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Shu-Nu Chang-Rundgren, Prof. Karlstad University



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Large National Swedish study investigating ESD-implementation at:

- School leader level
- Teacher level
- Student level (outcomes and experiences)



Large National Swedish study investigating ESD-implementation at:

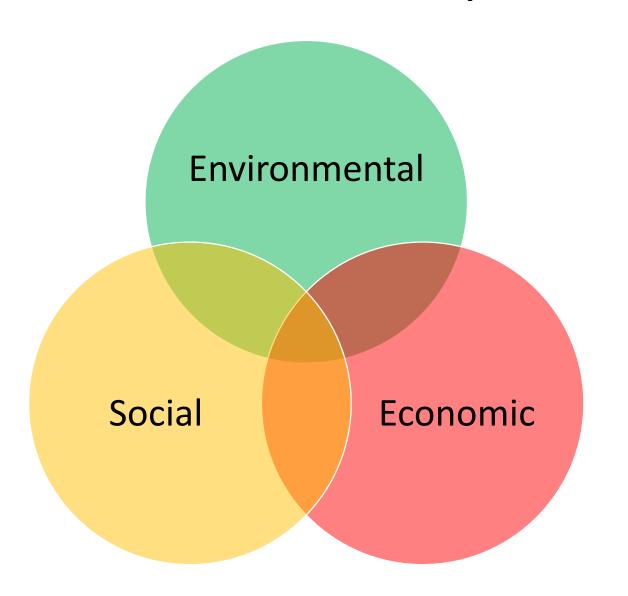
- School leader level
- Teacher level
- Student level (outcomes and experiences)



Sustainability Consciousness Questionnaire

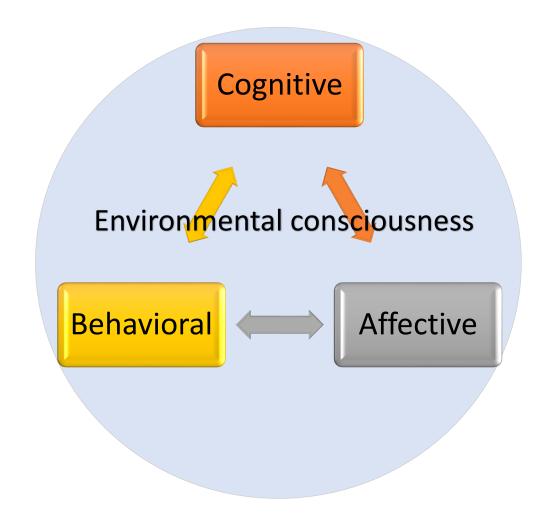
SCQ-S

Sustainable development



Environmental consciousness





(e.g. Ajzen, 1991: Ajzen & Fishbein, 1980; Hines et al 1986)

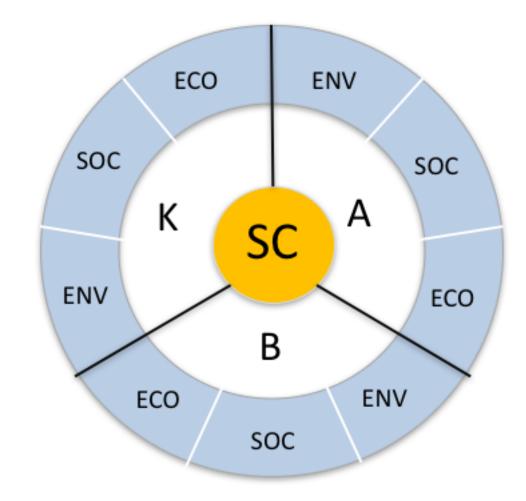
(e.g. Jiménez Sanchez & Lafuente, 2010; Kollmuss & Agyeman, 2002; Jensen & Schnack, 1997)

Sustainability Consciousness (SC)

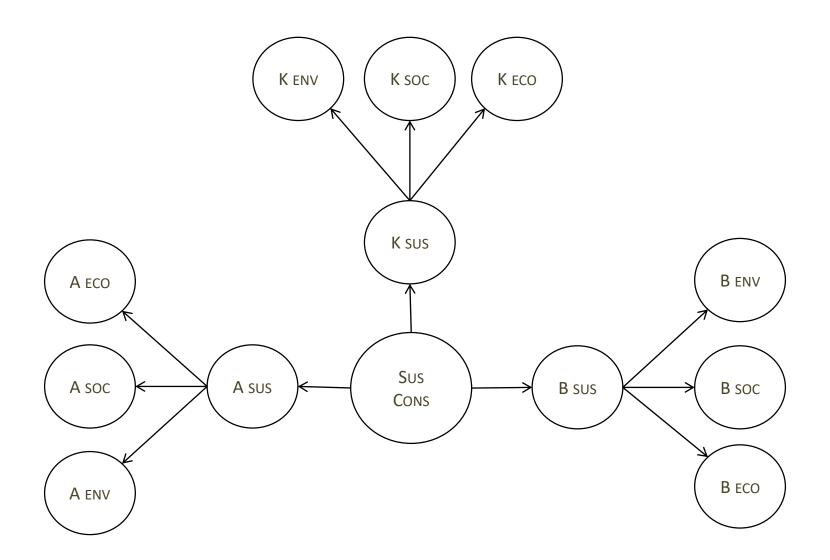
K: Knowingness

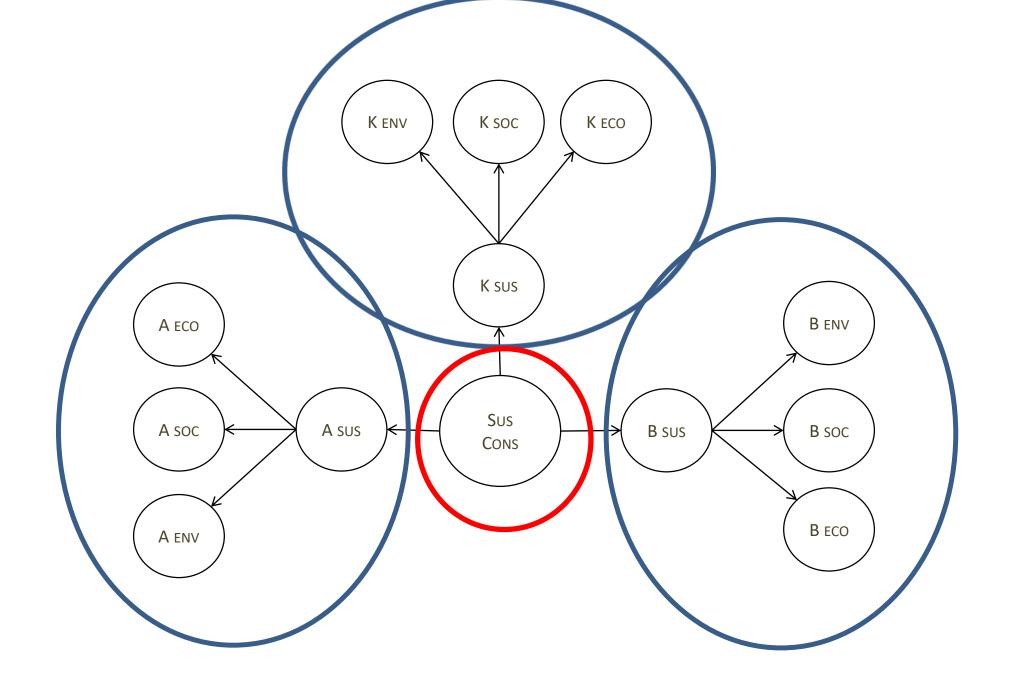
A: Attitudes

B: Behaviors



(UNESCO, 2006; Jiménez Sanchez & Lafuente, 2010; Kollmuss & Agyeman, 2002: "Environmental consciousness"; Jensen & Schnack, 1997; "The theory of environmental action competence")





Sustainability Consciousness Questionnaire

	K	A	В	Total
Env	3	3	3	9
Eco	3	3	3	9
Soc	3	3	3	3
	9	9	9	27

Sustainability consciousness

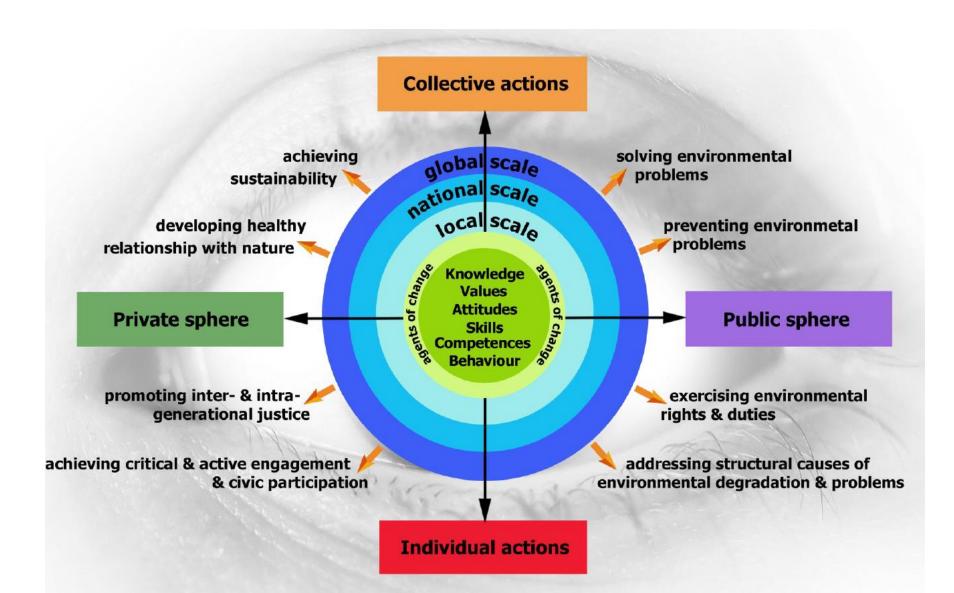
Example items

 Preserving the variety of living creatures is necessary for sustainable development (preserving biological diversity) (ENV K)

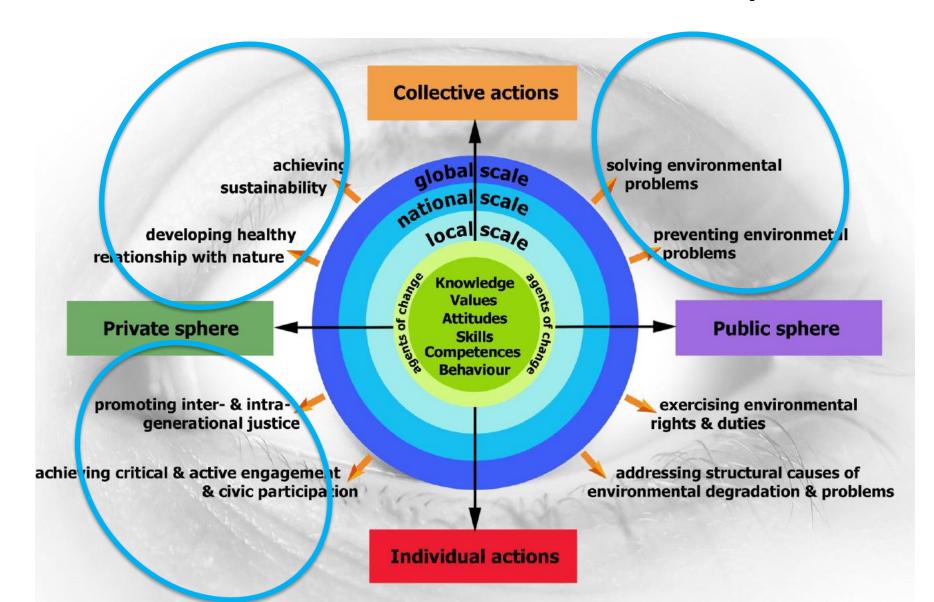
• I think that companies in rich countries should give employees in poor nations the same conditions as in rich countries (ECO A)

• I treat everyone with the same respect, even if they have another cultural background than mine (SOC B)

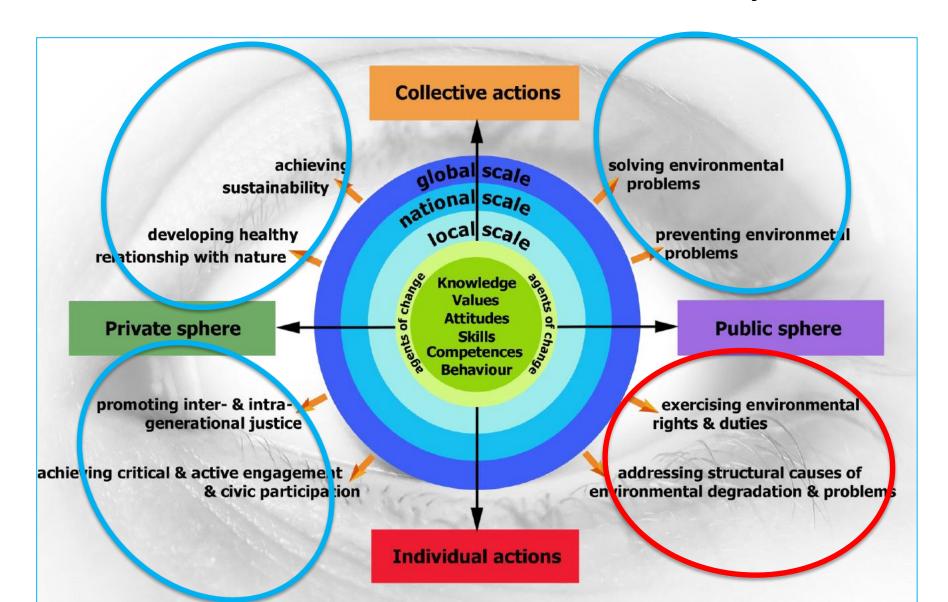
Environmental Citizenship



Environmental Citizenship



Environmental Citizenship



Publications

- Gericke, N., Boeve-de Pauw, J., Berglund, T. & Olsson, D. (2019). The Sustainability Consciousness Questionnaire: The theoretical development and empirical validation of an evaluation instrument for stakeholders working with sustainable development. Sustainable Development, 27(1), 35–49. DOI: 10.1002/sd.1859.
- Olsson, D., Gericke, N., Boeve-de Pauw, Berglund, T. & Chang, T. (2019). Green schools in Taiwan Effects on student sustainability consciousness. Global Environmental Change, 54, 184-194.
- Olsson, D. & Gericke, N. (2017). The Effect of Gender on Students' Sustainability Consciousness: A Nationwide Swedish Study. The Journal of Environmental Education, 48 (5), 357–370. doi.org/10.1080/00958964.2017.1310083.
- Berglund, T., & N. Gericke, N. (2016). Separated and integrated perspectives on environmental, economic, and social dimensions an investigation of student views on sustainable development. Environmental Education Research, 22, (8), 1115–1138, DOI: 10.1080/13504622.2015.1063589
- Olsson, D., & Gericke, N. (2016). The adolescent dip in students' sustainability consciousness. The Journal of Environmental Education, 47(1), 35-51 DOI:10.1080/00958964.2015.1075464.
- Olsson, D., Gericke, N. & Chang Rundgren, S. N. (2016). The effect of implementation of education for sustainable development in Swedish compulsory schools assessing pupils' sustainability consciousness, Environmental Education Research. 22, (2), 176–202, DOI: 10.1080/13504622.2015.1005057
- Boeve-de Pauw, J. Gericke, N., Olsson, D., & Berglund, T. (2015). The Effectiveness of Education for Sustainable Development. Sustainability, 7, 15693-15717. DOI:10.3390/su71115693
- Berglund, T., Gericke, N. & Chang Rundgren, S. N. (2014). The Implementation of Education for Sustainable
 Development in Sweden: Investigating the Sustainability Consciousness among Upper Secondary Students. Research in
 Science & Technological Education, Vol. 32, No. 3, 318–339.

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Education for Sustainable Development: A Longitudinal Implementation Study

New ongoing project in Karlstad