
*Teachers as Stakeholders
in Mathematics Education
Research ?!!*

Konrad Krainer, Banff 2010, Canada

Teachers as Stakeholders in MER, BIRS-Workshop

Content

Three claims about ...

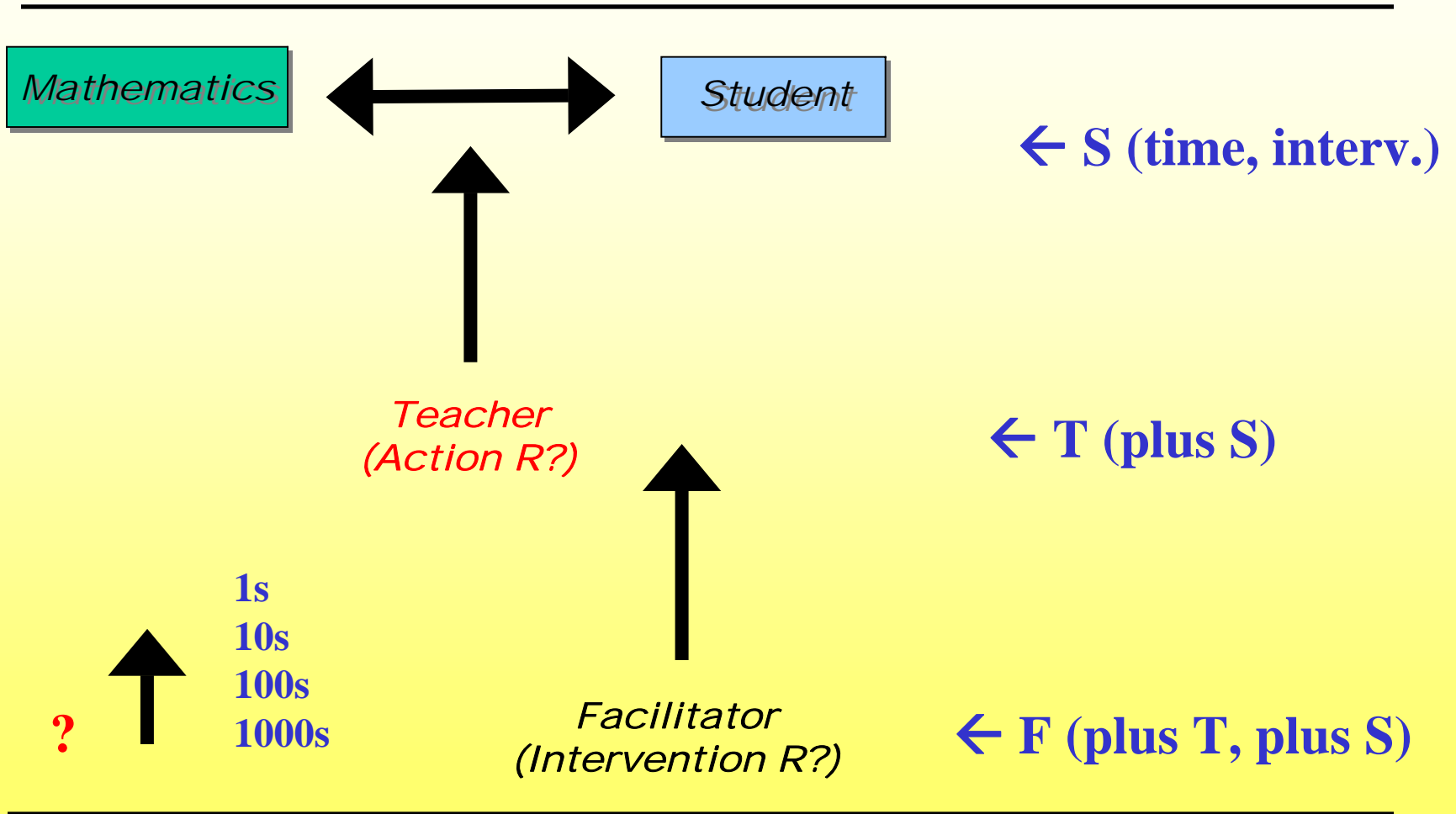
- The diversity of **Mathematics Education Research**
 - The diversity of teachers' roles as „**Stakeholders**“
 - „**Fruitful differences**“ between improving (practice) and investigating
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Claim 1

MER is a highly diverse field (with a variety of potentially different roles)

- The BIG FIVE research foci are (at least):
 - Students
 - Students-Teacher
 - Teachers
 - Teacher-Facilitator
 - Facilitators
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Goals and formats of research



Another example for the diversity

Research on Professional Development of MTs

Number of classrooms

Levels Classrooms

Micro 1s <-> Students, Parents, TEs

Meso 10s <-> (Math) Leaders, TEs

Macro 100s <-> Policy makers, TEs

Research focus

Individuals, Teams

Networks, Schools

Districts, Nations

Who is a Stakeholder in MER?

Based on more general definitions in wikipedia.de/en:

- **A Stakeholder in MER** (*in a development, project, ...*) is a person, community, group, organization, union, system, ... (*a „natural or juristical person“*), who
 - a) **has an interest in the process and the result of MER** and
 - b) **affects or can be affected by MER**
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Claim 2

Teachers have various roles as Stakeholders in MER

- Researchers invite MT to take part in a study
 - Math departments invite researchers for a R&D project
 - Teachers and researchers co-operate in a joint project (e.g. „Intervention research“; „give support - take data“; both are learners)
 - Teachers as representatives of a profession initiate, fund, disseminate research (NCTM)
 - Teacher unions hire researchers (Switzerland)
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Relationship teachers-researchers

- The question how intensively researchers regard teachers (and others) as stakeholders is an **expression** of the (intended and/or lived) **relationship between teachers and researchers**.
 - This means that our view on „teachers as stakeholders“ is about „us“, about our **beliefs and roles**, about our **understanding of „research“**.
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Two recommendations regarding T's role

- *Reflections before starting a MER project*
 - How deeply do we expect teachers (and other stakeholders) to have an **interest** in the process and the result of the project?
 - How much could/should the project affect teachers (and their practice), and how much could/should teachers (and their practice) **affect** our project?
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One Example: "Good Teaching" (Norm)

What is "Good" Mathematics Teaching, and How Can Research Inform Practice and Policy? (JMTE 8.2, 2005)

Relationship between research and norm-generating:

- Refusing norms
 - Establishing norms
 - Negotiating norms
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Claim 3

Regarding teachers as stakeholders in MER affords reflecting some (fruitful) „cultural differences“

Dimension	Teachers	Researchers
Growth	Students, T	R, Sci Community
Knowledge	Local, Particular	Global, General
Transfer	Application (Prac)	Publication (Theo)
Action & Time	(Re)act immediately	Time to reflect
Sharing	Oral (→ w!)	Written (→ o!)

Claim 3 (II)

Dimension	Teachers	Researchers
Field approach	Involved Nearness	Critical Distance
Attitude	Optimistic	Sceptical
Evidence	Experience (s-past)	Data (o-present)
Data/Int/Ass	Assesement	Interpretation

Progress: Looking into other's domain, negotiating interest, building trust!
