

ATSDR Action Model

Who Are We?

Agency for Toxic Substances and Disease Registry (ATSDR) is a federal public health agency headquartered in Atlanta, Georgia. ATSDR is responsible for evaluating and protecting community health from the effects of exposure to hazardous substances in the environment.

Division of Regional Operations (DRO)

is a group of ATSDR representatives who live and work in Regional Offices, located throughout the country and at the United States Environmental Protection Agency Headquarters in Washington, DC. Regional Representatives work within their regions to identify communities that may be impacted by hazardous substances in the environment.

How does ATSDR define the Development Community?

The Development Community includes residents, planners, city agencies, health departments, developers, and any other stakeholders in the community of redevelopment.

Brownfield sites are defined as “abandoned, idled, or underused industrial and commercial properties where reuse or redevelopment is complicated by real or perceived contamination.” These sites have received funding from EPA Brownfield Program.

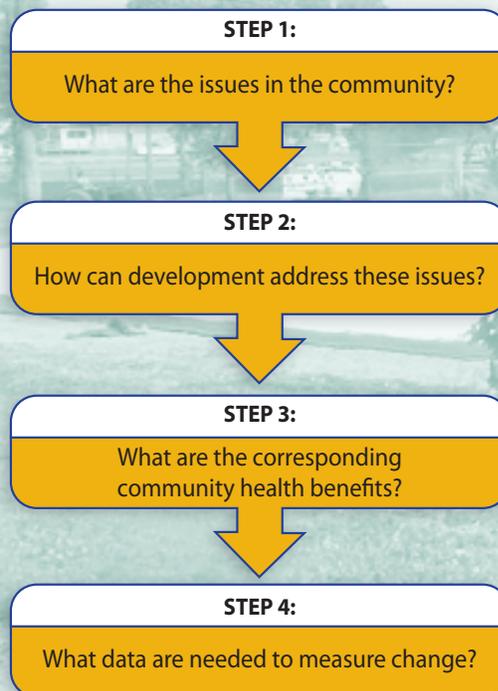
Land Reuse sites are defined as “any site formally utilized for commercial and industrial purposes complicated by real or perceived contamination” that has not received funding from the EPA Brownfield Program.

The ATSDR Brownfields/Land Revitalization Action Model (ATSDR Action Model) is a **grassroots, community-level model designed to foster dialogue, communication, and vision among the diverse members to the “Development Community”.**

The ATSDR Action Model creates a framework to assess the impacts of redevelopment on public health, with a goal of achieving positive, sustainable improvements in overall community health.

The Action Model framework encourages the Development Community to focus on broad public health topics connected to community health, such as physical and mental health; environment; education and economy; planning; safety and security; and communication and risk communication.

The Action Model is built around four steps or questions:



Through brainstorming, answering these four questions creates a framework for incorporating positive and sustainable public health endpoints in redevelopment plans.



An example of the Action Model:

	STEP 1	STEP 2	STEP 3	STEP 4
Category	What are the community issues?	How can redevelopment address the issues?	What are the community health benefits?	What data are needed to measure change?
<i>Health</i>	Exposure to harmful substances in the environment, such as those at brownfields sites or in old housing stock, is one of many risk factors for several diseases and adverse health effects of concern (e.g., asthma).	Environmental cleanups at brownfields sites may reduce risk of exposure to certain harmful substances. In addition, renovation of old housing stock and construction of newer homes may help further reduce exposures to harmful substances.	Reduced blood lead levels, reduction of learning disabilities in children, fewer hospitalizations for asthma, fewer infant deaths, and fewer low birth weight infants	Hospitalizations for asthma
				Infant mortality rates
				Lead and copper in tap water
				Lead poisoning in children (blood lead levels)
<i>Community</i>	Elevated crime rates are detrimental to the overall health and well-being of the community.	Development of abandoned sites, vacant lots, and vacant buildings may reduce areas where certain crimes occur and create a better sense of community among local residents.	Reduced crime-related injury and death. Reduced fear of crime, likely resulting in increased mobility of local residents.	Acreage of vacant lots
				Violent crime rates
	Due to lower educational attainment levels, local residents may not be competitive in the labor force and thus not receive the benefits from full-time employment.	Improvements at existing educational facilities and development of new educational centers (e.g., vocational schools, community centers) may promote the educational development of youth in the community.	Increased educational attainment, employability, health insurance coverage, and understanding of health topics and information	Education of adults
				Third grade reading comprehension
	A lack of jobs is contributing to a high poverty rate, leaving residents with limited resources to access medical care and improve the residential infrastructure.	Whether through renovating abandoned or deserted buildings or constructing new ones, redevelopment activities designed to attract business can bring jobs into the community.	Lower unemployment rates and poverty may increase health insurance coverage. People may be able to afford better nutrition and housing, and crime rates may decrease.	Percentage of adults with health
				Benefits
<i>Land and Environment</i>	Opportunities for physical activity are limited, in part, by a lack of usable parks and "green space."	Providing recreational facilities (e.g., basketball courts) at parks and converting vacant lots into "green space" may increase physical activity and strengthen the sense of community.	Increased physical activity, decreased likelihood of disease and health problems related to a sedentary lifestyle.	Acreage of parks
				People using parks
<i>Buildings and Infrastructure</i>	Vacant and poorly maintained buildings can expose residents to health hazards and increase the perception of blight in the community.	Redeveloping commercial buildings can create new jobs, and new or renovated housing units can reduce exposures to harmful environmental contaminants (e.g., lead) and improve residents' quality of life.	Reduced disease and injury as a result of harmful exposures. Increased opportunity for redevelopment.	Contaminated land
				Commercial properties
				Number of lead abatements
				Number of new construction permits
				Residential properties

The Action Model has been used in community health pilots in cities across the nation.

Milwaukee, WI, 30th Street Corridor

East Cleveland, OH, Cuyahoga County

Detroit, MI, 48217 Approach

Blue Island, IL, Cargo- and Transit-Oriented Development Community Health Monitoring

Linnton, OR, Linnton Action Model Project

Baraboo, WI, Ringling Riverfront Development

St. Paul-Minneapolis, MN, Healthy Communities Count! Healthy Communities and the Central Corridor Light Rail Transit Line

Your Community?

To learn more about the ATSDR Action Model:

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