

C-FERST and Other EPA Tools: Facilitating Community Decision-making and Informing HIA Assessments

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Community-Focused Exposure and Risk Screening Tool *C-FERST*_(under development)



What is it?

 Web-based "toolkit" that supports community assessments, providing easier access to information for 40+ environmental issues



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Community-Focused Exposure and Risk Screening Tool *C-FERST*









EPA

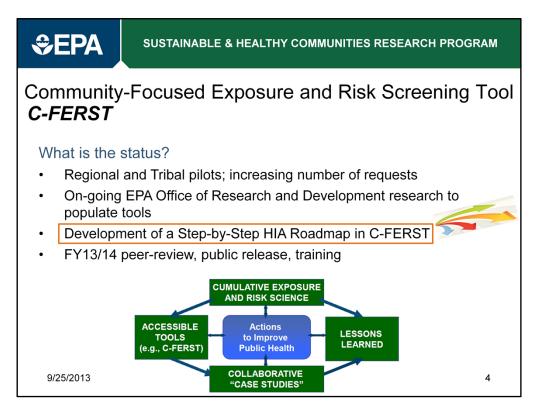
Regulations and Research

Protecting Human
Health and Environment

3

Why does it matter?

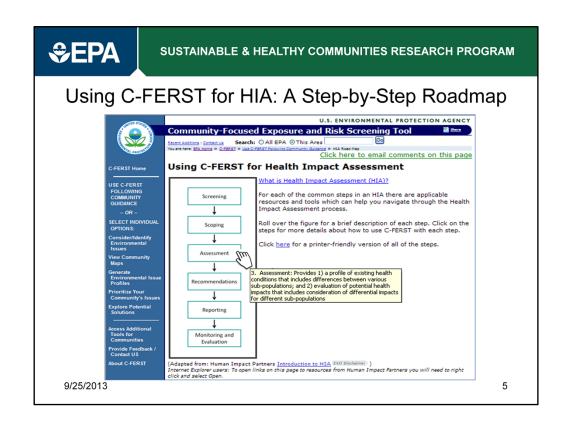
- Data and step-by-step guidance for informing community assessments and solutions
- Mapping of local exposures, health risks, and potentially vulnerable sites and populations
- Address challenges and needs identified by National Research Council,
 National Environmental Justice Advisory Council, others
- Venue for communicating EPA science, guidance, and solutions



Pilots to collaboratively build and test tool

- -Springfield, MA, Brooklyn, NY, Portland, ME CARE grantees with R1&R2 project officers
- -Part of Region 1 KPI pilot in Sustainable Knowledge Corridor; C-FERST maps being used in Springfield, MA school Health Impact Assessment to consider asthma confounders
- -New Region 10 KPI pilot in Tacoma, WA including academic use by Evergreen State College -Region 9 initiated a C-FERST workgroup
- -Use of beta version by other CARE grantees, Boston University env. public health course -T-FERST input and feedback from many tribes coordinated through OSP/Tribal Science Council
- -ORD funded partnerships with United South and Eastern Tribes (USET; consortium of 26 tribes) and Pleasant Point Passamaquoddy Tribe, ME to design/test T-FERST
- interest from other Regions, and Program Offices; e.g. OAQPS wants so both tools can be used in EJ permitting and rulemaking process; OEJ interested requested 2012 NEJAC briefing; EJ coordinators; new request for C-FERST to be part of EJ grants training; invited OSWER briefing planned for Sept.
- -New request from State of PA DEP EJ advisory board for training on C-FERST

Public release planned for FY14 following FY13 external peer review; part of EPA activities for White House OpenGov initiative and mentioned in National Prevention Council action plan. Region 1 initiating a regional rollout and training plan to be shared nationally through RSLs; need similar plan for Program Offices.





Using C-FERST for HIA: A Step-by-Step Roadmap



Using C-FERST for Health Impact Assessment

(Adapted from: Human Impact Partners <u>Introduction to HIA Summary Guides</u> (EXIT Disclaimer) Internet Explorer users: To open links on this page to resources from Human Impact Partners you will need to right click and select Open.

3. Assessment of Health Effects: To provide a profile of existing conditions data and an evaluation of potential health impacts

- Essential Tasks:

 Profile Existing Conditions Research baseline conditions, including health outcomes and determinants
- Profile Existing Conditions Research paseline Conditions, including neatin outcomes and determinants of health disaggregated by income, race, gender, age, and place when possible Evaluate Potential Health Impacts Use theory, baseline conditions, and population concerns; consider evidence that supports and refutes health impacts; assess affects by income, race, gender, age, and place; include assessments of the certainty, significance, and equity of impacts; justify the selection or exclusion of data/methods; identify data gaps, uncertainties, and limitations; allow stakeholders to critique findings

To view this step in Human Impact Partners HIA Summary Guide click here. EXIT Disclaimer

Click here to use C-FERST with this step

The following resources in C-FERST could provide information for the HIA Assessment:

- Exposure and risk-related maps





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Other EPA Tools That Can Inform Assessments

HIA Tools Database (under development)

- · A compilation of tools, methods, models, that can be used in HIA
 - > EPA-developed tools
 - > Tools identified in the HIA Information Toolkit Working Group (2012 National HIA Meeting)
 - > Tools identified in an EPA Review of 81 HIAs from four select sectors
- Promotes broader utilization of existing tools and resources to help close the data gaps found in HIA

Mapping Applications **Tools Exposure/Health/Risk Models** Databases Indices Methods idance Documents 7



Examples of Tools That Can Inform Assessments

HIA Tools Database



- Food Access Research Atlas (USDA; maps food deserts and access to healthy and affordable foods)
- Health Economic Assessment Tool (WHO; estimates value of reduced mortality from regular walking/cycling)
- Living Wage Calculator (Poverty in America Project; estimates the cost of living in a community or region)
- Traffic Noise Model (FHWA; predicts/analyzes highway traffic noise)
- My Environment (EPA; provides a picture of local air, water, energy, and health data)





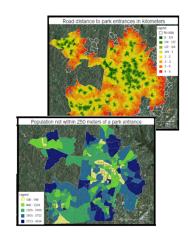
Other EPA Tools That Can Inform Assessments

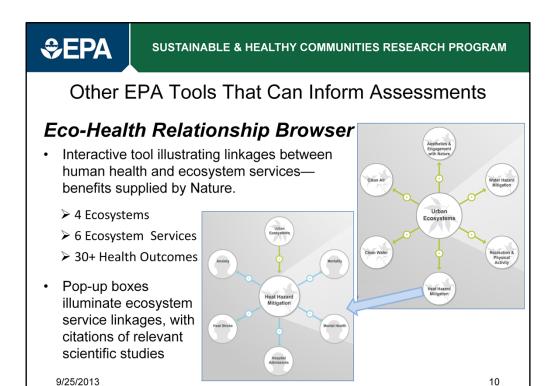
EnviroAtlas (under development)

- Geospatial data, maps, research, and analysis on the relationships between nature, people, health, and the economy
- See and explore the benefits that humans receive from nature:

Ecosystem Services
Clean Air
Water Resources
Hazard Mitigation
Recreation
Wildlife

Culture and Aesthetics Conservation Climate Transportation Land Use Health







C-FERST

Learn more and sign up to beta-test C-FERST: www.epa.gov/heasd/c-ferst

For More Info Contact: zartarian.valerie@epa.gov OR schultz.brad@epa.gov

EnviroAtlas

Learn more and sign up to beta-test EnviroAtlas: www.epa.gov/research/enviroatlas/index.htm

For More Info Contact: enviroatlasbetatester@epa.gov 9/25/2013



Sustainable and Healthy Communities. . . One community at a time

Eco-Health Relationship Browser

Learn more:

www.epa.gov/research/ healthscience/browser/ introduction.html

For More Info Contact: jackson.laura@epa.gov

HIA Tools Database



For More Info Contact: fulk.florence@epa.gov