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Title: *Saami culture in a changing climate, developing new strategies through a systems modeling*

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The reindeer husbandry central to the Saami culture is facing new challenges associated with a run on mineral resources and energy. There is currently an increased interest in mineral prospecting and mining, wind power production, forestry operations and expansion of tourism in the northern parts of Sweden. The cumulative effects of these different exploitation pressures on traditional grazing lands and the additional effects of anthropogenic climate change will have major impacts on reindeer husbandry. Group modelling identified risks associated with the current, near exclusive, focus on reindeer herding as the main carrier of Saami social identity. There is a need for approaches like the development of higher Saami educational institutions and other measures to to strengthen and develop Saami identity to secure a broader base for Saami cultural survival in face of possibly unprecedented environmental change. Modelling identified the need to include a wider sustainability perspective on environmental policy, i.e. also include economic and social aspects, if it is to achieve local legitimacy and it's objectives in northern Sweden.