Group #6:
Local Context &
Teaching Philosophy

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Motivation

- The **educational culture and the teaching philosophy** strongly influences how a teacher understands & organizes teaching:
  - Student-focused versus teacher-focused teaching?
  - Active, problem-based learning versus passive learning?
  - Traditional lectures versus self-directed study?
  - Technology-enhanced learning or traditional tools?

Motivation

- There is **no „one size fits all“** solution for innovative instructional designs.

- We need to understand the teaching philosophies, **to provide tailored materials within ITEM.**

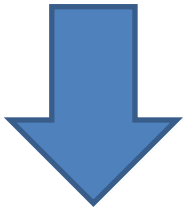
Objective

- To better understand the educational culture, teaching philosophies and use of educational technologies at the test institutions.

- Our Focus: On teachers

Approach

1. Semi-structured interview
with a representative of the math program
in test institutions and partner universities



2. Standardized, online survey of teachers in all institutions

Step 1: Semi-strctured interviews

- Organization of math lectures?
- Organization of assessments?
- Use of real-life examples in math lectures?
- Use of mobile technology in math lectures?
- Use of special software in math lectures?
- Use of Moodle in math lectures?

- Overall, 14 interviews are planned, 4 are already conducted.

Step 2: Online-based teacher survey

1. Approaches to Teaching Inventory (ATI-16)
   - Trigwell (2004); 16 items

"I use difficult or undefined examples to provoke debate among students. "

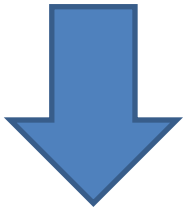
2. Technology, Pedagogic, Content Knowledge (TPACK) Survey
   - Adapted from: Kristi Garrett (2014); 22 items

"I can anticipate and address students' preconceptions and misconception"

Approach

Has started

Semi-structured interview
with a representative of the math program



To be organized

Standardized, online survey of teachers in all institutions

Next steps

- We will conduct the interview and survey both in test institutions and in other partner universities.

- The aim is to finish interviews & survey until September 2019.

- Publication is planned (conference, journal paper).

To be discussed

- Several surveys and interviews are conducted at the moment within ITEM.

- To avoid duplication of work, it could make sesne to define a „**ITEM survey coordinator**“ who has an overview on all surveys.