

Overview of the work and thoughts of the group

Key issues

- The group provided many good ideas of modelling activities in their reporting of their research
- Different perspectives on models and modelling
 - What constitutes a model?
- Teacher education
- Methodology – mainly empirical work
- Technology – roles in teaching and learning
 - The third world
 - Cybernetics
- The design of modelling experiences and how this design can motivate/support the development of content
- Modelling can be used to inform curricular practices
- The affective domain
 - Motivation as a transversal theme

What was missing (this time)?

- Research on assessment in a modelling practice
- Large scale comparative studies
- Data modelling
- Use of language
- Exploration of 'applied' mathematics
 - More connections between the field of Applied Mathematics and Mathematics Education
- Enough theoretical constructs? Need of more theoretical papers?
- The relationship between modelling and other learning competencies
 - Missing a theoretical perspective that connects modelling practices with the development of competences

What was missing (this time)?

- Critique of modelling tasks and their implementation with students
 - Would it be useful to have a consensus on what may be a “bad” task in modelling?
- Discussion of curriculum policy
- Design of in-service professional development – how to help teachers to become more ready to implement modelling?

Development Potential

- Theoretical perspectives (making these explicit)
- Exploration of: What is a model? What is modelling?
- Gaining insight into the needs of teachers from a range of theoretical perspectives
- Exploration of the design of different learning ecologies (other than the classroom)
- Exploring sustainability and scaling-up
- Trying to maintain a focus on the state of art of our field - Is it time to take a meta-view of the CERME corpus of knowledge (namely from the empirical studies, cases, etc?)

What affects our work

- Our own theoretical perspectives
- Funding (what is favoured by funders!)

Possible ways of future working

- A question arises about building on knowledge
 - How to have a more cumulative development of the field?
- In our call for papers maybe focus on a few themes in which papers are especially welcome...
- Maybe we encourage poster presentations to assist with the issue of quality / inclusion
- Preserving deep discussions of papers