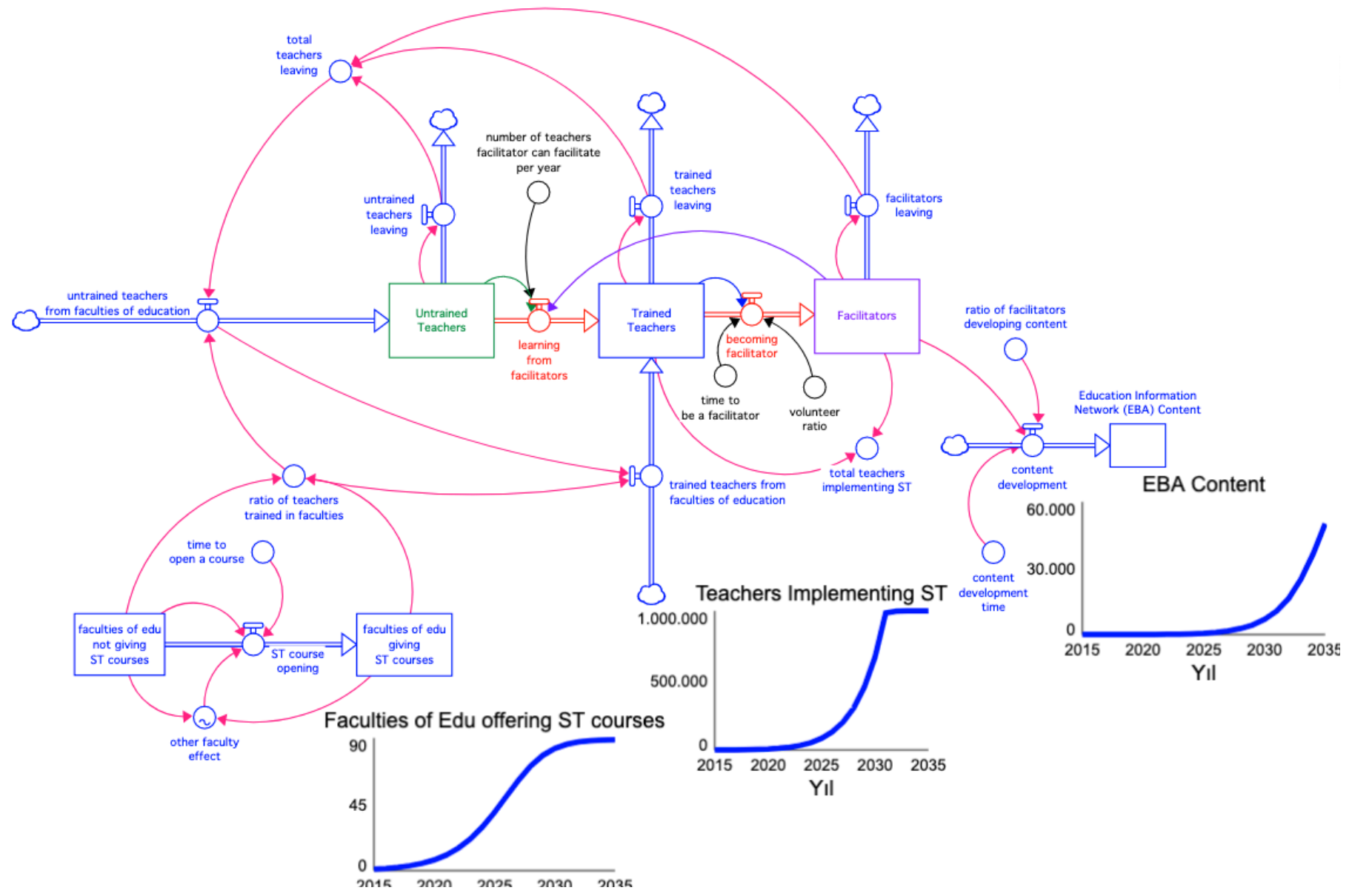# The Perceptions Of Teachers On Using The Systems Thinking Approach In In-class Applications

Goksen Akyol Kızılkaya

Systems Thinking Society, Turkey

0:00-0:30

total teachers leaving

number of teachers facilitator can facilitate per year

untrained teachers leaving

trained teachers leaving

facilitators leaving

untrained teachers from faculties of education

Untrained Teachers

learning from facilitators

Trained Teachers

becoming facilitator

Facilitators

ratio of facilitators developing content

time to be a facilitator

volunteer ratio

Education Information Network (EBA) Content

ratio of teachers trained in faculties

trained teachers from faculties of education

total teachers implementing ST

content development

EBA Content

time to open a course

content development time

60.000

30.000

0

2015   2020   2025   2030   2035

Yıl

faculties of edu not giving ST courses

ST course opening

faculties of edu giving ST courses

Teachers Implementing ST

1.000.000

500.000

0

2015   2020   2025   2030   2035

Yıl

other faculty effect

Faculties of Edu offering ST courses

90

45

0

2015   2020   2025   2030   2035

- Investigate the perceptions of the teachers using the Systems Thinking Approach in in-class applications.

Critical Incident Technique (CIT) & Interview Questions

- Think about the experiences you have had with your students regarding System Thinking. Are there any incidents, anecdotes, and stories about which you think that the system thinking practices were successful among these experiences?

- What were the factors that made these experiences successful and positive ones?

- Are there any concepts that are established in the students' discourses and any habits observed that they start to catch about system thinking?

- Are there any incidents, anecdotes, and stories about which you think that the system thinking practices were unsuccessful among these experiences?

- What were the factors that made these experiences the ones that were unsuccessful, hard and compelling for you?

2:00-3:30

- 480 teachers trained in between 2014-2019

- 50 teachers, who are known to use systems thinking tools in their in-class applications, received the interview questions

- 31 teachers replied the interview forms

2:00-3:30

- The content analysis method

- graph
- loop
- stock-flow
- mental processing skill
- ladder of inference
- other
- teacher competency
- using in daily life
- concretization
- extracurricular use
- cause effect relationship

- problem solving
- personal differences
- seeing the big picture
- planning
- empathy
- different perspectives
- enjoyment
- connections
- permanence of learning
- ease of application
- age appropriateness

- thinking that students cannot do
- drawback of language
- time distress
- time allocated for planning
- facilitation of learning
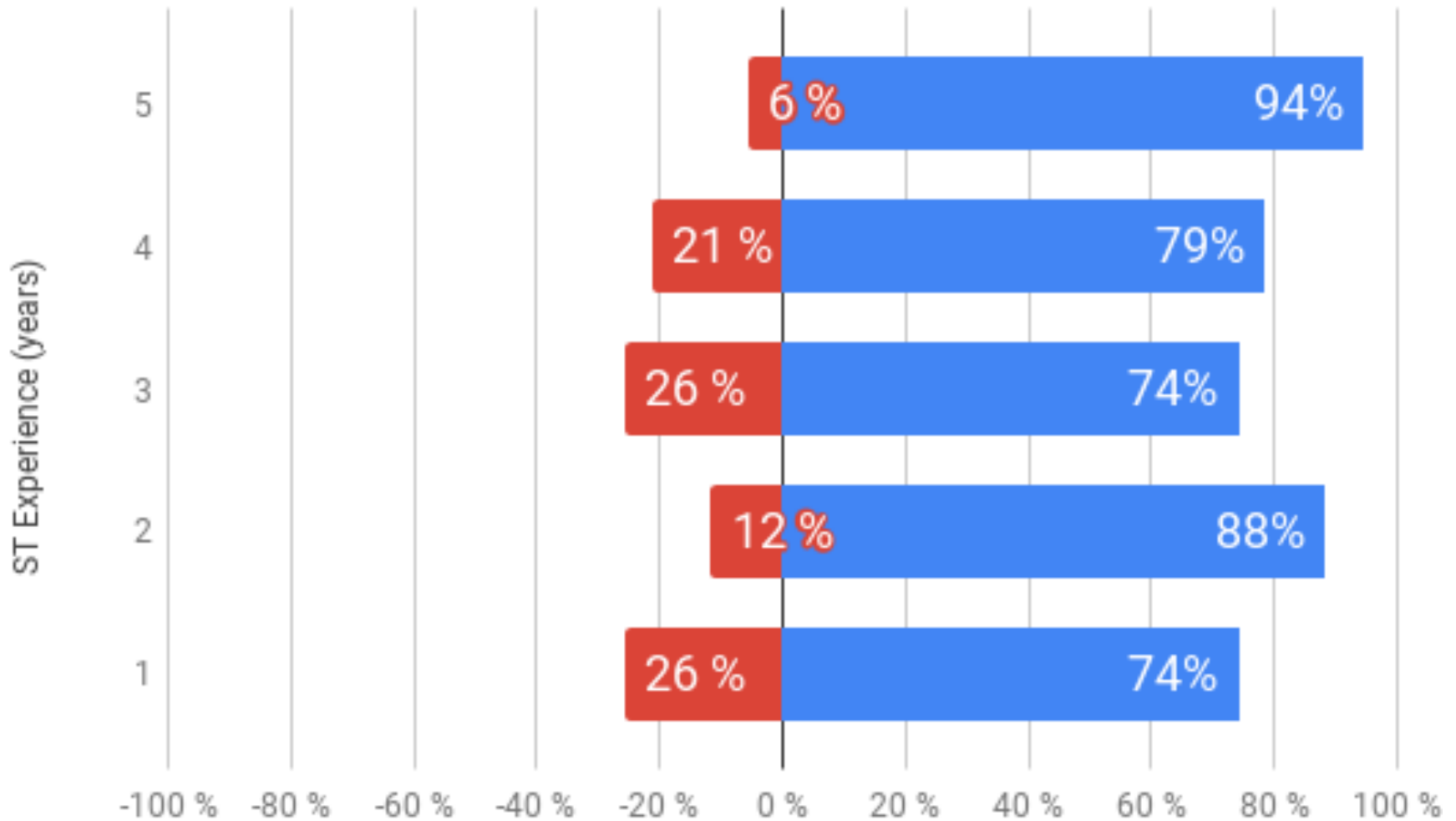- teacher sharing
- desire to accomplish fast

2:00-3:30

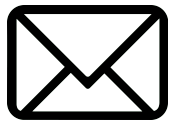# RESULTS

2:00-3:30
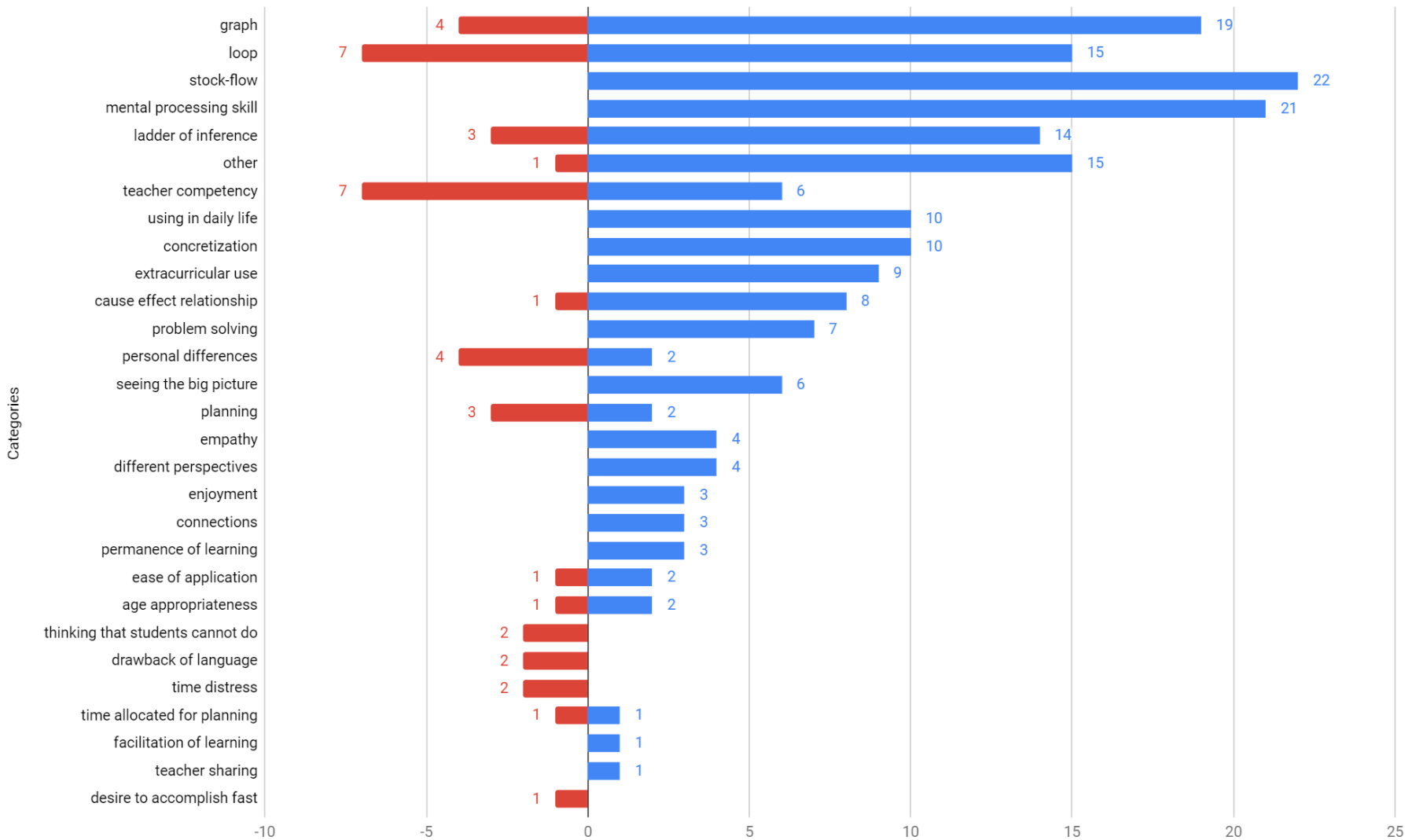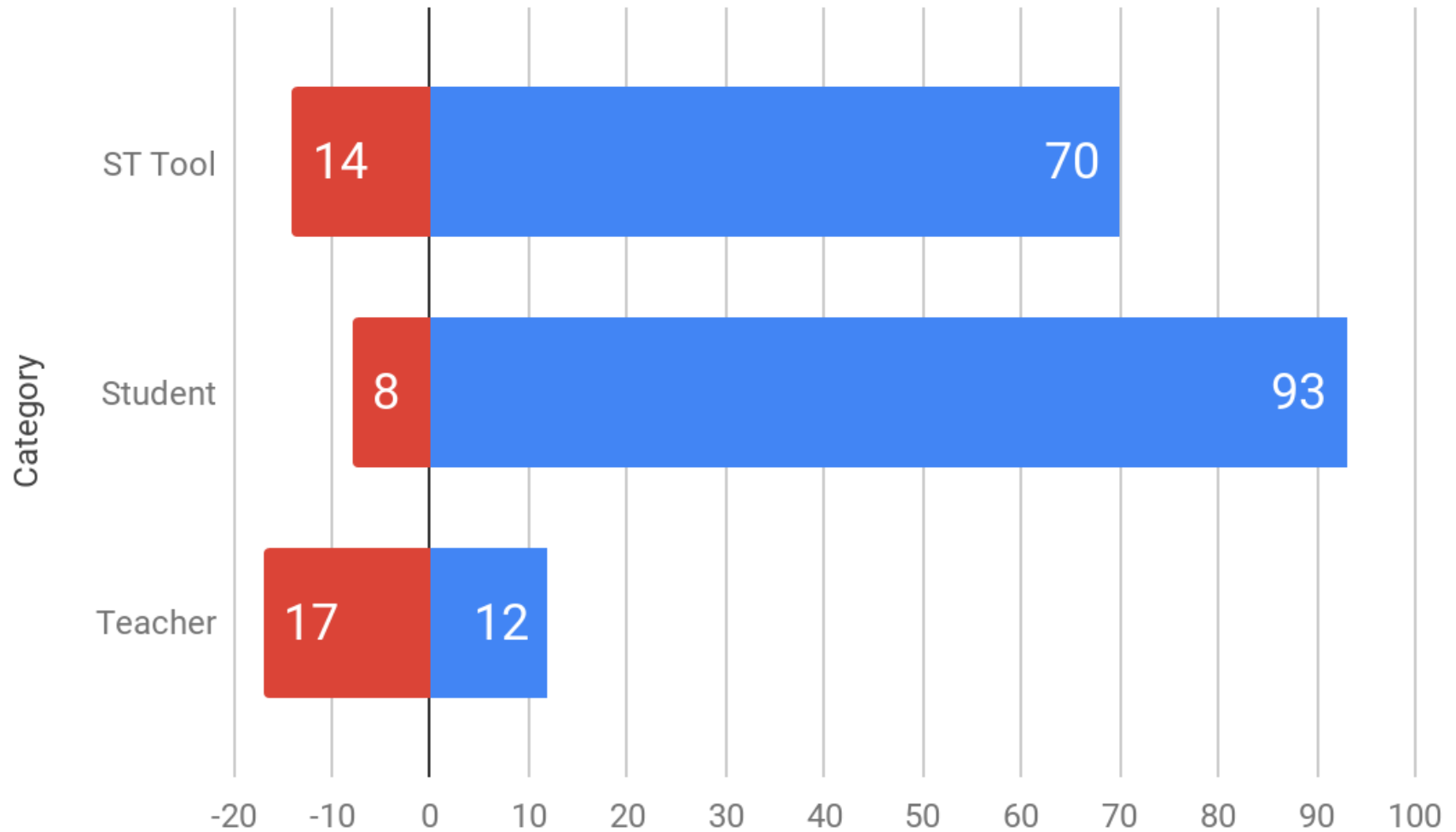
RESULTS

- Online Platform **esdX**

- Updating the content of the teacher workshops

- Consultancy for teachers

- Writing a textbook for the Faculties of Education

3:30-5:00

Thanks for listening..

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