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Brownfields and Public Health

Health benefits through redevelopment and land reuse

Welcome



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Outline

1. Brownfields and public health
2. OHA-PHD projects
3. Local examples
4. Mini-grants
5. Discussion



1. Brownfields and public health



Brownfields

- **Brownfield sites** - "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 for redevelopment. (Source: EPA)
- **Land Reuse sites** - "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 for redevelopment. (Source: ATSDR)

Brownfields

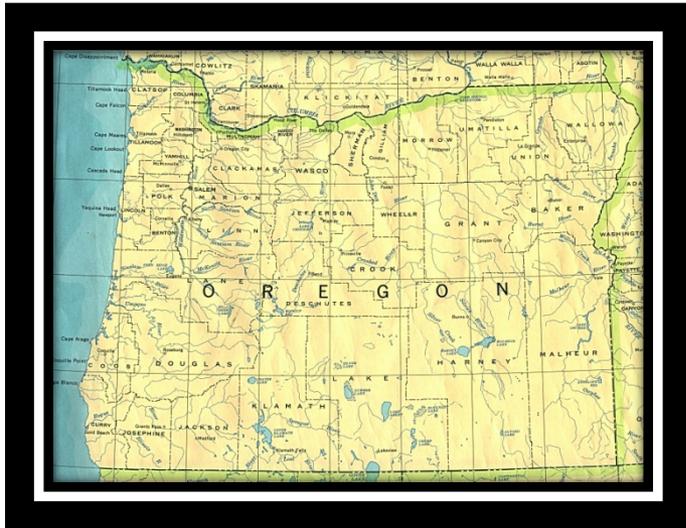
- A property that is contaminated
- A property that people think might be contaminated



**When I think of brownfields in
my community I think of ...**

Brownfield sites in Oregon

every city and county



rural and urban

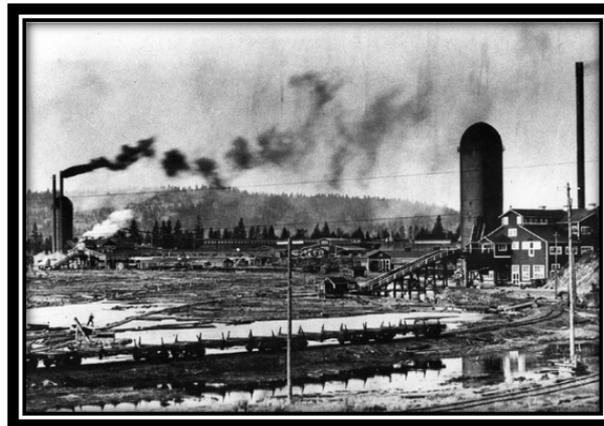
- mine sites
- mill sites
- agricultural
- gas stations
- dry cleaners
- auto shops
- landfills
- vacant abandoned lots

Before and after

Chiloquin, Klamath County



Bend, Deschutes County



Mosier, Wasco County



Before and after

Beaverton, WA Co



N Portland, Mult Co



SE Portland, Mult Co



Before and after

Sunriver, Deschutes County



Bend, Deschutes County



Prineville, Crook County



Health equity

- vulnerable populations
- built environment
- quality of life



<http://www.youtube.com/watch?v=kVhS2ASZoeo>



Health equity

OHA-Public Health Division :: HEALTH EQUITY

- Eliminating health disparities
- Ensuring the quality, affordability and accessibility of health services for all
- Engaging underrepresented populations through culturally specific and culturally competent approaches
- Integrating social justice, social determinants of health, vulnerable populations, diversity and community
- Protecting all individuals and communities in Oregon against environmental hazards



Brownfield sites are concrete opportunities to improve our natural, built and social environments

How does PH get involved?





What **Makes** Us Healthy



What We **Spend** On Being Healthy



HEALTHY COMMUNITIES = HEALTHY BUSINESSES

Building a healthier community saves lives and money.



BIKING SAVES MILLIONS

Do you have bike racks? Are there bike lanes on your streets? Bicycle commuters saved Iowa \$13.2 million a year in health care costs and \$73.9 million for those who cycle recreationally.



SMOKE-FREE SPACES SAVE LIVES

Are your shared community spaces and workplace smoke-free? Smoke-free strategies and education prevented 800 thousand deaths related to lung cancer between 1975-2000.



HEALTHY OPTIONS. HEALTHY CHOICES.

Are healthy foods affordable and accessible at work meetings, in vending machines and in your community? Research shows that making the healthier option the default can lead to healthier choices.



WALKABLE SPACES + ECONOMIC GROWTH

Do your workplace and community make physical activity easier? In one California city, \$10 million spent on more walkable public outdoor spaces spurred a \$125 million economic investment in the local downtown area, which led to the creation of 40 new businesses and 800 new jobs.



elefint  designs

Full references available at bit.ly/preventionmeansbusiness

Research shows that making the healthier option the default can lead to healthier choices.

Does your county make physical activity an accessible and easy option for all?
Are healthy foods affordable and accessible for all?

Economic Development and Redevelopment

A toolkit for building healthy, vibrant communities



Brownfield redevelopment

- is driven by political will, economic development, and environmental regulations
- public health agencies can play a crucial role in surfacing community health concerns and making recommendations that promote health at redevelopment sites



2. OHA-PHD Projects

OHA-PHD Brownfield Initiative

- Health-focused redevelopment provides equitable access to:
 - quality, affordable housing
 - nutritious, affordable food
 - recreation and greenspace
 - multi-modal transportation options
 - schools, libraries, youth centers, hubs for community gathering
 - healthcare facilities
 - jobs and economic development for local people
 - mechanisms that track changes and measure success



OHA-PHD provides

- Assistance with
 - public health data
 - health risk assessment, messaging and education
 - community involvement
 - health impact assessment (HIA)
 - integrating health into brownfield project plans
- Skills in
 - toxicology
 - epidemiology
 - health data analysis
 - mapping
 - health education
 - community engagement
 - relationship-building

OHA-PHD Projects

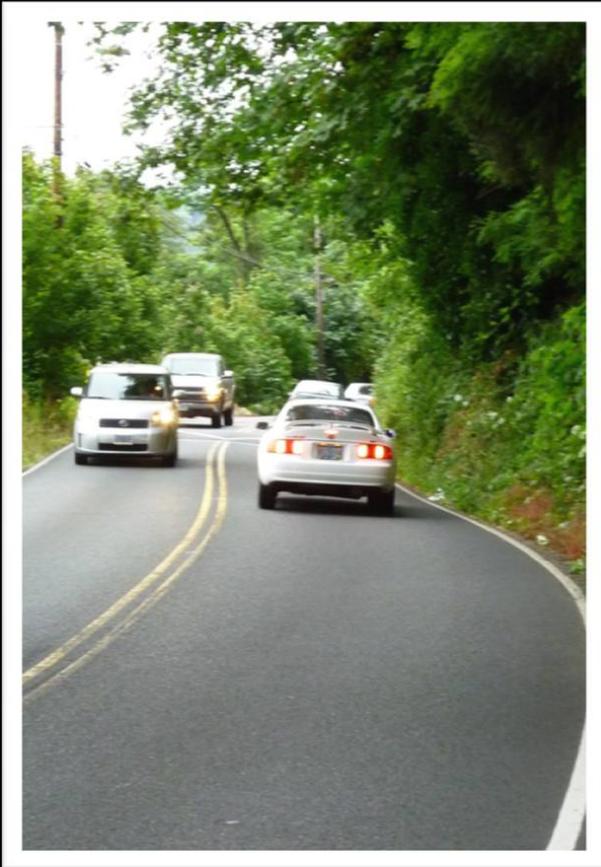
- **Linnton** Neighborhood – NW Portland (2010-2011)
- **Cully** Neighborhood – NE Portland (2011-2012, 2013-2014)
- **Building statewide capacity** to include public health considerations in brownfields redevelopment (2013)

Linnton Action Model Project



Also... what are the community's assets, values, strengths?

Photovoice



"NO PLACE TO WALK." Darise Weller, Linnton resident



"If and when we can walk on the beach, and when the river can be enjoyed by all - the work to clean it up may be back breaking work! I look forward to that day! Will you?"
Dan Dishongh, Linnton resident

Community Visioning

Multi-Vision Integration Vision to Action For a Sustainable Linnton



Linnton Health Fair

our health, our environment

Saturday, July 30, 2011
11 a.m. — 3 p.m.

Linnton Community Center
10614 N.W. St Helens Rd.
Portland, OR 97231

Oregon
Health
Authority

GUNDERSON
A GREENERBRIEF COMPANY

Food and beverages will be
provided by Gunderson, LLC.

Come to the Linnton Health Fair in July!

There'll be something for everyone: Fun activities for kids and adults; free dental health info, blood pressure screenings, exciting interactive exhibits.

And, raffle prizes! **Two \$25 New Seasons Market gift certificates! A \$25 Powell's Books gift certificate! A \$25 Portland Farmers Market gift certificate!**

Find out how to build healthy connections between you and the environment from these local groups:

- **Carrington College:** Dental hygiene demonstrations; toothbrush and toothpaste samples; info on teeth whitening; interactive dental roulette questions and answers; plus much more
- **Josiah Hill Clinic:** Childhood lead screening and testing
- **City of Portland Fire Bureau:** Fire truck and firefighter demonstrations; home safety evaluation tips; fire prevention and emergency preparedness planning
- **Metro Recycling:** Sustainable living guides for green home cleaning, recycling and natural gardening
- **Oregon Health & Science University:** DHSU's popular "Let's Get Healthy" interactive exercise and wellness exhibit
- **Multnomah County:** Up-to-date information on the county's environmental health, health promotion, and Veterans' benefits from the aging and disability services programs
- **Forest Park Ranger Bob:** Ranger Bob answers your questions about nearby Forest Park and its outstanding recreational opportunities
- **Oregon Public Health Division:** Tips on healthy fish consumption; and how to decrease contaminants when preparing and filleting fish
- **Elders in Action:** Resources for elders
- **Portland Bureau of Transportation:** Transportation safety information
- **Friendly House:** Health resources for seniors

Questions? Call Sarah Present at 971-673-0977 or Email Linnton.ActionModel@state.or.us.

OHA-PHD Projects

- **Linnton** Neighborhood – NW Portland (2010-2011)
- **Cully** Park – NE Portland (2011-2012, 2013-2014)
- **Building statewide capacity** to include public health considerations in brownfields redevelopment (2013)

Cully Park

25 acre closed landfill / vacant lot



Poverty

- 18% of residents live in poverty (RA: 9.9%)
- 22.7% of Cully children live in poverty (RA: 12.2%)

Qualify for free or reduced lunch

- 85% of Rigler School (K-5) students
- 88% of Scott School (K-8) students

Diversity

- 44.7% of residents are people of color (RA: 20.2%)
- 24% of residents live within ¼ mile of a park (RA: 49%)

Access to environmental assets

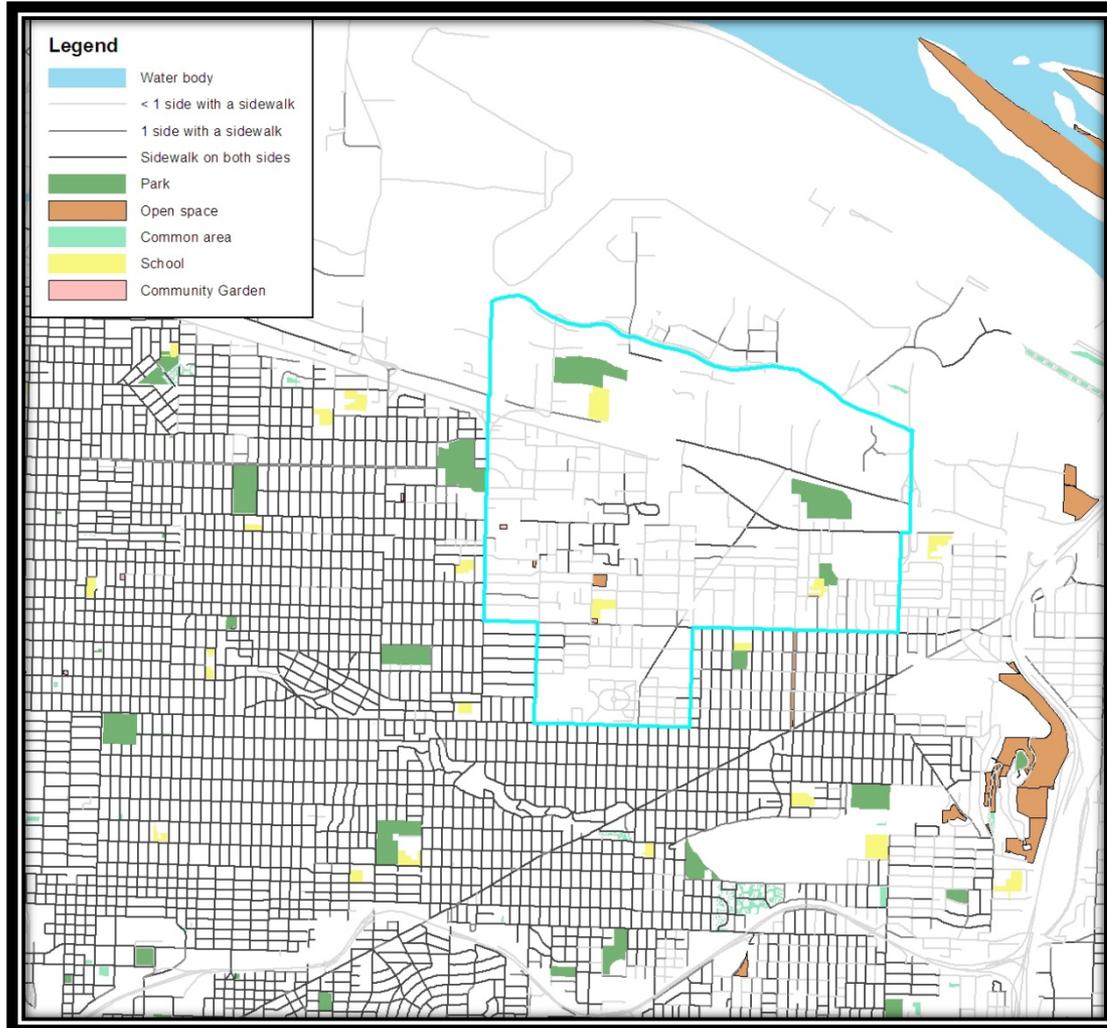
- 5% of residents live within ¼ mile of habitat (RA: 64%)

Cully community

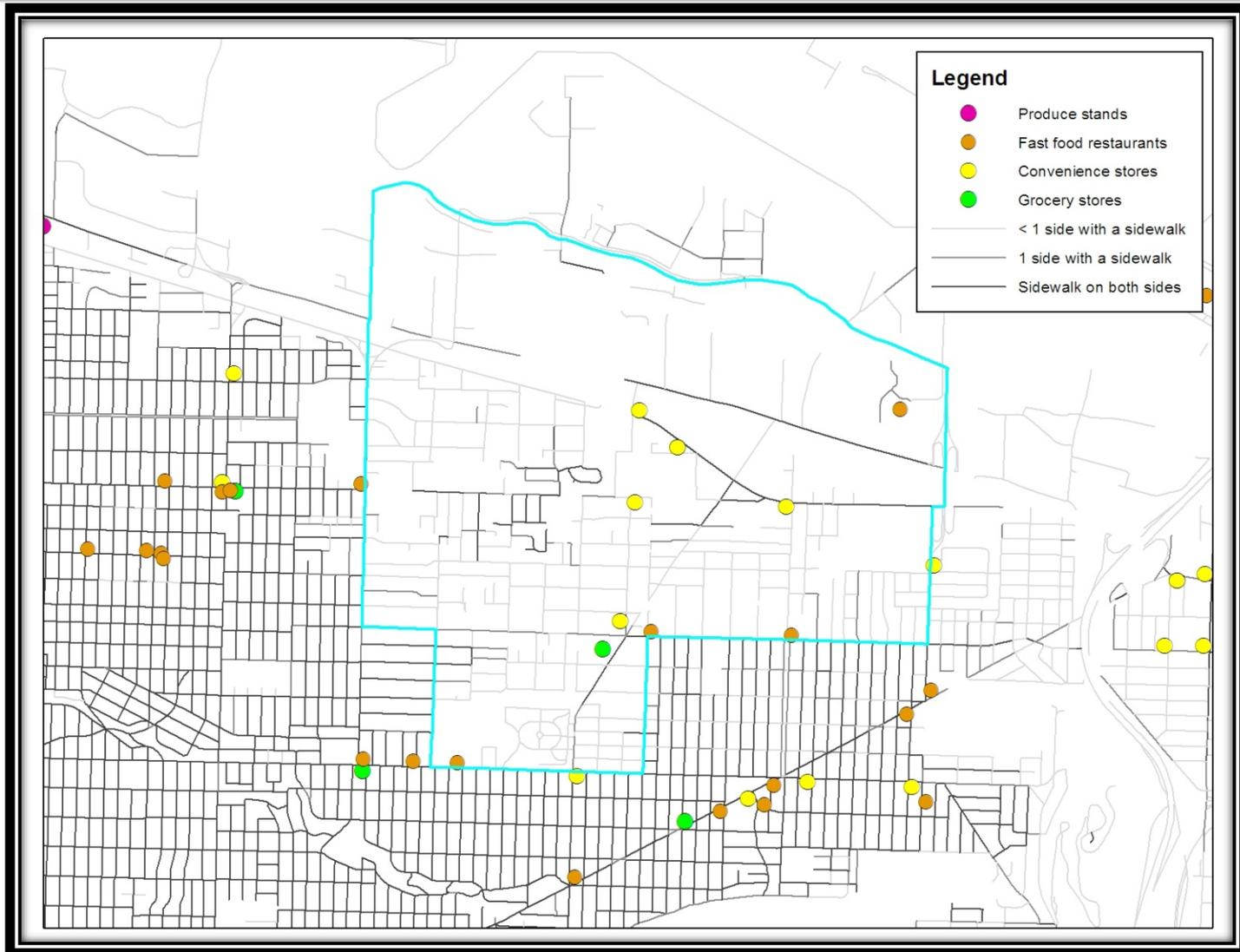


<http://vimeo.com/41842477>

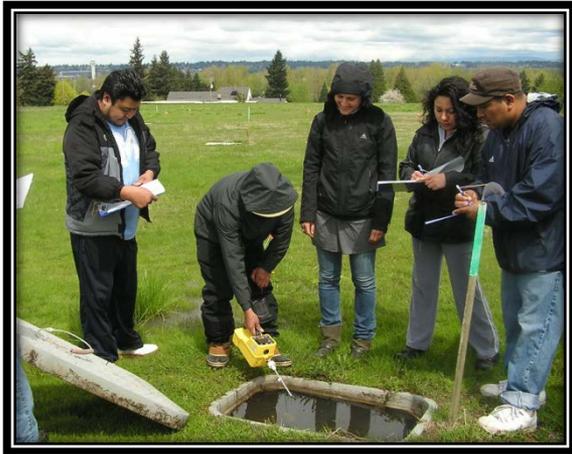
Cully neighborhood



Cully neighborhood



Cully Park – CBPA



Cully Park

□ OHA-PHD

- Enabled transparency in community-led process
- Characterized health risks while building community capacity to engage in future redevelopment efforts
- Assisting with measuring health impacts of the engagement process and park itself

□ DEQ

- Provided funding for collecting samples to answer questions regarding site risk.
- Provided technical assistance for involving community in the sampling plan

□ Business Oregon

- Provided funding to assist with safe access to the park, includes community planning for ped/bike, safety, infrastructure improvements





Community Concerns

How Addressed

No parks for children to play, or space for community to gather freely/safely outside

Assess landfill site, clean up if needed, use master plan vision to redevelop site.

Traffic Safety – busy location, accidents, children going without parents

Engage community and experts to provide multi-modal safety recommendations.

Landfill Safety – explosions, fires, people smoking

Provide education on the landfill features, smoking prohibited at public parks

Park Safety – dogs off-leash at the park

Include enclosed off-leash dog area for park redevelopment plans.

Park Safety – presence of police and parole officers, violence, crime at properties near park entrance

Support park programming, policing, volunteer foot patrol, neighborhood watch.

Contamination –How do we know the landfill waste is contained and not getting into soil, air, or water?

Conduct air and soil sampling with community. Share water testing results regularly from landfill monitoring.

Cully Park



<http://vimeo.com/57003422>

OHA-PHD Projects

- **Linnton** Neighborhood – NW Portland (2010-2011)
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- **Building statewide capacity** to include public health considerations in brownfields redevelopment (2013)

Governor's Regional Solutions Center tour



- Metro – Portland (4/4/13)
- North Coast – Tillamook (4/16/13)
- Central – Bend (5/2/13)
- Mid-Willamette Valley – Eugene (5/7/13)
- Southern – Grants Pass (5/28/13)
- Eastern – La Grande (6/10/13)



OHA-PHD Technical Assistance

■ Sites/Projects

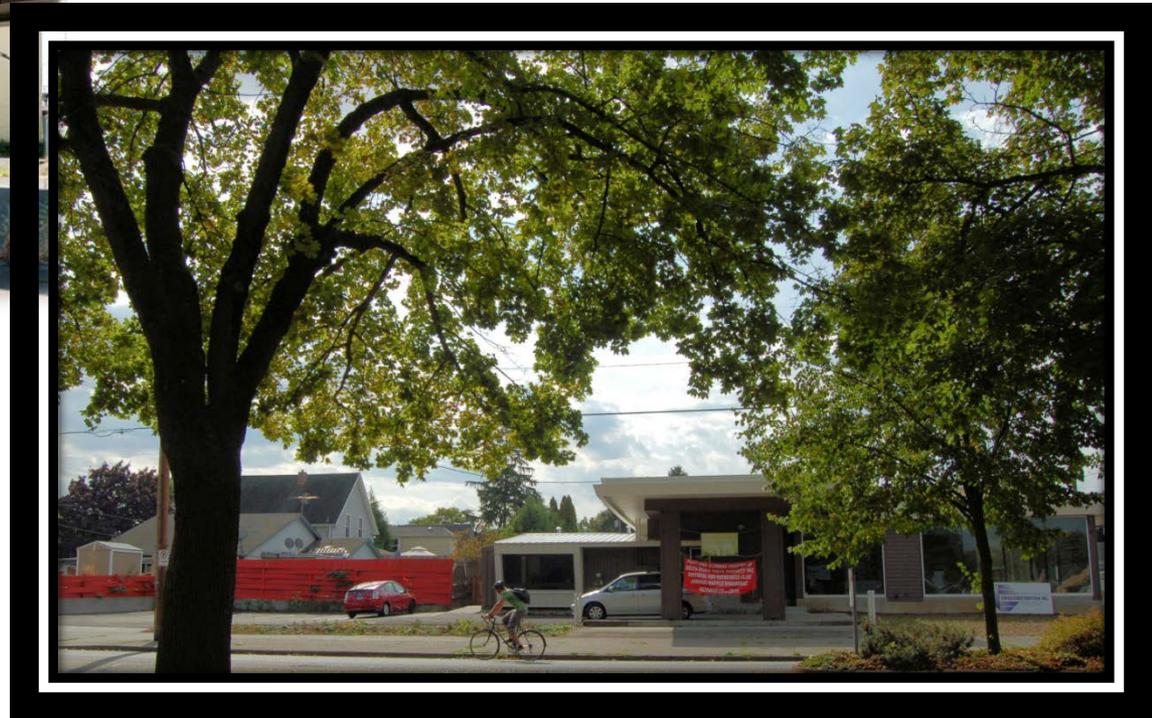
- **Linn County**, Sweet Home – integrated PH data and language into EPA funding application
- **Lane County**, Eugene, Springfield – provided PH support for brownfield inventory project that includes equity as criterion for prioritization of sites
- **Washington County**, City of Beaverton – incorporating PH considerations and community engagement to prioritize site assessment work; City of Tigard – consulting to include PH considerations in inventory and site assessment plans
- **Clatsop County** – City of Astoria – consulting on public participation processes for redeveloping a former landfill into a multi-use site
- **Metro** – provided PH data and perspective for EPA funding application
- **Union County** – provided technical assistance to support site assessment for future use as school/community garden
- **Deschutes County** – City of Prineville/Ochoco site assisted with coordination of PH support
- **Statewide – Growing food**, built internal capacity, developed guidance for growing food on potentially contaminated land, supported gardening redevelopment efforts



3. Local examples in Oregon

Portland - June Key Delta

former gas station



community center

Sunnybrook Hop Farms

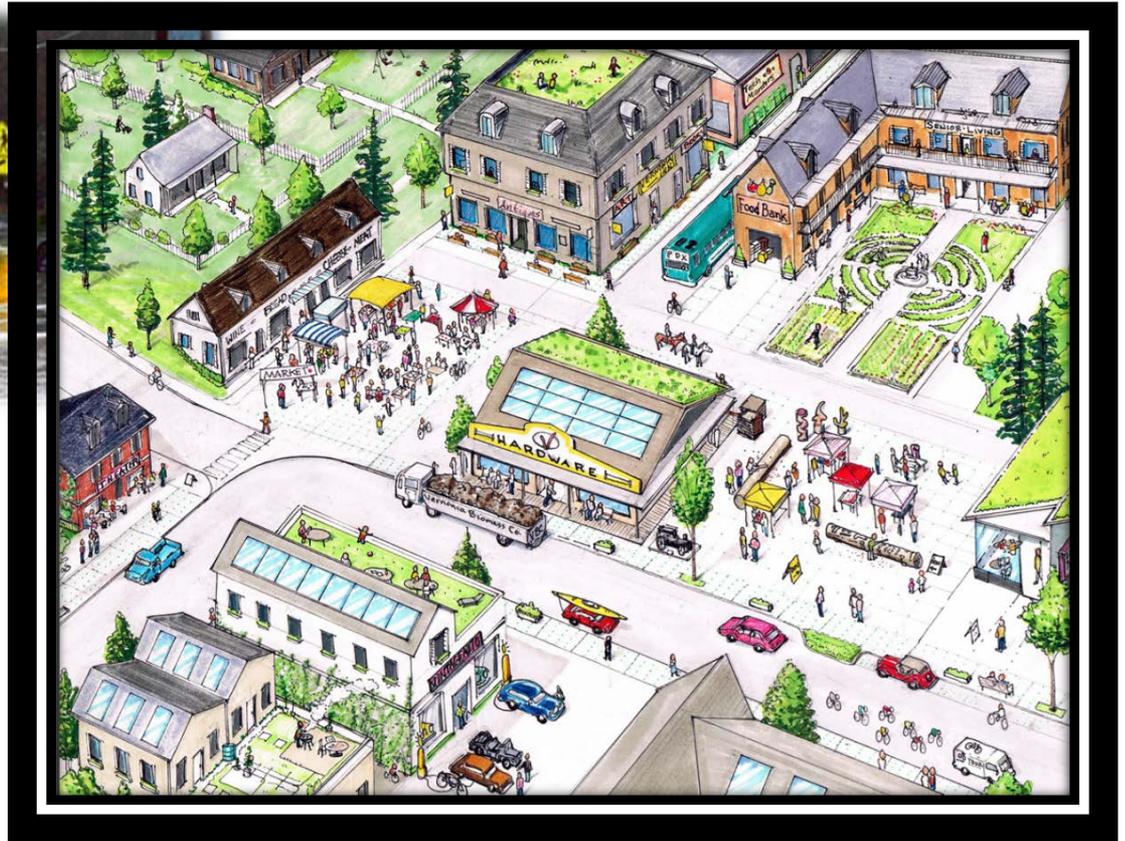
former agricultural use



food bank and community gardens

Vernonia – *in process*

flood devastation



rebuilding with health in mind

Coalition project – *in process*

Brownfields Assessment Coalition

La Coalición de Brownfields Evaluación

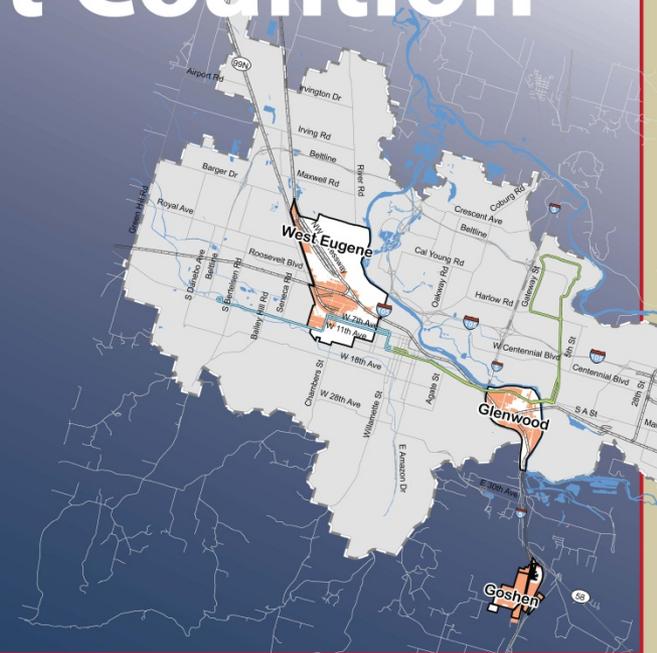


Images are general and not of the assessment area for Eugene, Springfield, or Lane County.

City of Eugene
City of Springfield
Lane County



www.brownfieldscoalition.org



Brownfield site inventory, assessment, and community involvement
*income, race/ethnicity mapping used to prioritize focus areas for redevelopment

Linn County - *potential*



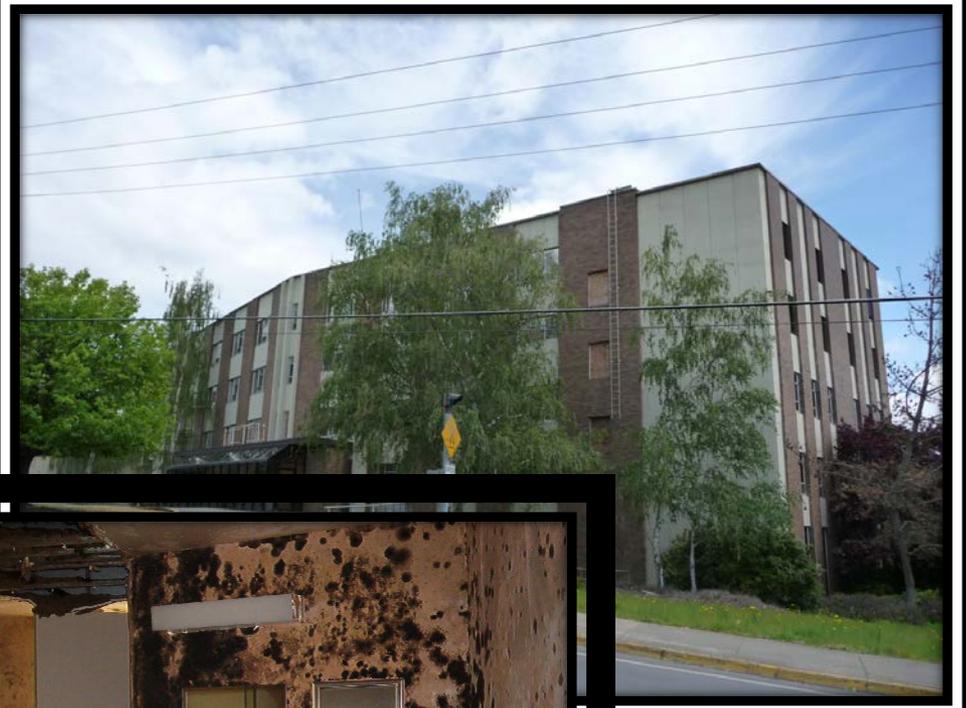
Former mill



Josephine County - *potential*



former hospital





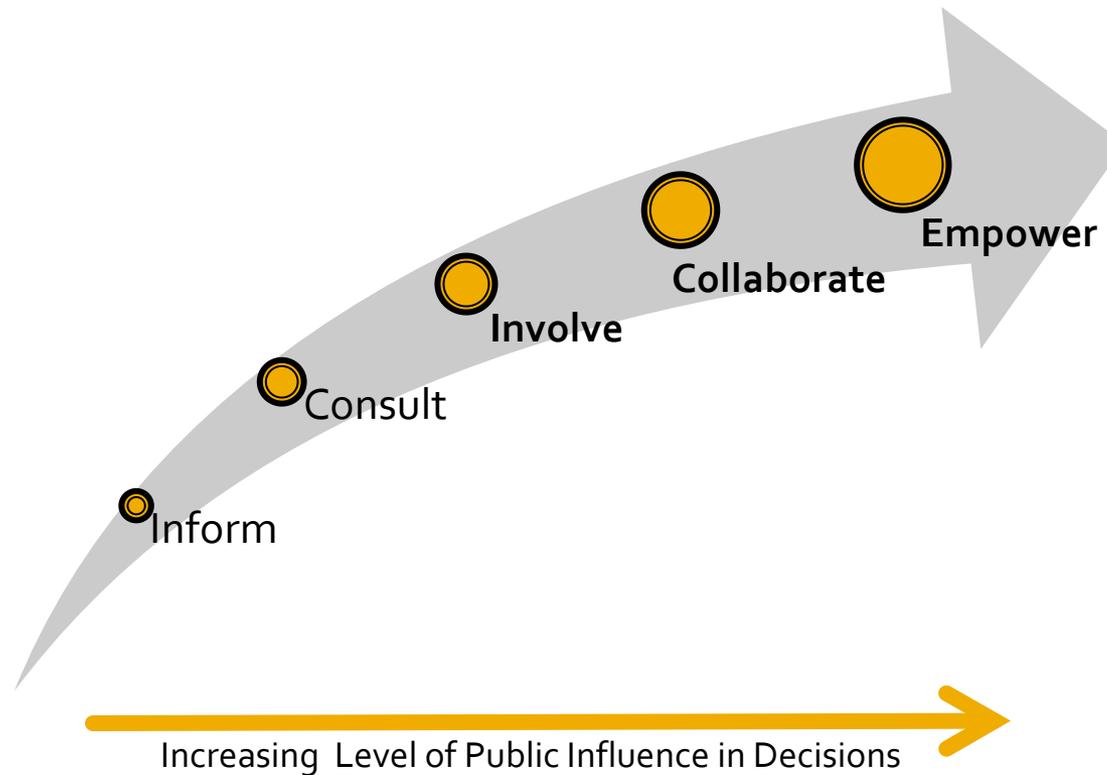
4. Mini-grants

Building the Capacity of Local Public Health Authorities to Engage in Community Health Projects related to Contamination at Land Reuse and Brownfield Sites

Mini-grants

- 2 projects (~\$12,500 per project)
- Eligibility - LHDs and tribal governments
- Important dates
 - RFP release: 9/26/2013
 - Proposals due: 10/24/2013
 - Project period: 12/1/2013 – 9/30/2014
- Funding will support the integration of public health in local brownfield projects
 - Projects engaging vulnerable populations are preferred
 - If relevant, connecting with efforts seeking EPA Brownfield grant funding is encouraged

Plan to engage community

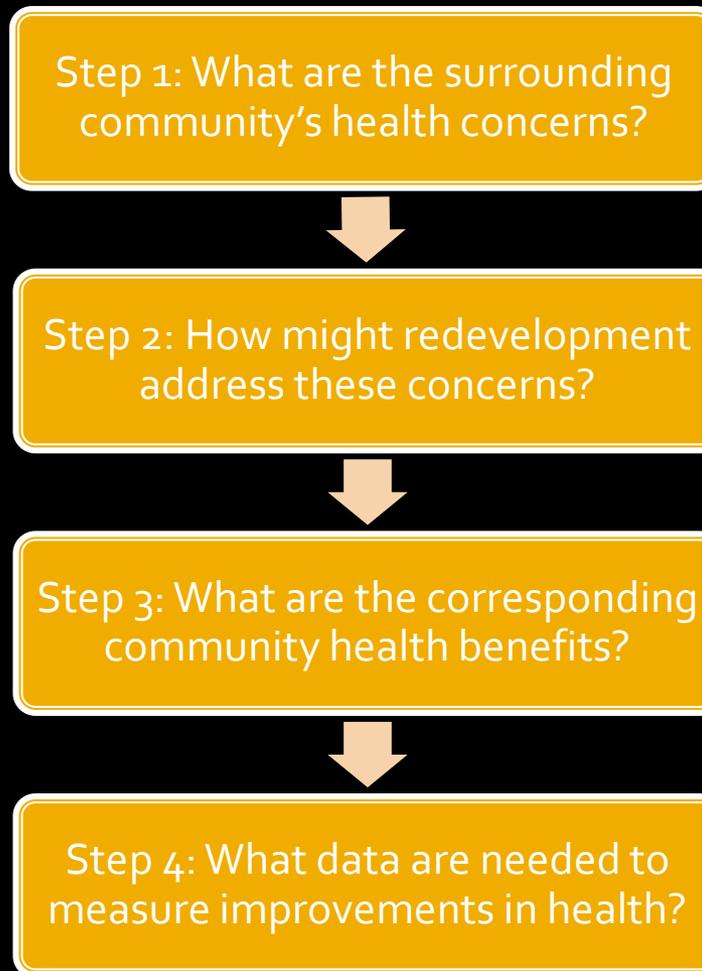


Plan to engage community



- Ensure community leadership and authentic participation
- Convene or support community advisory panel
- Represent public health interests on technical advisory panels

ATSDR Action Model



Also... what are the community's assets, values, strengths?



Health monitoring

- Repeatedly observing indicators selected to monitor changes in health over time.
 - Are conditions improving, worsening or staying the same?
 - Are efforts accomplishing what they are designed to achieve?

Source: WHO Handbook on Health Inequality Monitoring, 2013



5. Discussion

Thank you



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