

MEL Framework for Technology-Supported Remote Trainings

CIES 2022

Rachel Jordan
Sarah Pouezevara
Carmen Strigel
Aarshi Kibria

MEL Framework

Set of questions and indicators for measuring and evaluating...

for Technology Supported

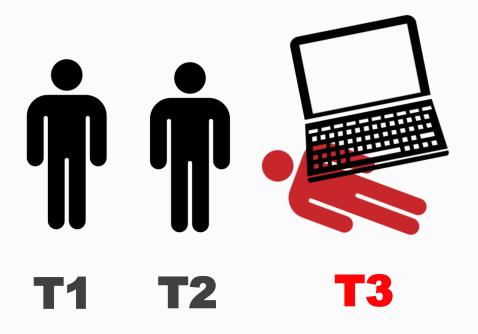
[Events] conducted
entirely using
technology
(ie Virtual group meetings)

or were enhanced by technology (ie online learning modules used by groups of teachers)...

Remote Trainings

Broadly defined as any professional development activity that was conducted with some or all facilitators/ participants in a different location

Problem Statement

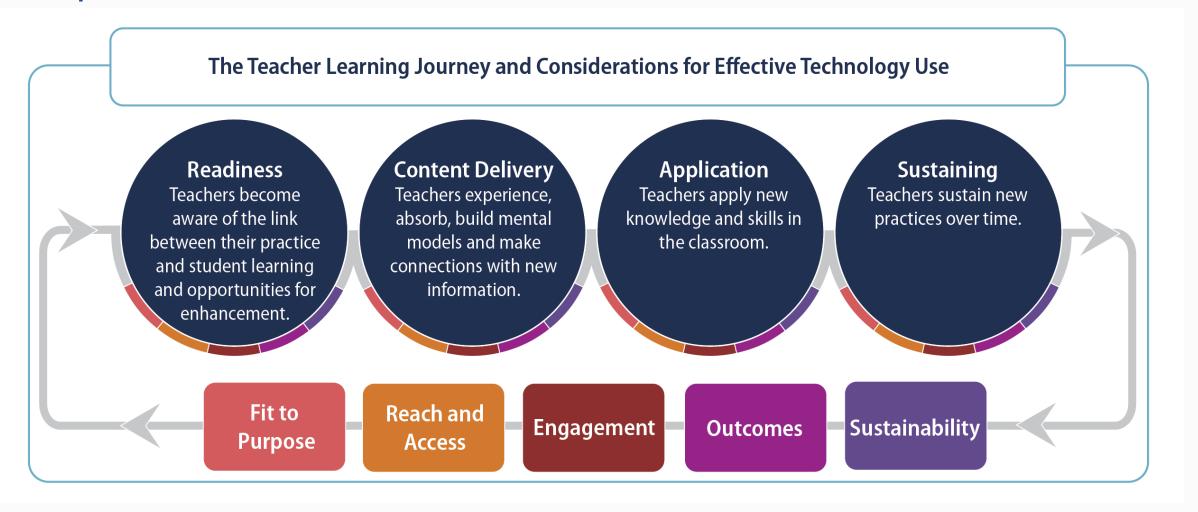


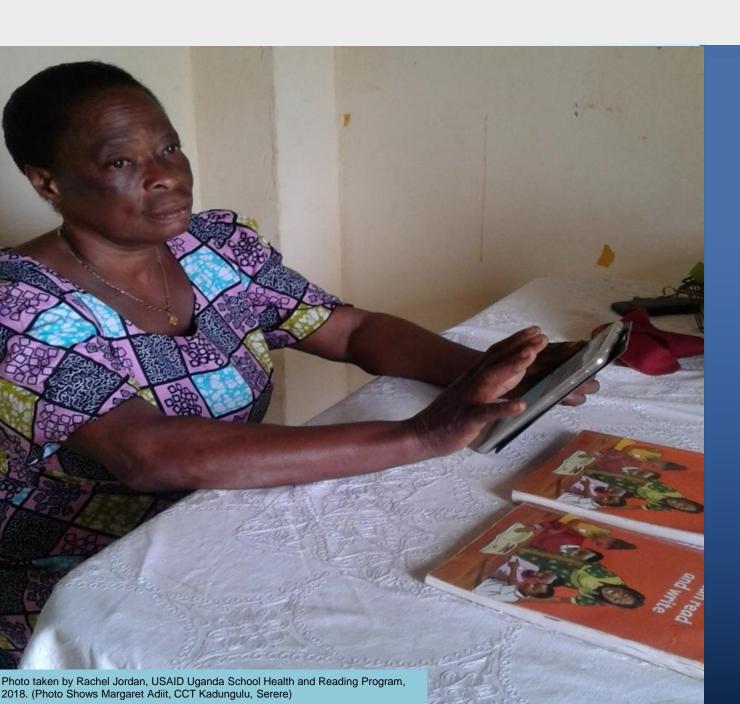
- Existing evidence on remote training from Global North, higher education, or focuses on technology as a supplement
- Over-simplified "with/without" evaluations at scale – inconclusive, lose nuance at scale. Need formative, process-oriented, contextually specific evaluations.
- With increasing demand, increasing need to examine issues of access, equity, quality, timeframe pressure and scaling, cost



Development

Conceptual Framework





Testing

Framework Review and Testing

Phase 1 Testing:

- Map monitoring data from past program trainings to FW Indicators
- Programs use FW questions to plan future interviews

Final Review and Revisions



Initial

Development







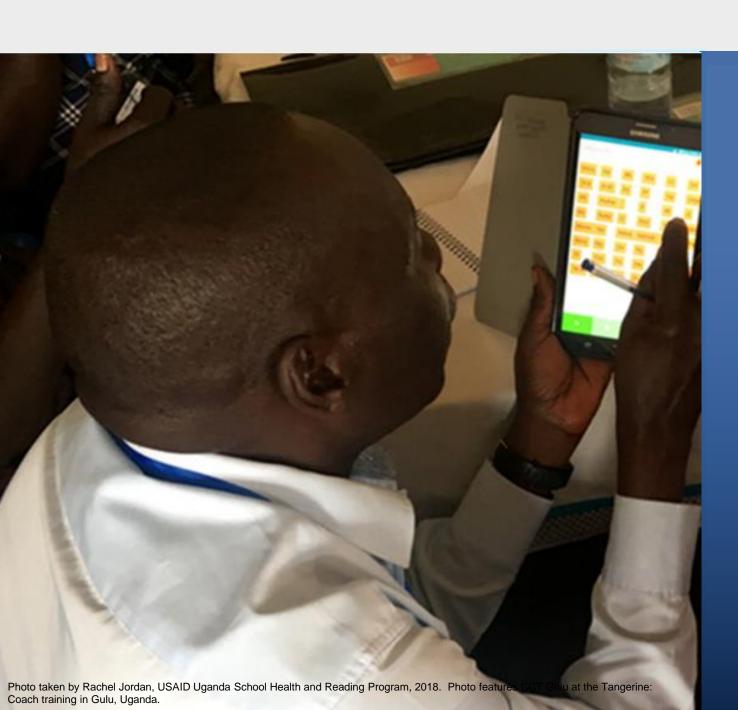


Internal Peer Review Phase 2 Testing:

Use indicators to develop/inform follow up surveys (3 trainings)

Framework Review and Testing





Application

Five Essential Considerations

Fit to Purpose

Design and technology respond to gaps the training seeks to address and to the needs and resources of the target population.

- Purpose
- Target Audience
- Content Parameters
- Instructional Design
- Dosage/duration

Reach and Access

All intended users are able to access technology, training activites and resources.

- Access User Needs
- Reach

Engagement

Training is implemented and received as intended, is relevant, and is captivating to users.

- Communication
- User Testing
- Participation Fidelity
- Satisfaction/Perceived Value

Outcomes

Technology-supported approaches result in learning and behavior change.

- Learning
- Behavior Change

Organizational Performance + Sustainability

Technology-supported approaches can be planned for, maintained, and improved on by government or other entities.

- Capacity
- Cost
- Resources

Two Sections

GUIDING QUESTIONS for planning and measuring training

This section is for team leaders who are implementing a training that is remote or using any type of technology.

C. Content Parameters	Include this question in training plans and discussions	
C1 How will the training content respond directly to the needs that this training is addressing? (See Purpose – a1 – pg 1.)	×	\bigcirc
C2 Does it make sense, or is it possible, to employ hardcopy materials? When and how?	×	\bigcirc
C3 Does it make sense, or is it possible, to employ communications technology (e.g., SMS text messaging, phone, Zoom, Facebook)? When and how?	(X)	\bigcirc
C4 Does it make sense, or is it possible, to employ knowledge- or content- sharing technology (e.g., Google Classroom, Moodle course, Tangerine®)? When and how?	×	\bigcirc
C5 What infrastructure considerations or limitations should you consider when selecting technology for this activity?	X	\checkmark
C6 Will you have opportunities to use the available technology for1) retrieving and playing videos;2) managing tasks or assignments; or3) conducting assesments?	×	\bigcirc

INDICATORS

for monitoring, evaluation and learning

This section is for team leaders who are implementing a training that is remote or using any type of technology.

A. Learning	Include this indicator in monitoring and evaluation for training	
A1 Proportion of surveyed participants who report improved attitudes toward the content of the training (e.g., differentiation, inclusion, student feedback)	x	\bigcirc
A2 Proportion of surveyed participants who report increased levels of self-efficacy in implementing practices targeted by the training	×	\checkmark
A3 Proportion of surveyed participants who report that their training participation contributed to their professional growth in areas targeted by the training	×	\bigcirc
A4 Average amount of time (in minutes) participants take to complete or pass a self-directed learning module or unit	×	\Diamond
A5 Proportion of surveyed participants who demonstrate improved content knowledge from pre-training test to post-training test	×	\bigcirc
A6 Proportion of surveyed participants who pass the training exit test	×	\bigcirc

Next Steps



Communicate - https://bit.ly/3v1QCl9



Collect



Focus on Learning/Application

Acknowledgments | Contact

Acknowledgments

This study was made possible through the ongoing support of the MEL-Tech research team: Dr. Carmen Strigel, Dr. Jonathan Stern, Jennifer Ryan, Joe DeStefano, Dr. Tracy Brunette, and Catherine Henny. Special thanks to the five project teams that participated in these case studies, especially Jennae Bulat, Julianne Norman, Patience Suah, Thomas Harris, Prince Gony, Trokon Wayne, Anna Dick, Ina Aquino, Daryll Gutierrez, Armida Elaine Trinos, Medina Korda Poole, Liana Gertsch, Geri Burkholder, Deborah Nakyejwe, and Peter Muyingo.

In addition, we are deeply grateful to Michael McKay and Lachko Hristov for their guidance and support to develop our data collection approach; to Cosnat Nteje, Rehemah Nabacwa, and Jacob Jallah for managing and ensuring high-quality data collections; and to Erin Newton and Gail Hayes for their editing and formatting expertise.

More Information

Presenting Author: Rachel Jordan rjordan@rti.org

www.rti.org

RTI International is a trade name of Research Triangle Institute. RTI and the RTI logo are U.S. registered trademarks of Research Triangle Institute.

MEL Framework for Technology-Supported Remote Trainings

Bibliography

Ajzen, I. 1991. "The Theory of Planned Behavior." Organizational Behavior and Human Decision Processes 50(2): 179–211.

Clarke, D., and H. Hollingsworth. 2002. "Elaborating a Model of Teacher Professional Growth." Teaching and Teacher Education 18: 947–967.

da Costa, T. M., B. J. Peres Barbosa, D. A. Gomes e Costa, et al. 2012. "Results of a Randomized Controlled Trial to Assess the Effects of a Mobile SMS-Based Intervention on Treatment Adherence in HIV/AIDS-Infected Brazilian Woman and Impressions and Satisfaction with respect to Incoming Messages." *International Journal of Medical Informatics* 81(4): 257–269.

EnCompass and MSI . 2021. A Roadmap for Measuring Distance Learning: A Review of Evidence and Emerging Practices. Washington, DC: USAID.

Fjeldsoe, B. S., A. Marshall, and Y. Miller. 2009. "Behavior Change Interventions Delivered by Mobile Telephone Short-Messenger Service." American Journal of Preventive Medicine 36(2): 165–173.

Gaible, E., and M. Burns. 2005. Using Technology to Train Teachers: Appropriate Uses of ICT for Teacher Professional Development in Developing Countries. Washington, DC: infoDev.

Guskey, T. R. 2002. "Professional Development and Teacher Change." *Teachers and Teaching* 8: 381–391.

Jordan, R., Pouezevara, S., Zangari, M., Carrol, B., Rakusin, M., & Mamytova, A. (2021). MEL-Tech Case Studies: Lessons learned from technology-supported remote trainings in five countries during the pandemic. Research Triangle Park, NC, USA: RTI International.

Kaye, T., A. Bashir, and C. Groeneveld. 2020. Monitoring Distance Education: A Brief to Support Decision-Making in Bangladesh and Other Low- and Lower-Middle Income Countries. EdTech Hub Helpdesk Response No. 31.

Kibria, A. and R. Jordan. 2021. Practical tips for programs planning remote trainings that use technology. Work in progress.

Kirkpatrick Partners. 2021. "The Kirkpatrick Model." https://www.kirkpatrickpartners.com/Our-Philosophy/The-Kirkpatrick-Model.

Slade, T., S. Kipp, S. Cummings, and K. Nyirongo. 2018. "Short Message Service (SMS)-Based Remote Support and Teacher Retention of Training Gains in Malawi." In Cultivating Dynamic Educators: Case Studies in Teacher Behavior Change in Africa and Asia, edited by S. Pouezevara. Research Triangle Park: RTI International.

Strigel, C., Jordan, R., and Pouezevara, S. (2021). MEL framework for technology-supported remote training. Prepared with internal research and development funding. RTI International.