National Institute for Occupational Safety and Health



Expanding NORA Construction Sector Program Impact<u>Discussion</u>



Some Definitions

NIOSH uses the 'BNI Method' to identify and define research priorities

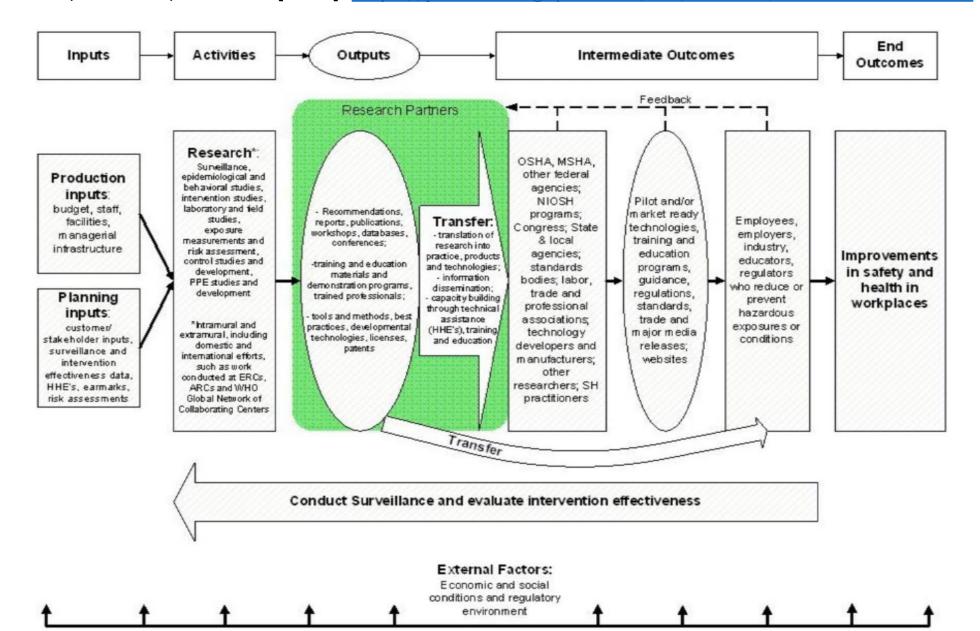
- <u>Burden</u> evidence of health and safety workplace risks and hazards
- <u>Need</u> includes unique resources of NIOSH/
 NORA collaborators to perform the work
- Impact how likely the work will reduce burden.
 - Lead others to act on findings
 - Promote practical intervention
 - Promote other intermediate outcomes

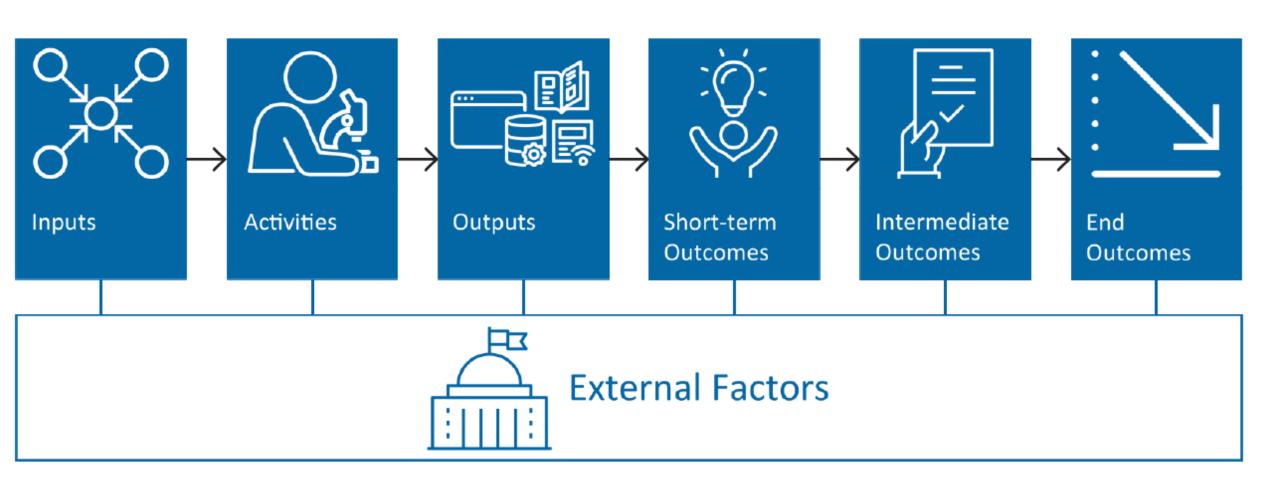


https://www.cdc.gov/niosh/programs/bni.html

"NIOSH Logic Model" from:

Downes A, Novicki E, Howard J [2019]. https://journals.sagepub.com/doi/10.1177/1098214018767046







Outputs

Products (i.e., Publications, Engineering Controls, & Tool Kits)



Short-term Outcomes

Immediate Effects (i.e., Awareness, Knowledge & Motivation)



Behavior Change (i.e., Use & Implementation)



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Improved
Worker Safety
& Health

Some Definitions

<u>Short Term Outcomes</u> = the immediate effects of initiatives, projects, or programs. These effects include changes in learning, awareness, knowledge, attitudes, skills, opinions, motivations, and intent. Example includes:

 Safety managers' increased knowledge of falls in residential construction as measured by a post-training survey

<u>Intermediate Outcomes</u> = Changes in Behavior. Examples include:

- Company adopting recommendations directly into workplace practice
- Employer adopting a new OS&H technology into the workplace
- Safety and health inspector using new methods intended to advance OS&H

Some Definitions

Go beyond using indicators of "reach" in place of indicators (or evidence)
of behavior change



Falls Work Group

Outputs & Outcomes

12 Years of the National Campaign to Prevent Falls in Construction

Began in 2012, but originated as an objective of the Second Decade National Occupational Research Agenda for Construction (2006-2016)

INPUTS

- Financial resources, staff time, etc. from partner orgs (NORA WG, NIOSH, CPWR, OSHA, etc.)
- Research on falls and fall safety
- Stakeholder feedback

ACTIVITIES

- Annual Safety Stand-Down planning
- Webinars & other presentations
- Resource development & dissemination (i.e., online order form)
- Maintaining Stopconstructionfalls. com
- Partnership building

OUTPUTS

- Infographics, tipsheets, toolbox talks, and other handouts
- Annual Stand-Down sticker, promo materials
- Webinar recordings & other videos, podcasts
- Stand-Down Success
 Stories
- Evaluation reports

MEASURABLE OUTCOMES

SHORT-TERM:

- Thousands of Stand-Downs held annually (motivation to focus on fall safety)
- Millions of workers reached (awareness)

INTERMEDIATE:

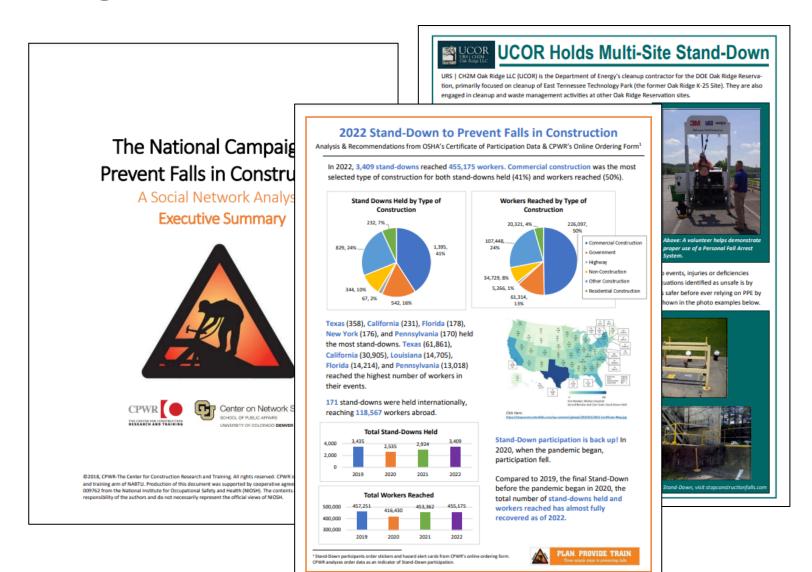
 Improved fall prevention & protection practices (e.g., more consistent implementation of PtD measures, proper fall protection systems, rescue training, equipment inspections, etc.)

END:

>?????

Measuring Reach & Outcomes

- OSHA Certificate of Participation Data
- 2017 Social Network Analysis
- Success Stories
- Website metrics
- Social media engagement
- Webinar views & satisfaction surveys
- CPWR Online ordering form
- QR Codes (limited success)



Struck-by Work Group

Outputs & Outcomes

4 Years of Struck-by Stand-Downs

Originated by the NORA Construction Sector Council Struck-by Work Group in 2020

INPUTS

- Financial resources, staff time, etc. from partner orgs (NORA WG, NIOSH, CPWR, ARTBA, etc.)
- Research on struck-by prevention practices
- Stakeholder feedback

ACTIVITIES

- Annual Safety Stand-Down planning
- Webinars & other presentations
- Resource development & dissemination (i.e., online order form)
- Maintaining cpwr.com/struck-byhazards
- Partnership building

OUTPUTS

- Infographics, tipsheets, toolbox talks, and other handouts
- Annual Stand-Down promo materials
- Webinar recordings & other videos, podcasts
- Pilot Planning
 Program to Prevent

 Struck-by Incidents

MEASURABLE OUTCOMES

SHORT-TERM:

- Use of resources/numbers reached
- ???

INTERMEDIATE:

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END:

??????

Measuring Reach & Outcomes

- Website metrics
- Social media engagement
- Webinar views & satisfaction surveys



How to improve the impact of CON Sector Council

Realistically we are looking for short-term outcomes and intermediate outcomes

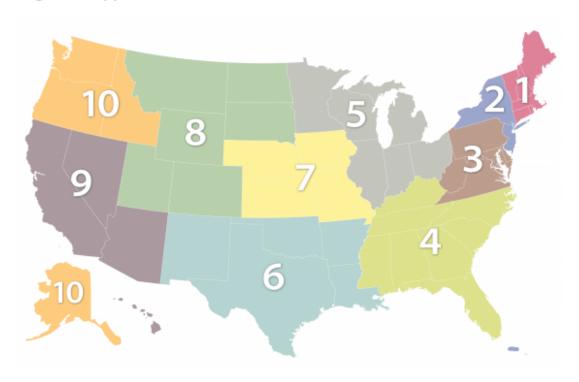
- How can we get our existing outputs, and new outputs as needed, used to:
 - Ideally change behavior (intermediate outcome)
 - First step may be to increase awareness (short term outcome)

How to improve the impact of CON Sector Council - Brainstorming

- Idea of setting up regional groups to expand our reach discussed in Struckby Workgroup in September
 - Organize CON Sector Council groups in different regions of the country
 - Perhaps could connect the regional groups with the various NIOSH extramural centers and researchers.
 - Many different associations have state chapters.
 - Increase spread regionally; could also do more sharing at a local level with stand-downs, more folks at a local level involved making our efforts as local as possible

New Concept: NIOSH NORA Construction Sector Council

Regional Support Centers



Concept:

- Each NIOSH "Region" would have Sector Council support centers/groups comprised of volunteers from the various construction industry segments, (e.g., Commercial, Heavy/Civil, Homebuilding, Electrical, Utilities, etc.)
- We would select a "chair" for each region to ensure the groups meet to discuss assigned topics and provide information based on regional needs.
- Groups would promote and distribute Sector Council meetings, webinars, products, etc.
- Groups would inform the Sector Council of research and research-topractice needs in their local jurisdictions.

Concept:

- 1. Each "Region" would have Sector Council support centers/groups comprised of volunteers from the various construction industry segments, (e.g., Commercial, Heavy/Civil, Homebuilding, Electrical, Utilities, etc.)
- 2. We would select a "chair" for each region to ensure the groups meet to discuss assigned topics and provide information based on regional needs
- 3. What would 'regional groups' do?
 - Promote and distribute Sector Council meetings, webinars, products, etc.
 - Inform the Sector Council of research and research-to-practice needs in their local jurisdictions
 - Stand-downs
 - ? Other....

extra

Logic Model Headings	Definition
Inputs	Planning inputs: stakeholder input surveillance and intervention data, and risk assessments Production inputs: intramural and extramural
	funding, staffing, management structure, and physical facilities
Activities	Efforts and work of the program, staff grantees, and contractors
Outputs	Direct products of NIOSH programs that are logically related to the achievement of desirable and intended outcomes
Intermediate outcomes	Actions by stakeholders in response to NIOSH products or efforts
End outcomes	Improvements in safety and health in the workplace that can be attributed to NIOSH efforts
External factors	Actions or forces beyond NIOSH's control with important bearing on moving research results into practice into the workplace
https://iournals.com.uh.com/doi/10.1177/10002140107C704C	

https://journals.sagepub.com/doi/10.1177/1098214018767046