

What are the future
challenges of higher
education
geoscience in
Norway?

Rie Hjørnegaard Malm

Department of Geosciences
University of Oslo

Anders Mattias Lundmark

Department of Geosciences
University of Oslo



iEarth will promote an engaging, innovative learning environment to educate the next generation of Earth scientist, who must be skilled enough to tackle the twenty-first century's societal challenges through research-based student-active learning and reality based practicals at a national level with strong international collaboration.

- › Creating a national competence centre for earth science education
- › Developing a generic approach to cross-disciplinary earth science education within critical fields of societal relevance: geohazards, resources, energy, environment, climate
- › Establishing a coherent system of evaluation to foster teaching excellence and identify best practice to disseminate worldwide



Baseline survey

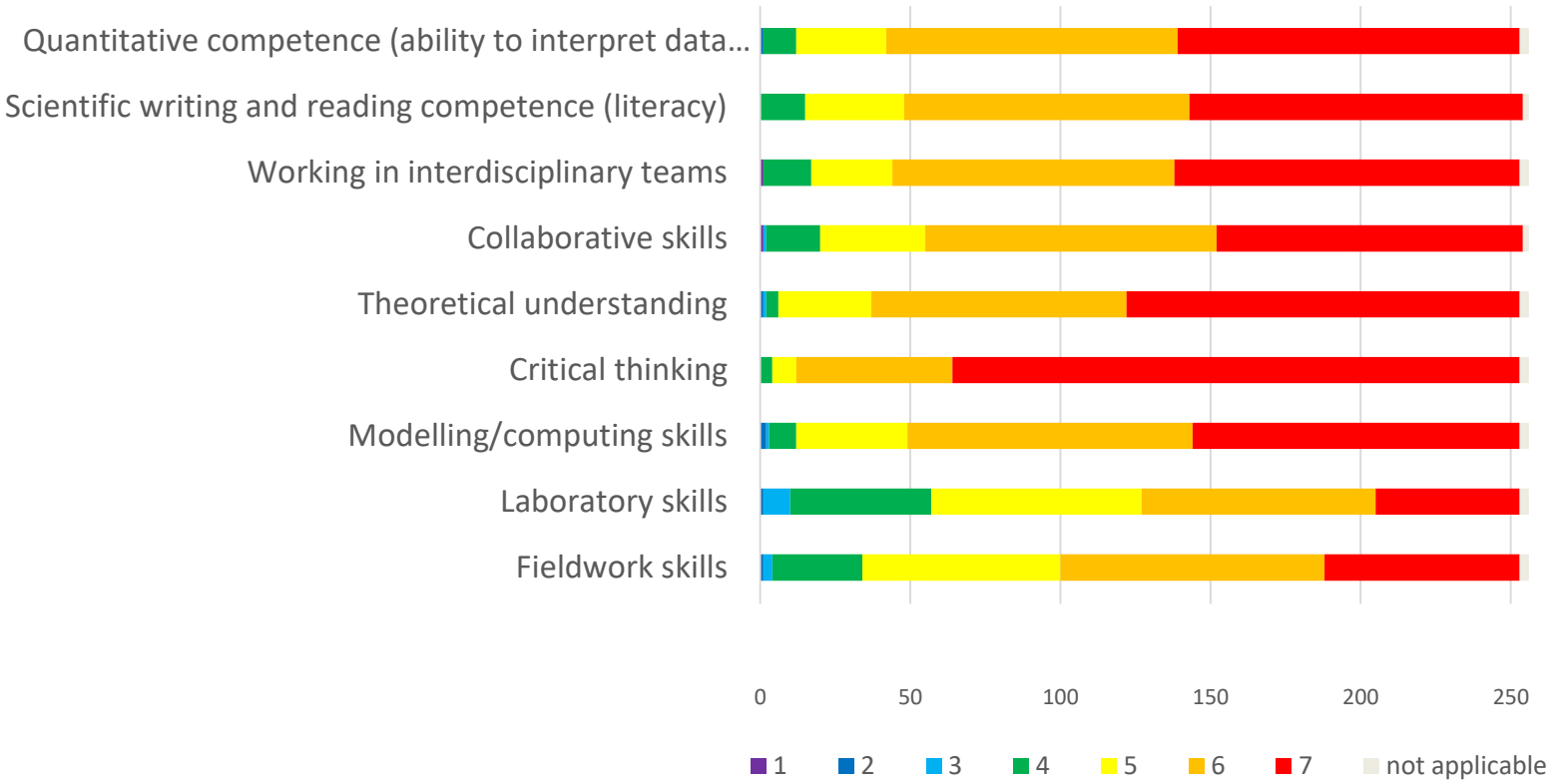
Online questionnaire for researchers, teachers, administrative and technical staff and students

The future of geoscience, teaching, collaboration, feedback and contact with industry

The baseline questionnaire includes 45 questions for teachers

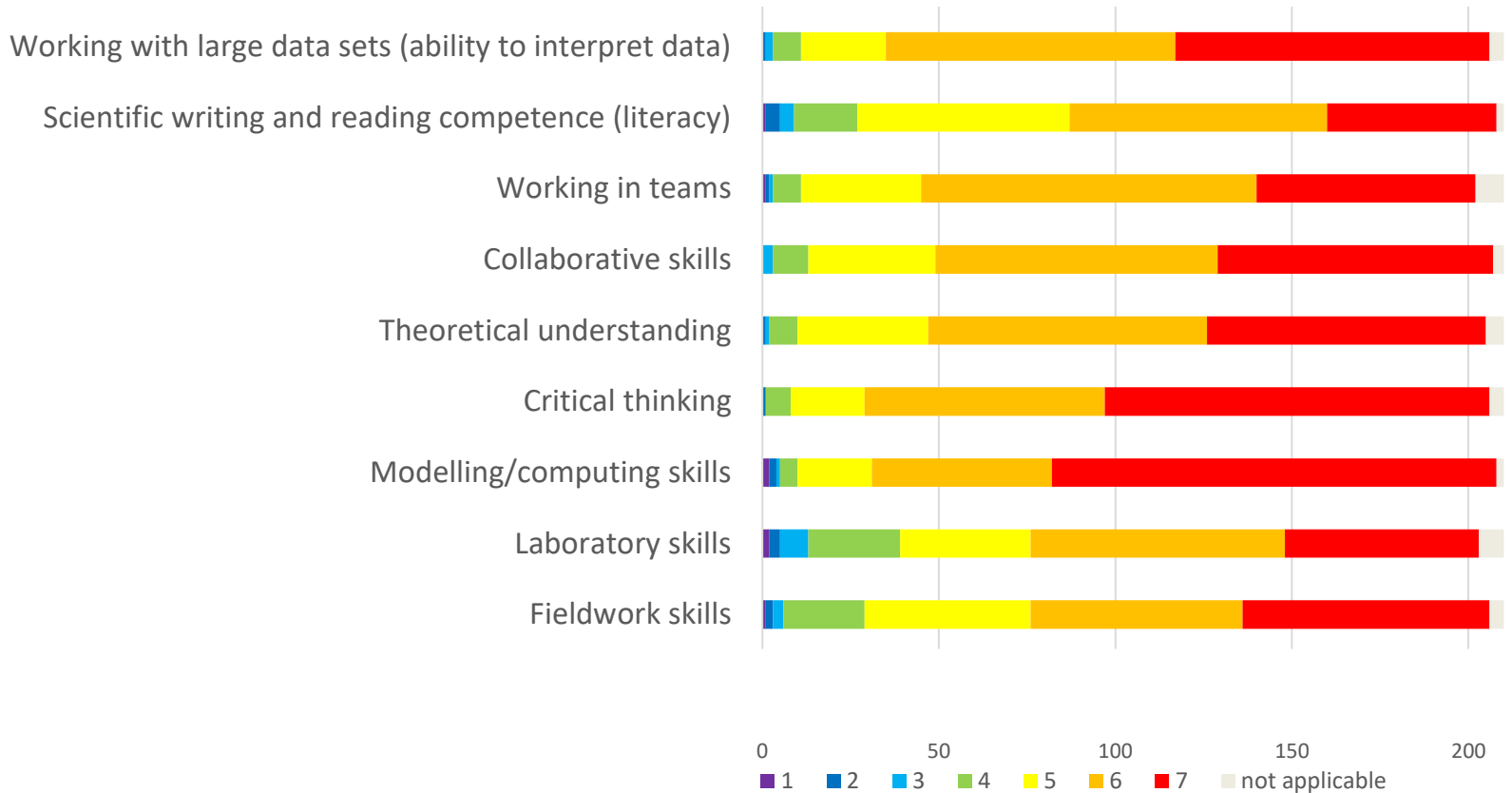
To what extent do you believe the following skills will be important for geoscientists in the future?

Staff n=256



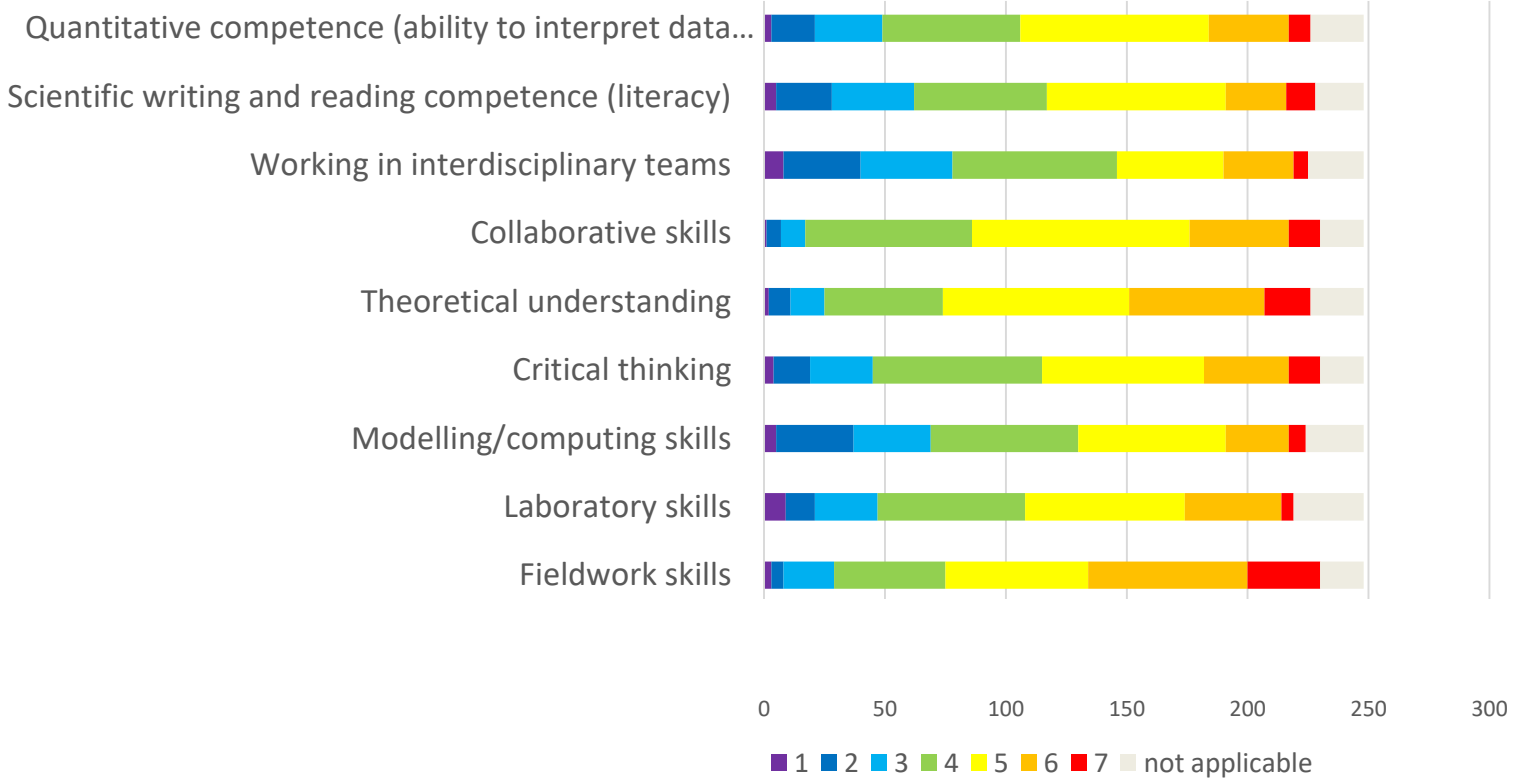
To what extent do you believe the following skills will be important for geoscientists in the future?

Students n=210



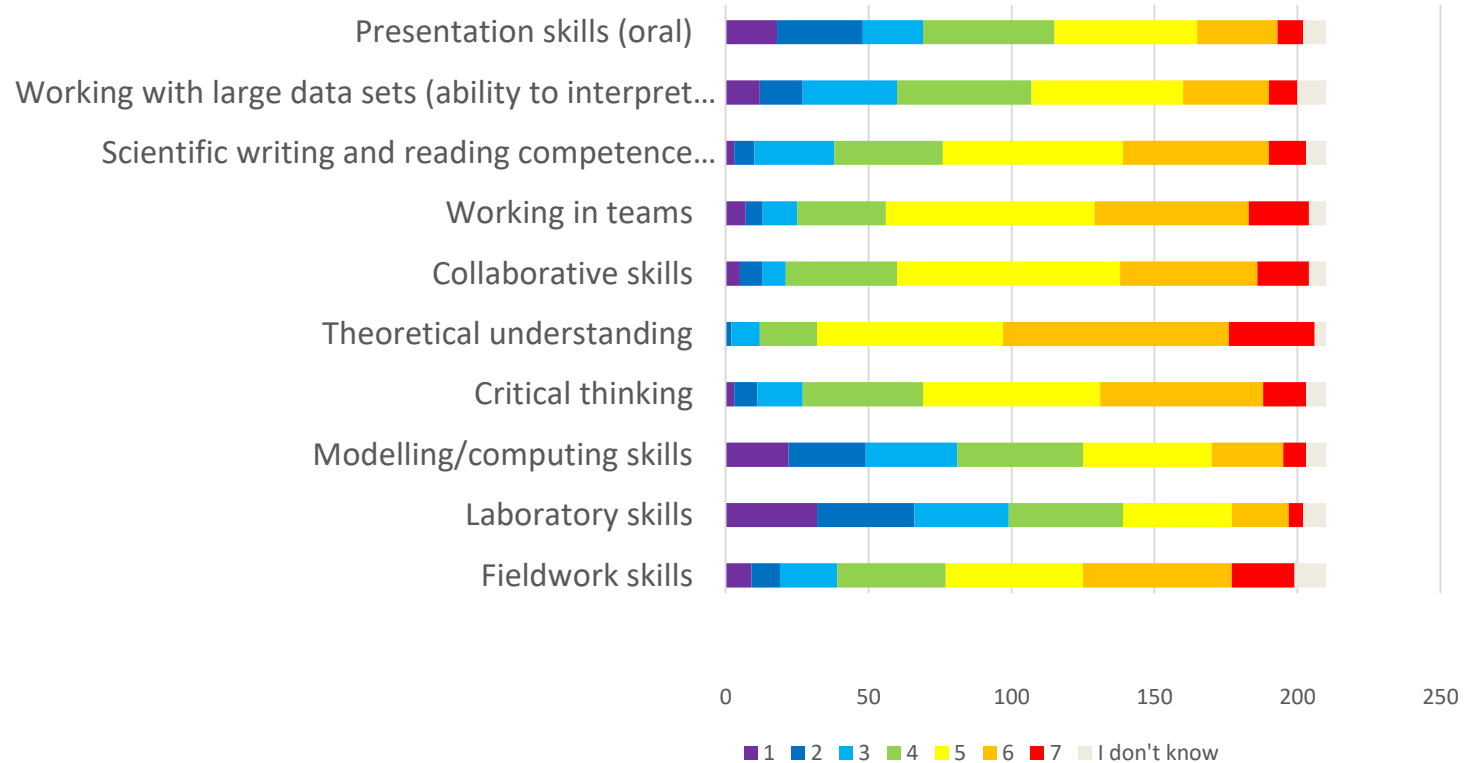
What skills do the students acquire in the programme?

Staff n=256



What skills do you acquire in the programme?

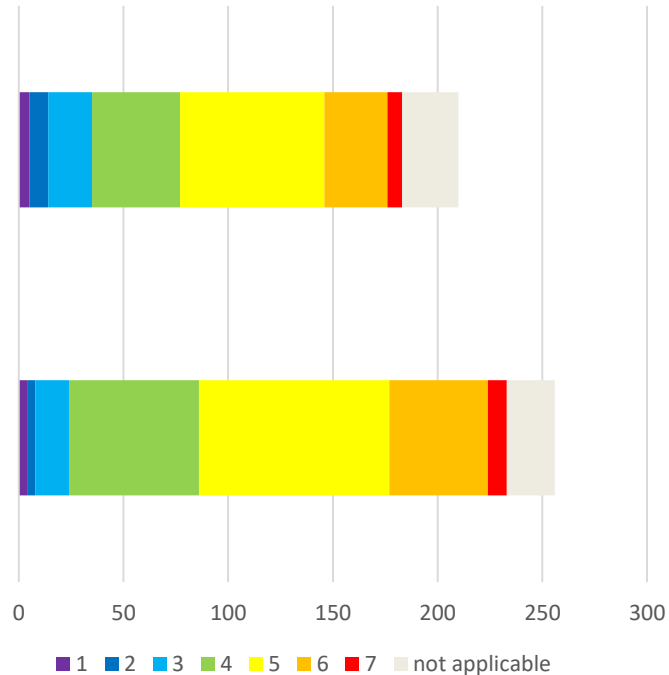
Students n=210



Do we prepare our students for the future?

Students n=210

To what extent does the education prepare you for the future?



Staff n=256

To what extent does the education prepare the students for the future?

Change

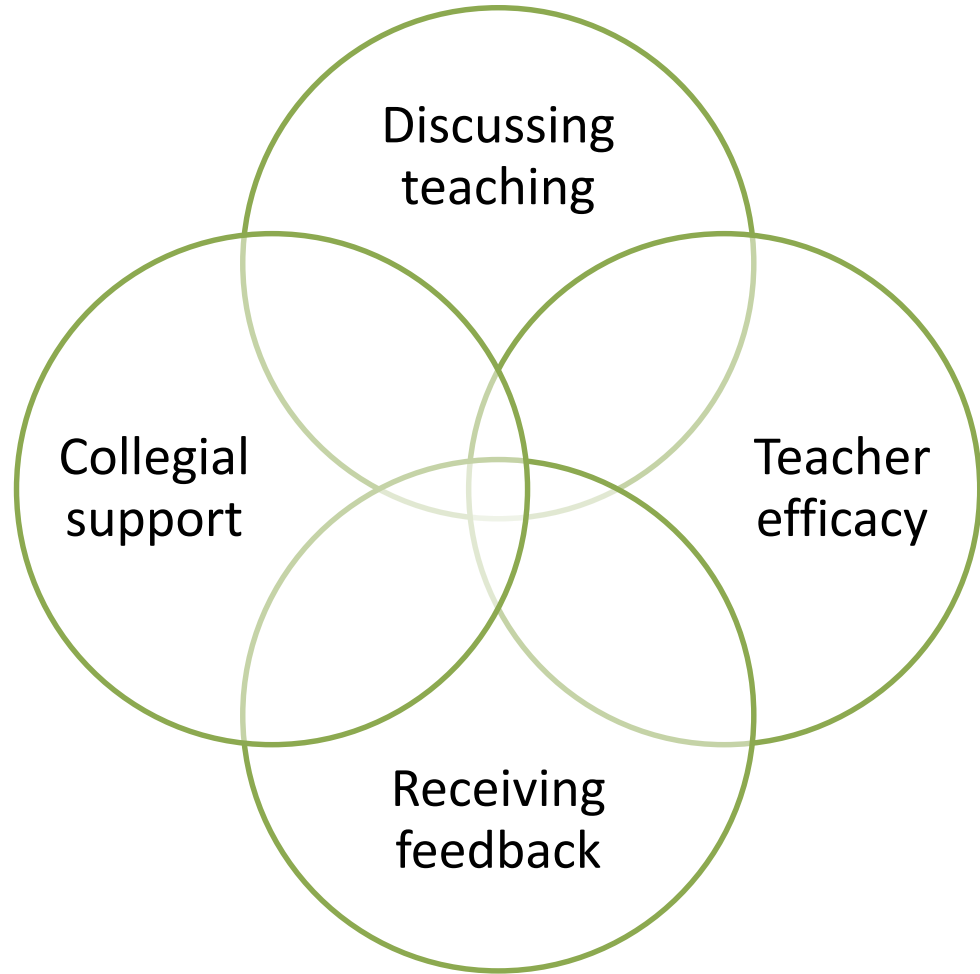
Creating change as a cultural challenge...

The **departmental culture governs** the behaviour of staff and students through norms, tacit knowledge, and implied notions about how research and teaching is performed

Creating change will therefore include a change in **teaching culture**

From individual teachers to collaborating units

Operationalization of teaching culture



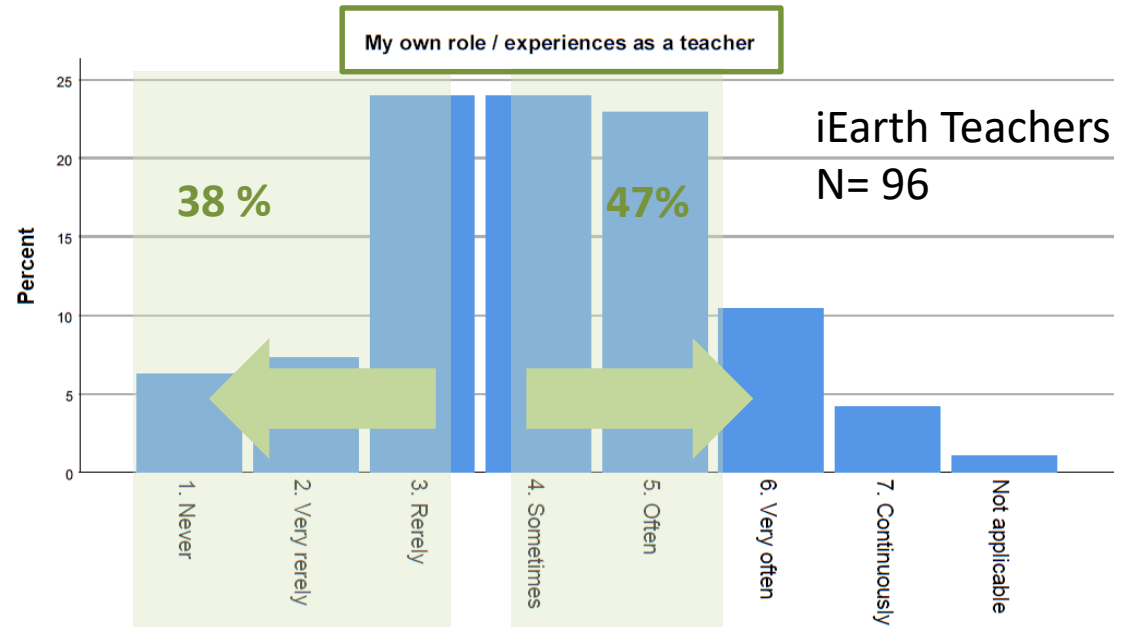
Discussions related to teaching

Question T19: How often do you and your colleagues discuss the following topics related to teaching?

	iEarth Teachers n=96
	Sometimes to Very often
The academic content	75%
Instruction and assessment methods	80%
Practical organization	80%

Discussions related to teaching

Question T19: How often do you and your colleagues discuss the following topics related to teaching?



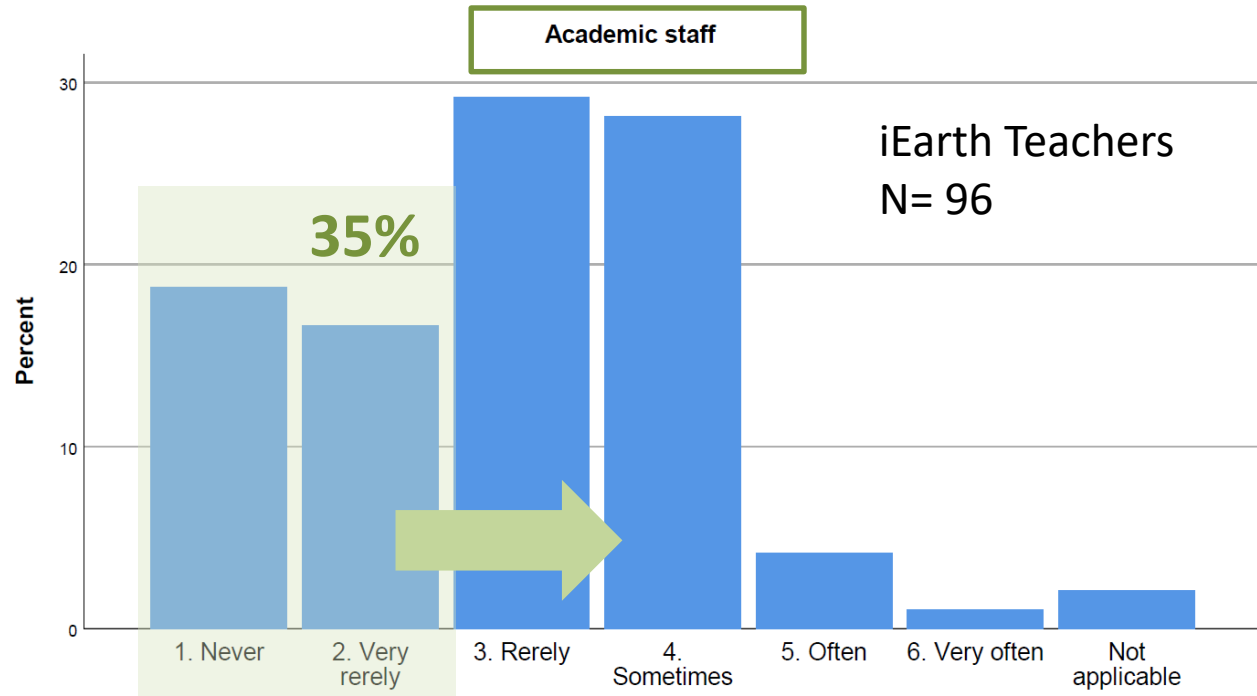
Collegial support in teaching development

Question T20: Please indicate to what extent you agree with the following statements

	iEarth Teachers N= 96
	Agree to Strongly agree
My colleagues are open for new ideas with regards to teaching	31%
My colleagues support me when I want to develop my teaching	38%
My colleagues understand the problems I experience with regards to teaching	42%

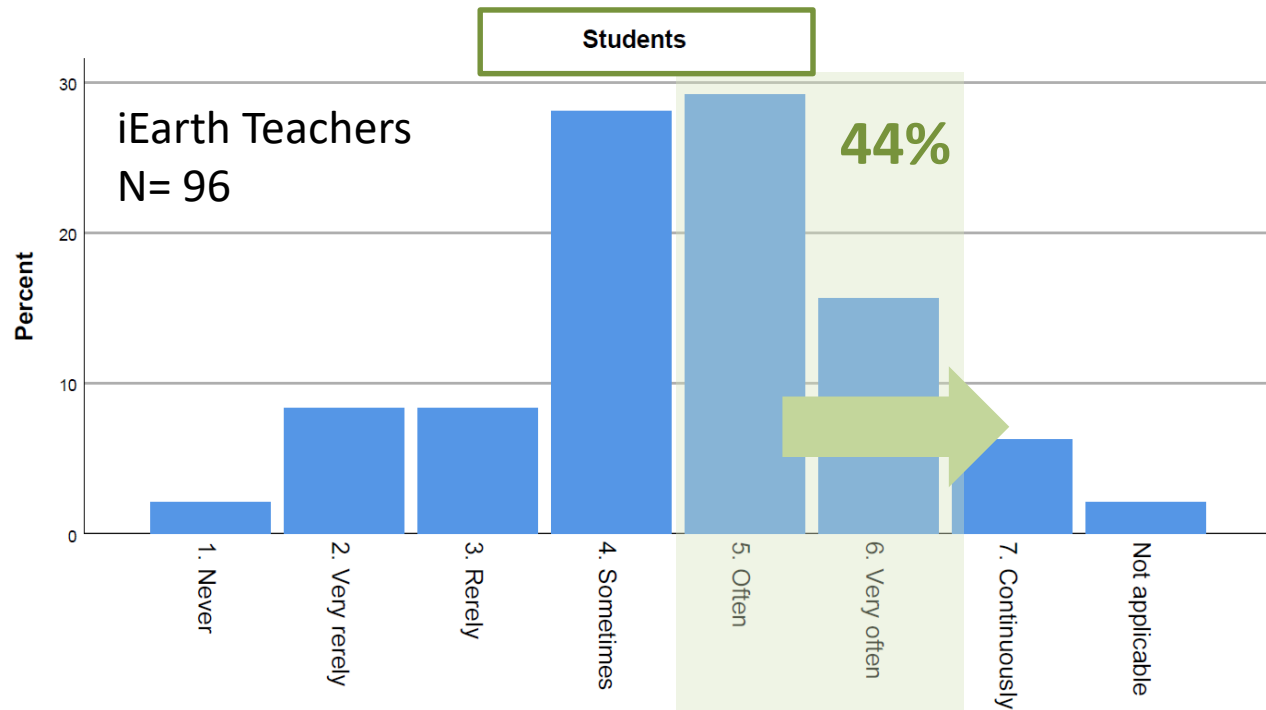
Receiving feedback on your teaching

Question T25: How often do you receive feedback on your teaching from the following groups?



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Rie Hjørnegaard Malm

r.h.malm@geo.uio.no

Department of Geosciences

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