



Evaluation: A Year's Progress and the Infectious Disease Response WTP Framework

**WTP Awardee Meeting
Research Triangle Park
September 19, 2016**

**Demia Wright, MPH
Public Health Educator
Worker Training Program, NIEHS**

Overview

1

Review themes from last year

2

Discuss evaluation framework for
Infectious Disease Response (IDR) WTP

3

Consider progress in overall WTP
evaluation activities since last year



1

**Review themes from
last year**

There is an endless amount of data to harvest.



Photo by [USDA](#)

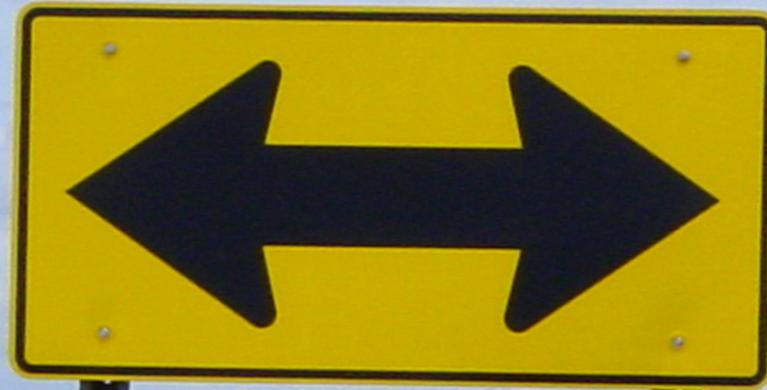
We need more robust data for
the Congressional Justification.



Photo by
[Gray Lensman QX!](#)

Which direction do we look?

*Existing
data*



*New
data*

Collecting Future Data



Ideas!

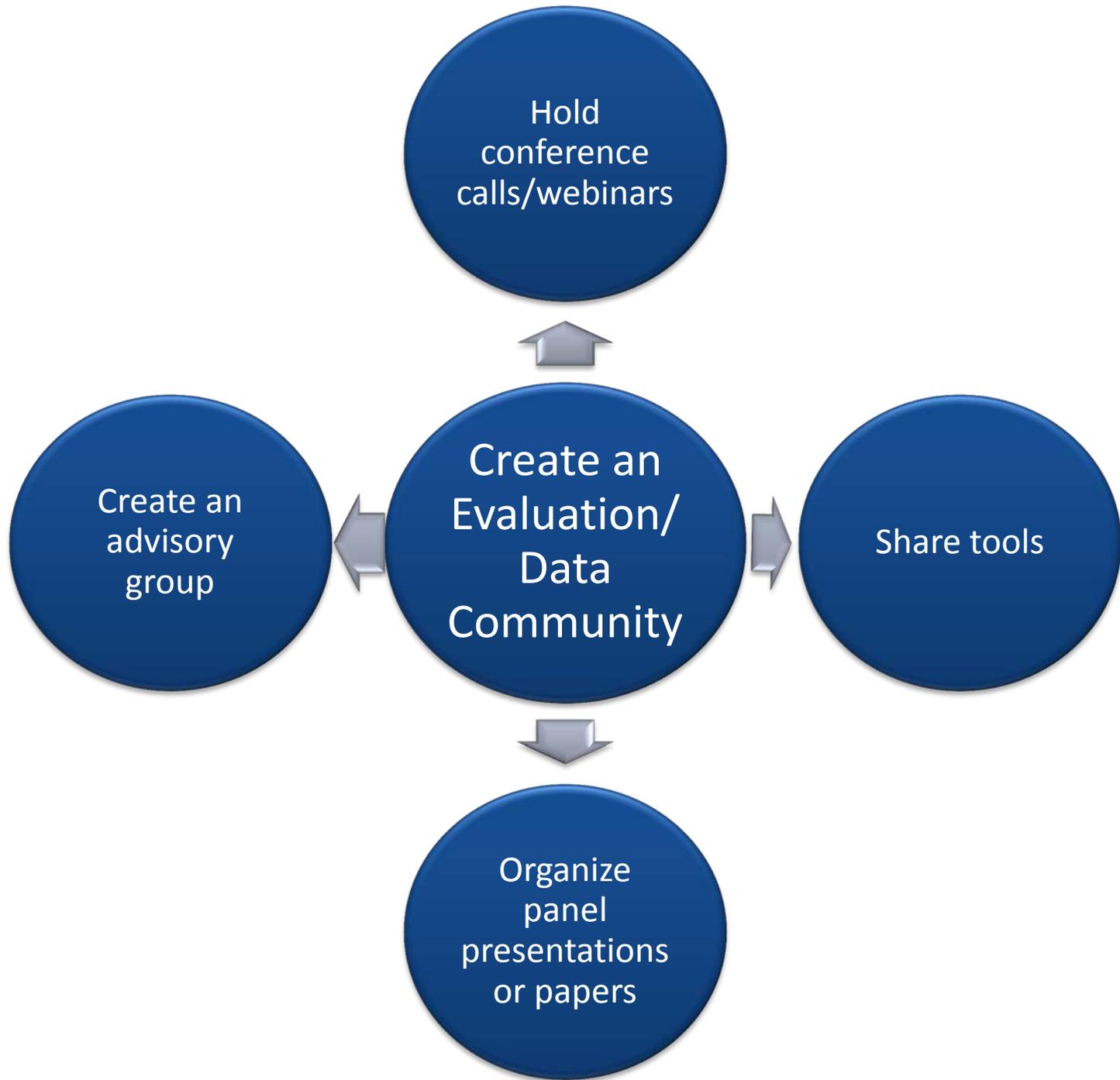
Mine past data/Create products

More robust collection & reporting of stories/ anecdotes

Guidance on collecting and reporting Level 3 impact

National program evaluation

- Common metrics & questions
- Case studies, etc.





2

**Discuss evaluation
framework for
Infectious Disease
Response (IDR) WTP**

Demonstrate accountability for Congressional Ebola funding

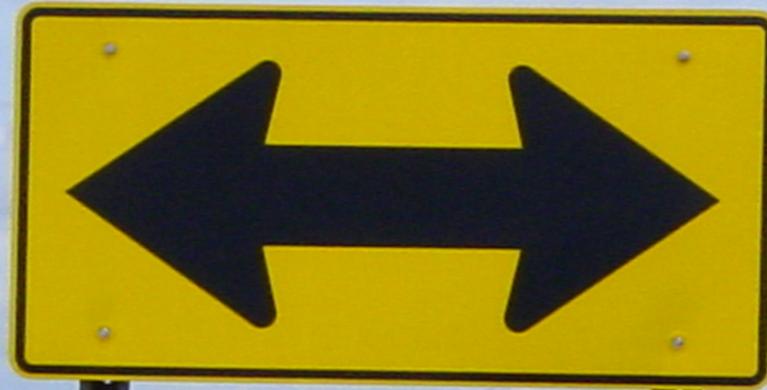


Photo by
[Gray Lensman](#)
QXI

Capture lessons learned

Which direction do we look?

*Existing
data*



*New
data*

Opportunity!

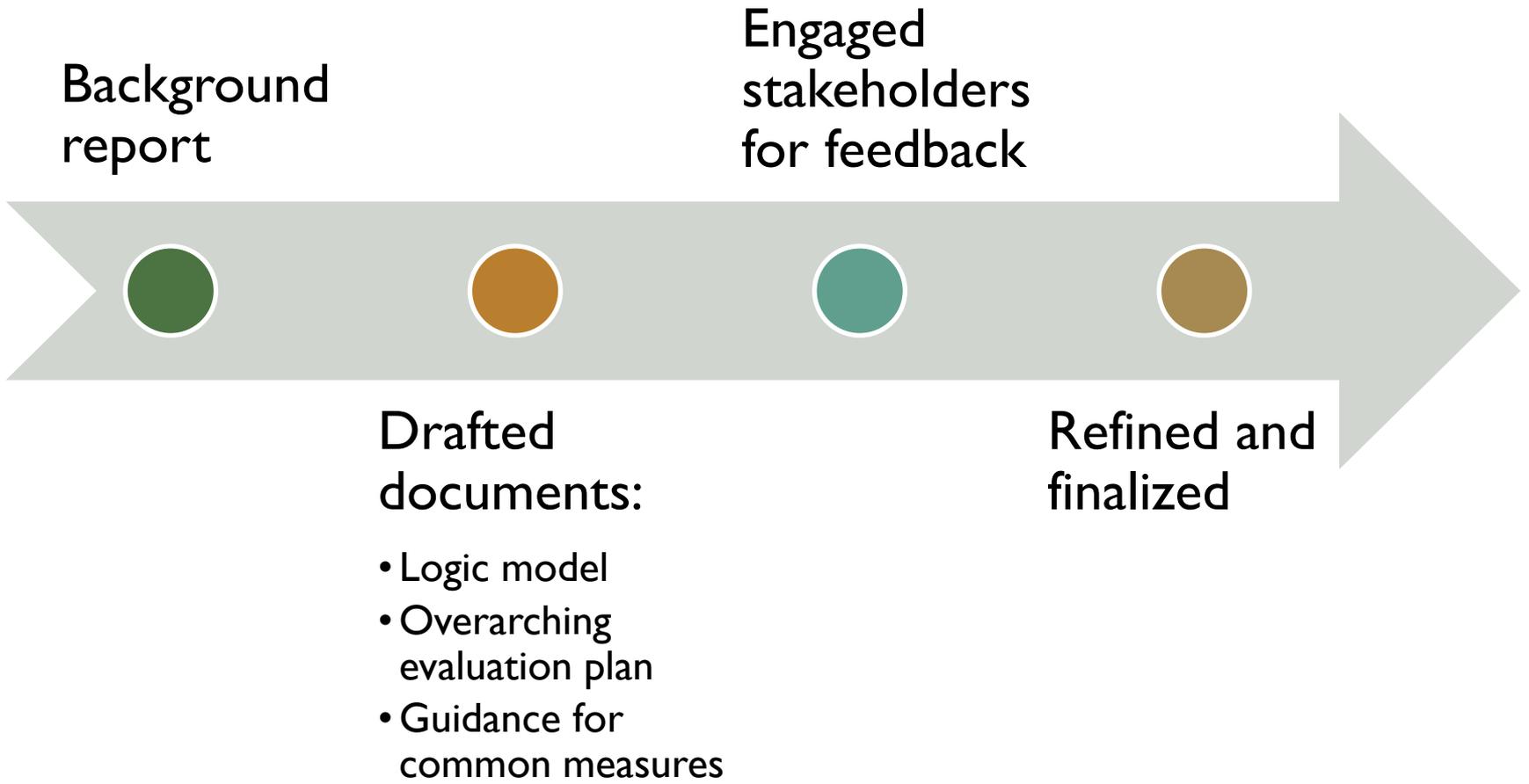
Background Report

A Comprehensive Process for Systematically Evaluating the National Institute of Environmental Health and Safety Worker Training Program Ebola Biosafety and Infectious Disease Response Training

Sue Ann Sarpy, PhD

Sarpy and Associates, LLC

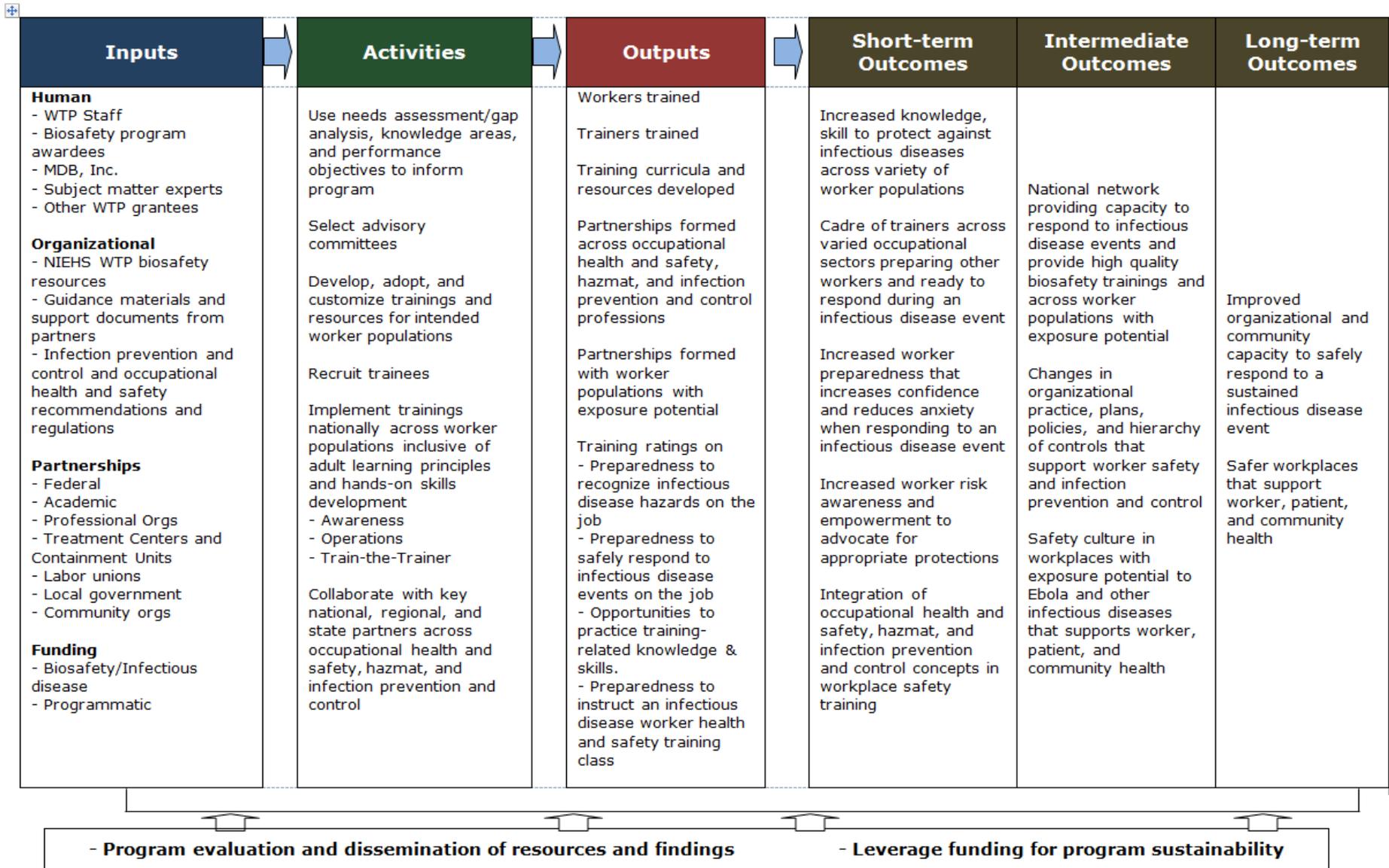
Development of IDR WTP Evaluation Framework



Logic Model for the NIEHS Infectious Disease Response Worker Training Program (WTP)

Last Updated: September 2, 2016

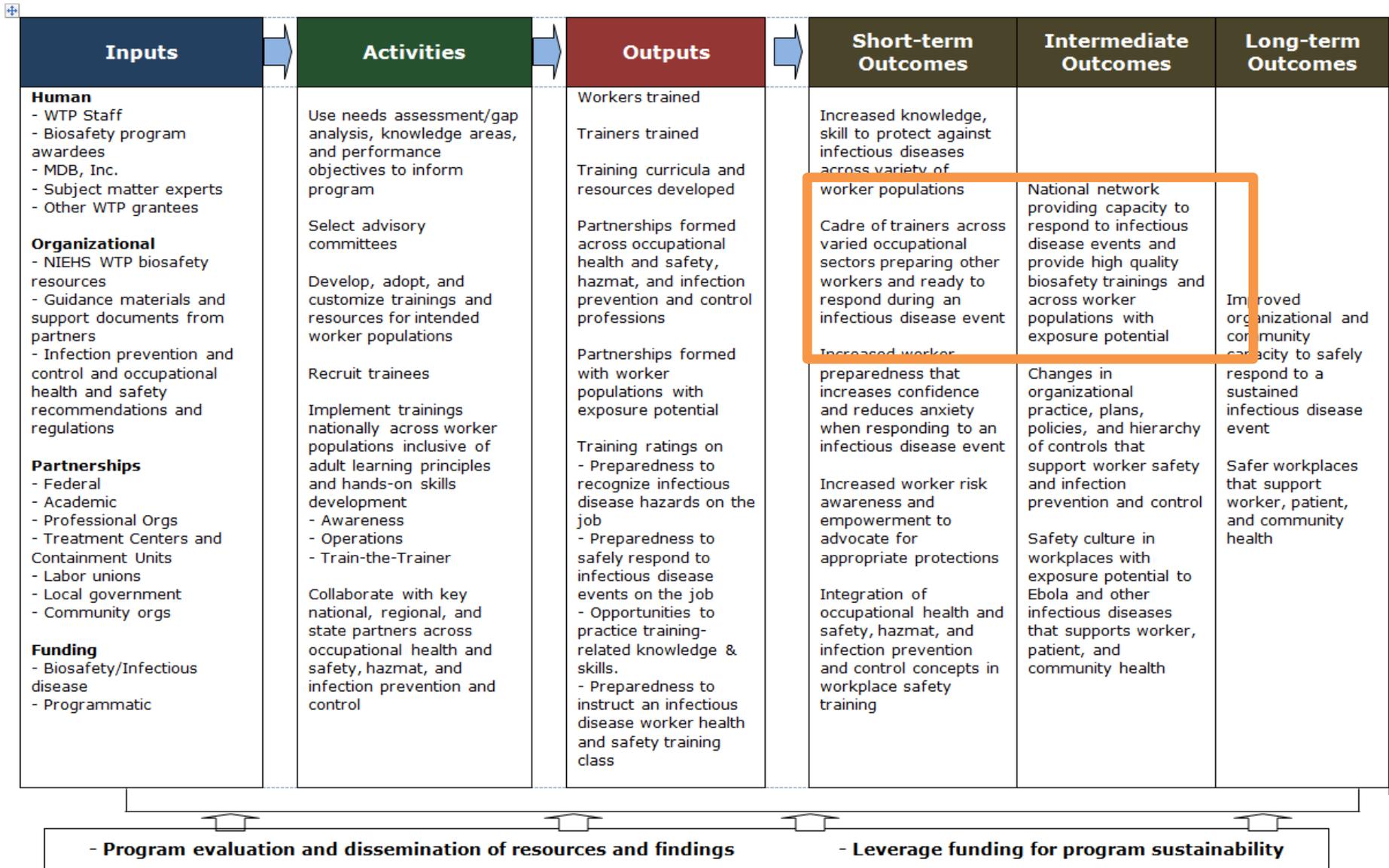
Program Purpose: Support the development, implementation, and dissemination of worker training programs that prevent and reduce exposure of hospital employees, emergency responders, and other healthcare and non-healthcare workers who are at risk of exposure to infectious diseases through their work duties.



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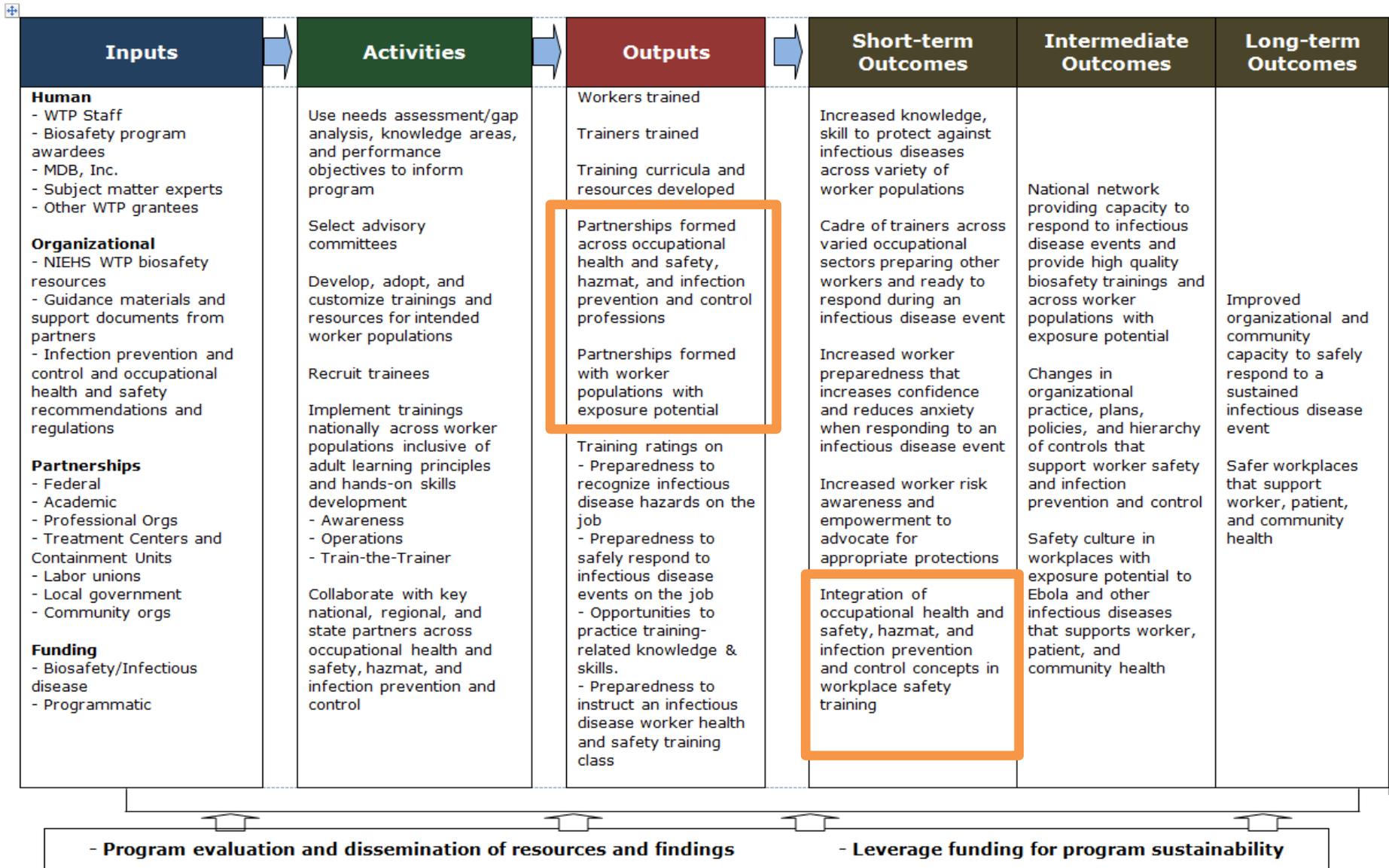
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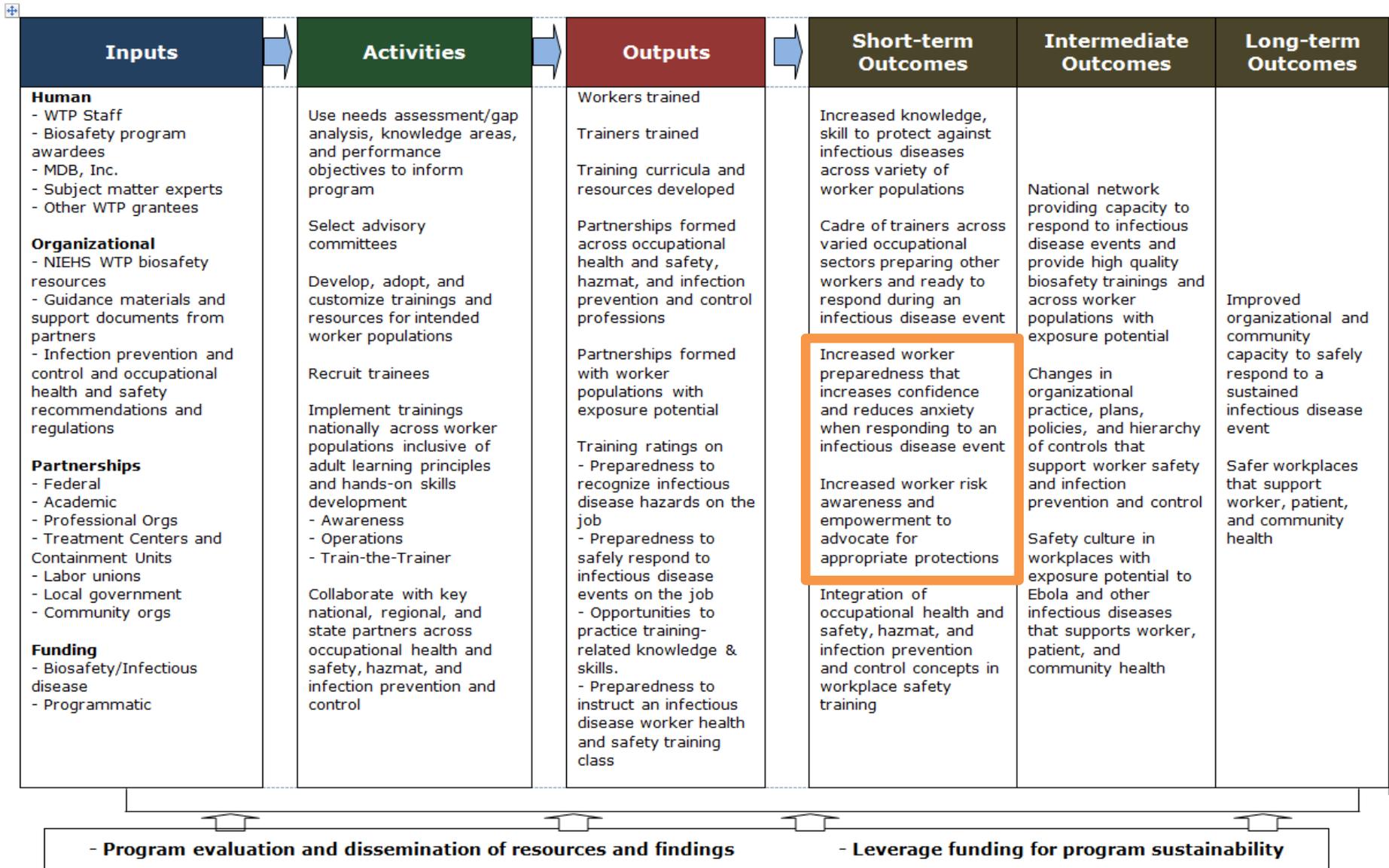
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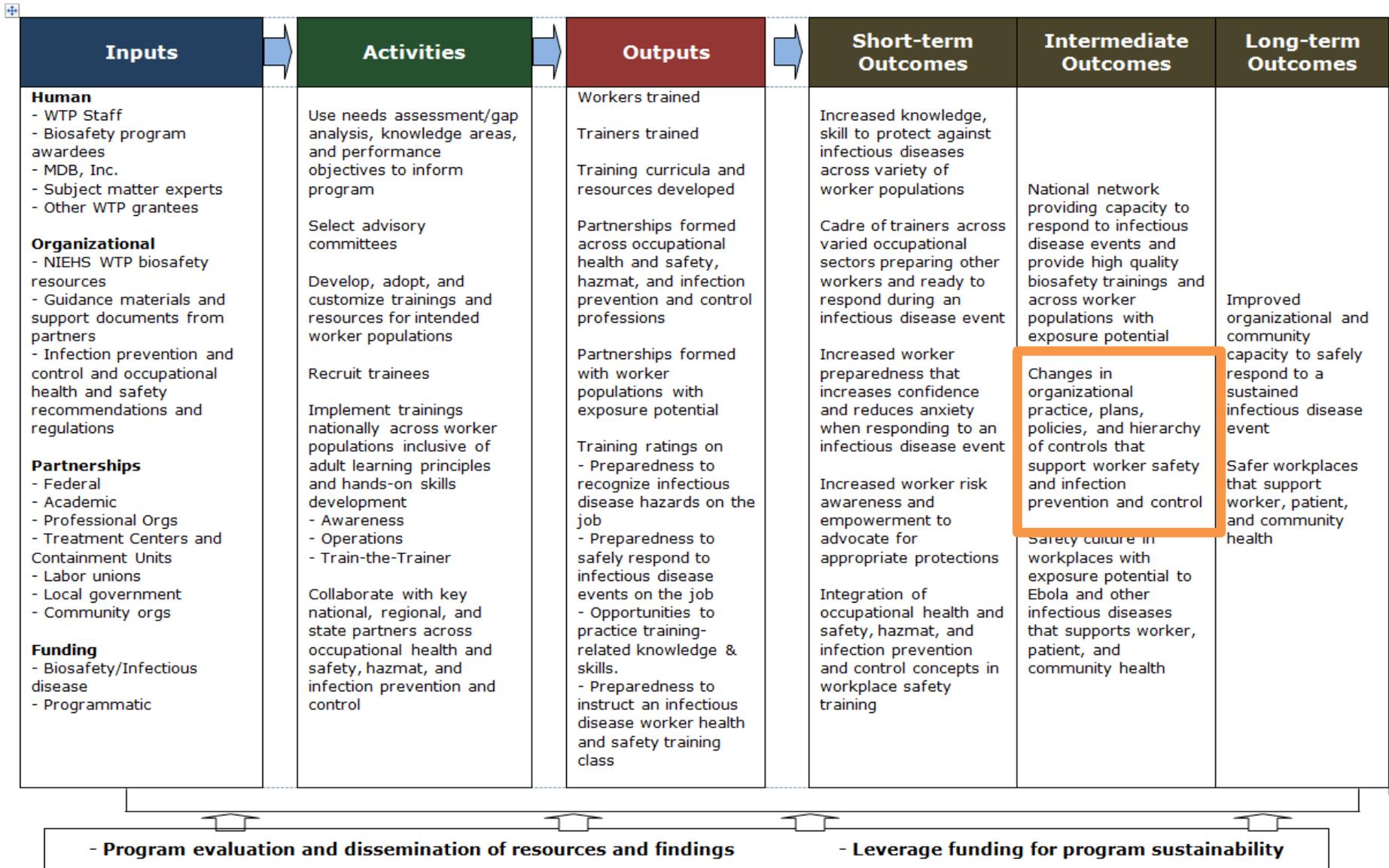
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National Evaluation – Big Picture

Cross Grantee

- Training Data – amount and locations
- Worker populations reached/Avenues where we are addressing infection prevention/control and worker safety
- National capacity building/network developed
- Training ratings
- Curricula and resources developed
- Lessons learned

Illustrative Case Studies

- More detailed description of training program and audiences
- Lessons learned/challenges addressed
- Outcomes highlighted

Common Measures

- **Recommended questions:** Three questions (Two all courses; One Train-the-Trainer) that we encourage all grantees to use.
- **Other optional questions:** Additional questions that can be used or modified as they are helpful to grantee evaluation plans and for follow-up with trainees.

Common Measures - Recommended questions

To what extent do you agree with the following statements?	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
All Courses					
1) The training has prepared me to recognize infectious disease hazards on the job.	<input type="radio"/>				
2) The training has prepared me to safely respond to infectious disease events on the job.	<input type="radio"/>				
Train-the-Trainer Courses					
3) I feel prepared to instruct an infectious disease worker health and safety training class.	<input type="radio"/>				

Common Measures – Other Optional Questions

All Courses					
	Gained a great deal of knowledge about the content	Gained a fair amount of knowledge about the content	Gained a limited amount of knowledge about the content	Did not gain any knowledge about the content	No opinion
Please rate your knowledge gain on the following topics due to participating in this training:					
4) Infectious disease exposure control plans.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5) Infectious disease prevention and control measures in my workplace.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6) Appropriate choice of personal protective equipment (PPE) for use with potentially infectious materials.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>(Add other content areas as applicable to your training)</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Operations and Train-the-Trainer Courses:					
7) The training has prepared me to perform donning and doffing of PPE for a specific job task.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Common Measures – Optional Follow-Up Questions

- Grantees are encouraged to follow-up with trainees
- Understand that different time periods and methodology for follow-up may be used
- Questions and response examples are provided for Awareness/Operations and Train-the-Trainer, e.g.
 - Did you or your organization make any changes or apply the training knowledge and skills in the workplace as a result of the Infectious Disease Response course? Please provide specific examples in your response, such as:
 - Created or updated an exposure control plan
 - Changed a policy or procedure
 - Changed the work environment to make it safer
 - Shared knowledge or skills with coworkers or supervisors

National Evaluation – Data Sources

- Data Management system
 - Training data
 - Progress report
 - Reporting back on common measures and outcomes
 - Evaluation reports
- 5-year application
- Curriculum and Resources
- PI interviews
- Trainer or other key informant interviews?

IDR Progress Report

- Updating to:
 - Align with unique topic
 - Clarify instructions for some questions
 - Tie to common measures guidance
 - Align instructions with evaluation plan and logic model
 - Better align with RPPR (***feedback needed here***)



3

**Consider progress in
overall WTP
evaluation activities
since last year**

Ideas!

Mine past data/Create products

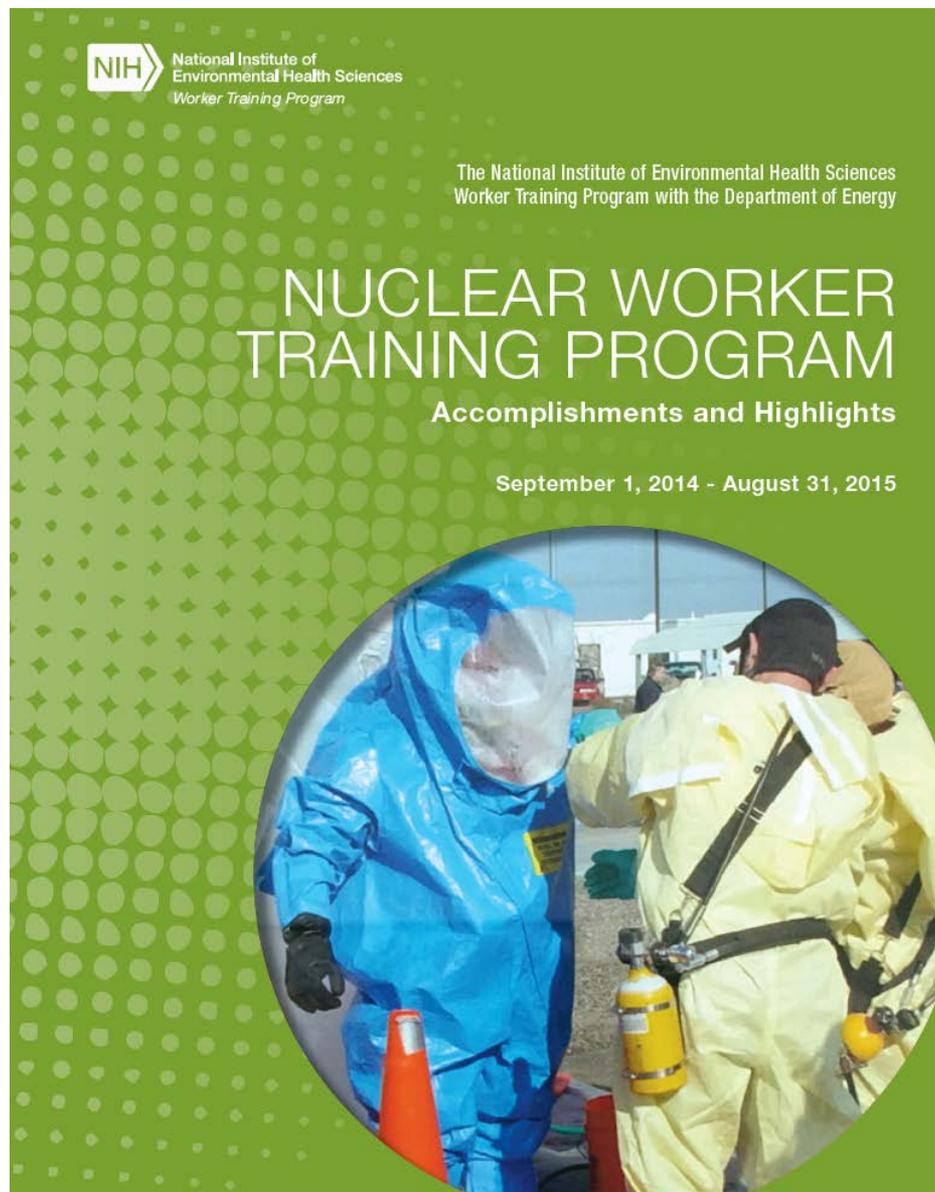
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- Common metrics & questions
- Case studies, etc.

DOE Nuclear Worker Training Program annual report: Updated



Training Data

Since the beginning of the program in 1994:



37,212
Courses Completed



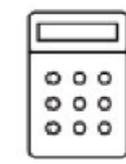
534,068
Workers Trained



7,074,861
Contact Hours



\$190,700,249
Dollars Awarded



\$29.37
**Average Cost
per Contact Hour**

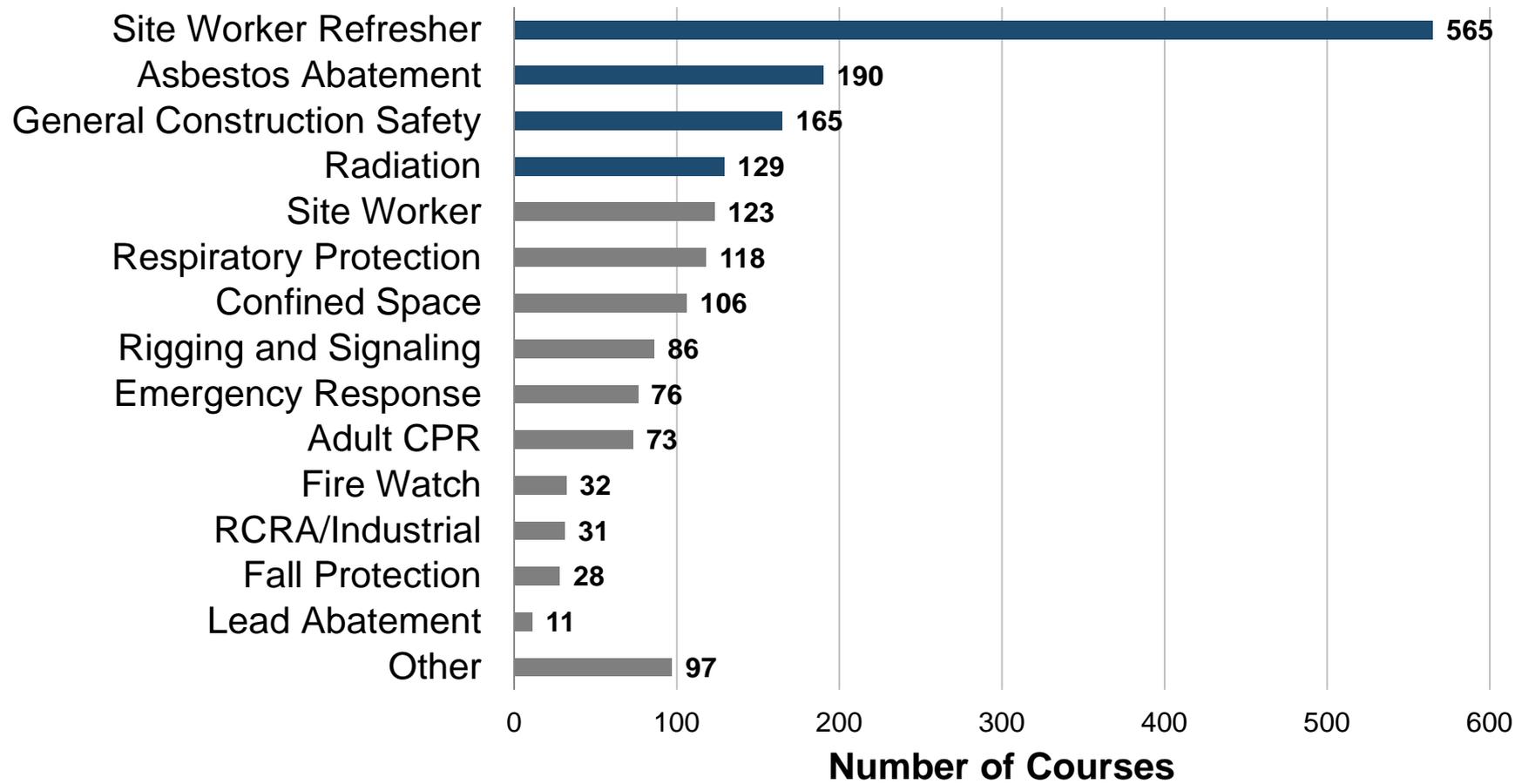
In **2014-2015**: 26,396 workers received 323,316 contact hours of training in 1,830 courses.

Icons from The Noun Project:

Students in classroom – Boudewijn Mijnlief Workers – Wilson Joseph Clock – Christoph Robausch Dollar Sign – Thomas Bruck Calculator - Myly



The most common categories of training courses provided in FY2015 fell under the topic of **Site Worker Refresher**, followed by **Asbestos Abatement**, **General Construction Safety**, and **Radiation**.



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WTP Program Story Template

NIEHS Worker Training Program Story Template

Grantee/Consortia Member(s)
Partner organizations/businesses involved
City, State and Zip code for locations involved in training
The overall challenge
How WTP training addressed the challenge
Results
For example, <ul style="list-style-type: none"> • Training hours, participants, courses • Use of training in terms of <ul style="list-style-type: none"> ○ Change in PPE use ○ Helped with emergency response or spill ○ Change in policy or practice • Curriculum developed • Quantitative evaluation results • Cost savings
Contact information (Name, phone, e-mail)
Supplemental Information
<ul style="list-style-type: none"> • Photos available? • Quotes available?

Sample OSH Success Story

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

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/10MI013Report.pdf>

Sample WTP Success Story

From NIEHS [Division of Extramural Research and Training](#)

ational Institutes of Health - U.S. Department of Health and Human Services NIEHS is Celebrating **50** Years of Research 1966 - 2016

NIH National Institute of Environmental Health Sciences
Your Environment. Your Health.

Health & Education | **Research** | Funding Opportunities | Careers & Training | News | About NIEHS

Research
Funded by NIEHS Grants
Stories of Success
NIEHS Grantee Uses Novel Technique to Identify Early Targets of Oxidative Stress Induced by Engineered Nanomaterials
Elucidating Risk Factors for Breast Cancer: Puberty, Diet, and Environmental Exposures
Commercializing a New Portable Mercury Detector
Enabling Community Science through a Point-of-Care Sensor to Detect Toxic Heavy Metals
Exploring the Impacts of Particulate Matter on Lung Injury and Cardiovascular Health
WTP Grantee Advances Worker Health, Safety, and Environmental Training
Grantee links early lead exposure with behavioral problems in children
High School Teacher's Research Experience Benefits Students
High-Throughput DNA Repair Analysis Moves from Lab to Market
Integrating Data to Help Elucidate Causes of Environmentally Influenced Disease

WTP Grantee Advances Worker Health, Safety, and Environmental Training

DERT Success Story

James (Jim) S. Frederick, Steelworkers' Mazzocchi Center

Jim Frederick's career is dedicated to helping workers protect themselves from hazards on the job. As a child growing up in Elkhart, Indiana, he witnessed first-hand why protecting workers from chemical and physical exposures is critically important. He vividly recalls sitting in his third-grade classroom and hearing the loud explosion of a nearby chemical processing facility blowing up. Many of the workers inside were badly injured or killed.

"Considering whose family member or relative might have been injured, or killed, was incredibly surreal," said Frederick. "I never forgot that experience - it really stuck with me."

This childhood experience primed Frederick's commitment to the worker safety field. Today, Frederick is assistant director of the United Steelworkers' Health, Safety, and Environment department, where he is actively involved in a variety of initiatives aimed at protecting workers and the environments where they work and live. He is also principal investigator for the Steelworkers Charitable and Educational Organization's [Tony Mazzocchi Center](#) (TMC). TMC is an [awardee](#) of the NIEHS Worker Training Program (WTP).

The TMC provides workers and community residents with training to help prevent and prepare for toxic releases, fires, explosions, injuries, sickness, and death. It provides training to workers in a variety of industries, including chemical manufacturing, nuclear energy, pharmaceuticals, pulp and paper, automobile parts, appliance manufacturing, and cement. Partner organizations include Communications Workers of America, The Labor Institute, and two organizations representing immigrant workers, called Make the Road New York (MRNY) and National Day Laborer Organizing Network (NDLON).



Jim Frederick speaks on the challenges and successes in the occupational health and safety field.
(Photo courtesy of United Steelworkers)

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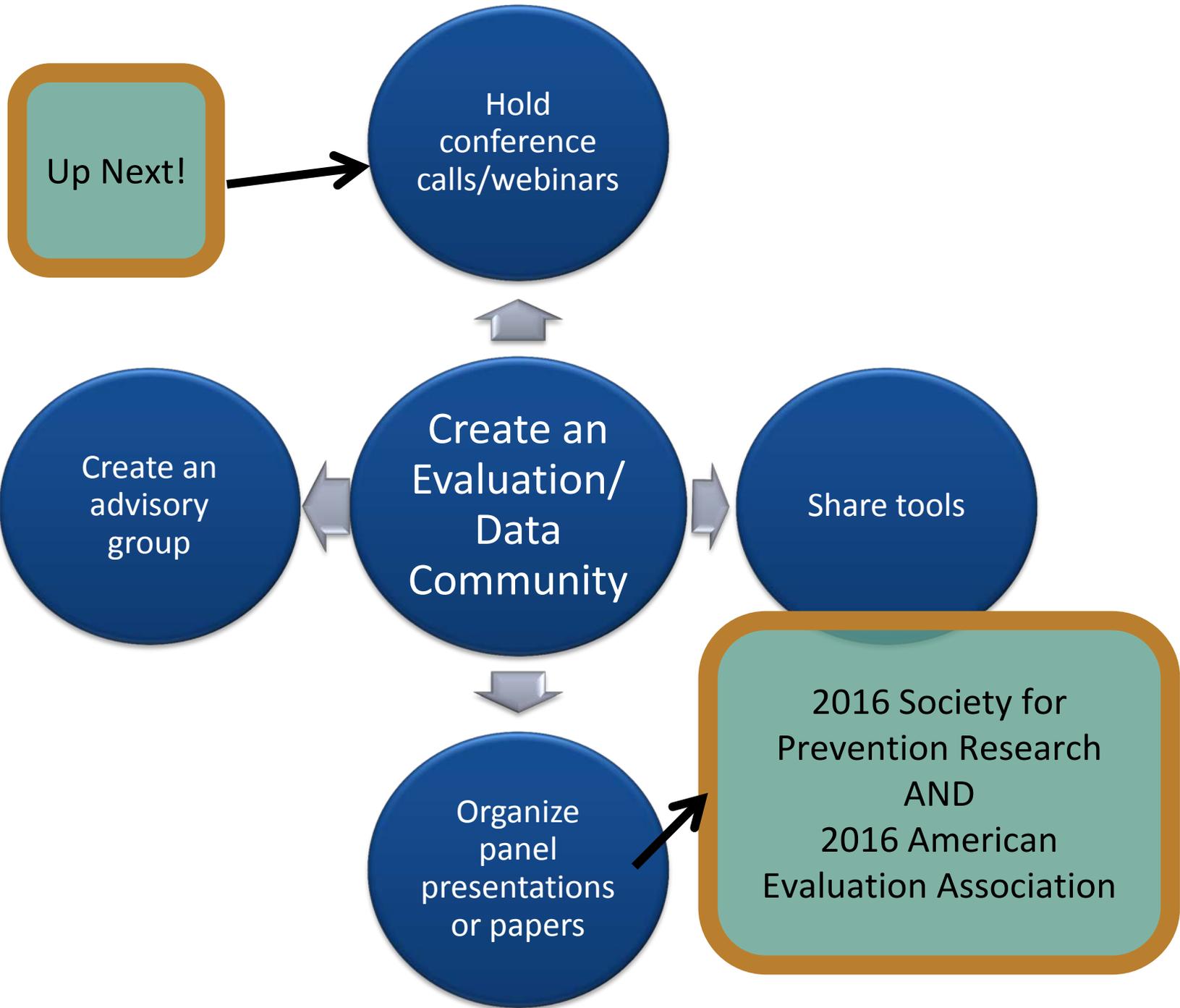
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In Summary

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Review themes from last year

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Discuss evaluation framework for
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Consider progress in overall WTP
evaluation activities since last year



Discussion
Questions

Thoughts on **IDR common measures** and moving that to HWWT?

Is a **story template** helpful?

Interest in creating an **evaluation community**?

Where to **publish/present findings**?

Priorities for **next steps**?

A person wearing a red shirt is seen from behind, typing on a silver laptop. The laptop screen is the focus, displaying contact information.

Send me your thoughts!

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919-316-4638