

# 360-Degree videos in teacher education



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Interpersonal competence



**1. Noticing**



**2. Interpreting**



**3. Undertaking actions**



## 2. Interpreting

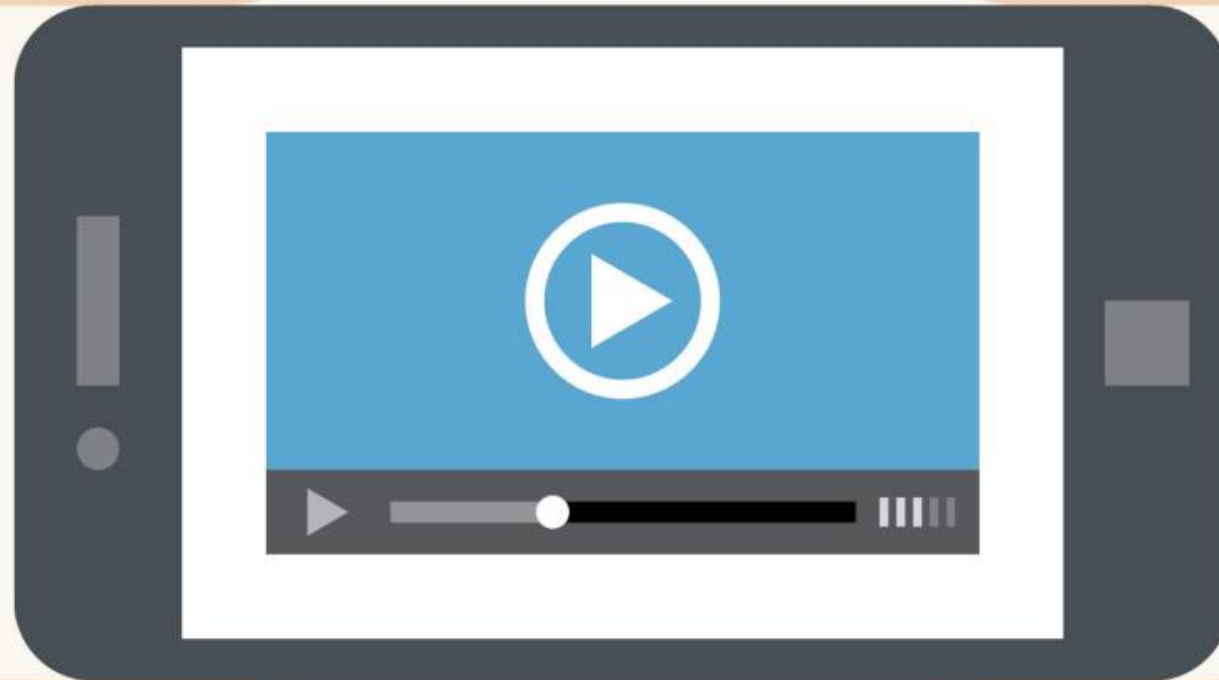




## **Theory-based interpersonal knowledge**

about developing and sustaining positive student-teacher relationships & supportive classroom environments

Illustrate richness and complexity of classrooms by real-life authentic cases









# The Virtual Classroom



# The Virtual Classroom

- 141 First year **preservice teachers**
- **360-Degree videos** of experienced teachers dealing with important classroom events (e.g., beginning of a lesson, disruptive behaviour)
- Combined with **theoretical lectures**

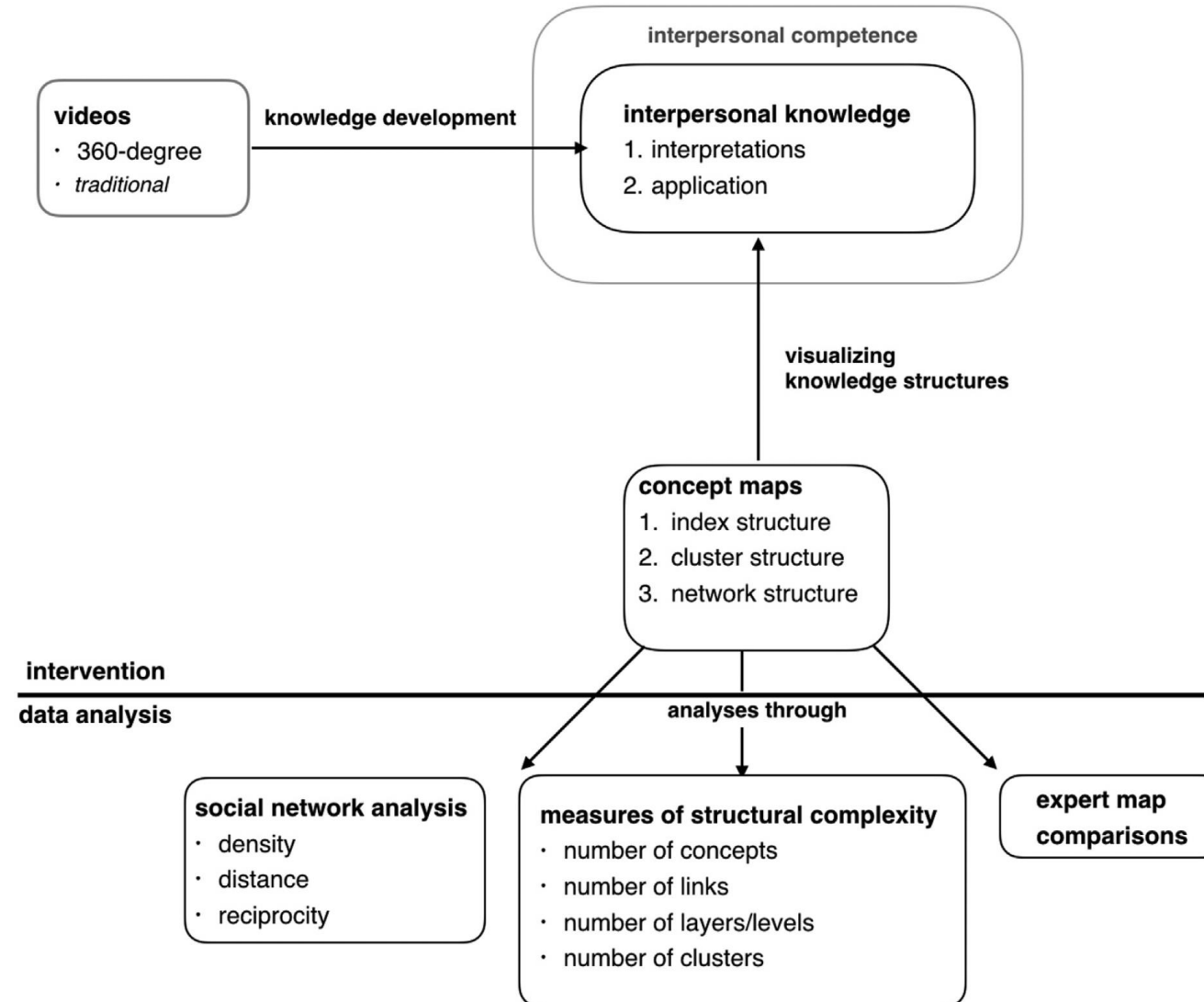


# Research questions

1. What is the effect of the Virtual Classroom on PSTs' theory-based interpersonal **knowledge structures**?
2. What is the effect of the Virtual Classroom on PSTs' theory-based interpersonal **knowledge development**?

# Method & analysis

- Pre-and posttest design
- Concept maps & interviews
- Social networks analysis & expert map comparisons



Results

Improved **noticing**  
classroom events  
using teaching and  
learning principles  
for interpretations



## Results

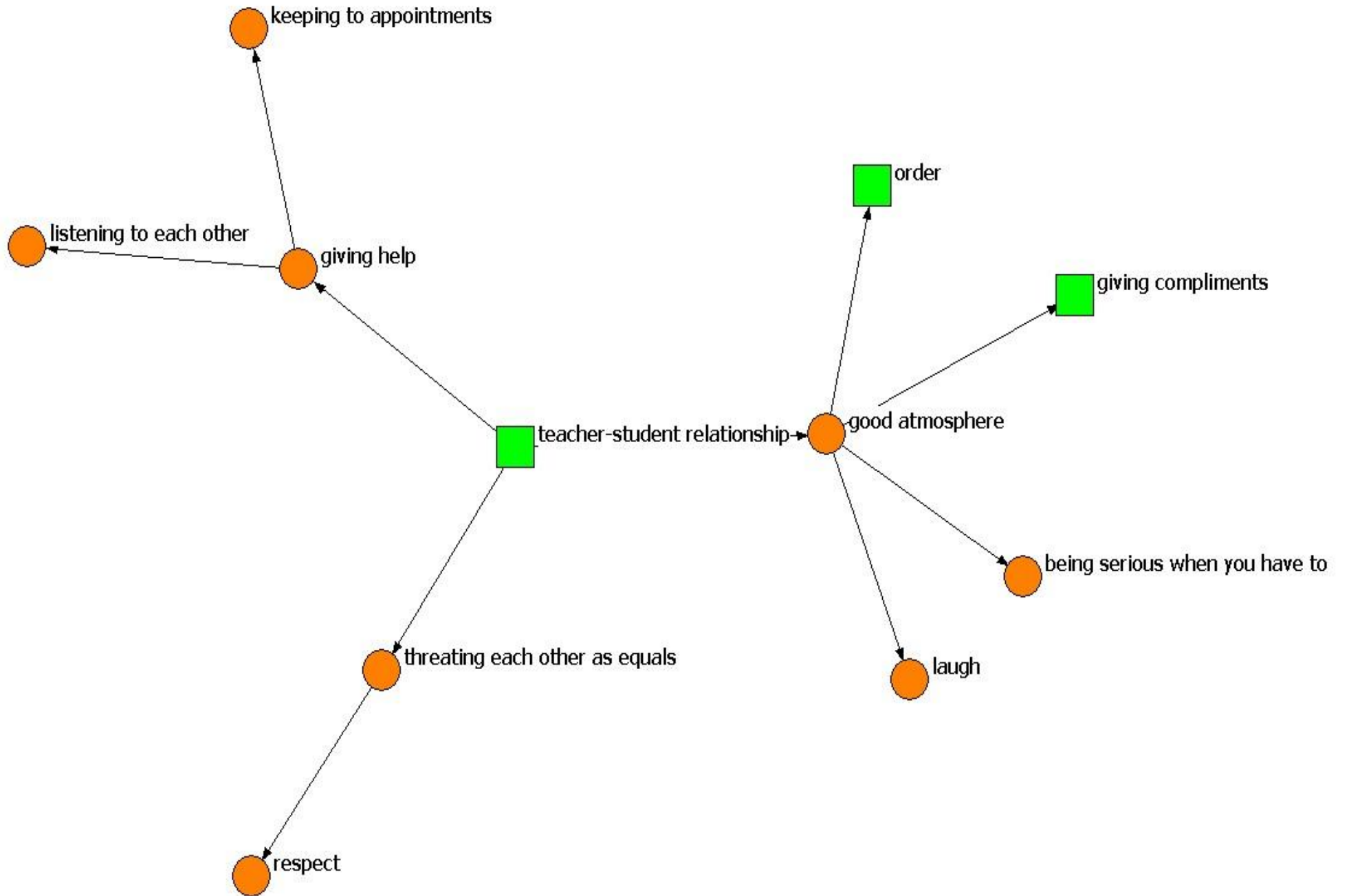
Developed interpersonal knowledge structures

- more links
- more clusters



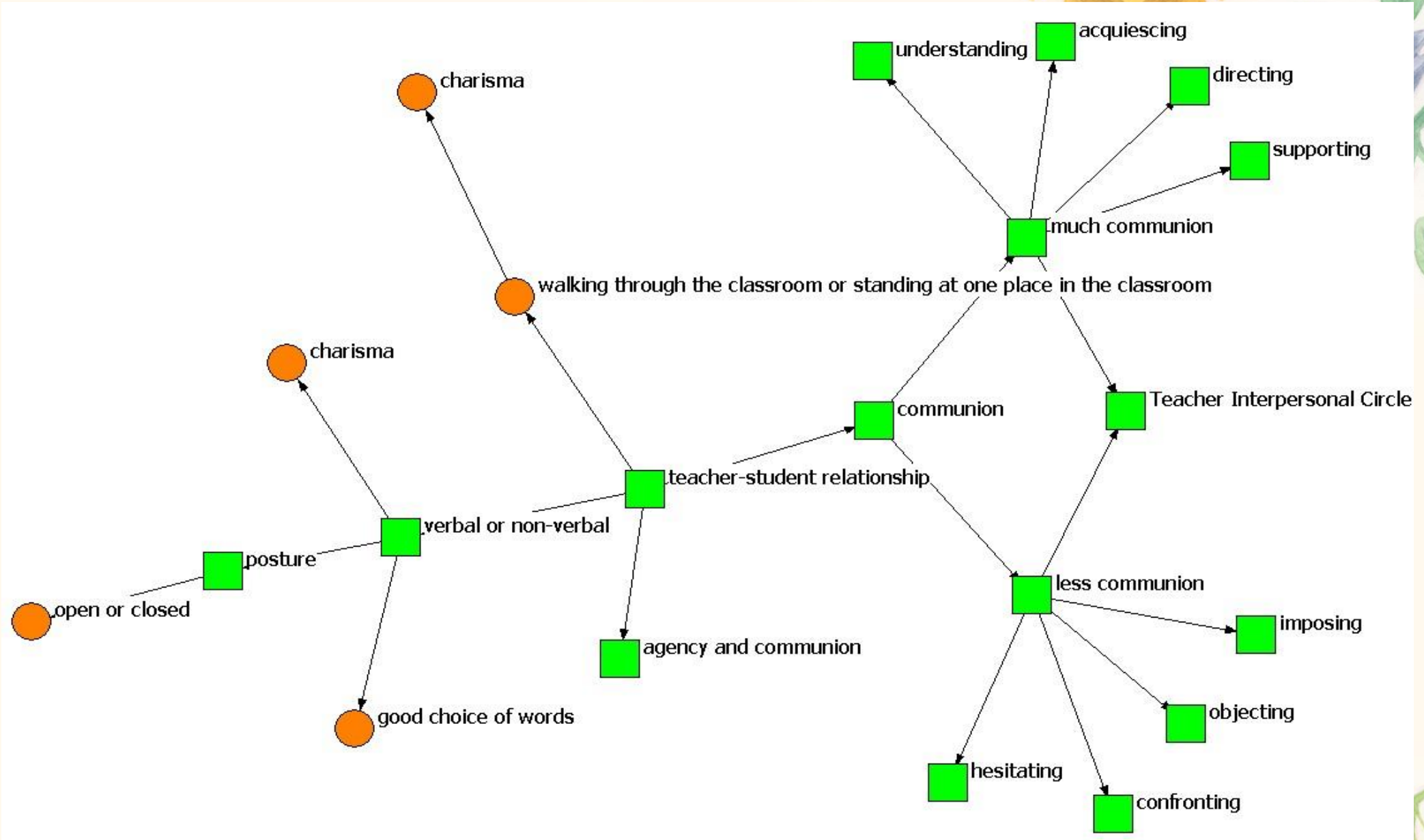
# Results

Before



# Results

After





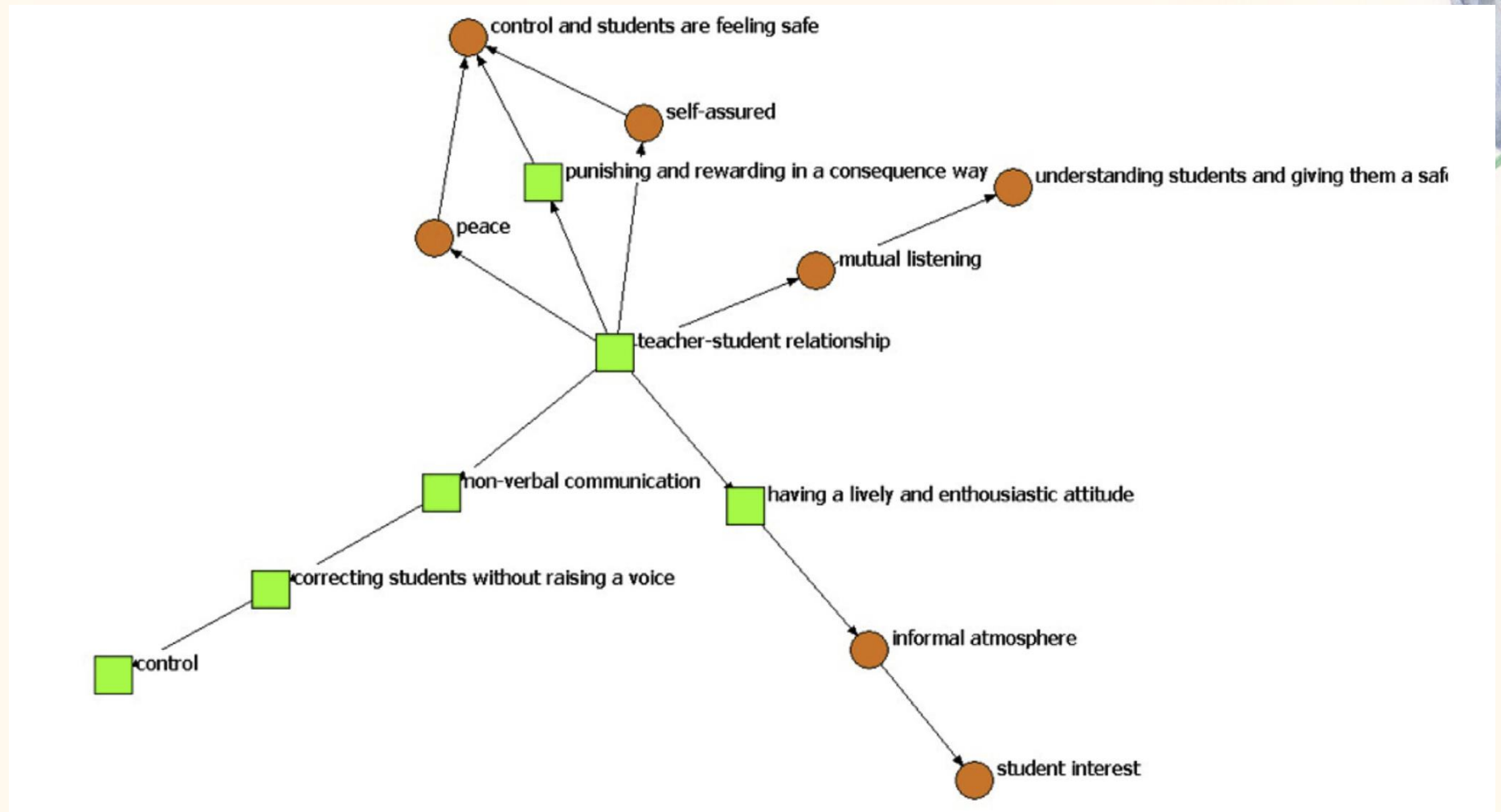
Results

More relevant concepts



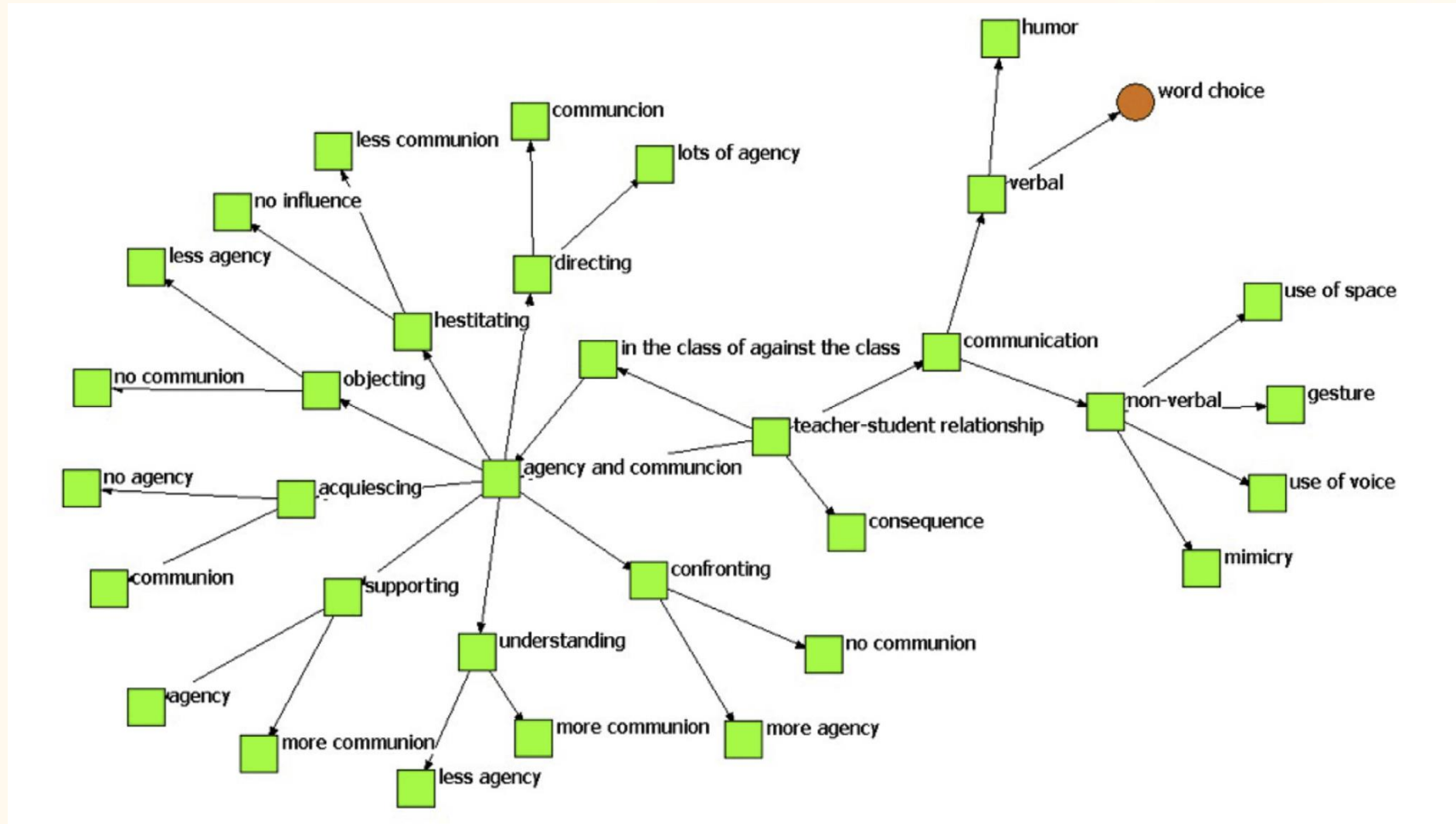
# Results

Before



# Results

After



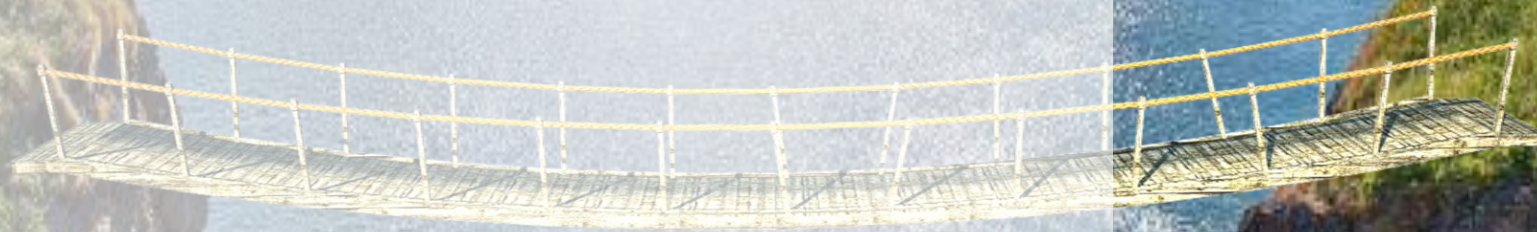
## Results

- PSTs ( $n = 12$ ) reported that at the pre-test **they placed everything they could think of** regarding the teacher-student relationship into the concept map.
- At the post-test, PSTs mostly based their concept maps **on the theory they learned** during the video-lecture combination.



# Implications for practice

- 360-Degree videos in combination with theoretical lectures are useful to **develop** knowledge
- Concept maps are useful to **visualize** conceptual knowledge development



## Future research

- What does interpersonal knowledge development mean for interpersonal teacher behaviour in the **actual classroom?**



Thank you for your attention  
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The picture with students (slide 10) was used with permission.

