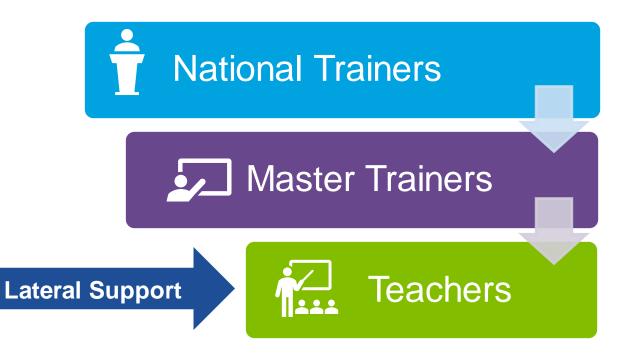
Peer-to-Peer Learning: The Power of Social Networks in Adoption of New Pedagogies

CIES 2024 March 13, 2024





Diffusion of Pedagogy Now









Research Questions

What are the characteristics of teacher social networks in rural primary schools in Tanzania?

influencers in teacher social networks in rural primary schools in Tanzania, and how might these individuals have influenced the adoption of pedagogical innovations?



Methodology

- Sociometric instrument analyzed using social network analysis to calculate quantitative measurements and generate teacher sociograms
- Key informant interviews with teachers to contextualize the SNA findings and gain better understanding of teacher interactions, the content of those interactions, and context
- Focus on teacher discussions of formative assessment as pedagogical strategy of interest



20 schools in 4 wards



110 educators



KII: 14 teachers & headteachers



Examining Relationships



Within Schools:

- Frequency of relationship
- Venue/method of contact
- Directionality of advice
- Topics discussed



Across Schools:

- Collaboration frequency
- Self-efficacy re: formative assessment
- Collective efficacy re: formative assessment
- CoL activities
- CoL satisfaction

⁶ www.rti.org

Examining Culture of Sustainable Adoption



School Culture: informants' perceived expectations of their roles as teachers, perceptions of head teacher's leadership style



Information Exchange Culture: formal and informal opportunities in their schools and wards for peer exchanges and peer learning such as communities of learning and benefits therein

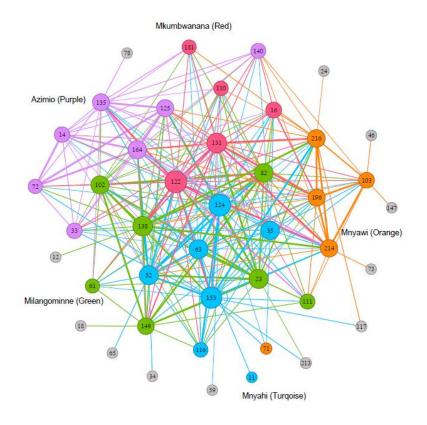


Pedagogy Adoption: attitudes and successes in adopting new pedagogies

Mbawala

Mailikumi Makome 133 Mduwi 203 Nachenjele Mbawala

Milangominne





Characteristics of Teacher Social Networks

Characteristic	Mbawala	Milangominne
Size (# of Actors)	47	43
Density	0.14	0.30
Total Links in Network	151	267
Average Links per Respondent	6.43	12.42
Average % of Links Outside School	43%	74%
Average Clustering Coefficient	0.53	0.72

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Opportunities that
Promote Strong
Teacher Professional
Relationships



Formal within and across-school structures for **observation**, **peer learning and exchange**



Regularly scheduled **school-level CoLs** with opportunities for practicing new pedagogies



Regularly scheduled ward-level CoLs involving collaborative planning and follow-up



Collaborative planning involving exemplary teachers, head teachers, and other potential positive influencers

10 www.rti.org

Characteristics of Influencers



Degree: number of links an actor (teacher) has with other actors



Closeness centrality: measures the *indirect* links each individual has, i.e. "friends of friends"



Betweenness centrality: individual's ability to mediate between pairs of individuals who are not directly connected, i.e. a bridge

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Positive Influencers vs. Influencers

Positive Influencers

- Mbawala & Milangominne both had high percentages of head teachers and strong teachers ranking in the top five performers of centrality measures (63% and 88%, respectively)
- Individuals interviewed in these wards spoke excitedly or positively about new strategies

Negative or Neutral Influencers

- Madimba & Nitekela both had low percentages of head teachers and strong teachers ranking in the top five performers of centrality measures (17% and 29%, respectively)
- Individuals interviewed in these wards spoke negatively about new strategies or were hesitant to take up new strategies

¹² www.rti.org

Conclusions and Recommendations for Future Research



Teachers in rural Mtwara Region have *extensive social and professional networks* both within and across schools in their wards



To leverage these networks, we need to understand *the cohesion of teacher social networks* and the *characteristics of persons in positions of influence* in these networks



Additional data on teacher implementation of new pedagogies and learning outcomes will allow for more nuanced analysis of the relative impact of teacher social networks

Thank You!

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