Communication Outside the Box

Why we need research translation and community engagement



What are Research Translation and Community Engagement?



Many Names, Different Organizations...

Broader Impacts Citizen science

Knowledge Translation Community-Based Participatory Research

Popular Education Mutual Learning Impacted communities

Community-Engaged Research

Know-Do Gap Public Participation Bi-directional exchange

Community Involvement

NIEHS Defines RT and the RTC:

The "...Research Translation Core (RTC) will facilitate and coordinate communication of the results, accomplishments, and implications of the Center's research to stakeholders in a context that makes the research applicable to the target audience.

In addition, the RTC functions as a resource to assist in identifying potential research translation opportunities...for its Center's research projects...

...and a communication hub to the NIEHS SRP staff and to the other SRP Centers."

Purpose

Internal Audience

External Audiences

NIEHS Defines CE and CEC:

Community Engagement connects the Center's science with issues that are identified as locally relevant by communities and may often complement the research strengths and problem-solving goal of the Center.

Community Engagement Cores (CEC) "enhance the bi-directional exchange of knowledge and support the needs of the community with regard to the science emanating from the Center."

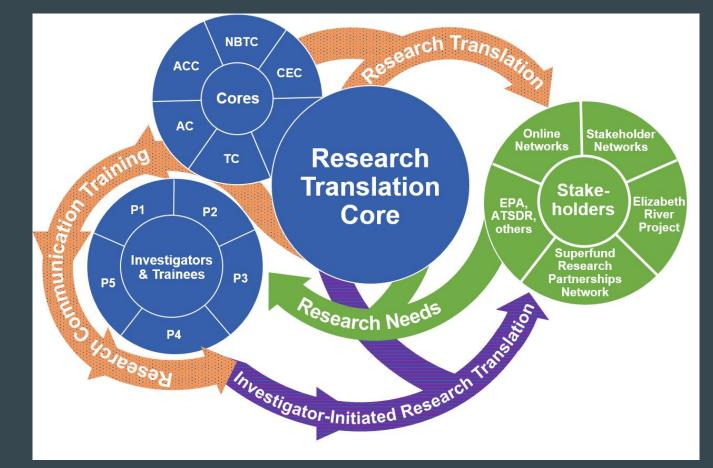
"SRP also encourages applicants to include, as part of their Center, a community engagement research project that involves community members in the planning and conducting of the research."

Purpose

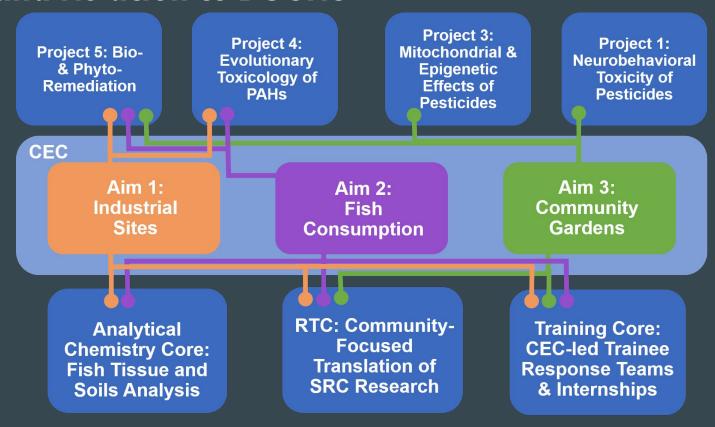
Function

Involvement

RTC and Relation to DUSRC



CEC and Relation to DUSRC



Why Does it Matter?

Science is complicated but important!

Accelerate application of research...
prevent or mitigate early life exposures
with later-life consequences.

Bridges the gap between researchers and decision-makers.



"Dear Mr. Gandhi, We regret we cannot fund your proposal because the link between spinning cloth and the fall of the British Empire was not clear to us."

Written by M. M. Rogers and illustrated by Ariv R. Faizal, Wahyu S., Ary W.S.

Creative team for Search for Common Ground in Indonesia

Related Duke Initiatives

- Dr. Jory Weintraub, Program Director,
 Duke Broader Impacts Resource Center
 (NSF)
- Dr. Nadine Barrett, Center for Community and Population Health Improvement
- Dr. Elizabeth Shapiro-Garza, NSOE Certificate in Community-Based Environmental Management

















Who are we?

Directors: Charlotte Clark & Liz Shapiro-Garza

Program Coordinators:
Bryan Luukinen and Catherine Kastleman

Funding cycle: 5-year NIEHS grant; currently in year 6 of our 3rd cycle at DUSRC; began in 2000.



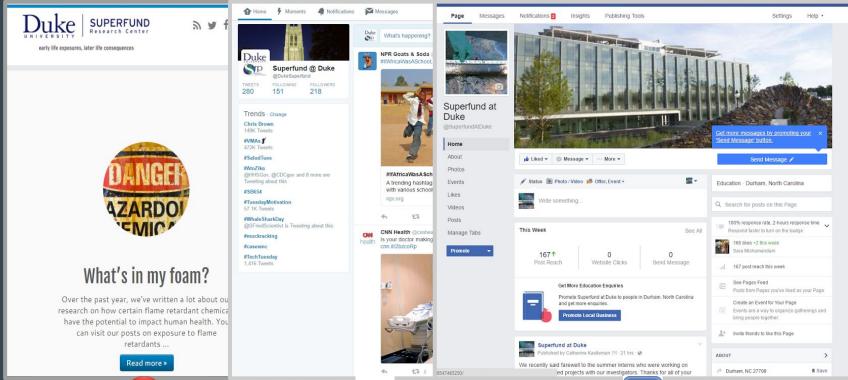








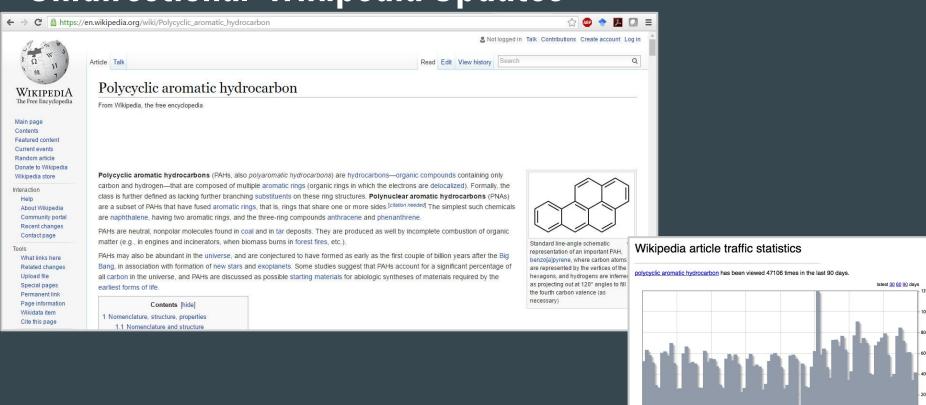
RT: Unidirectional/Bidirectional/Diffuse







Unidirectional: Wikipedia Updates



2014-08-22 Date

RT: Direct Engagement





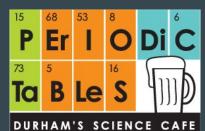
















RT: Partnership Approach







fighting pesticide pollution since 1986

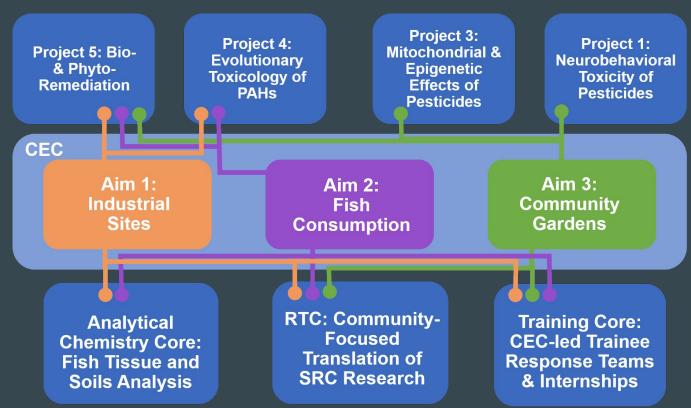
1-877 NO SPRAY



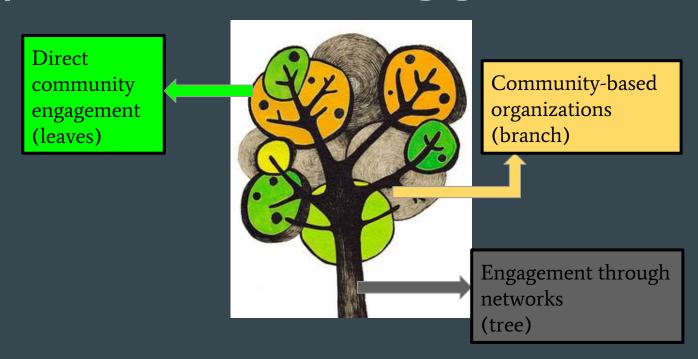




Community Engagement (CE)



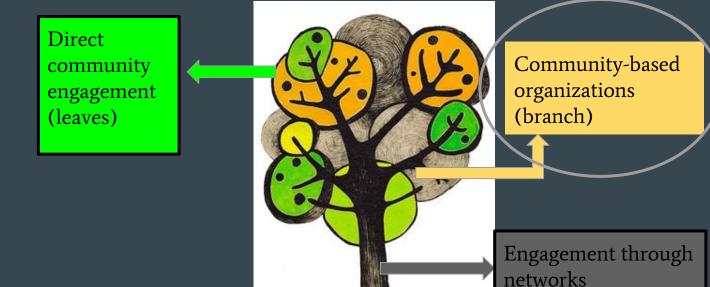
CE: Approaches to Community Engagement



CE: Direct Community Engagement



CE: Approaches to Community Engagement



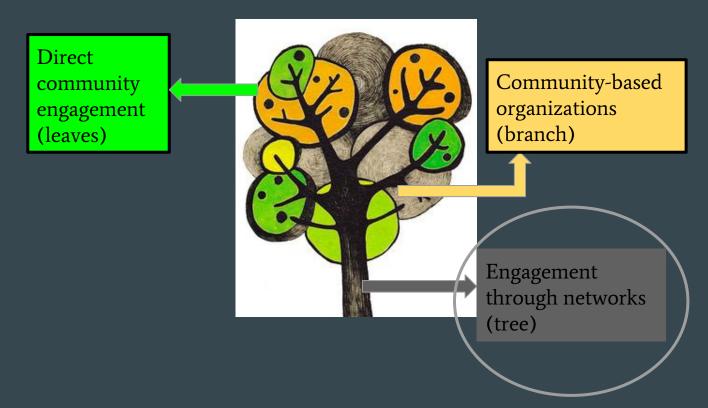
(tree)

CE: Community-Based Organizations





CE: Approaches to Community Engagement



CE: Engagement Through Networks



reduction?

Community Garden	Project
Questions	Processes
1) What is the extent and nature of soil and pesticide contamination and exposure in NC community gardens?	 GIS mapping Interviews, focus group, participant observed surveys, etc., with stakeholders at multiple Lit. review & analysis of existing outreach materials
2) What are the most common pathways of exposure? What are the actual and perceived	 Interviews, focus group, participant observ surveys, etc. with community garden parti



-EPA C-FERST team (Engagement of networks) engagement)

1) \ pes con 2) exp health risks associated with those exposures? and stakeholders What are the most feasible & effective options Soil testing for remediation or exposure reduction? 3) What are the most effective tools for changing Social marketing campaign behavior to reduce health impacts and sustain Outreach materials

3-4 community gardens -NCCGP, NC Extension -EPA, ATSDR -Social media - Gardens & support orgs Report back to community groups (Community-based

Focus groups Decision trees

Evaluation

organizations)

Overlap Between CE and RT

Foam project

Stakeholders (Activity):

EPA, ATSDR and policy makers (RT)

Other research institutions and SRPs (RT)

Impacted communities (RT and CE)

Angler work

Stakeholders (Activity):

VADEQ, health department (**RT**)

Other research institutions and SRPs (RT)

Elizabeth River Project (RT and CE)

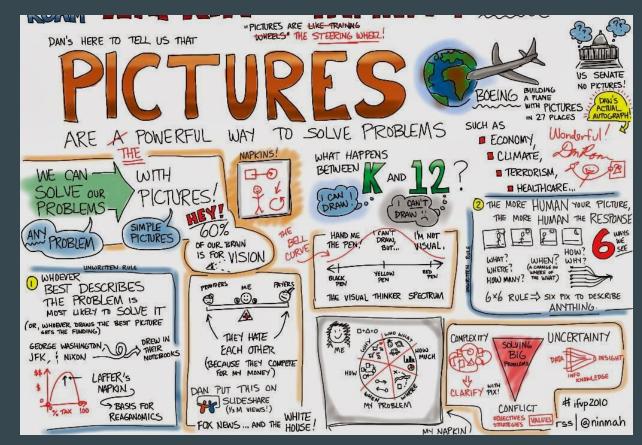
Portsmouth and Cradock community anglers (**CE**)

RT Overlap

CE

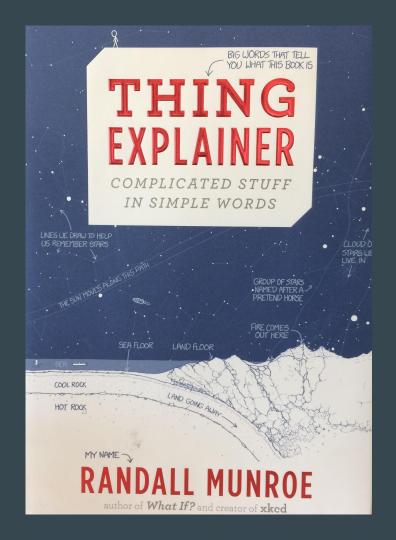
Draw Your Research!!

- Summarize your research in a picture (5 mins)
- Gather in groups of3-5 to share yourdrawing
- Talk for 60 seconds each about your drawing
- 4. Within your group, choose the best drawing/explanation
- 5. Photo and email the best drawing to:
 bjl28@duke.edu



Thing Explainer

http://xkcd.com/simplewriter/



How We Want to Work with You

We want to celebrate and promote your accomplishments!

- Publications
- Talks (Dr. Meyer & Periodic tables)
- Blog posts (Dr. Levin)
- Legislative (Dr. Stapleton)
- Public comments
- K12 STEM outreach

Editing work as appropriate



http://superfund.berkeley.edu/

Incorporate community-engagement components into research

Trainee engagement



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