MSP Knowledge Management and Dissemination Project

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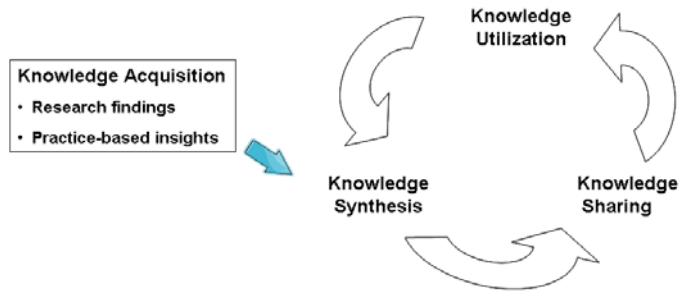
Overview

Math and Science Partnership (MSP) Knowledge Management and Dissemination (KMD) was funded as an MSP Research, Evaluation, and Technical Assistance (RETA) project to support knowledge management within the MSP program and to disseminate information to the broader mathematics and science education community. A partnership of Horizon Research, Inc., Education Development Center, and WestEd, the overall goal of the KMD project is to synthesize findings in the K–12 arena in a small number of important areas, articulating the contribution of the MSP program to the knowledge base and identifying "gaps" and promising practices/strategies for further investigation. In this way, MSPs and the field at large can benefit from MSPs' research and development efforts.

The KMD project collects, evaluates, codifies and disseminates MSP-relevant knowledge to current and future MSP awardees and others. A knowledge acquisition component includes both empirical research findings and practice-based insights. KMD locates existing research relevant to MSP projects; analyzes empirical research studies (quantitative and/or qualitative) to identify methodologically-sound findings; and describes the apparent generalizability of these findings. Practice-based insights are collected via interviews and online panels. The results are shared in forms that are accessible to current and future MSP awardees. The results of this work are useful to MSP projects and the broader field.

Knowledge Management Framework



Adapted from Nevis, E.C., DiBella, A.J., & Gould, J.M. (1995). Understanding organizations as learning systems. *Sloan Management Review, 36*(2), 73–86.

Successes

- Generating knowledge through the use of both online practitioner panels and a system for conducting reviews of empirical research intended to ensure a transparent process with integrity and protections against bias in all phases
- Articulating the various perspectives on deepening teacher content knowledge (see KMD website for a Knowledge Review on the Perspectives on Deepening Teacher Content Knowledge)
- Documenting use of credible, replicable, and useful processes for knowledge generation in mathematics and science education (e.g., practitioner panels, standards of evidence reviews)
- Disseminating products with evidence of quality: Knowledge Reviews and Teacher Content Knowledge Instrument Database

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