

LEADING APPROACHES FOR LONG-TERM THINKING FOR SUSTAINABLE DEVELOPMENT IN HIGHER EDUCATION AND BUSINESS IN THE NORTH OF NORWAY

OBJECTIVES:

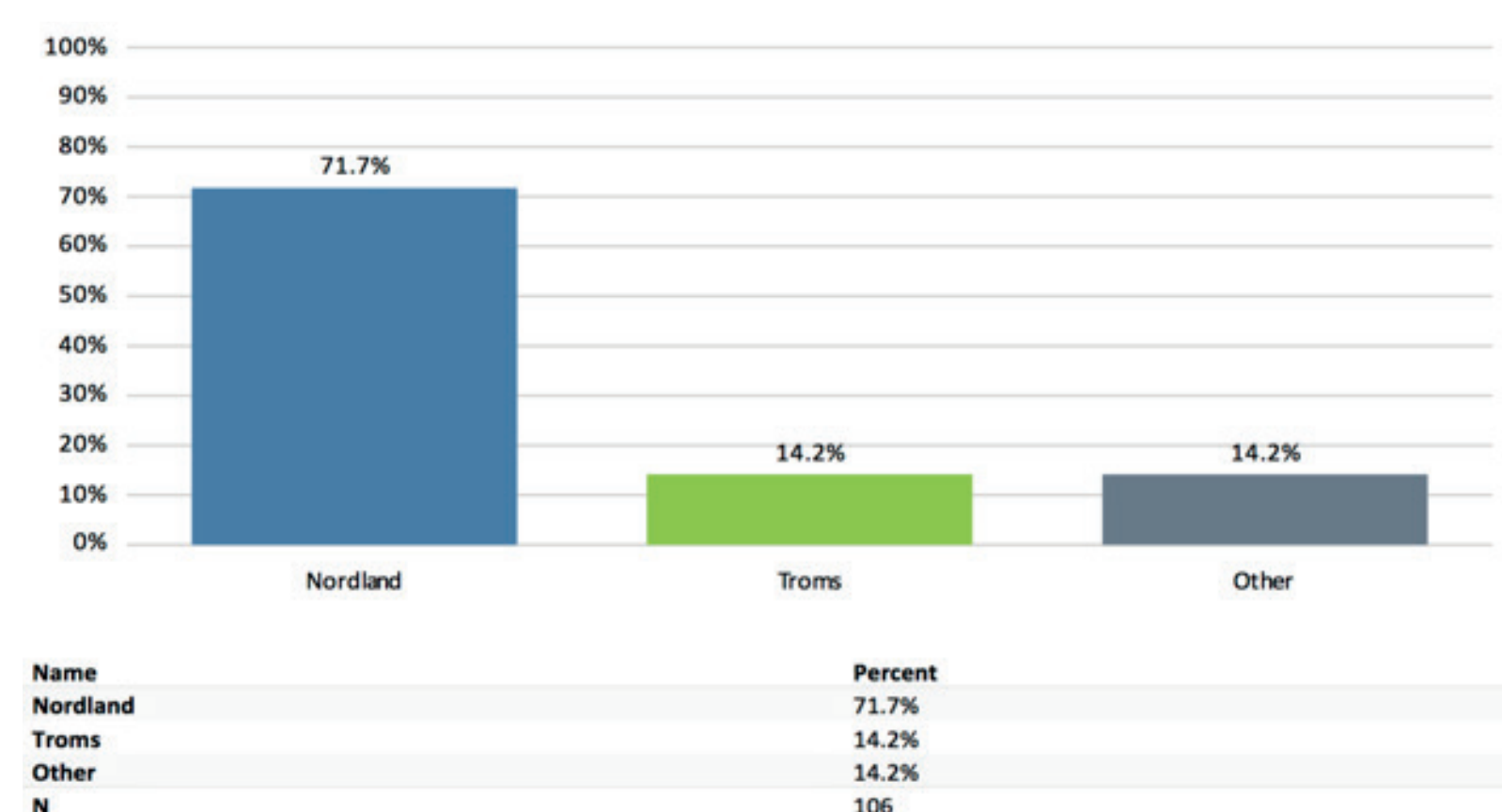
- Identify long-term perspectives in higher education and business based on a context of a green future and beyond
- Explore long-term perspectives on catastrophes
- Develop a platform for long-term thinking in the north of Norway (Nordland)
- Motivation: Need for long-term perspectives for sustainable development in a context with a predominant focus on the oil industry

Method:

Qualitative and quantitative, with interviews and questionnaires, scenario workshops



Class on long-term thinking with MSc. Students March 2016 (Also March 2015)



RESULTS:

- Identification of long-term thinking perspectives in key sectors for the north of Norway
- Design and implementation of module on long-term thinking for Sustainable Development (MSc. Sustainable Management/Energy/Business, year 2015)
- Development of a PhD Course on long-term thinking
- Ongoing platform on long-term thinking for sustainable development in the north

First module on long-term thinking for sustainable development (Academic year 2014/2015 and 2015/2016)

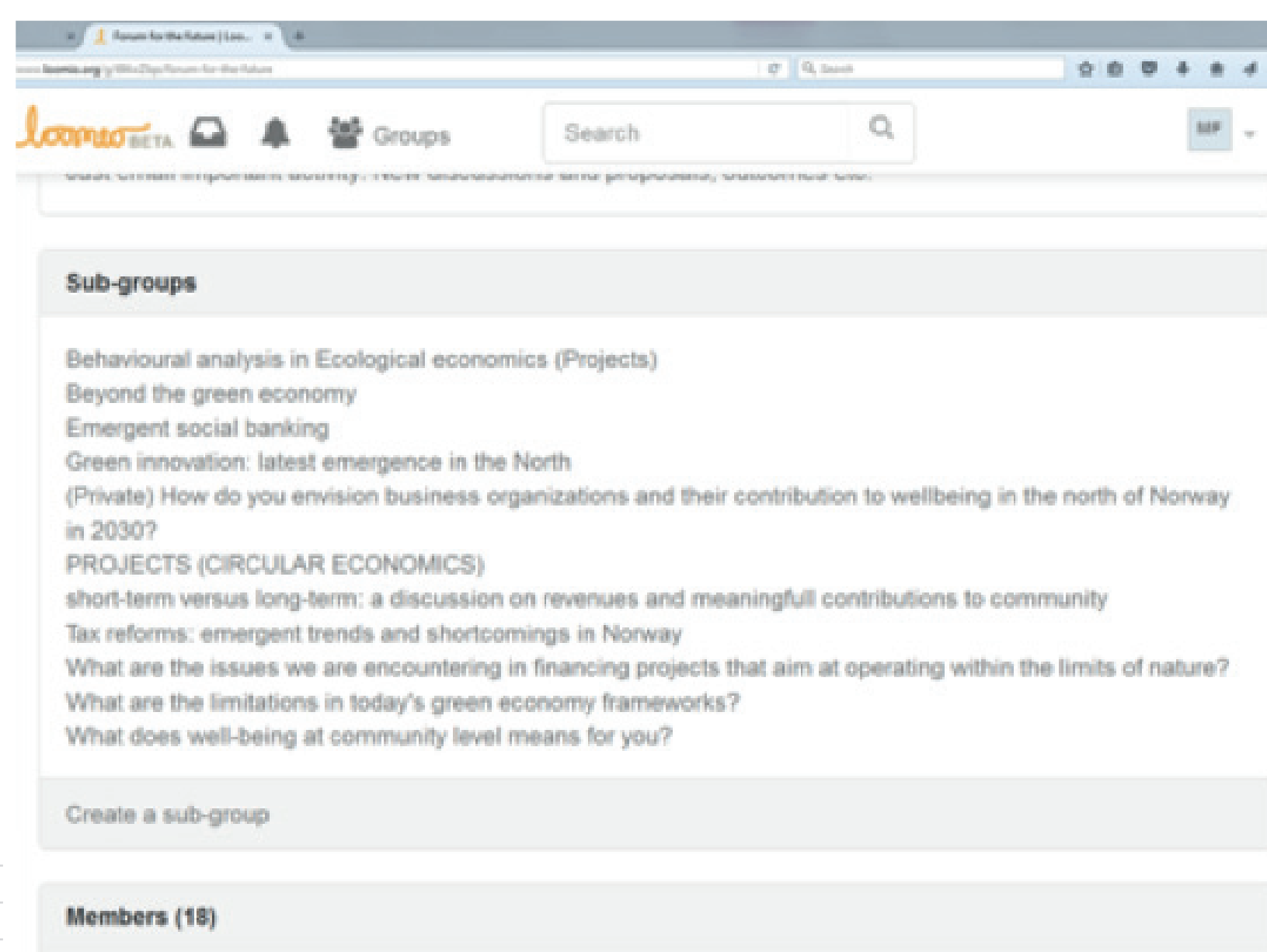
Psycho-social theories, long-term thinking, Tools workshops 2030

FUTURE WORK AND COLLABORATIONS:

- Ongoing platform to develop projects under a vision of Ecological Economics (2016)
- Project: Scenarios for low-carbon in Norway (2016)
- Project: Local development in agriculture (2015-2016)
- Collaboration with UB, ecological thinking (Philosophy and Sustainable development)
- Harvard-IPN (Mexico) - Future of renewable energy project and research strategies

- "It was fascinating...I enjoyed all topics which we discussed during the classes. I got optimistic and realistic experience"
- "I found it interesting because I got knowledge about scenarios, delphi methods and I had opportunity to see the Shell scenarios and IPSS forecast for the future"
- "Useful for future researcher...material can be used in other perspectives...positive providing of material"
- "It was quite interesting, I found a lot of new thoughts for me and I hope I will use it in my future. Long term thinking now increase in all the world. We have to care about this."
- "The class was useful and interesting. I think this information maybe useful and relevant for different types of projects for business students. Thank you"
- "Today's lesson is useful as each lesson. We can add more group work and discussions to develop student's skills"
- "It was really something new for me. A lot of new things which might be useful for me as a future specialist. Thanks, it was great"

Comments from students (2016). Course Ecological Economics, long-term thinking



GTI perspectives

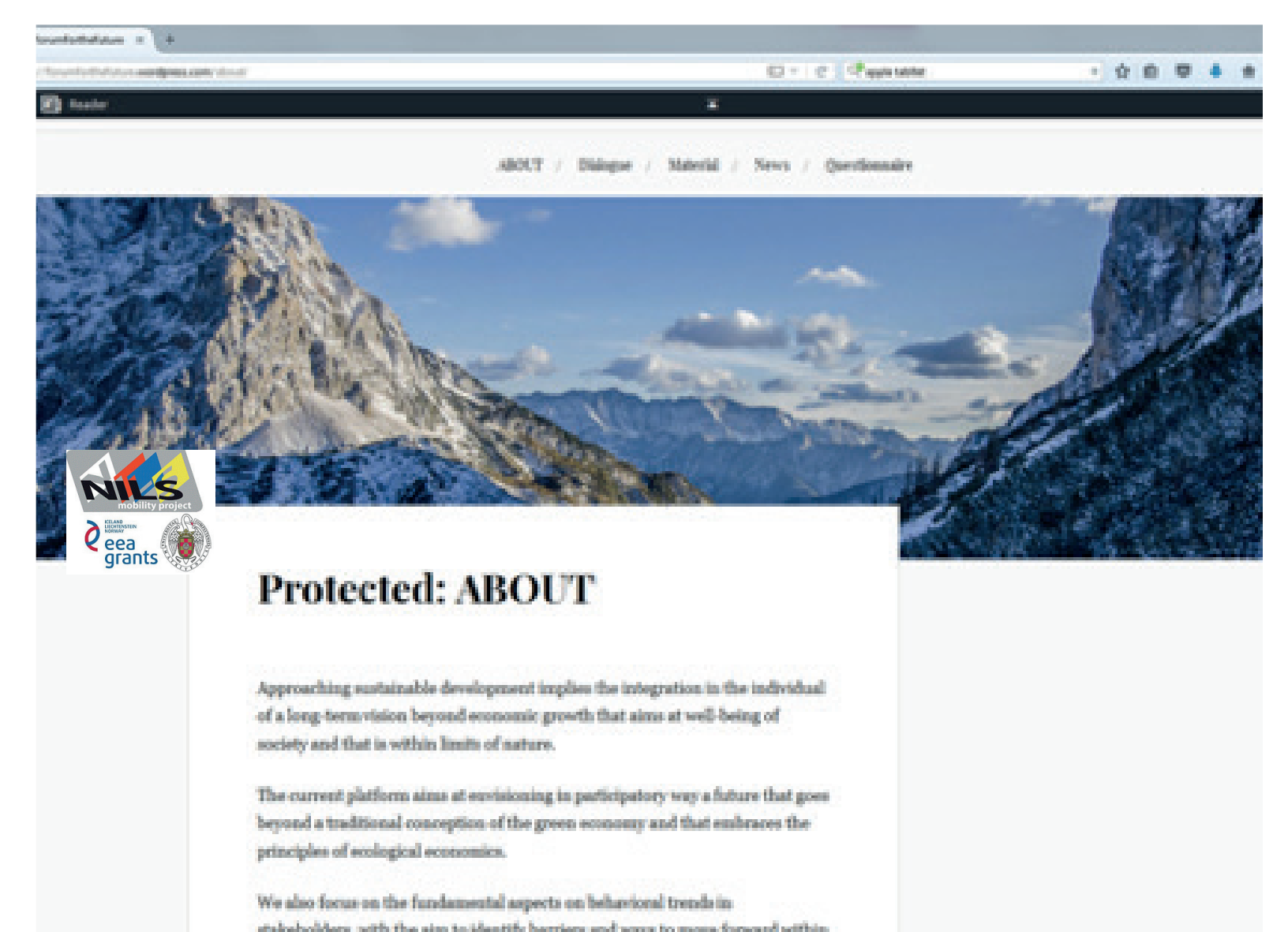
RESULTS:

Publications

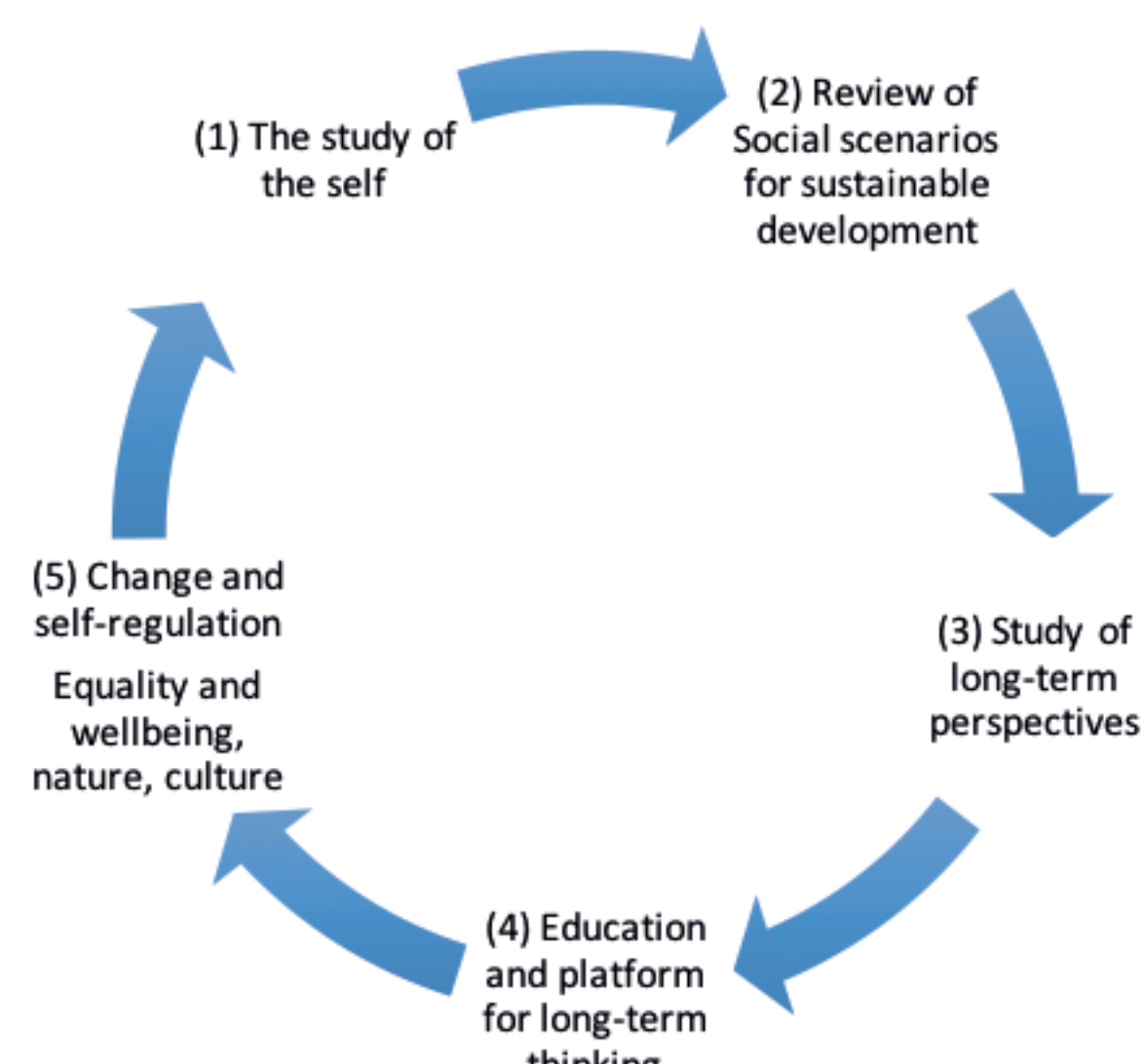
- Fernández-López, M.; Codina, N.; Pestana, J.V. (2016). The prospective vision in the Self for sustainable development. An application in engineering. Futures (sent in September 2016). Forthcoming.
- Fernández-López, M. (2016). Community and technology based sustainable development scenarios for 2030 in the self. A study in higher education. International journal of sustainability in higher education. Forthcoming.
- Fernández-López, M. and Jakobsen, O. (2016). Long-term perspectives and visions in the north of Norway. Ecological Economics. Forthcoming.
- Fernández-López, M. (2016). Long-term perspectives on catastrophic scenarios in the north of Norway. Journal to be determined. Forthcoming.
- Fernandez-Lopez, M.; Piulats, O. (2016). Developing ecological awareness and responsible business. Spirituality, self and an alternative vision of a long-term future. Business and spirituality. Forthcoming (Book chapter).

Conferences

- Fernandez-Lopez, M. Long-term scenarios and self-perspectives. Exploring ethical considerations in the context of technological innovation for wellbeing. Conference FPET 2016.
- Fernández-López, M.; Jakobsen, O. (2016). Long-term perspectives in the north of Norway. Beyond the green economy. 2016 ISEE Conference, Washington DC.
- Fernandez-Lopez, M.; Piulats, O. (2016). Developing ecological awareness and responsible business. Spirituality, self and an alternative vision of a long-term future. Conference SPES 2016. Integral Ecology, earth spirituality and economics.



Platform for long-term thinking



Rational of the project

