Abstract

When more than one person is needed for task completion, the actors (aka stakeholders) must work together in successful ways (aka collaboration). The SPARC framework considers how stakeholder groups conceptualize and actualize collaboration structures and processes in multi-partner STEM and healthcare research and education workforce development (SHREWD) programs. Typically, Sponsor requirements for partner collaboration and program management drive what Partners consider when planning programs, and thus what Advisors or evaluators assess. The collected data form the basis of Researchers' contributions to the academic literature and the value proposition made to the larger Community. Evaluators can facilitate SHREWD program outcomes by spotlighting the conceptualization of collaborative structures and processes across stakeholder groups, providing collaboration data for use as both formative feedback and summative evidence about collaboration's role in improved outcomes. We believe that "fanning the SPARCs" by spotlighting collaboration will allow stakeholders to deliver more effective SHREWD programs.

Annual Meeting - Más Fuertes Juntos

"P" C Value of Col "P" Actualizes Value of C SOURCE: The PI and project partners are guided by sponsor requirements and influenced by both IMPLEMENTATION Adoption of explicit collaboration practices to facilitate project management and partne equity that evolve over time in response to feedback. ent and partne research and evaluator concurrence about the value of collaborative practice. PLAN: Value of collaborative practice is EVIDENCE: Evidence of evolving collaborative practice, articulated through inclusion in proposa specific activities targeted to ensure or increase collaborative practice, and specific attributions of documents, project models, annual reports, and

conceptual interviews. collaborative practice as important to program success le Gro 100% 100% 27% 15.67 100% 80% 18% 7.83 15.75 100% 1005 12% 100% 100% 12% 12 40 13.50 100% 100% 67% 50% 1.00 20.00 100% 100% 7.67 71% 75% 67% 5.50 3.50 90% 100% 3.00

Due to Covid-19, the planned in-person annual meeting of all TxARM stakeholders was held virtually on June 3, 2020. In order to understand engagement during the 4-hour virtual meeting, attendance and online chats were used as participation measures. Chats were mostly used to offer general thanks and encouragement to other attendees (48%). The 9 cohort members who prepared brief videos about themselves and their professional/personal interests received an average of 22 chats (range 15 to 38) from other attendees during or after their presentations. Some of these messages included offers to connect cohort members with career resources. All attendees received a conference package that was opened as a group at the start of the meeting -- 25 attendees offered messages of thanks for these. About 8% of chats dealt with technology issues

A Tale of Two NSF Solicitations

"S" Actualizes Value of C

IMPLEMENT: Sponsor representatives prepare

specific funding requests in alignment with policy,

=absent (*barely)

TAMUCC



The sponsors of a project

influence its structure

and function from

international community context guide the extent plans, and funding allocations, thereby actualizing to which sponsors value collaborative practice. collaboration requirements for project partners. PLAN: Valuing of collaborative practice can shape EVIDENCE: Proposal review, award negotiations sponsor policy statements, strategic plans, and and reporting requirements for grantees further unding allocations. shape the design and implementation of collaboration practices in funded projects omparing NSF Solicitations on Collaboration nd Partnership Requirements and Guidance

izes Value of Collaboration

conception to completion. If funders	Yes	No	
require or encourage partnership projects, to	No	Yes (Med/Lge projects)	Note: As part of an AGEP alliance, authors note substantial post-
what extent do they require detailed plans for	× +	×	review negotiation with sponsor program
equitable collaboration across partners?	Ø	M	officer to the partnership design, including decisions
Two NSF solicitations from the FHR division	Ø	M	about collaboration arrangements and guidance for
illustrate differential attention to partnership	×		evaluating collaboration which substantially changed
and collaboration requirements and	×	∀ +	the structure and function of the alliance
guidance in funding requests.	Ø		utturce.

TAWI

Fanning the SPARCs of SHREWD programs: Facilitating program outcomes by spotlighting how stakeholder groups conceptualize and actualize collaboration In multi-partner STEM and healthcare research and education workforce development (SHREWD) programs M ORAU TxARM

> zes Value of Collaboratio SOURCE: Evaluators are guided by understanding sponsor requirements and credible research about colla practice in partnerships, including principles of social network Α Assessmer

PLAN: Evaluators and project partners co-create the logic model, which guides evaluation 1) questions and design, 2) data acquisition and analysis, 3) reporting and dissemination of findings. This includes expected collaboration practices.

"A" Cond

analysis.

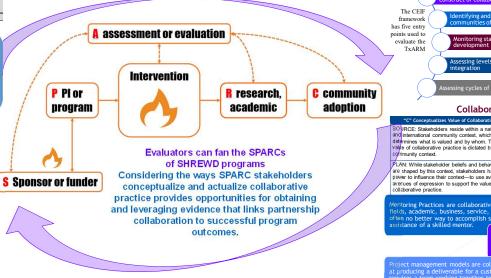
Ρ

'A" Actualizes Value of Collat IPLEMENTATION: Adoption of eviden instruments and protocols that provide actionable evidence for characterizing, measuring, and systematically improving partnership collaboration practices and their relationship to project outcomes. EVIDENCE: Highlight the value of collaborative practice in Evaluation evaluation findings and recommend and facilitate actions to improve collaboration practices among stakeholders.

Percentage of Leadership Team Members Who Selected Each Scale Point on the Levels of Integration Rubric



selected the rubric value (letter A, B, C, D, or E, with A reflecting lowest levels of collaboration and E reflecting highest levels of collaboration in that category) that best reflected the functioning of the Alliance at the end of the academic year The LOIR provided a resource for the Alliance members to make informed decisions about the TxARM.



Collaboration: A mechanism which provides benefits for leveraging resources, dealing with scarcities, eliminating duplication, capitalizing on individual strengths, and building internal capacities (Taylor-Powell, Rossing, & Geran, 1998)

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Dissemination Plan

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http://tamus-agep.tamu.edu/TxARM

"R" Conceptualizes Value of Colla SOURCE: What is researched is not objective. The research base is a product of prevailing scientific paradigms and the existing national and international intellectual climate regarding the value collaborative practices.

"R" Actualizes Value of Collaboration IMPLEMENTATION: Adoption of evidence-based strategies to assess and improve partnership collaboration practices like the Collaboration Evaluation Improvement Framework by Woodland and Hutton (2012). EVIDENCE: Dissemination of specific evidence that expands the research base with new knowledge in the form of conference presentations, journal articles, and other scholarly

PLAN: Stakeholders engage in reciprocal relationships with the research base on collaborative practice, both relying on it to inform their practice and shaping it with the results of that practice—the academic enterprise.

Collaboration Theory

R

Research

Academic

Collaboration development has predictable stages The Collaboration Evaluation and Improvement Framework (CEIF) was applied to the development of collaborative practice in the TxARM alliance to guide evaluation of the development of collaboration over the five-year multi-institutional project. (Woodland & Hutton, 2012).

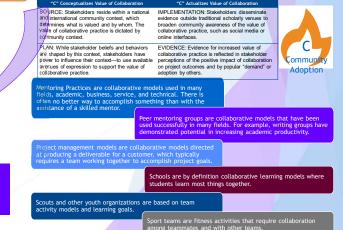


ect teams worked together to chart a dissemination plan. To communicate findings about the implementation and value of collaboration practices, three confirmed conference presentations, one presentation under review, and a planned journal article are underway. Our venues include the national AGEP grantee community, the regional education research community, and the national STEM evaluation community. An education research journal is targeted for the manuscript in preparation.

AEA 2020 Poster

SERA 202

Collaboration is Essential



TAMUK

