



# Approaches to Research Translation: A Snapshot of NIOSH Research Proposals Submitted for the Bullard-Sherwood Award

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# The Bullard Hard Hat



# Research Translation

- **Front End Definition**

R2p is a way of conducting research to help ensure that it is relevant to our stakeholders and results in the reduction of workplaces injuries, illness, and fatalities.

- **Back End Definition**

Assist the synthesis, and application of knowledge by relevant stakeholders to accelerate the benefit of improving people's health and safety.

# Research Translation



Is the confluence of two fundamentally different processes; those of research and those of action.

# Bullard-Sherwood Award

## Award Categories

- Transfer of Knowledge
- Transfer of Technologies
- Transfer of Interventions

## Proposals Received

- 8
- 3
- 3

# Lavis Model



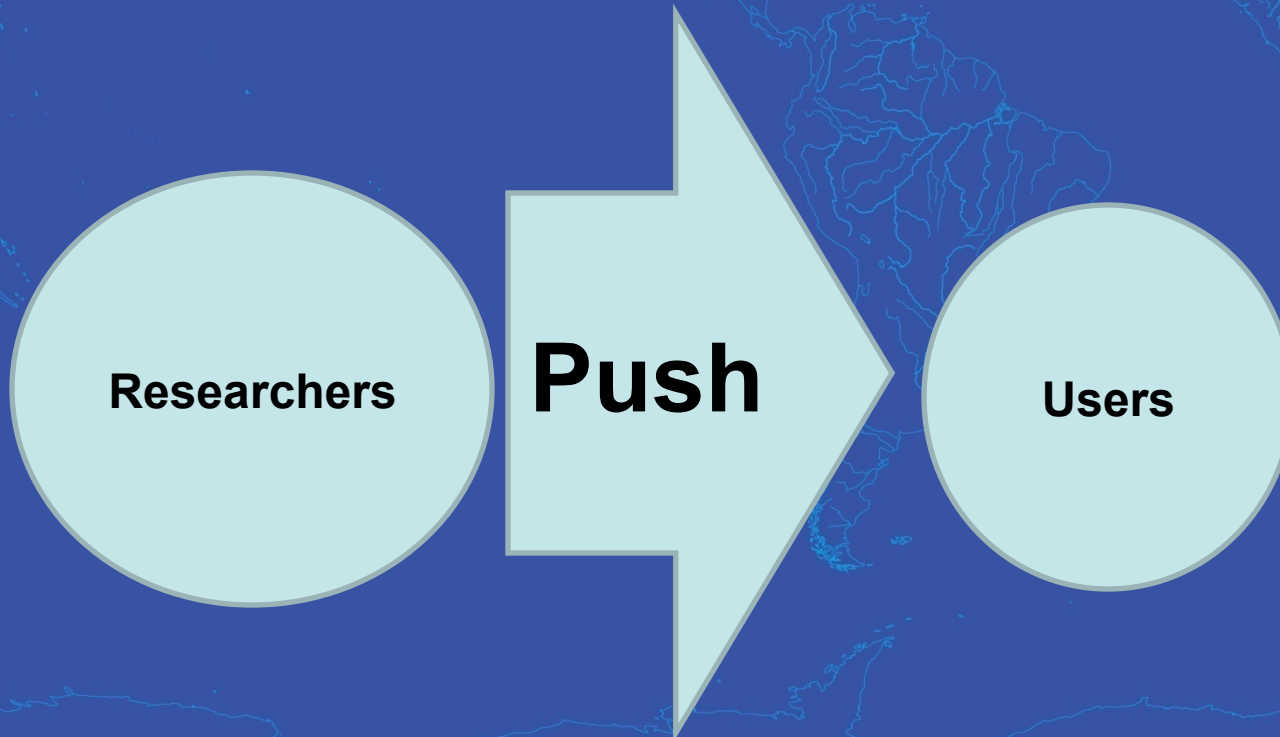
Models of Knowledge Translation characterized by the following:

- Push Efforts
- Pull Efforts
- Partnership Efforts
- Integrated Efforts\*

\* Characterized by the presence of a KT platform

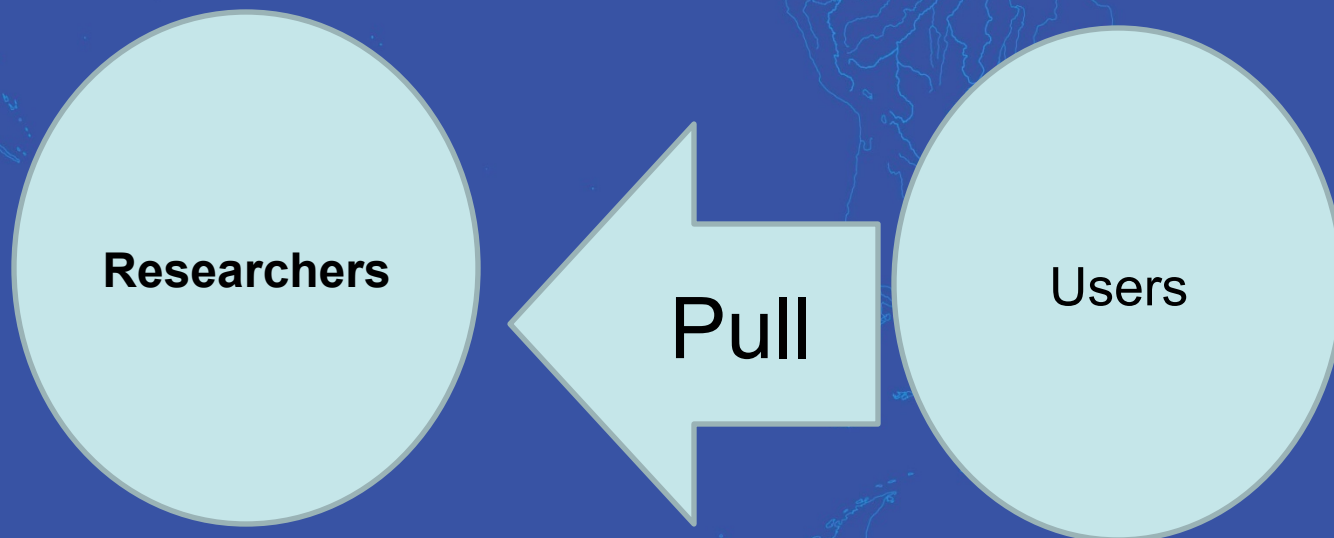
# Models 1: Developer Push

- *Techniques- journal articles, tool kits, policy briefs, brochures, videos that make research findings more accessible. The stakeholder is basically the receiver.*



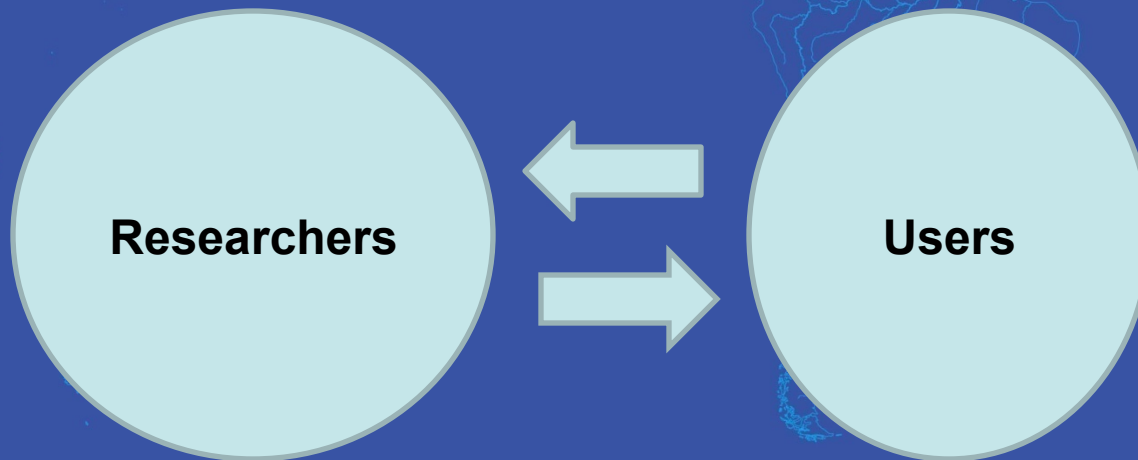
## Model 2. User Pull

- Technique-concentrates on research users, with information being the main driver of action. The user “reaches in” Good packaging and marketing are essential.



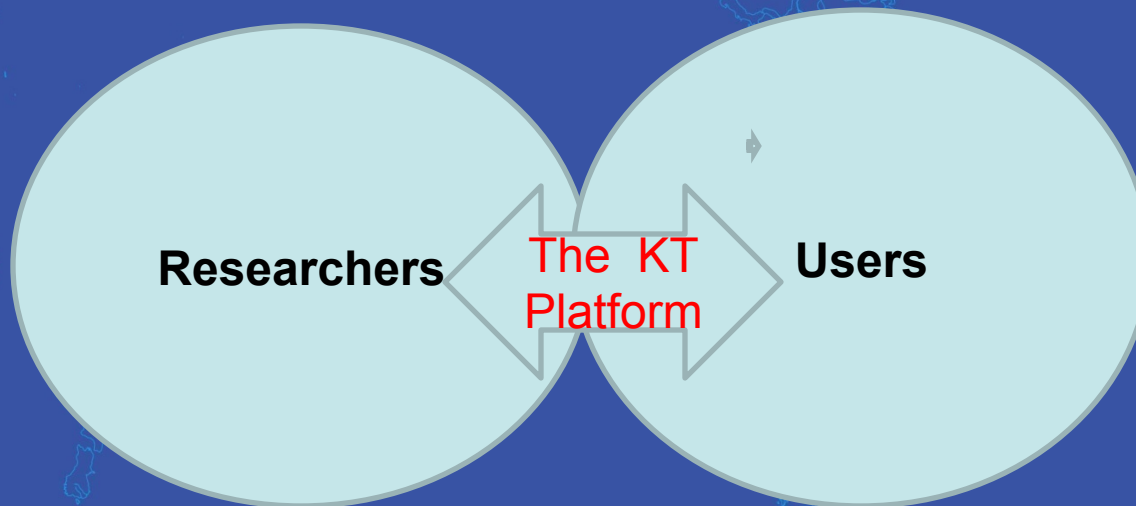
# Model 3. User Partnership

- Technique rests upon partnerships with both researchers and users collaborating for mutual benefit. A knowledge broker may play a key role. If you want to change behavior, you have to offer something – security, information, an image, a feeling of belonging, whatever it takes.



# Model 4. User Integrated

- Best represented by the emerging idea of the Knowledge Translation Platform (KTP), a knowledge management structure committed to fostering linkage, exchange and maintenance. Includes elements of push, pull and partnership



# Knowledge Transfer


Project Title	Sector and Cross Sector	Strategy Highlights	Program Characteristics			KT Platform
			Push	Pull	Partner	
Hearing loss prevention T. Morata	Construction Manufacturing Communication	Safe and Sound Award Partners	+	+	+	NHCA
Insecticide discharge (TRF) (G. Calvert)	Service Surveillance	State partners EPA, others MMWR	+	+	+	EPA
Antineoplastic drug listing (B. MacKenzie)	Healthcare Social Assistance	Alert update 50+partners website	+	+	+	NIOSH
Evaluating OSH program elements (S. Wurzelbacher)	WRT, MSD, Economics	OHIO (BWC) 250,000 workplaces	+	+	+	NIOSH-BWC



# Knowledge Transfer

Project Title	Sector Cross Sector	Strategy Highlights	Program Characteristics			KT Platform
			Push	Pull	Partner	
Approaches to Safe Nano (L. Hodson)	Nano	Partners on steroids Global Document	+	+	+	Many External Platforms, NNI, OECD, ISO, ICON
Controlling Silica Dust (J. Colinet)	Respiratory Disease Mining	MSHA, Industry Curriculum	+	+	+	MSHA
OSH Journal Articles (C. Caruso)	Healthcare S. Assistance, Wk Org.	Journal focus Editor insider No Cost	+	+	+	Knowledge broker
Improved Truck Cab Design (J. Guan)	TWU Traumatic Injury	Prof. partners Industry Database	+	+	+	SAE Research Group-Manuf. RAMSIS

# Technology Transfer

Project Title	Sector Cross Sector	Strategy Highlights	Program Characteristics			KT Platform
			Push	Pull	Partner	
 <b>LED Cap Lamp</b> (J. Sammarco)	Mining	Global Industry T. assistance	+	+	+	Industry- EnerSys
<b>Medium Freq. Communication System</b> (N. Damiano )	Mining	Industry T. Assistance	+	+	+	Industry, MSHA, NMA
<b>Software-pillar design- ARMPS</b> (C. Mark)	Mining	Academic, industry, Fed. State partners Training	+	+	+	MSHA

# Transfer of Interventions

Project Title	Sector Cross Sector	Strategy Highlights	Program Characteristics			KT Platform
			Push	Pull	Partner	
Safe EMS work environments (J. Green)	Services Public safety	Partners on steroids Standard Development	+	+	+	Nat. Truck Equipment Association- GSA, DHS- NIST-NIOSH
Crops Designs in tractor retrofit (E. McKensie Jr.)	AFF	T. Assistance Industry Diffusion	+	+	+	NYCAMH ROPS manufacturer
Business case for PtD (D. Heidel and E. Biddle)	PtD	Industry Value strategy manual Assessment tools, course development	+	+	+	NIOSH

# Variety of KT Platforms

- Knowledge Broker -writer/editor
- Professional Organization- NHCA, SAE, RAMSIS
- Extramural Program- NYCAMH
- Business Organizations- NMA
- Industry- ROPS, EnerSys, SAE Group
- Global Partners- OECD, ISO, ICON
- State Partners- Ohio/BWC
- NIOSH
- Other Federal Partners MSHA, EPA, FDA, NNI, NIST, GSA,DHS

# Characteristics of the KT Platform

- Knowledge management structure
- Multi-partner structure
- Clear pre-set goals
- Regular priority setting process
- Continuous efforts to work with and through the users groups and address impact issues
- Provides maintenance and continuity over time

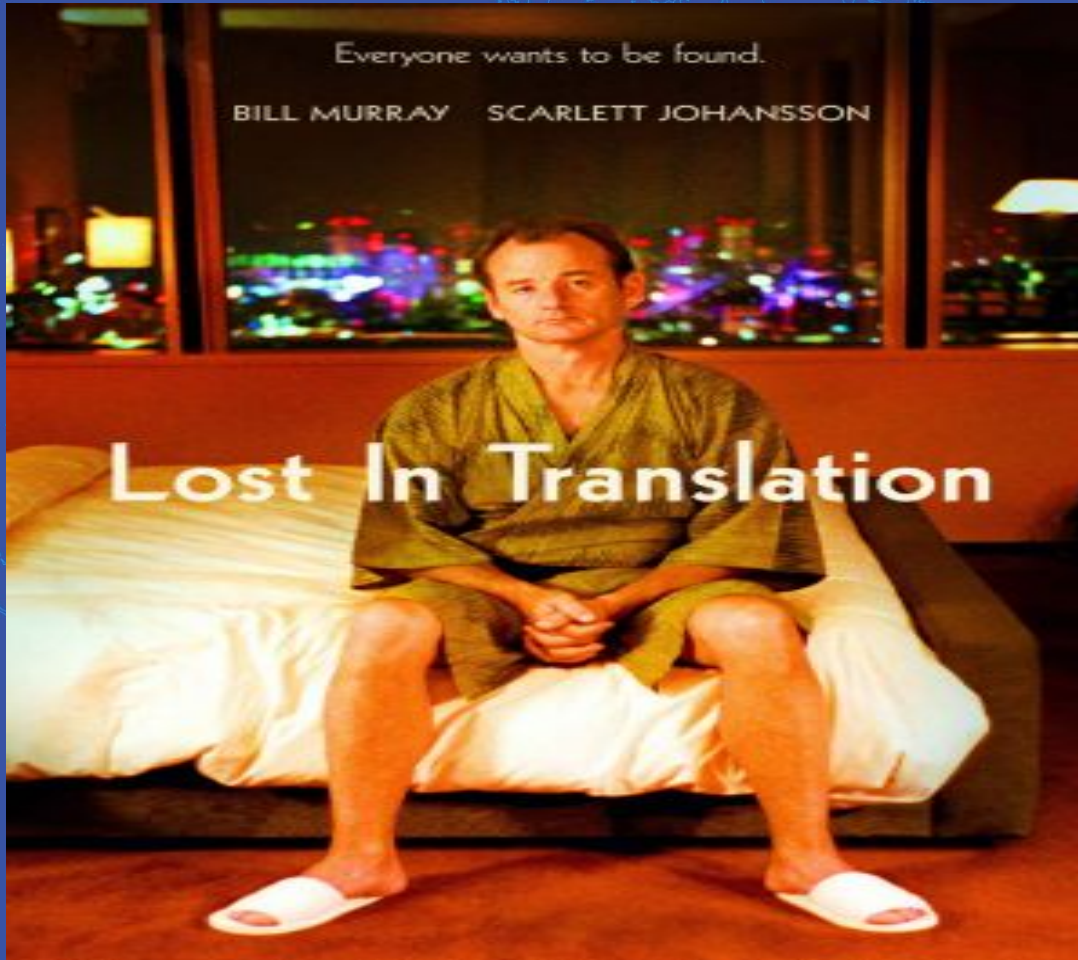
# NIOSH Sector Cross-Sector Role?

- Assist KT external platforms
- Assist KT internal platforms
- Assume the KT platform role

# Characteristics Sector Assistance

- Assist knowledge management
- Assists funders, researchers, intermediary groups and users to participate in on going efforts to provide a window onto the research for the potential user
- Supported by skill development programs that allow researchers and brokers to continue to develop their capacity for engagement
- **NOTE:** Many elements of the research translation process aren't really about research

Not US



Thank You...

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