



National Institute of Environmental Health Sciences

*Your Environment. Your Health.*

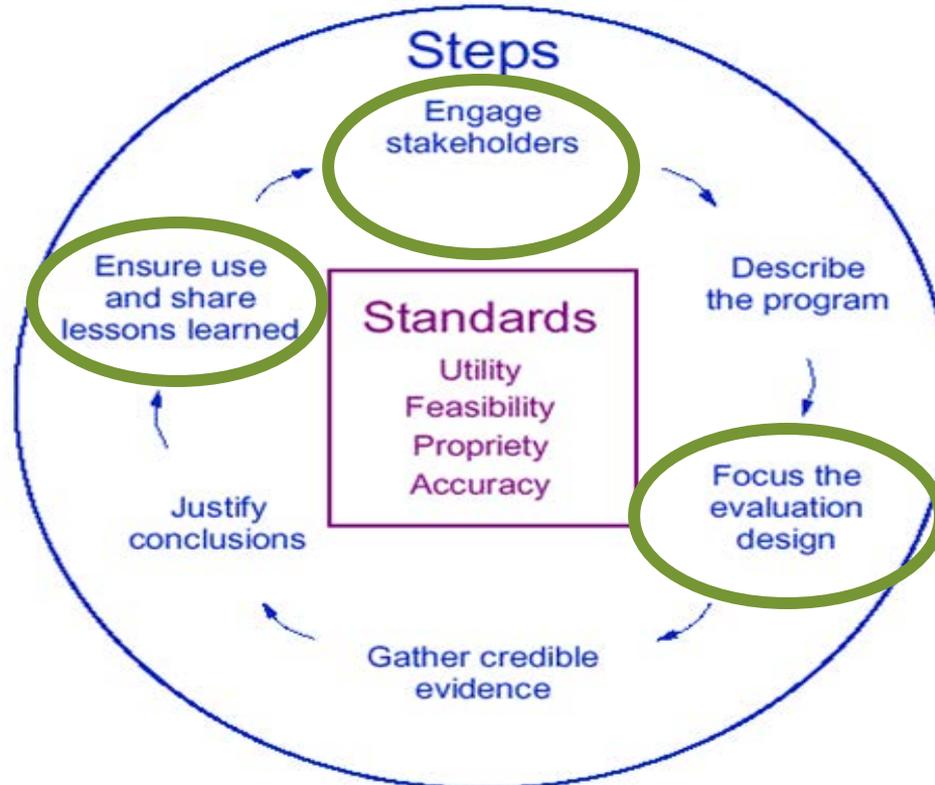
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# **Data and Evaluation: Where to Go From Here**

## **WTP Grantee Workshop Research Triangle Park September 29, 2015**

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Public Health Educator  
Worker Training Program, NIEHS

# CDC Framework for Program Evaluation in Public Health



1. CDC Framework for Program Evaluation in Public Health  
<http://www.cdc.gov/eval/framework/index.htm>
2. Developing an Effective Evaluation Plan, CDC  
<http://www.cdc.gov/obesity/downloads/cdc-evaluation-workbook-508.pdf>

# For what purpose are WTP evaluation data used?

Program Improvement

- Training Effectiveness

Accountability

- Program Value

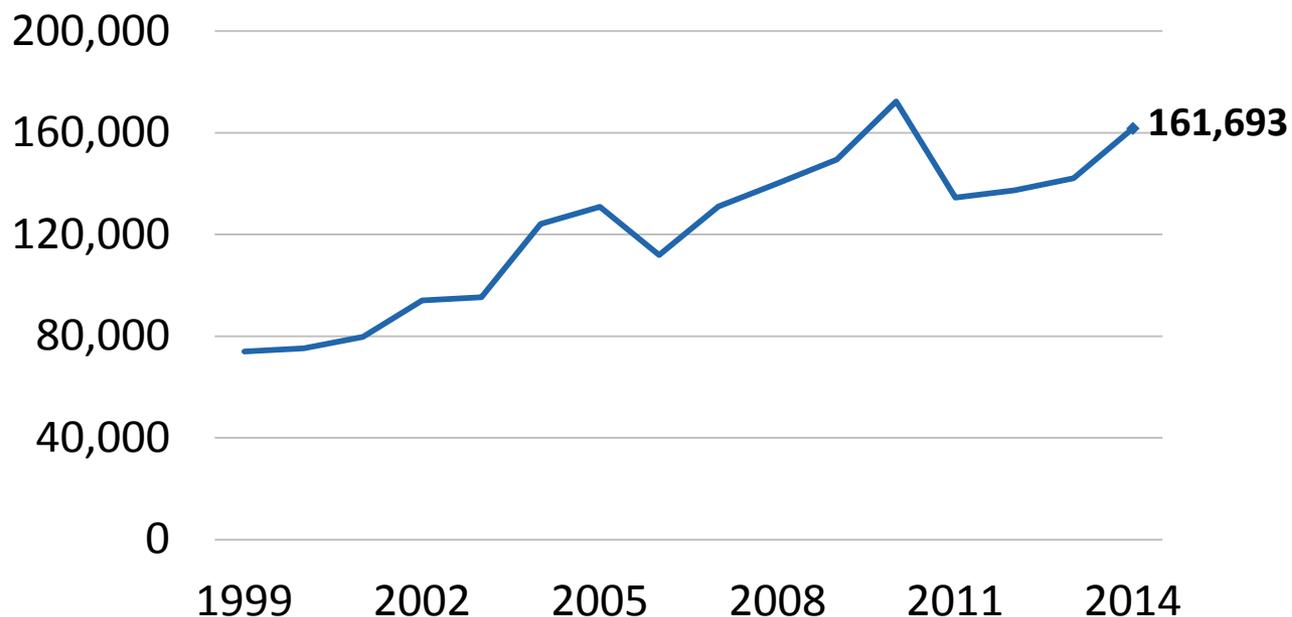
We need more robust data for the  
Congressional Justification.



Photo by  
[Gray Lensman OX!](#)

Under the Hazardous Waste Worker Training Program (HWWTP) in 2014, **161,693** workers received critical training in occupational safety and health.

**HWWTP Total Workers, 1999-2014**



Since program inception in 1987, **2,683,728 workers** have taken part in **151,413 courses**.

# Anecdotes and Stories



“The Lancaster Fire Dept. in Lancaster, SC has been requested to respond to a few different **Meth Labs** this year. We have used our training to evaluate the scene and make safe decisions on how to handle the situation. **...The training we have received [from AFC] is top notch and is very valuable to our department.**”

– Alabama Fire College 2014 Progress Report

“I am working so we no longer look to find blame **but look to find the root causes.**”

– UAW 2013 Progress Report

# Findings across Kirkpatrick



Level 1  
Reaction

Level 2  
Learning

Level 3  
Behavior

Level 4  
Results

The Kirkpatrick Model, from [The Kirkpatrick Partners](#)

There is an endless amount of data to harvest.

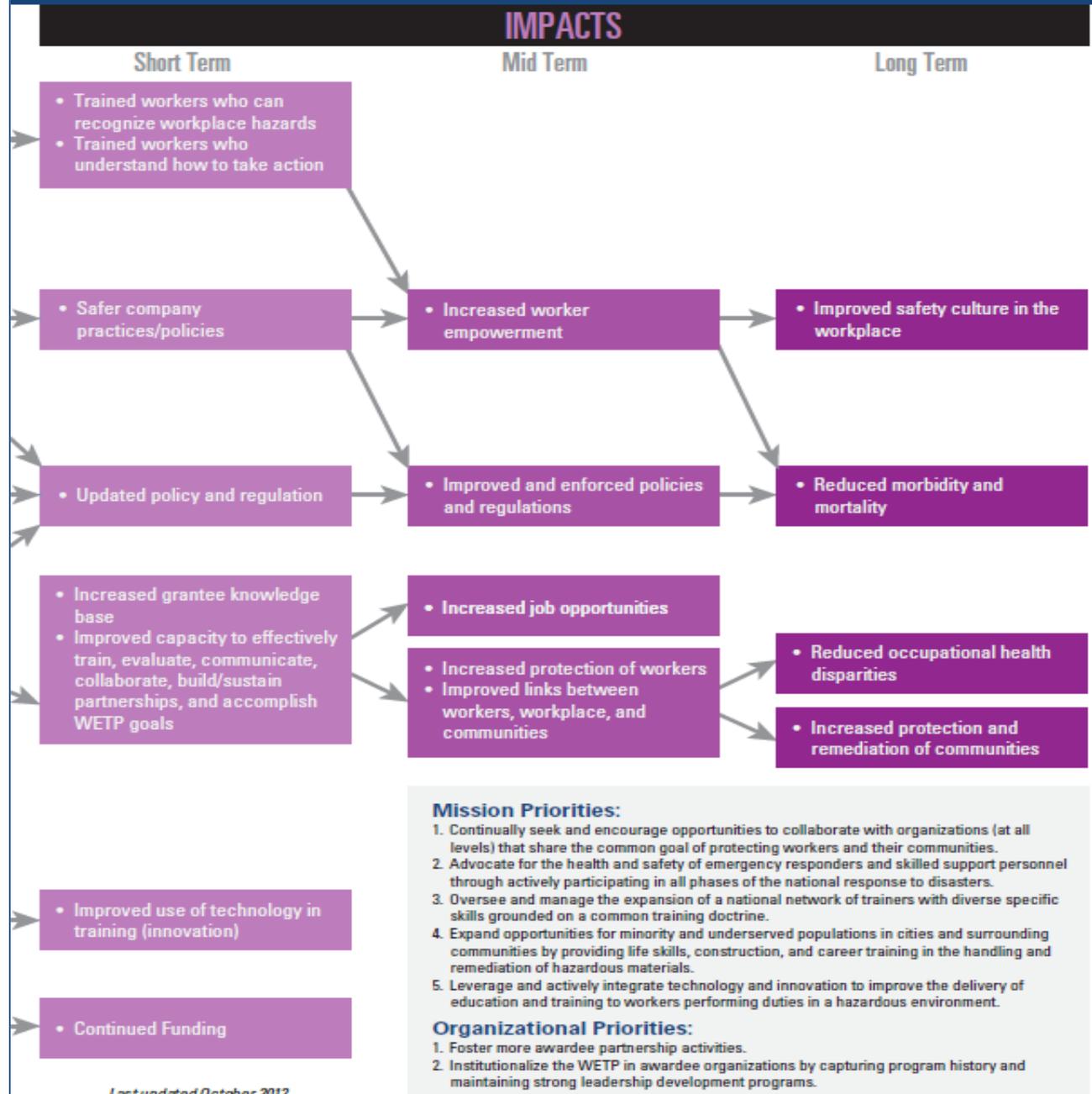


# How do we harvest it?



# Program (WETP) Logic Model

Where should we focus?



# Which direction do we look?

*Existing  
data*



*New  
data*

# Data for WTP in the DMS

## Training numbers

- People
- Hours
- Courses
- + more Env Careers WTP

## Progress Reports

- Overall progress
- Anecdotes
- Evaluation Reports (Appendices)
- Publications

# Collecting Future Data



# Ideas!

Mine past data/Create products

More robust collection & reporting of stories/ anecdotes

Guidance on collecting and reporting Level 3 impact

National program evaluation

- Common metrics & questions
- Case studies, etc.

## Bathtub Refinisher Death Leads to Nationwide Methylene Chloride Alert

*Around 9:30 AM on a cold February day in 2010, Jim Smith, co-owner of firm that repaired and resurfaced tubs and sinks, arrived at an apartment complex to refinish bathtubs in units. Two hours later he was found slumped over in a bathtub, dead from inhaling the vapors of the product used to remove the old finish. This product, Tal-Strip II®, contains 60-100% methylene chloride, a solvent that is readily absorbed into the body through the skin and by breathing in the vapors.*



### The Challenge

The Michigan Fatality Assessment and Control Evaluation program (MIFACE) investigated Jim Smith's death, identified two additional bathtub refinisher deaths in Michigan in previous years, and learned that federal OSHA had investigated 10 bathtub refinisher deaths in nine other states between 2000 and 2011. Urgent actions were needed to prevent more deaths.

### The Response

The MIFACE program sent a Hazard Alert to the 89 bathtub/sink refinishing companies and a number of building, hotel, and apartment associations in Michigan. The MMWR weekly news bulletin of the Centers for Disease Control and Prevention (CDC), which gets widespread national attention, published an article about all 13 deaths. The Michigan OSHA program (MIOSHA) e-mailed the Hazard Alert to its listserv's 4,000 subscribers, and federal OSHA included the information in its e-newsletter, which has over 70,000 subscribers. Now Jim Smith's family has agreed to make a YouTube video to tell Jim's story and provide information on the prevention of similar tragedies.

### The Impact

The MIFACE program received many calls from small business owners with questions and expressions of gratitude for the safety information in the Alert, and MIOSHA has incorporated more solvent information into their training for the construction industry. Following the CDC publication, the story was picked up by more than 150 news outlets and web sites and was recounted in dozens of on-line blogs, environmental safety and trade association publications, and publications of product liability attorneys.

"Our immediate goal was to communicate to employers, workers and let the general public the extreme hazards of using products with methylene chloride in bathtub refinishing and to them know the availability of safer methods that used alternative products. A longer term goal, which still needs to be completed, is to change the regulations that allow the widespread availability of products containing methylene chloride."

-Dr. Ken Rosenman

**For more information, visit the Michigan FACE Program Web page:**

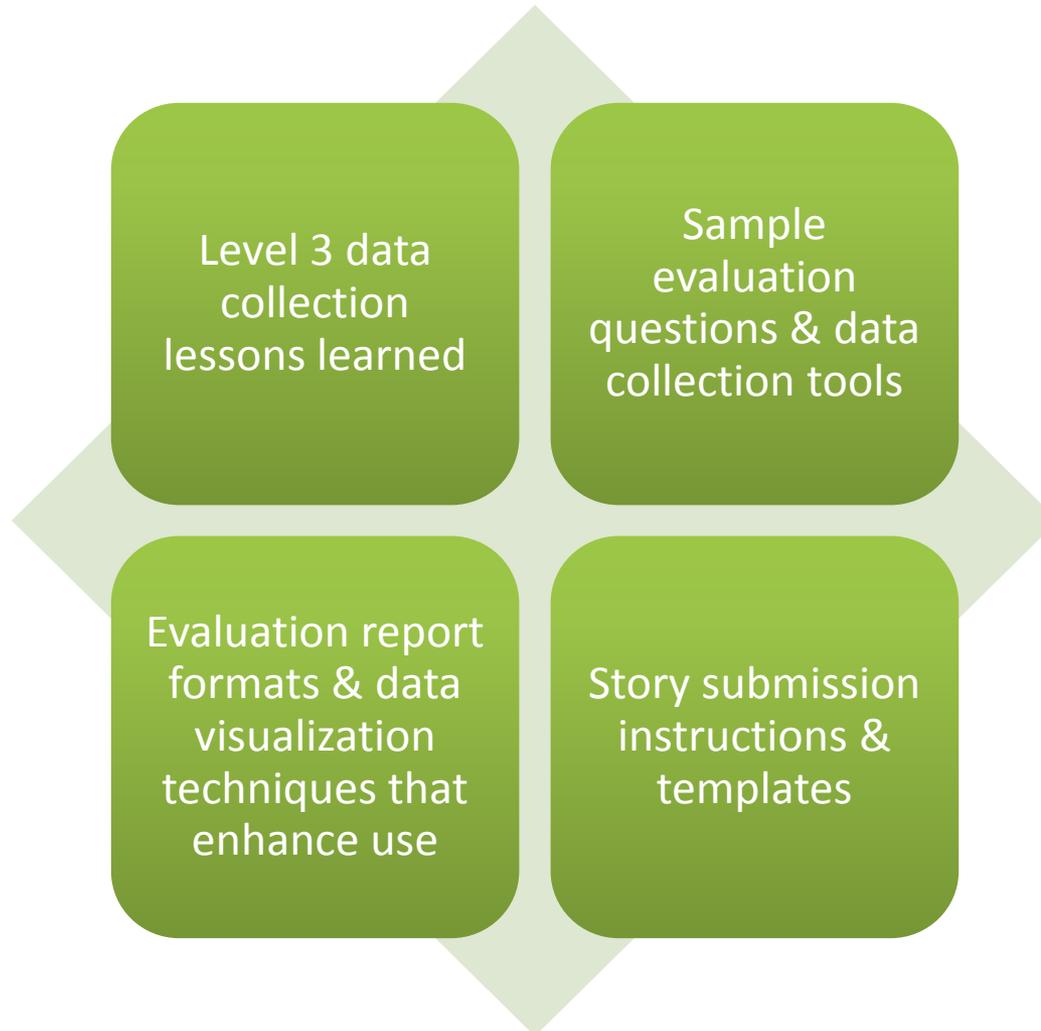
[http://www.oem.msu.edu/MiFACE\\_Program.aspx](http://www.oem.msu.edu/MiFACE_Program.aspx)

<http://www.oem.msu.edu/MiFace/10MI013Report.pdf>

# Sample Success Story

From the [Council of State and Territorial Epidemiologists](#)

# Possible Evaluation Guidance & Tips



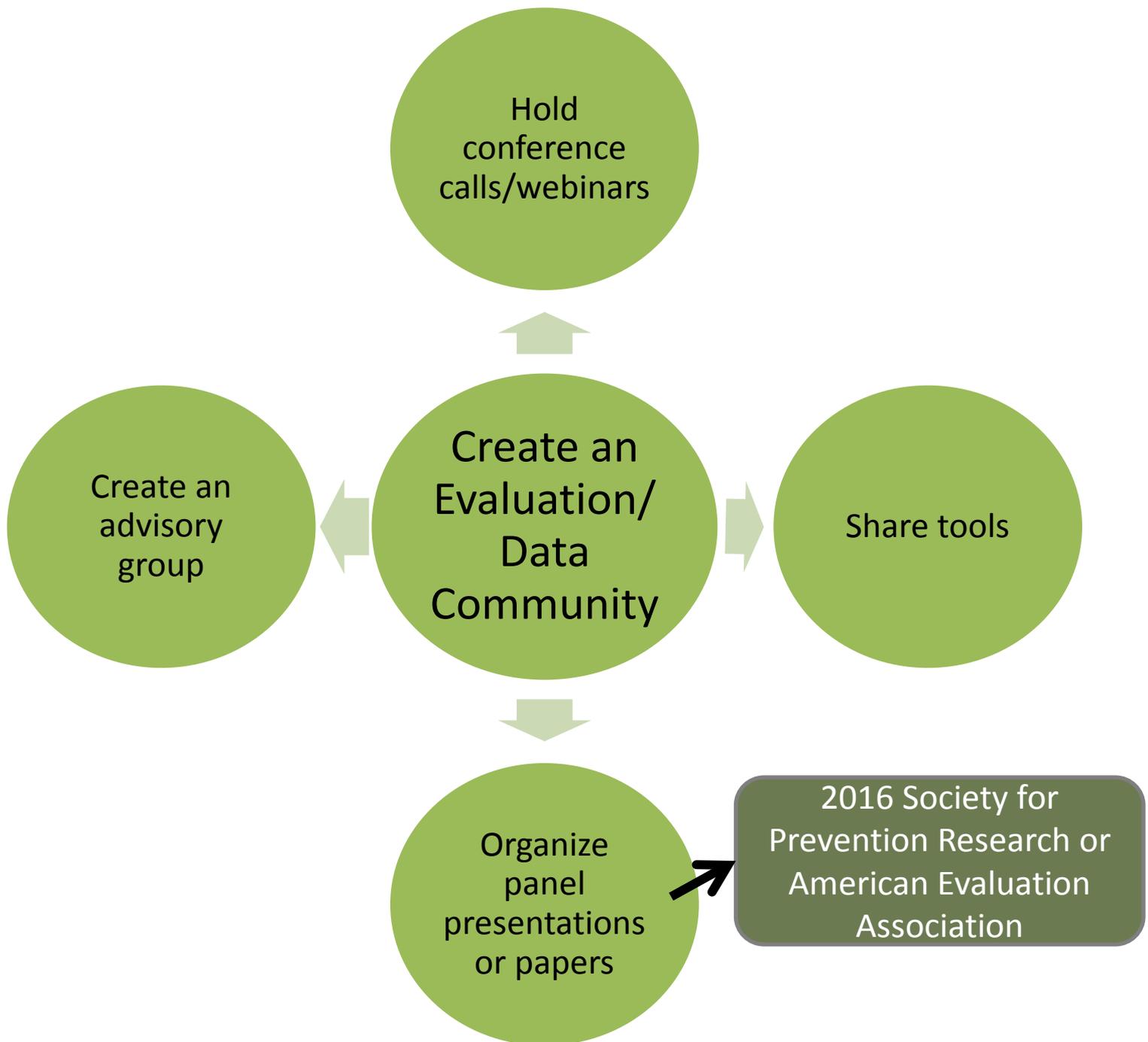
# Next steps



Engage  
stakeholders

Decide on  
focus and  
priorities

Draft design  
and  
methods



Hold conference calls/webinars

Create an Evaluation/ Data Community

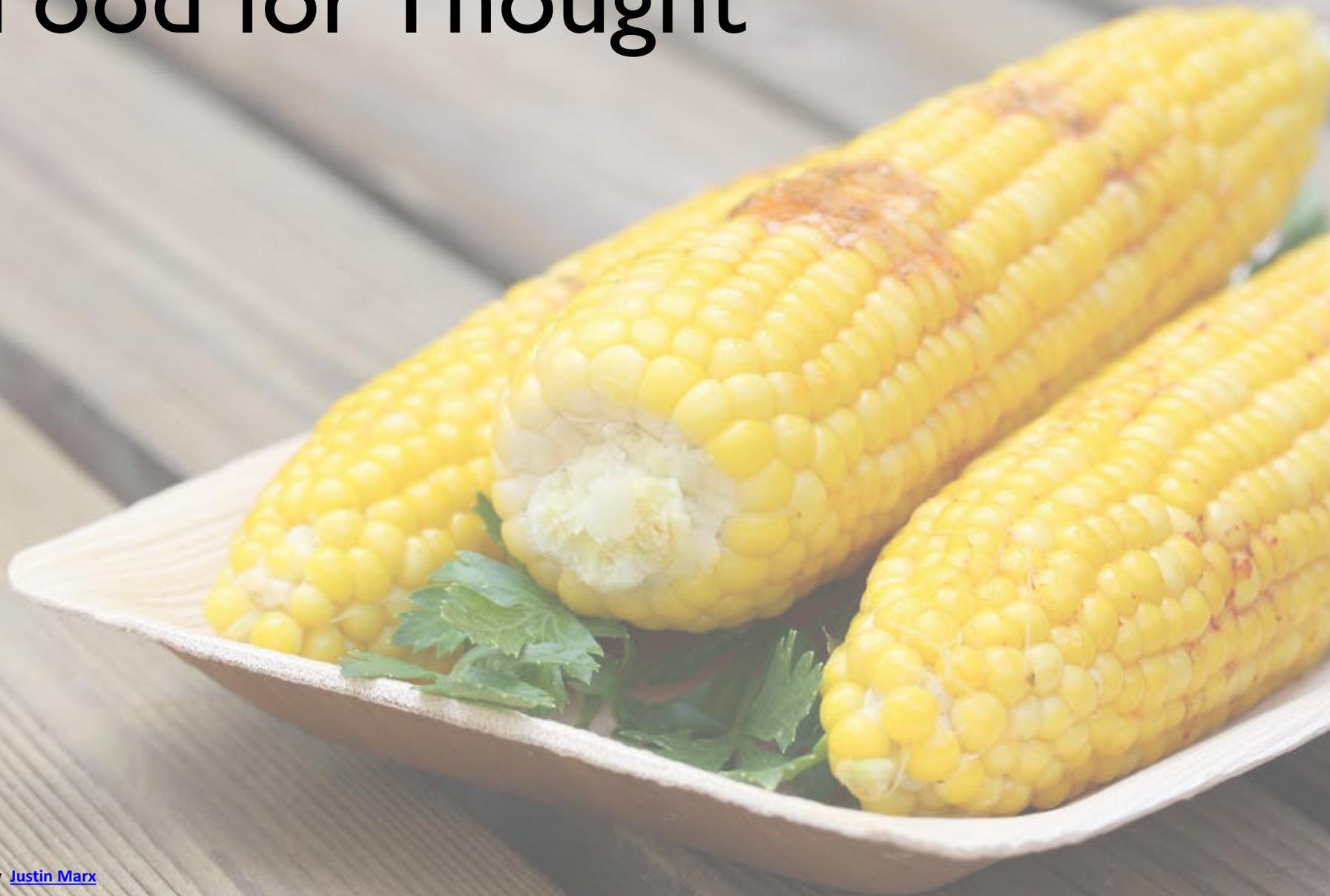
Create an advisory group

Share tools

Organize panel presentations or papers

2016 Society for Prevention Research or American Evaluation Association

# Food for Thought



# Discussion Questions

- Best use of **existing data**; other existing **data sources**?
- How does your program **assess WTP outcomes**?
- What data do we collect/still need for **future analyses**?
- Ways to **systematically collect data & stories**?
- Thoughts on more **in-depth eval** – following worker cohorts? Common questions and metrics?
- What **guidance, tools, reports** would be helpful?
- Interest in creating an **evaluation community**?
- Where to **publish/present** findings?

# Remainder of Session: Give you ideas and hear your feedback



Judy Daltuva, University of  
Michigan



Ruth Ruttenberg, Ruth  
Ruttenberg Associates



Sharon Beard, WTP, NIEHS



Break outs & discussion

A close-up photograph of a person's hands typing on a silver laptop keyboard. The laptop screen is black and displays white text. The background is blurred, showing a window and some greenery.

Send me your thoughts!

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919-316-4638

First up...

Judy Daltuva

