg)	Tool uses mobile GIS mapping technology to evaluate streets and intersections from the perspective of pedestrians, cyclists, and transit users. Designed for use in a facilitated workshop setting with GIS technicians on site to train users in operating it, and synthesizing and displaying data. Intended for use by non-technical community groups, with a dual emphasis on data collection and community coalition building, but it also has potential application for public agencies.	<a href="http://icoregon.technologypublisher.com/technology/2481">http://icoregon.technologypublisher.com/technology/2481</a>
Bicycle Assessment Safety Index Tool	University of Oregon, Oregon Transportation Research and Education Consortium (Marc Schlossberg)	Tool uses mobile GIS mapping technology to evaluate streets and intersections from the perspective of cyclists for bicycle route planning and evaluation. Designed for use in a facilitated workshop setting with GIS technicians on site to train users in operating the tool and synthesizing and displaying collected data. Intended for non-technical community groups to use with a dual emphasis on data collection and community coalition building, but it also has potential application for public agencies.	<a href="http://icoregon.technologypublisher.com/technology/2480">http://icoregon.technologypublisher.com/technology/2480</a>
Accessibility Audit Tool	University of Oregon, Oregon Transportation Research and Education Consortium (Marc Schlossberg)	Tool uses mobile GIS mapping technology to evaluate intersections from the perspective of compliance with the Americans with Disabilities Act and beyond. Intended for use by non-technical community groups as well as public agencies and departments of transportation.	<a href="http://icoregon.technologypublisher.com/technology/2479">http://icoregon.technologypublisher.com/technology/2479</a>

TOD Database	Center for Transit-Oriented Development	Tool is a database that provides economic and demographic information for every existing and proposed fixed guideway transit station in the U.S. Intended for planners, developers, government officials, and academics.	<a href="http://toddata.cnt.org/">http://toddata.cnt.org/</a>
Missed Opportunity: 100 Metropolitan Profiles	The Brookings Institution	Provides transit accessibility profiles for the 100 largest metropolitan areas. Contains the same static data at the metropolitan scale that was previously available in the "Transit Access to Jobs in Metropolitan America" interactive map.	<a href="http://www.brookings.edu/about/programs/metro/jobs-and-transit/metro-profiles">http://www.brookings.edu/about/programs/metro/jobs-and-transit/metro-profiles</a>
Community Commons	Institute for People, Place & Possibility (with initial funding from CDC)	Website provides an interactive mapping, networking, and learning utility for healthy, sustainable, and livable communities. Registered users have FREE access to: over 7000 GIS data layers at state, county, zip code, block group, tract, and point-levels; contextualized mapping, visualization, analytic, impact and communication tools and apps; and searchable profiles of hundreds of place-based community initiatives (multi-sector collaboratives) working towards healthy/sustainable/livable/equitable communities.	<a href="http://www.communitycommons.org/">http://www.communitycommons.org/</a>
<b>Transportation and Housing</b>			
Housing + Transportation Affordability Index	Center for Neighborhood Technology	This tool provides a comprehensive way of thinking about the cost of housing and true affordability by examining transportation costs at a neighborhood level. It allows the user to view housing and transportation data as maps, charts, and statistics.	<a href="http://htaindex.cnt.org/">http://htaindex.cnt.org/</a>
Abogo	Center for Neighborhood Technology	Tool that allows the user to discover how transportation affects the affordability and sustainability of where an individual lives.	<a href="http://abogo.cnt.org/">http://abogo.cnt.org/</a>
Transit Savings Report and Calculator	American Public Transportation Association	Calculator tool helps the user compare the price of using public transportation with the price of driving a motor vehicle. The user may set variables such as the price of gas and the length of the round trip to match the price of gas in the user's area and the length of the user's trip.	<a href="http://www.apta.com/members/memberprogramsandservices/advocacyandoutreachtools/Pages/TransitCalculator.aspx">http://www.apta.com/members/memberprogramsandservices/advocacyandoutreachtools/Pages/TransitCalculator.aspx</a>

Subsidized Housing Data	National Housing Trust	Provides detailed data about privately-owned and Federally-assisted apartment homes so that policy makers and community advocates know where affordable housing is at risk. Data include: state reports of properties with project-based Section 8 contracts expiring over the next five years (including information about property location, housing subsidy expiration date, physical inspection scores, ownership, management, and mortgage terms (if the mortgage is HUD insured)), and state reports of properties with USDA Section 515 loans (affordable rental housing in rural communities).	<a href="http://www.nhtinc.org/housing_data.php">http://www.nhtinc.org/housing_data.php</a>
Out of Reach	National Low Income Housing Coalition	An annual report on the Housing Wage (the wage one must earn in order to afford a modest rental home in communities across the country), which captures the gap between wages and rents across the country and estimates the full-time hourly wage that a household must earn to afford a decent apartment at the HUD estimated Fair Market Rent (FMR), while spending no more than 30% of income on housing costs. Provides a side-by-side comparison of wages and rents in every county, Metropolitan Area (Metropolitan Statistical Areas/ HUD Metro FMR Areas), combined nonmetropolitan area and State in the U.S.	<a href="http://nlihc.org/oor">http://nlihc.org/oor</a>
Preserving Assisted Rental Housing: The National Data Infrastructure	Shimberg Center for Housing Studies, Florida Housing Finance Corporation	Website examines who is collecting data related to the preservation of affordable housing in each State, including information regarding the types of properties and other variables for which data are collected.	<a href="http://www.preservation.shimberg.ufl.edu/index.html">http://www.preservation.shimberg.ufl.edu/index.html</a>
<b>Aging</b>			
Livable Communities: An Evaluation Guide	AARP Public Policy Institute	A tool used to help residents determine how they can make their communities more livable for older adults. Consists of a series of community self-assessment surveys identifying factors potentially affecting older adults' independence and quality of life.	<a href="http://assets.aarp.org/rgcenter/il/d18311_communities.pdf">http://assets.aarp.org/rgcenter/il/d18311_communities.pdf</a>

Funding the Public Transportation Needs of an Aging Population - Excel Analysis Tool	American Public Transportation Association	Spreadsheet permits the user to produce projections of trips and national funding requirements for ADA paratransit, dial-a-ride services, subsidized taxi service, volunteer driver programs, and community bus service. It can also be used to create projections for any area such as a metropolitan area or a State. Produced in conjunction with the report, "Funding the Public Transportation Needs of An Aging Population."	<a href="http://www.apta.com/resources/reportsandpublications/Documents/TCRP_J11_Funding_Transit_Needs_of_Aging_Population_Analysis_Tool.xls">http://www.apta.com/resources/reportsandpublications/Documents/TCRP_J11_Funding_Transit_Needs_of_Aging_Population_Analysis_Tool.xls</a>
Aging in Place, Stuck Without Options	Transportation for America	Report focusing on the mobility challenges facing older Americans as they age, including housing and transportation affordability.	<a href="http://t4america.org/docs/SeniorsMobilityCrisis.pdf">http://t4america.org/docs/SeniorsMobilityCrisis.pdf</a>
<b>Health</b>			
Health Economic Assessment Tool (HEAT)	World Health Organization	Online tool designed to conduct an economic assessment of the health benefits of walking or cycling by estimating the value of reduced mortality that results from specified amounts of walking or bicycling.	<a href="http://www.heatwalkingcycling.org/">http://www.heatwalkingcycling.org/</a>
Active Neighborhood Checklist	St. Louis University School of Public Health	Observational tool designed to assess key street-level features of the neighborhood environment that are thought to be related to physical activity behavior, particularly walking and bicycling.	<a href="http://www.activeforlife.info/generations/Resources/Toolkits/Active%20Neighborhood%20Checklist.pdf">http://www.activeforlife.info/generations/Resources/Toolkits/Active%20Neighborhood%20Checklist.pdf</a>
Integrated Transport and Health Impact Modelling Tool (ITHIM)	Centre for Diet and Activity Research	Integrated tool for assessing health impacts of transportation through changes in physical activity, road traffic injury risk, and urban air pollution. (ITHIM 1 is an Excel spreadsheet; ITHIM 2 uses Analytical software that must be purchased.)	<a href="http://www.cedar.iph.cam.ac.uk/research/modelling/ithim/">http://www.cedar.iph.cam.ac.uk/research/modelling/ithim/</a>
<b>Economic</b>			
EconDat.net	Impresa, Inc., Andrew Reamer & Associates	Website compiles data sets from a variety of different areas, including employment, income, quality of life, and demographics, indexed by subject and provider.	<a href="http://www.econdat.net/">http://www.econdat.net/</a>



Innovation and Economic Development tools	Purdue Center for Regional Development, Indiana Business Research Center (with U.S. Department of Commerce funding)	Includes several tools to assist the development of regional and local economic development strategies. Innovation Index tool helps the user understand a region's innovation performance and potential based on factors like human capital, economic dynamics, employment, productivity, economic well-being and state context. Cluster Analysis tool allows for analysis of 15 knowledge-based occupation clusters and 17 industry clusters.	<a href="http://www.statsamerica.org/innovation/anydata/">http://www.statsamerica.org/innovation/anydata/</a>
<b>Scenario Planning</b>			
CommunityViz	Placeways	A tailored GIS software package that allows users to create and manipulate a virtual representation of a town and explore different land use scenarios.	<a href="http://placeways.com/communityviz/">http://placeways.com/communityviz/</a>
CorPlan	Thomas Jefferson Planning District Commission and the Charlottesville-Albemarle MPO (with DOT/FHWA funding)	A GIS- and spreadsheet-based model to assist in creating alternative development scenarios that can be tested with traditional four-step travel demand models.	<a href="http://www.fhwa.dot.gov/planning/tcsp/resources/corplan.cfm">http://www.fhwa.dot.gov/planning/tcsp/resources/corplan.cfm</a>
Metroquest	Metroquest (Envision Sustainability Tools Inc.)	A regional scenario planning/analysis tool that allows agency staff and workshop participants to create, evaluate, and compare regional transportation and land use scenarios.	<a href="http://metroquest.com/">http://metroquest.com/</a>
Paint the Town/Paint the Region	Criterion Planners	A GIS-based tool used to develop demographic forecasts at a municipal and regional level.	<a href="http://www.fhwa.dot.gov/planning/processes/land_use/land_use_tools/archive.cfm#ana4">http://www.fhwa.dot.gov/planning/processes/land_use/land_use_tools/archive.cfm#ana4</a>
PLACE3S (PLAnning for Community Energy, Environmental, and Economic Sustainability)	California Energy Commission	The PLACE3S model (PLAnning for Community Energy, Environmental, and Economic Sustainability) is a GIS-based analytical tool that calculates a range of community indicators.	<a href="http://www.fhwa.dot.gov/planning/tcsp/documents/sdcadflt.cfm">http://www.fhwa.dot.gov/planning/tcsp/documents/sdcadflt.cfm</a>

UPLAN	UC-Davis	A model that projects urban growth by using several land uses as inputs. The model relies on fine-grained grid data that represent existing urban, local general land use plans, and all other relevant natural and built features that define the model.	<a href="http://ice.ucdavis.edu/project/uplan">http://ice.ucdavis.edu/project/uplan</a>
INDEX	Criterion Planners	An integrated suite of desktop and web-based scenario planning tools that allows land use scenarios to be created and evaluated based on 150 performance indicators.	<a href="http://www.crit.com/">http://www.crit.com/</a>
Envision Tomorrow Plus	Metropolitan Research Center and Fregonese Associates (Reid Ewing) - (with HUD Sustainable Communities Regional Planning Grant funding)	An open-access scenario planning tool that allows users to "paint" development scenarios on the landscape, and compare scenario outcomes using a comprehensive range of indicators relating to land use, housing, demographics, economic growth, development feasibility, fiscal impacts, transportation, environmental factors, and quality of life.	<a href="http://www.arch.utah.edu/cgi-bin/wordpress-etplus/">http://www.arch.utah.edu/cgi-bin/wordpress-etplus/</a>
UrbanFootprint	Calthorpe Associates	Tool allows for detailed mapping and "painting" of land use and transport futures and can work at regional, subregional, and local planning scales. It includes the ability to analyze scenarios based on a full range of fiscal, environmental, and public health metrics.	<a href="http://www.calthorpe.com/files/UrbanFootprint%20Technical%20Summary%20-%20July%202012.pdf">http://www.calthorpe.com/files/UrbanFootprint%20Technical%20Summary%20-%20July%202012.pdf</a>
Rapid Fire	Calthorpe Associates	A spreadsheet-based tool that is used to produce and evaluate statewide, regional, county, and jurisdiction-level scenarios. It emerged out of the need for a comprehensive modeling tool that could inform state, regional, and local agencies and policymakers in evaluating climate, land use, and infrastructure investment policies.	<a href="http://www.calthorpe.com/files/Rapid%20Fire%20V%202.0%20Tech%20Summary_0.pdf">http://www.calthorpe.com/files/Rapid%20Fire%20V%202.0%20Tech%20Summary_0.pdf</a>