Translational Research Approaches in Land-Grant **Institutions: A Case Study of the REDI Movement**

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Abstract

In this case study we explore the concept of translational research: specifically, how common tools were employed in the context of the translational research process to design and implement a formal intervention to address racism at the individual and structural level. This approach to translational research focuses on the implementation of evidence-based interventions to address issues in communities, schools, and other organizations and is ideally suited to support researchers and practitioners in the nation's land-grant institutions. We discuss the suitability of translational research as an approach to identifying and resolving issues and implications for training and day-to-day operations of translational research organizations. Finally, we point to the necessity of incorporating principles of equity and engagement in the translational research process.

Keywords: translational research, equity, program development



and provides language and space for assorectly related to racist practices. In addition, as one associate notes, the social isolation that went along with the COVID-19 quarantine promoted a feeling of "we're all in for the broader organizational community to understand their own personal experiof their colleagues.

his case study summarizes a discrimination, or antagonism directed formal intervention designed to toward people based on race (National address racism. The context in Education Association, 2021; Shiao & Woody, which racism occurs is an im- 2021). It is clear that racism is a complex portant factor in understanding construct composed of multiple social the story that follows. Violence perpetuated phenomena (Harro, 2000a, 2000b; Shiao against Black people (Curtis et al., 2021; & Woody, 2021). In a broad review of the Sharif et al., 2021), the Black Lives Matter sociological literature, Shiao and Woody Movement (McCoy, 2020), and controversies suggested that racism has historically been over how racial history is taught in schools conceptualized in terms of four constructs: (Leonardo & Grubb, 2018) capture elements (1) individual attitudes, (2) cultural schema, of the social and historical context of racism (3) the dominance of specific racial groups, in the United States. What might be defined and (4) systems that maintain racial domias a racial awakening is currently under way nance. In this case study, racism is viewed from two different vantage points: individciates of the organization that developed ual attitudes and actions (individual level) the intervention described in this article and norms, laws, practices, and policies that to explore historical and current issues di-tend to perpetuate racism (structural level).

Given the strong connection between racism and health and well-being (American Public Health Association, 2021; Villarosa, this together" that is creating the conditions 2022), efforts must be undertaken to conduct meaningful research and, ultimately, achieve outcomes that effectively reduce ences related to racism and the experiences racist practices. Algeria and O'Malley (2022) provided an illuminating discussion of the intricacies inherent in research aimed at Racism might be thought of as prejudice, establishing causal relationships between interventions.

Questions on how to effectively address issues related to racial justice have particular relevance to Cooperative Extension and the nation's land-grant institutions. Extension Service, like many other instituracism (Harris, 2008). Gavazzi (2020) summarized the historical mission of land-grant multiple jurisdictions. institutions as focused on teaching, conducting research, and providing services to **Development of the Racial Equity**, local communities. However, Gavazzi noted Diversity, and Inclusion (REDI) Movement that in the 21st century, land-grant institutions must fill the role of "servant universities" and put more emphasis on providing for the development and well-being of local communities (Gavazzi, 2020; Gavazzi & Gee, 2018).

There may be no other imperative more relevant to health and well-being than addressing racism in all its forms. This case study describes aspects of the translational research process and specific tools that may be useful to researchers and practitioners situated in land-grant institutions and, more specifically, to researchers and practitioners intent on addressing racism. This case study also provides a description of how research-based knowledge and tools are being used to address the critical issue of racism through the implementation of an intervention referred to as the Racial Equity, Diversity, and Inclusion (REDI) Movement. Here, an intervention is defined as an intended, planned, and targeted operation relevant to a setting or group of people with the aim of removing or preventing an undesirable phenomenon (Loss, 2008). The REDI Movement is currently being implemented in a translational research center located at a research-intensive university in the Midwestern United States (hereafter REDI is managed by a formal Steering Team. referred to as the Center).

Translational Research Defined

intervention and the reduction of inequal- as a process for moving scientific innovaity. According to Algeria and O'Malley, de-tions into routine use to promote health and signing and carrying out studies of causal well-being (McCartland-Rubio et al., 2010; mechanisms are problematic due to concep- Woolf, 2008). Abernethy and Wheeler (2011) tual issues, the role of the environment in defined translational research in terms of shaping outcomes, and confounding factors three distinct activities: (1) research and present in complex systems. Of course, the development, (2) translation or implemeninability to establish causal mechanisms can tation, and (3) policy development. Research also be seen as limiting the effectiveness of and development often yield new insights efforts to ameliorate racism through formal and/or evidence-based interventions. In addition, theory and research constitute a body of knowledge that can be drawn upon to develop interventions tailored to specific issues and situations. Translation or implementation refers to the procedures necessary to use evidence-based interventions Throughout its history, the Cooperative or practices to effectively address identified issues in specific settings (Wilson et al., tions, has operated in ways that perpetuated 2011). Policy development focuses on the widespread uptake of innovations across

In June 2020, the college in which the Center is located issued a call to action focused on racial equity and social justice that emphasized organization, self-reflection, and engagement in hopes of transforming the communities in which we live and work. REDI emerged from this call to action. The REDI vision states that individuals, organizations, and other societal institutions will make racial equity a day-to-day priority, resulting in settings that are inclusive, safe, and welcoming and where White privilege is acknowledged and has no negative influence on how individuals of color fare. The developers of REDI decided to start with a focus on Black people. This approach was based on the premise that effectively addressing equity for Black people would ultimately result in the enhanced experience of equity for other marginalized populations. It was also anticipated that the evolution of REDI as implemented to address the Black experience would better position the Center to address the unique concerns of other marginalized populations in future versions of REDI.

The Racial Equity, Diversity, and Inclusion **Steering Team**

The primary purpose of the Steering Team is to develop, implement, and evaluate responses consistent with the REDI vision. The Steering Team aspires to operate at the Translational research is generally defined invitation of and on behalf of the Center's Leadership Team consists of the director, REDI Movement. two associate directors, and the finance and human resources managers.

Procedures

organizational community (all 50+ associ- rational planning model (Alexander, 1984; ates and students, and affiliated faculty) Allmendinger, 2009) as a methodology and intentionally centers and amplifies the to support the process of translation. The voices of community members who have rational planning model includes several lived experiences of racism, minoritization, steps: (1) issue identification, (2) considerand/or marginalization. The REDI Steering ation of alternative solutions, (3) solution Team is an initiative of the Center's Senior selection, (4) solution implementation, and Leadership Team and currently consists (5) evaluation. Table 1 and the following of 18 Center associates (14 females, four paragraphs describe the process of transmales; three who are White, three who are lation as it is practiced at the Center and Black, one who is Asian, and one who is several foundational tools that support the of Pakistani descent). The Center's Senior development and implementation of the

As indicated in Table 1, movement through the steps in the process of translation (see top row in Table 1) is associated with the application of several distinct tools. Julian et al. (2021) proposed a "translation Description of the use of this array of tools forward" approach to translational research. provides a concrete illustration of what This approach places preeminent empha- Julian and Ross (2013) referred to as managsis on partnering with interested parties ing the issue resolution process. Julian and to identify and address a specific issue in a Ross defined managing the issue resolution specific location or setting. Julian and col- process as initiating appropriate procedures leagues further advocated for the use of the at the appropriate time, fostering relevant

Table 1. The Process of Translation and Selected Translational Research Tools

Tool	Steps in the process of translation					
	Issue identification	Consideration of alternative solutions	Solution selection	Implementation	Evaluation	
Facilitated group process	Х	x	х	х	х	
Project charter	x	x	Х	x		
Outcomes template	х	Х	Х	Х	Х	
Research-based knowledge		Х	х		Х	
Theory of change			х	x	х	
Logic model				Х	Х	
Intervention protocol				Х		
Work breakdown structure				х		
Work plan				X		
Process improvement planning					х	

Note. "X" denotes tool used to support specific step in translational research process.

to achieve desired outcomes. The process of measurable outcome: translation, as defined by the steps in the rational planning model, provides a scaffolding on which to optimize the use of a variety of tools to support translational research.

Step 1. Issue Identification

A variety of practical and scholarly resources define issue identification (Alexander, 1984; Allmendinger, 2009). Defining an issue implies a set of circumstances or conditions that have been judged unacceptable (Bradshaw, 1972). Issue identification requires clearly stating circumstances, timing, and specific behavior(s) that make observed conditions problematic. The REDI vision Outcomes connected to the REDI intervenstatement, noted previously, indicates conditions that represented Center associates' views concerning an issue that warranted attention. The issue statement guiding the development and implementation of the REDI Movement indicated associates' desire to promote antiracism in the Center's operations and business practices. Translational researchers at the Center utilized three primary tools to support issue identification: (1) facilitated group process, (2) outcomes template, and (3) project charter.

A facilitated group process was utilized to develop the REDI Movement vision statement and various descriptions of the issue to be addressed. A subset of Center associates who elected to participate in the REDI Movement formed a Steering Team and engaged in a facilitated process to develop and implement REDI. The Steering Team met once a week in the early stages of REDI development and somewhat less frequently The second step in the process of translation tions to address such transgressions.

The outcomes template was utilized to develop several measurable outcomes (see Chinnman et al., 2004 for a similar treatment of outcomes). The outcomes template The body of knowledge reflecting best prac-

role-related behaviors, and applying ap- poses several fundamental questions that propriate tools in the appropriate sequence provide a basis for developing a specific and

- 1. What intent will be achieved?
- 2. Who/what will change?
- 3. Where or in what location will desired change occur?
- 4. What indicator(s) will be used to judge if change has occurred?
- 5. What must be observed relative to identified indicators to conclude that desired change has occurred?
- 6. What is the time-period over which desired change will occur?

tion evolved over time and encompassed change at the individual, organizational, and structural levels. Finally, a tool referred to as the project charter was employed to capture the purpose of initiating the REDI Movement as a Center priority. The project charter authorized the existence of a project and provided the project manager (in this case, the REDI Steering Team) with authority to apply organizational resources to project activities (Project Management Institute, 2013). The project charter also included a statement of the issue to be addressed, outcomes to be achieved, and descriptive information related to the intervention(s). In the case of the REDI Movement, the project charter existed as an agreement between Center leadership and the Steering Team.

Step 2. Consideration of Alternative **Solutions**

later in the process. The facilitation task was focused on identifying various alternative undertaken by various translational research solutions or approaches to addressing indiprofessionals who were, themselves, Center vidual and structural racism. Translational associates. With important modifications, research professionals utilized four primary the facilitation process was consistent with tools to support this step: (1) facilitated recommended procedures designed to fa- group process, (2) project charter, (3) outcilitate the group process (see Center for comes template, and (4) research-based Community Health and Development, n.d.; knowledge. The use of the first three tools Schwarz, 2002). For example, facilitation has been described. However, it is essential was guided by "rules of engagement." Rules to note that the products associated with the of engagement emphasized the identifica- use of these tools evolved based on insights tion of microaggressions and facilitator ac- that developed during Step 2 activities. Generally, products developed early in the translational research process evolved and ultimately supported subsequent steps in the process.

perpetuate racism.

Human Rights, Access, Equity, and **Participation**

The principle of human rights acknowledges that a fair and just society validates, protects, and defends the basic rights that are inherent to all people and should be granted 2015). This principle also requires that a government be held accountable when these individual and structural level intervenresponsive to those needs (Storms, 2012). and structural levels. Finally, the principle of participation refers to the inclusion of all voices in decisionmaking and prioritizing the voices of those Social Ties with lived experience (Toporek & Williams, 2006). For participation to occur, those in positions of power must remove barriers, increase access, and create intentional spaces for the equitable inclusion of the voices and perspectives of marginalized groups.

The Social Ecology of Racism: Intrapersonal, Interpersonal, and Structural Levels

tices related to interventions to address 2020; Kelly et al., 2000) suggests several racism represented the primary tool used levels of influence relevant to addressing to support the consideration of alternative racism and issues related to equity, diversolutions. Understanding of the evidence sity, and inclusion. These levels of influence related to racial justice interventions sub- range from the microsystem to the mesosyssumed several distinct bodies of theory and tem to the exosystem to the macrosystem. research: (1) human rights, access, equity, The microsystem is composed of elements and participation; (2) the social ecology of that encapsulate the individual. The mesoracism; (3) exposure and development of system is reflected in interactions between connections or social ties between White elements of the microsystem, whereas the and Black individuals; (4) allyship and skill exosystem is composed of elements that building related to intervening in situa- indirectly influence the individual, such tions where racism occurs; (5) enhanced as mass media and the political environindividual readiness to address racism; (6) ment. Finally, the macrosystem focuses on enhanced community/group readiness to interactions between the individual and the address racism; and (7) procedures designed immediate environment and encompasses to correct norms, practices, and policies that social and cultural elements. Harro (2000a, 2000b) captured the notion of levels of influence in what is referred to as the "cycle of socialization" and suggested that we are all unwittingly socialized to operate in a racist culture.

Harro (2000a, 2000b) further contended that our racist actions are perpetuated through a highly complex and largely invisible set of without discrimination (UNICEF Finland, forces and rewards that work to maintain the status quo. According to Harro, these forces and reward systems operate within rights are violated; it has relevance for both and between individuals and are reinforced by the policies and practices of institutions tions. The principle of access refers to the and society in general. Harro defined the provision of critical services and resources intrapersonal level as what people believe (i.e., food, shelter, health care, education) about themselves and the interpersonal in to all people regardless of socioeconomic terms of how we view others and see the status, race, gender, sexuality, or other world. Harro defined the institutional or social identities (Fouad et al., 2006; Storms, structural level in terms of structures, as-2012). The principle of access requires that sumptions, philosophies, and, most importhe cycle of marginalization be disrupted by tantly, the rules, norms, procedures, and intentionally providing equitable access to roles that dictate behavior. The forces identhe resources that directly influence one's tified by Harro are embedded in the social quality of life (Cook, 1990). The principle of ecology of modern western cultures. Thus, equity acknowledges the reality of diversity an intervention designed to address racism such that different people have different and racial justice must focus on altering the needs and thus require resources that are social ecology as it pertains to the individual

Exposure and Development of Connections or

The "contact hypothesis" (Emerson et al., 2002) represents a critical theoretical perspective that may have significant bearing on the provision of interventions associated with the REDI Movement. The contact hypothesis states that face-to-face interaction and the formation of connections or social ties lead to positive intergroup attitudes (Laurence, 2014). A meta-analysis by Pettigrew and Tropp (2006) found that in-The social-ecological model (Guy-Evans, teraction tended to have a positive effect on

intergroup attitudes. According to Laurence, In the precontemplation stage, people have the contact hypothesis stipulates that in- no intention of taking action in the near terethnic ties are the behavioral mecha- term. In this stage, people are often unnism that accounts for positive impacts on aware that their behavior is problematic or attitudes. Furthermore, the link between produces negative consequences for themattitudes and behavior is well established selves or others. In the contemplation stage, (Glasman & Albarracín, 2006). This line of people intend to start new behavior(s) and reasoning suggests that through exposure, recognize that their behavior may be probindividuals become more aware of the Black lematic. In the preparation stage, people experience and their own implicit bias. This are prepared to take small steps toward beawareness and development of connections havior change. In the action stage, people or social ties sets the stage for learning and have changed their behavior and intend to predisposes individuals to effectively inter- maintain the change. In the maintenance vene in instances where racist behaviors are stage, people have sustained their behavior observed.

Allyship and Skill Building

Allyship can be described as a process that focuses on acknowledging the limitations of one's knowledge about other people's experiences and is built on the notion of The stages of community readiness model and are prepared to confront systemic oppression. Allies take on the responsibility to address oppression as their own and transfer the benefits of their privilege to those from whom it has been withheld (Campt, 2018). Allyship is thus conceived as a set of skills related to confronting inequality, inequity, and oppression; shifting power and influence to those with lived experience; functioning in a manner supportive of marginalized groups; completing the individual work necessary to be aware of and mitigate implicit bias; and taking responsibility for addressing racism in all its forms.

Enhanced Individual Readiness to Address Racism

The transtheoretical model (Prochaska & Velicer, 1997) focuses on decision-making and change at the individual level and has historically been used as a model to understand health-related behavior. However, the basic premise on which this theory is based may have application to individual level change relative to a much more comprehensive range of issues (Xiao et al., 2004). The transtheoretical model operates based on the notion that people do not change behaviors quickly or decisively. According to this model, change in behavior occurs due to movement through six stages: (1) precontemplation, (2) contemplation, (3) preparation, (4) action, (5) maintenance, and (6) termination. Movement through these steps might be conceptualized as enhancing "readiness" for change.

change for a significant period, and in the termination stage, people have no desire to return to their past behaviors.

Community or Group Level Readiness to Address Racism

deliberate action. Allies build relationships (Oetting et al., 1995) provides a framework with members of marginalized communities for considering community or group level readiness. Originally developed to address a variety of public health issues, the community readiness model is widely cited as a mechanism for understanding how communities or groups progress through formal stages to address various health and wellbeing issues. Similar to the transtheoretical model, stages of community readiness can be interpreted in terms of movement on the part of community members from low levels of awareness and intention to act to higher levels. According to the community readiness model, communities progress through nine stages of readiness.

> These stages include (1) no awareness of a particular issue; (2) denial or resistance to the idea of the status quo as an issue; (3) vague awareness of the issue as problematic; (4) preplanning or the sense that the issue is problematic; (5) preparation or a growing group awareness of the issue; (6) agreement that the issue is problematic and acknowledgment that the group is responsible for taking action; (7) stabilization characterized by active group engagement and ongoing investment of resources; (8) widespread agreement about the importance of the issue; and, finally, (9) ownership where group members have detailed and comprehensive knowledge, evaluation is under way, and diversified investment of resources has occurred.

Identification and Action to Address Community or Group Level Racism

Theory and research also point to several general principles or guidelines germane to developing and implementing group level interventions aimed at reducing structural racism. Several reviewers have started with a focus on education and awareness (Shim, 2020). According to this body of knowledge, awareness appears to be a fundamental preecology of racism) and disrupt leverage of the REDI Movement. points through the application of "focused, external force."

Policy development and implementation are identified as powerful tools for acting on leverage points (Shim, 2020). A policy can be thought of as a law, regulation, procedure, administrative action, incentive, or voluntary action that advances goal-related behavior (Centers for Disease Control and Prevention, 2022). For example, policies that result in a more equal distribution of power may significantly reduce group level racism cursor to action. Assuming group or com- (Shim, 2020). Finally, accountability to munity readiness, Bailey et al. (2017) sug- outcomes also appears to be a fundamental gested that insights derived from a systems principle associated with efforts to address perspective might be helpful in address- group level racism (Shim, 2020). Table 2 ing structural level racism. These authors provides an overview of the research-based pointed out that system level interventions guidelines that provide a foundation for the must cross multiple subsystems (see social continued development and implementation

Step 3. Solution Selection

Building on ideas proposed by Meadows Selecting a solution was the third step in (1999), Abson et al. (2017) defined leverage the process of translation. Solution selecpoints as places in complex systems where tion signified that a formal response to an a slight shift might lead to fundamental identified issue was selected and ultimately changes in the system as a whole. Abson implemented. As indicated in Table 1, sevet al. suggested that efforts to promote eral tools were employed to support the change too often focus on weak leverage selection of solutions to address racism at points that have little potential to address the Center: (1) facilitated group process, the root causes of critical societal issues. (2) project charter, (3) outcomes template,

Table 2. Research-Based Principles on Which the REDI Movement Is Based

Guidelines consistent with research-based knowledge Effective intervention to address racial justice should be based on underlying principles of human rights, access, equity, and participation. Effective intervention should address multiple ecological levels (individual and structural). Effective intervention should focus on individual level change, not as a precursor to structural level change, but as a potential accelerant. Effective intervention should enhance awareness of the personal experience of racism. Effective intervention should seek to increase contact and social ties between relevant groups. Effective intervention should promote self-awareness relative to the propagation of racism. Effective intervention should elucidate factual information and educate relevant individuals. Effective intervention should build allyship skills and normalize confrontation. Effective intervention should be promoted by outside force(s). Effective intervention hinges on the development and implementation of policies that act as system levers.

of change. Serrat (2017) suggested that a that presents a strategic picture of multiple interventions aimed at producing early and intermediate outcomes that ultimately lead to desired long-term change.

Step 4. Implementation

Implementation was the fourth step in the process of translation. Implementation focused on promoting the routine use of and/ or initiating the specific steps to employ evidence-based tools supporting REDI (Bauer et al., 2015). As indicated in Table 1, several tools were employed to support the implementation of REDI: (1) facilitated group process, (2) project charter, (3) outcomes template, (4) theory of change, (5) logic models, (6) intervention protocol, (7) work breakdown structure, and (8) work plans. As in previous steps, the project charter, outcomes, and theory of change evolved as insights accrued. Logic models, work breakdown structure, intervention protocols, and work plans were the primary tools that supported the implementation of the REDI Movement.

The logic model provided a systematic and visual way to present and share the understanding of relationships among resources (human, financial, organizational, and community) and how those resources were used to achieve desired outcomes (W.K. Kellogg Foundation, 1998). Separate logic models were developed for most of the components of the REDI Movement indicated in Table 2. Such models specified linkages between actions and desired outcomes. The primary value in such models was the degree to which assumptions about linkages were reviewed and tested based on available Process improvement planning was based

(4) research-based knowledge, and (5) According to the Project Management development of a theory of change. As in Institute (2013), a work breakdown structure previous steps, the project charter, articula- is a hierarchical decomposition of a scope of tion of outcomes, and understanding of the work carried out by team members necesresearch-based knowledge evolved as the sary to accomplish project objectives. Work project proceeded. A theory of change rep- breakdown structure often corresponds to resented a primary tool utilized in Step 3. Of the parts of an intervention as defined by a course, the facilitated group process served logic model. Center associates use a variaas a vehicle for developing REDI's theory tion of the Project Management Institute approach where the REDI scope of work theory of change is a highly elaborate model is broken down into projects (components of REDI indicated in Table 2); projects are broken down into products (specific and tangible elements such as meetings, documents, events, results, services, etc.), and products are broken down into work tasks (the steps necessary to produce a product). Work tasks are summarized in a work plan. A work plan is commonly described as a schedule of work tasks and responsibilities (Leonard, 2018). The Center's work plan format specifies a set of work tasks, associates responsible for each task, and the projected date when each task will be completed.

Step 5. Useful Evaluation

Evaluation was the final step in the process of translation. Evaluation was described as systematic inquiry focused on the activities, characteristics, and results of programs, policies, or other forms of intervention to make judgments, improve effectiveness, and inform decisions (Patton, 2008). As indicated in Table 1, several tools were employed to support the evaluation of the REDI Movement: (1) facilitated group process, (2) outcomes template, (3) researchbased knowledge, (4) theory of change, (5) logic models for each component of the REDI Movement, and (6) process improvement planning. As in previous steps, outcomes, the research-based knowledge supporting the development of REDI, the theory of change, and logic models depicting the components of REDI evolved as the implementation of project activities moved forward. Process improvement planning represented a primary tool that supported the evaluation of the REDI movement.

knowledge and experience. The articulation in a quality assurance/total quality manageof the assumptions contained in the project ment philosophy. Quality assurance activilogic model and the description of how the ties focused on the continual improvement REDI intervention was to be provided in of products or services based on customer narrative form was referred to as an "inter- or user satisfaction and relied on the undervention protocol." As indicated previously, standing of systems of production, strategic individual logic models were combined to planning, process improvement, and data as produce a comprehensive theory of change. a driving force in decision-making (Ahire

et al., 1995). Members of the REDI Steering Team reviewed evaluation data and reflected on their own experiences on a regular basis. Components of the REDI Movement To date, most data have been derived from qualitative assessments of experiences and short questionnaires completed by participants in the REDI Movement.

For example, on two occasions, brief nonscientific surveys indicated that respondents felt the time they invested in REDI activities was manageable; participation in REDI was "very," "somewhat," or "extremely" impactful; and feedback received from their colleagues was positive. In addition, respondents said participation in REDI increased their awareness, reduced stereotypical thinking, and increased their commitment to racial justice. Such information was used on an ongoing basis to assess and modify last 12 months, Steering Team members began planning a more formal evaluation of launch in 2023.

Results

As indicated in Table 3, Steering Team members selected several specific components to address individual and structural racism. In July 2020, the Center began offering monthly professional development sessions designed to increase individual associates' awareness of how racial injustice manifests itself and to create opportunities for associates to increase their readiness for change. Optional book-study sessions focused on recent titles related to racism were patterned after a book club and offered to White associates. Short "centering Blackness" experiences were intended to build associates' awareness and reduce stereotypical thinking. White affinity groups provided safe, constructive, and productive component parts of REDI. Finally, over the spaces to engage in difficult conversations and supported ongoing dialogue to enhance awareness of the Black experience. White the REDI Movement, which was slated for affinity group members also engaged in a seven-session series designed to support

Table 3. Components of the REDI Movement

Component	Level of intervention	Description
Professional development sessions*	Individual and/or structural	Formal information programs provided via face-to- face interaction
Book study	Individual and/or structural	Book club style review of recent titles focused on relevant topics
Centering Blackness experiences*	Individual	Video clips and explanation illustrating the Black experience of racism conducted by Black associates for White associates
White affinity groups*	Individual	Meetings where White associates could build knowledge, skills, and confidence in their role as allies
Black affinity groups	Individual	Meetings where Black associates could seek support and/or restore themselves
Critical allies groups	Individual	Cross-racial groups where experiences could be shared and discussed
Getting REDI curriculum	Individual	Curriculum composed of readings, self- assessment, and procedures for developing an individualized learning plan
Team equity inventory & organizational planning	Structural	Formal process for developing and implementing policies to address structural racism

^{*}Core REDI component. Participating in REDI requires some level of participation in these three core REDI components. Other components are viewed as enhancements to core components. Change at the structural level requires the implementation of the team equity inventory and organizational planning process.

skills to address racism in all its forms.

Black affinity group meetings serve as a space for Black associates to restore themselves, support each other, and build consensus relevant to their roles as leaders and participants in the REDI Movement. Critical allies groups provided cross-racial opportunities to dialogue with colleagues about how associates might mitigate the role of race in organizational practices and policies. These groups also identified strategies for how Center associates might impact systems by leveraging their privilege. Steering Team members also designed a curriculum called tion focused on the implementation of ev-Getting REDI that includes self-assessments idence-based practices in a specific setting and informational modules that engage or settings; and policy development focused REDI Movement participants in ongoing on uptake of evidence-based practices and and sustained personal and professional interventions across multiple jurisdictions. development. Finally, the team equity inventory and the associated organizational a translation forward, translational research planning process are designed to support process that may have significant potential the Center's program areas in prioritizing as a model for addressing complex issues in and implementing practices and policies to communities across the United States. This address structural racism.

This case study describes programming aimed at addressing racial/social justice that resulted from the application of a translation-forward approach to translational research. It is important to note that recent criticism suggests that many initiatives that claim to address equity and engagement may be less effective than thought (Zheng, 2022). In a recent review, Ding and Riccucci (2022) indicated that empirical evidence suggests mixed results and pointed out that, if not managed effectively, such interventions can be counterproductive. The REDI Movement is based on a comprehensive review of relevant literatures and decades of research related to effective intervention. More specifically, use of the translational research process, as a means of development and implementation, ensures that as new evidence accumulates it will be incorporated in futures versions of REDI.

Discussion

The mission of Cooperative Extension lo- research model proposed by Abernethy and cated in land-grant universities focuses on Wheeler (2011) implies that translational disseminating knowledge and promoting research professionals must be competent the identification and resolution of critical researchers, implementation specialists, and community issues (Gavazzi, 2020; Gavazzi policy professionals. Recognized bodies of & Gee, 2018). The discussion summarized in knowledge and skills are associated with this case study has several important impli- each of these activities. It is unlikely that

associates' efforts to operationalize allyship the translational research framework is a and increase associates' sense of compe- viable model to support the mission of landtence and confidence in applying allyship grant institutions. Second, this discussion suggests specific roles for practitioners and researchers in these institutions. Finally, we suggest that principles of equity and engagement are integral to the translational research process. The following paragraphs briefly explore each of these implications.

Translational Research as a Viable Issue **Resolution Process**

The Abernethy and Wheeler (2011) conception of translational research has three distinct components: research and development focused on knowledge generation; transla-Julian et al. (2021) presented a conception of potential is illustrated by our review of the process of translation used to develop and manage the implementation of the REDI Movement in a university-based translational research center. We have described a five-step process: (1) issue identification, (2) consideration of alternative solutions, (3) solution selection, (4) implementation, and (5) evaluation. We have also described how an array of commonly used planning and evaluation tools have relevance to the translational research process. We suggest that translational research is a viable approach to identifying and addressing significant issues in communities, schools, and other organizations.

The Role of University-Based Personnel

We also argue that the translational research process provides a viable mechanism for addressing society's most pressing issues. This possibility has significant implications for the nation's land-grant institutions and university-based personnel engaged in translational research. The translational cations. First, this discussion suggests that any one individual will be proficient in all these areas. Thus, translational research Next Steps professionals are more likely to be successful to the extent that they are specialists in one of these processes and part of teams composed of multiple members with complementary specializations. This need for collaboration suggests that units such as Cooperative Extension must employ individuals with various skills consistent with the brand of translational research described here. This argument also has significant relevance for training programs. Potential translational research professionals must have access to relevant training to develop the specialized skills noted above (i.e., use of the tools indicated in Table 1).

Equity and Engagement as a Foundation of Translational Research

We suggest that principles of equity and engagement must undergird all aspects of the translational research process. Principles of equity require a focus on outcomes and processes to ensure that diverse perspectives are represented in the issue resolution process. Procedures must also ensure that outcomes related to health, well-being, educational achievement, and economic prosperity are experienced equally by all population subgroups. This argument recognizes that current arrangements are inadequate to fully address health disparities and other can be directed to developing viable recommunity issues. In addition, practitioners must consider the processes employed to be structured to accommodate diverse opin- policy development to implementing interindividuals who have experienced the very also clear that such procedures hold signifiissues that society is trying to address. Thus, cant promise for improving quality of life pects of the translational research process. social justice are underlying principles in-

It is accurate to portray REDI as in its early stages of development. Ongoing implementation in the Center is proceeding. In addition, nine other organizations are implementing major portions of REDI in a current project. Significant evaluation is under way both relative to the Center experience and in the nine organizations currently implementing REDI. Developers are already at work on modifications to the REDI Movement based on qualitative feedback. As empirical evaluation data are available, additional modifications may be considered. Developers envision a formal program of implementation and research relative to the effectiveness and efficacy of the REDI Movement. As research findings accumulate, efforts will be made to employ REDI in other settings.

This discussion supports the potential of university-based personnel located in the nation's land-grant and other institutions to address critical community issues. Management of the processes that result in the identification of issues and development of effective interventions is a long-standing role of university-based personnel. The three-component model of translational research (Abernethy & Wheeler, 2011) provides an approach to fulfilling this role. Research sponses to critical issues, translation to providing a mechanism for implementing address societal issues. Such processes must such responses in specific settings, and ions and must shift power and authority to ventions across multiple jurisdictions. It is equity considerations must permeate all as- and well-being to the extent that equity and fused throughout the translational research process.



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