25 years of research on teacher-student interpersonal relationships

Prof. dr. Perry den Brok, February 21, 2018

General keynote for Nanyang Technological University







Content of the session

- 1. Brief personal intro
- 2. Interpersonal theory
- 3. Questionnaire on teacher interpersonal behaviour (QTI)
- 4. Interpersonal profiles
- **5.** Relation to student outcomes
- 6. Development over a year and over a career
- 7. Some other findings





Personal background Perry den Brok

- Full professor in education and learning sciences
- PhD on teacher behaviour and student outcomes (Utrecht University, 2001)
- Experience as teacher educator (since 2005), researcher (since 1996) and consultant (since 2003)
- Chair/director of a group on education and learning (since 2017, Wageningen University and Research)
- Dean of teacher education at Eindhoven University of Technology (2015-2017), director of research (2010-2015)
- Expertise: learning environments, science & engineering education, teacher professional development





Wageningen University and Research



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Education and Learning Sciences Group

- 35 staff (+many assistants)
- Serving > 3000 students per year
- Courses in skills education, entrepreneurship education, environmental education, teacher education
- Research on competence development, educational environments, teaching and teacher education, higher education
- Valorisation: professional development courses, evaluation of schools, curriculum development





Research team investigating teacherstudent interpersonal relations in education - acknowledgement





35

Jan van Tartwijk

artwijk Hans Creton





Tim Mainhard Mieke Brekelmans



Perry den Brok



Anna van der Want



Heleen Pennings

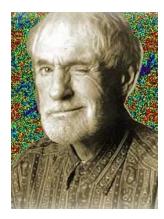


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Theoretical Background



Timothy Leary

1957 – Timothy Leary

- Interpersonal Diagnosis of Personality
- 2 dimensions in communication hostility-affection dominance-submission

1967 - Watzlawick, Beavin, & Jackson

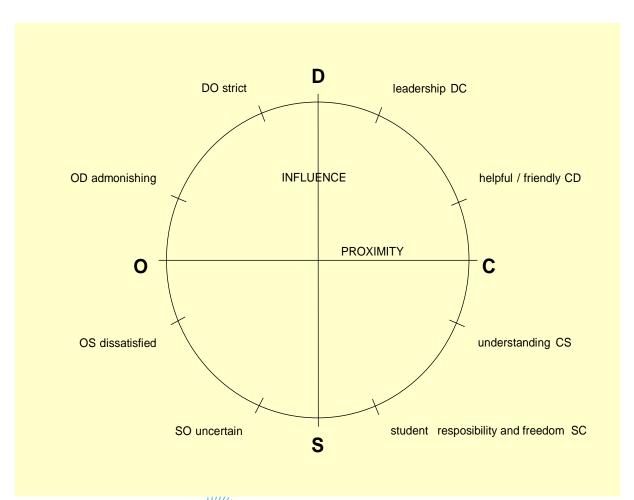
• The pragmatics of human communication

Paul Watzlawick





Teacher-student interpersonal behaviour: a model



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Questionnaire on teacher interaction (QTI)

- Originally developed in Dutch (1984, Creton & Wubbels)
- Took 5 years to be developed, several rounds of interviews, pretesting, etc.
- Thirty language versions
- 48-77 questions (depending on version); 6-10 per sector
- Has appeared to be (cross-culturally) reliable and valid
- Has been used in Singapore!









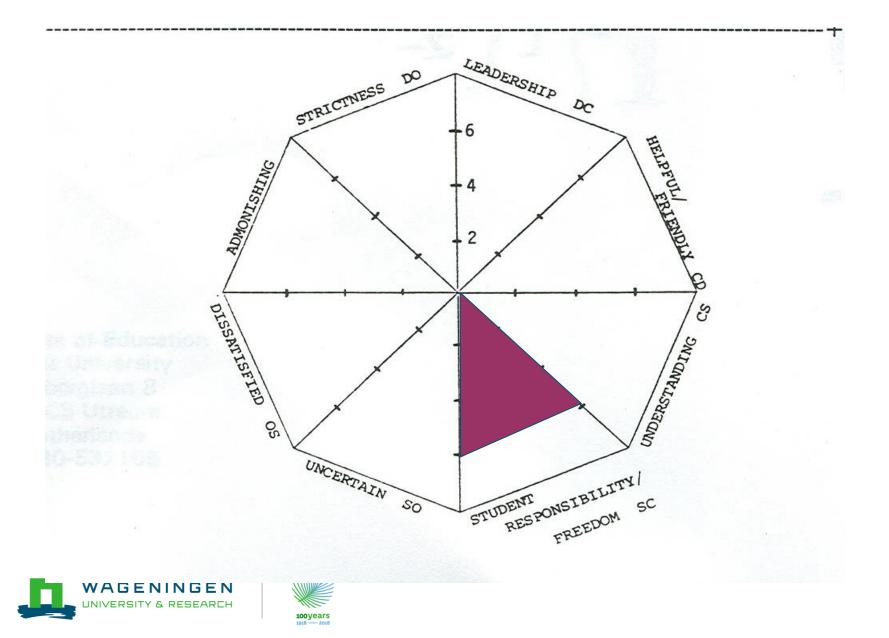
Sample questions and scoring

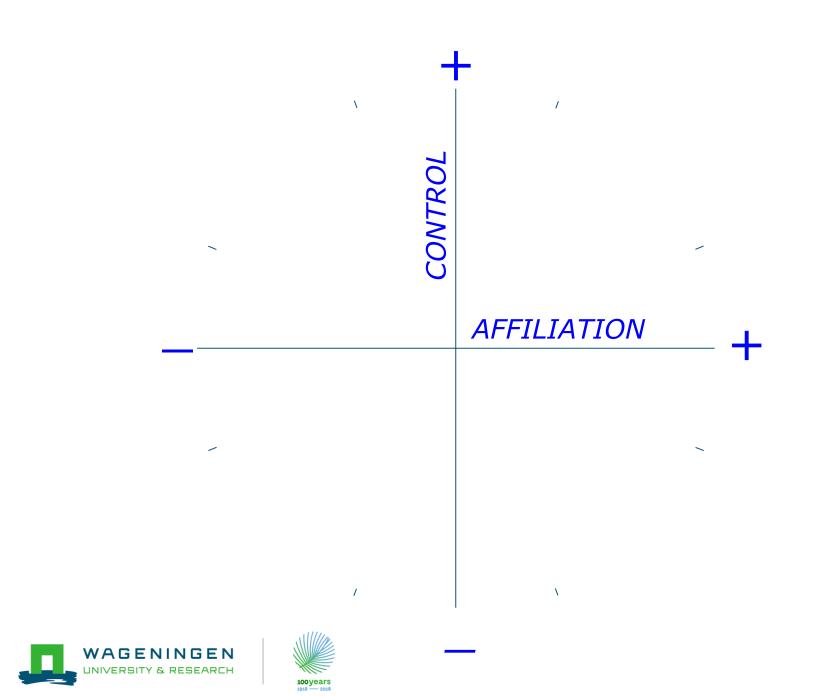
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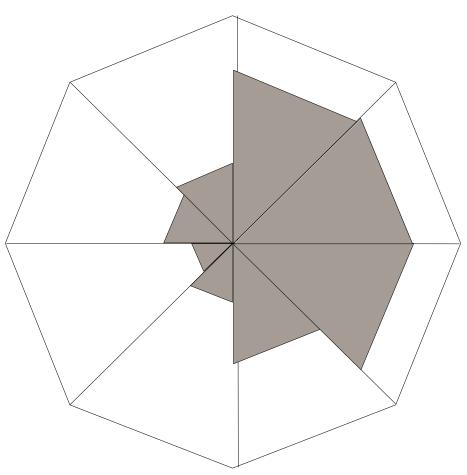
Never	Alway	S				DC CD CS SC	SO OS OD DO
1. This teacher gives us a lot of free time in class	0	1	X	3	4	<u>2</u>	
2. This teacher realizes when we don't understand	0	1	2	3	4		
3. This teacher is friendly	0	1	2	3	4		
4. This teacher seems dissatisfied	0	1	2	3	4		_
5. This teachers' standards are very high	0	1	2	3	4		
6. This teacher is willing to explain things again	0	1	2	3	4		
7. This teacher has a bad temper	0	1	2	3	4		
8. We can influence this teacher	0	1	2	3	X	4	
9. This teacher gets angry unexpectedly	0	1	2	3	4		_
10.This teacher is strict.	0	1	2	3	4	_	
11.This teacher is a good leader	0	1	2	3	4		
12. This teacher acts as if (s)he does not know what to do	0	1	2	3	4		
13. We learn a lot from this teacher	0	1	2	3	4		
14. This teacher gets angry quickly	0	1	2	3	4		
15.This teacher's class is pleasant	0	1	2	3	4		
16.This teacher is hesitant	0	1	2	3	4		
						6	+

Transforming scores into a profile



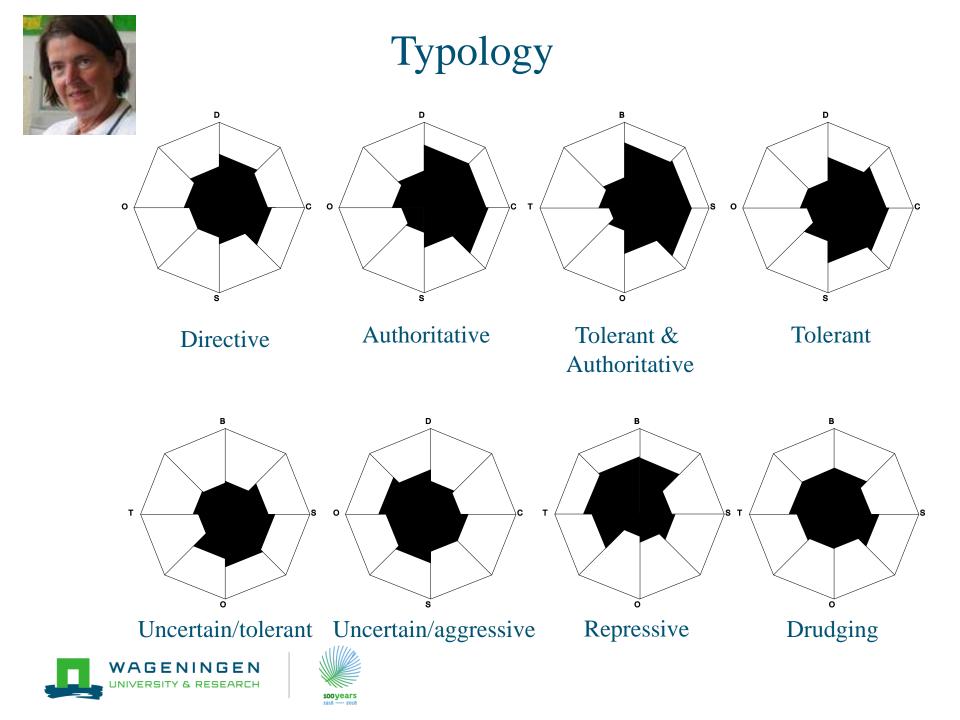


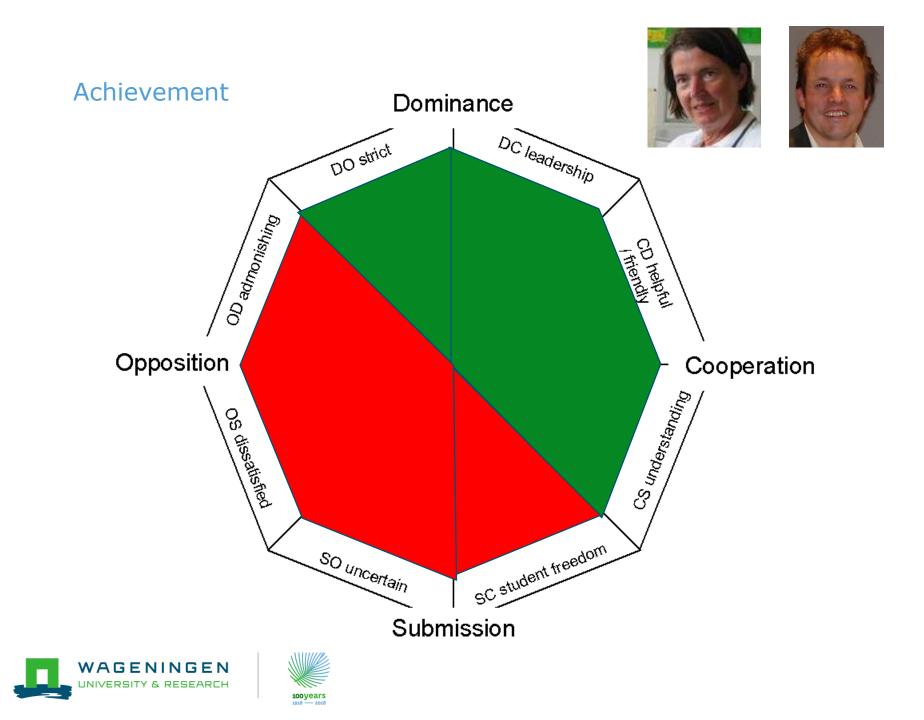
Example teacher profile

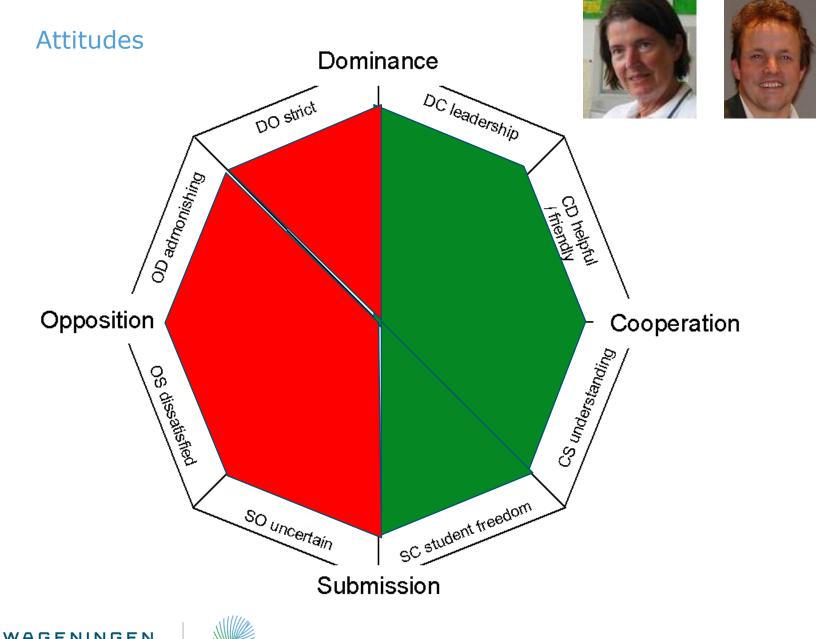






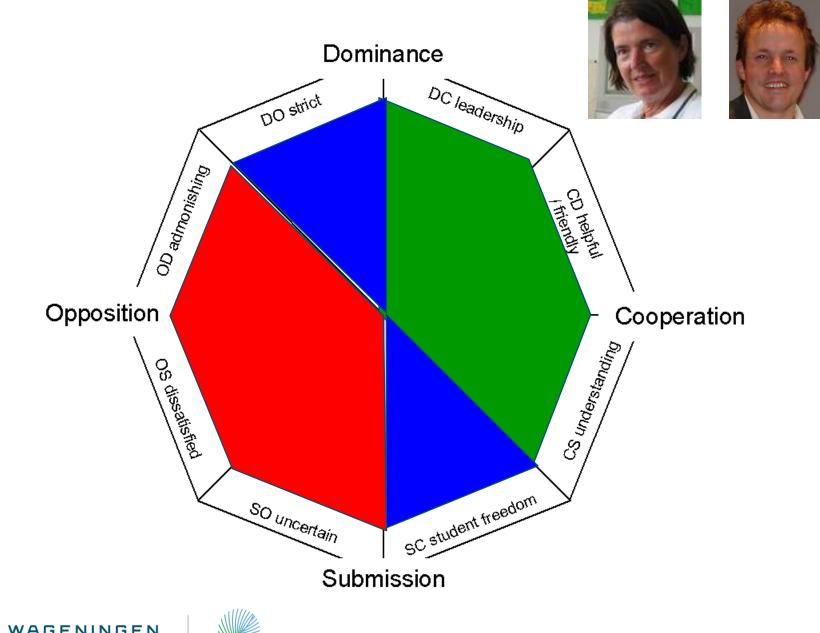






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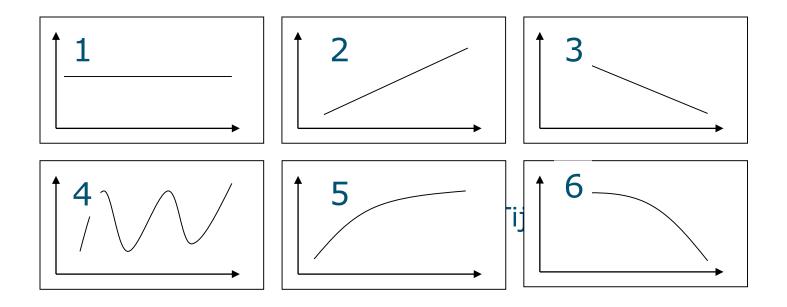






100 years

Development during first 15 weeks?







Mainhard 2009

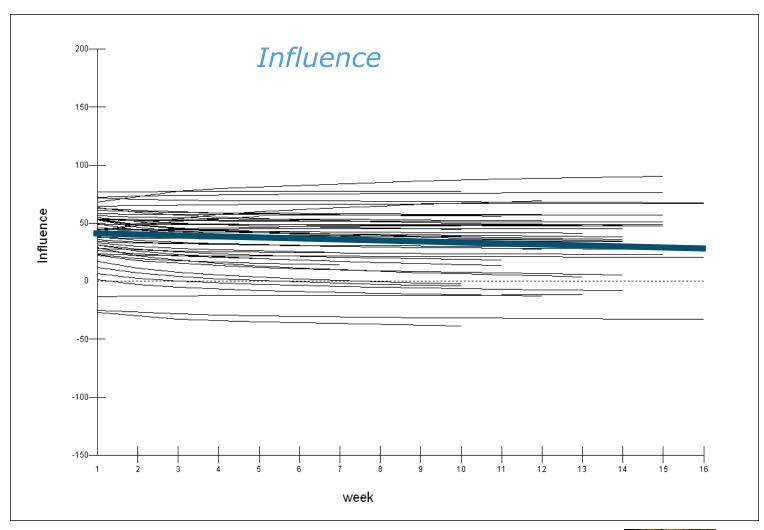
RAW TRAJECTORIES





Mainhard 2009

100 years

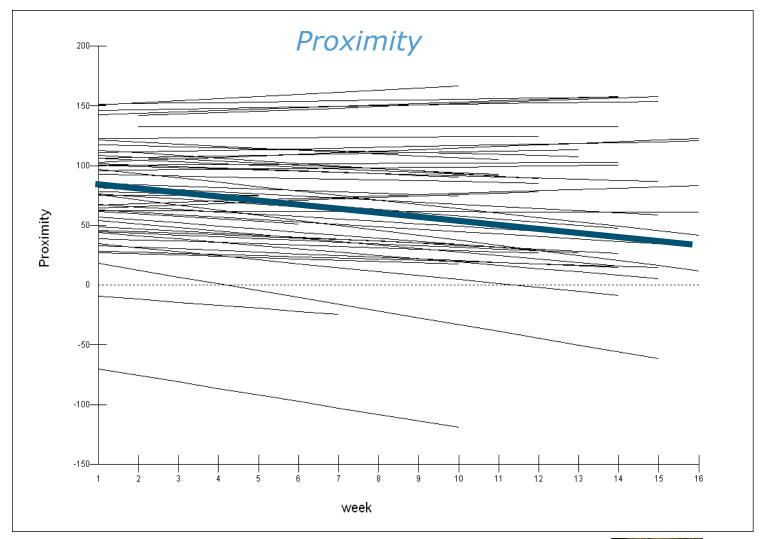






Mainhard 2009







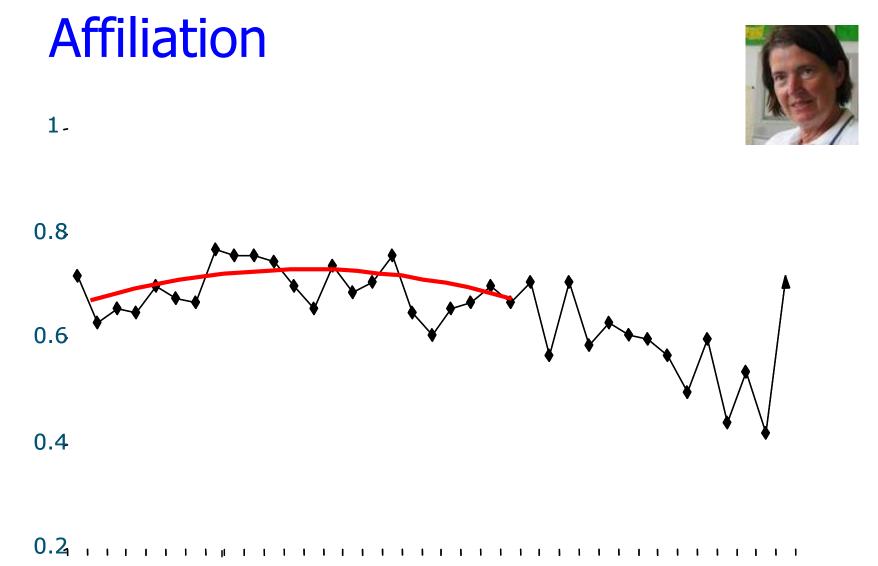


Mainhard 2009





Brekelmans Wubbels & van Tartwijk 2005; Brekelmans 2010

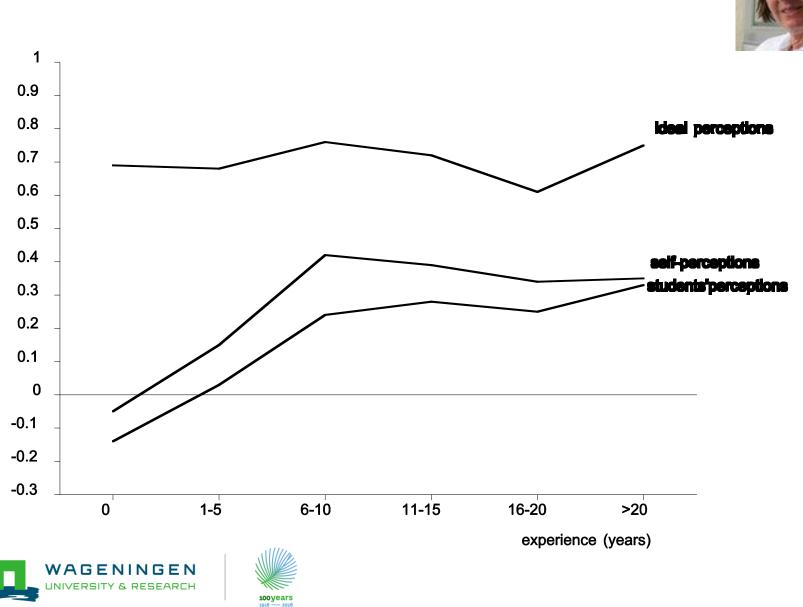


0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 Experience (years)

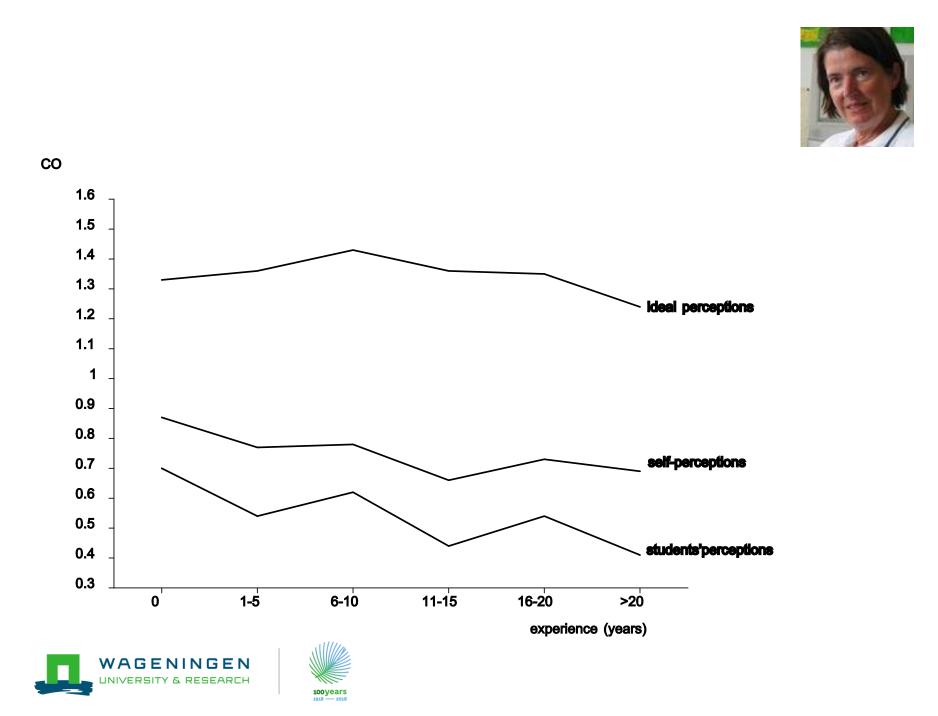


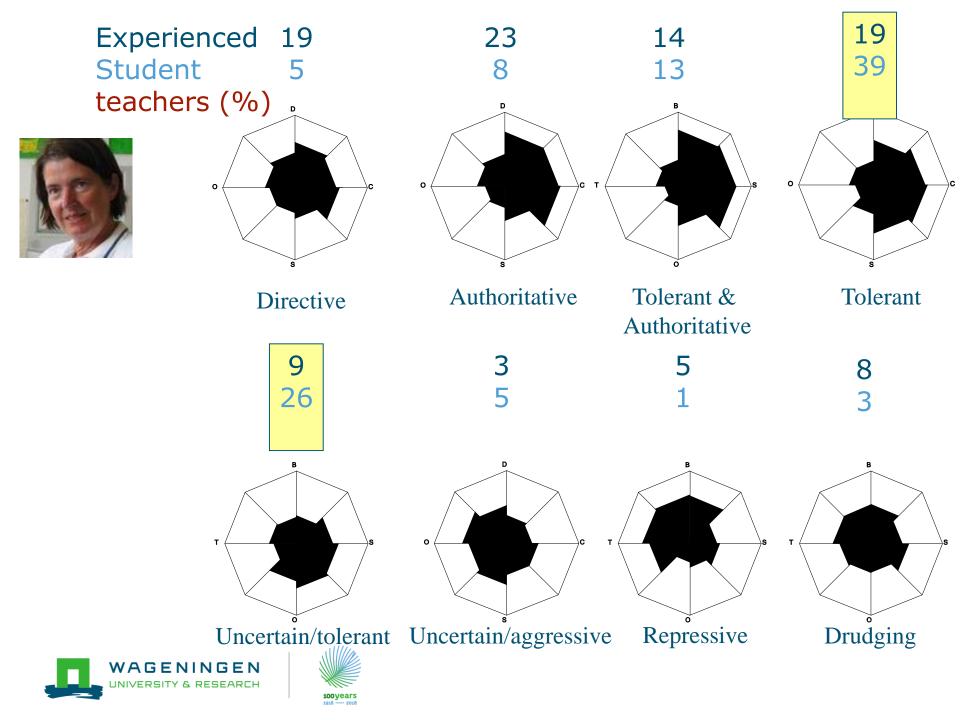


Brekelmans, Wubbels & van Tartwijk 2005; Brekelmans 2010



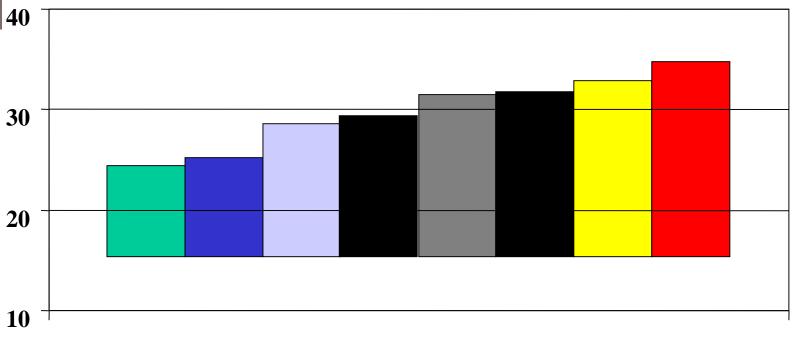
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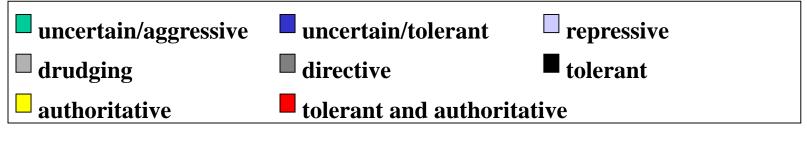






Student activating teaching



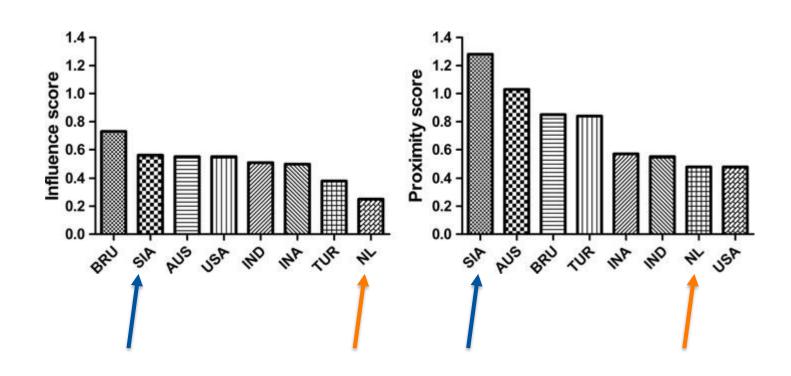








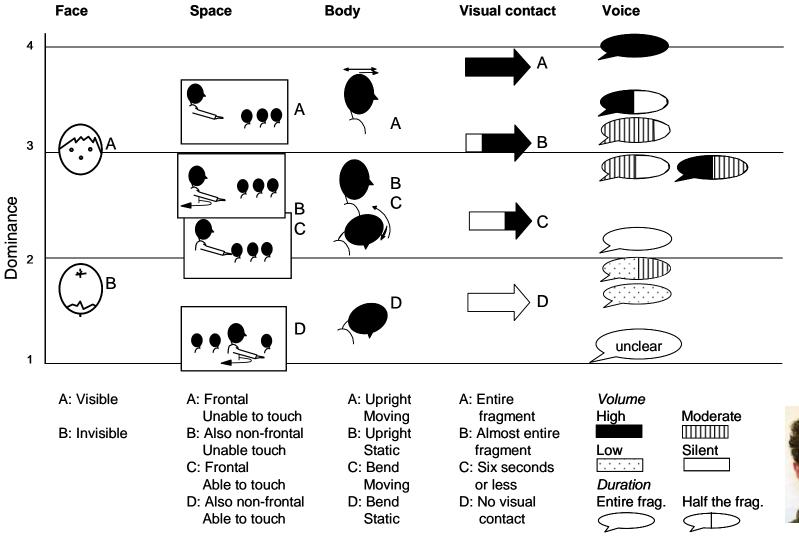
Differences between countries







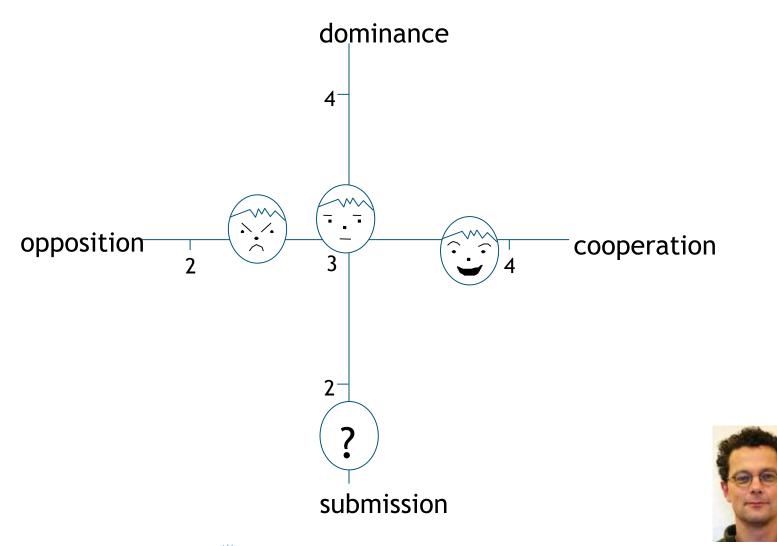
Nonverbal behaviour & influence







Facial expressions

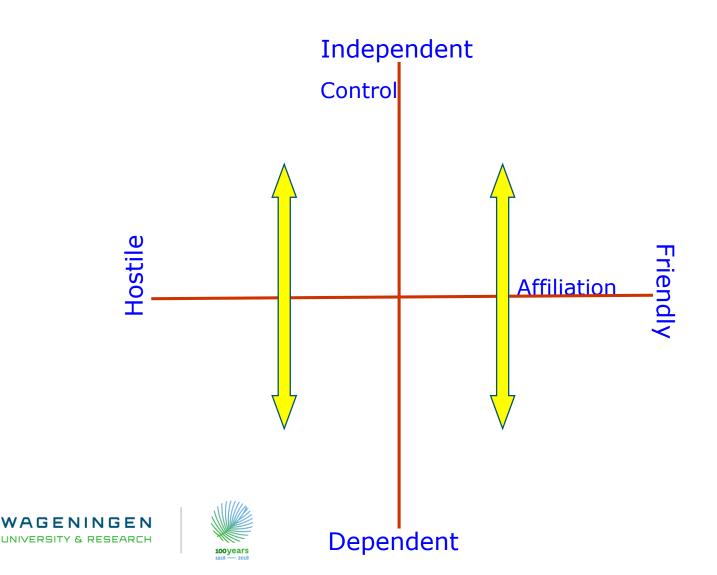




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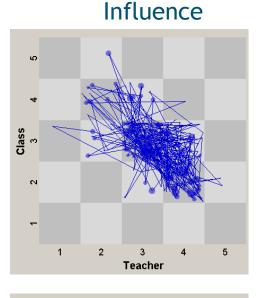
complementarity





A lesson: beginning teacher vs experienced teacher (Pennings e.a., 2011)

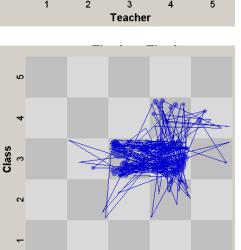
Beginning teacher



ιO Class 3 N

Proximity

3 2 5 Teacher



3

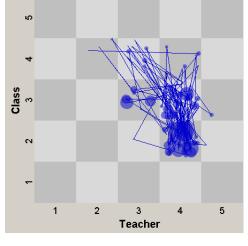
Teacher

5

2



Experienced teacher







Two interpersonal pitfalls

