

Kristina Blennow Forests and Climate Change: Adaptation Initiatives and New Management Practices Nancy France 9 March 2017

Climate change and forests - strategies for the adequacy of communications

Kristina Blennow Swedish University of Agricultural Sciences, Alnarp



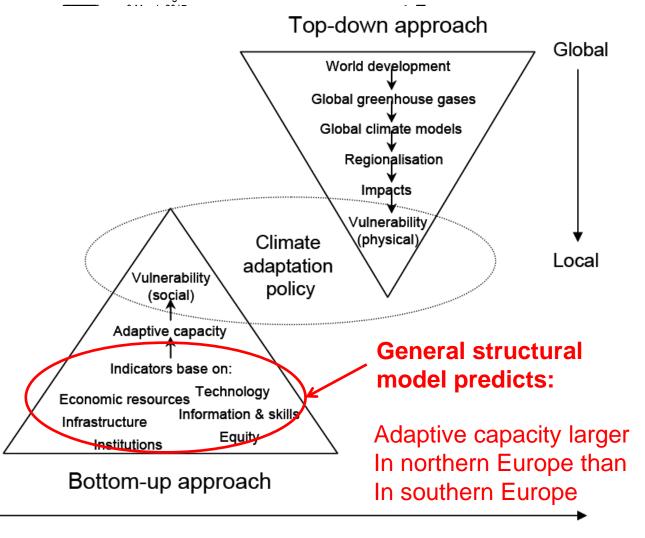
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Did he take measures to adapt to climate change?



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Modified from Dessai S & Hulme M, 2003. Does climate policy nee probabilities? Tyndall Centre Working Paper No. 34, UK

Past Present Future



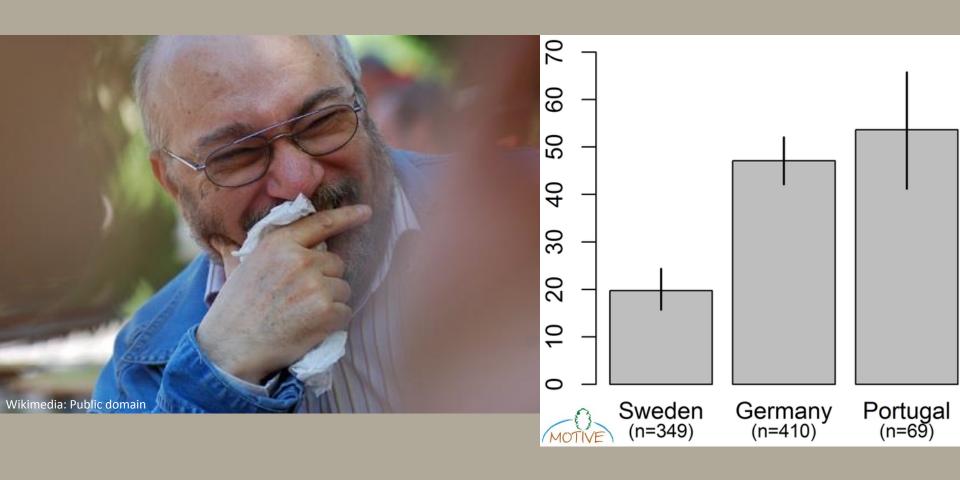
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Did take measures to adapt forest management to climate change



Blennow K, Persson J, Tomé M, Hanewinkel M (2012) Climate Change: Believing and Seeing Implies Adapting. PLoS ONE 7(11): e50182. doi:10.1371/journal.pone.0050182 http://www.plosone.org/article/info:doi/10.1371/journal.pone.0050182



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Accurately explains and predicts adaptation to climate change:

- Strength of belief in the local effects of climate change?
- Strength of belief in having eperienced effects of climate change?

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Risk perception –

crucial for explaining and predicting forest adaptation decisions!

Blennow K, Persson J, Wallin A, Vareman N, Persson E (2014) Understanding risk in forest ecosystem services: implications for effective risk management, communication and planning. *Forestry, 87:219-228*



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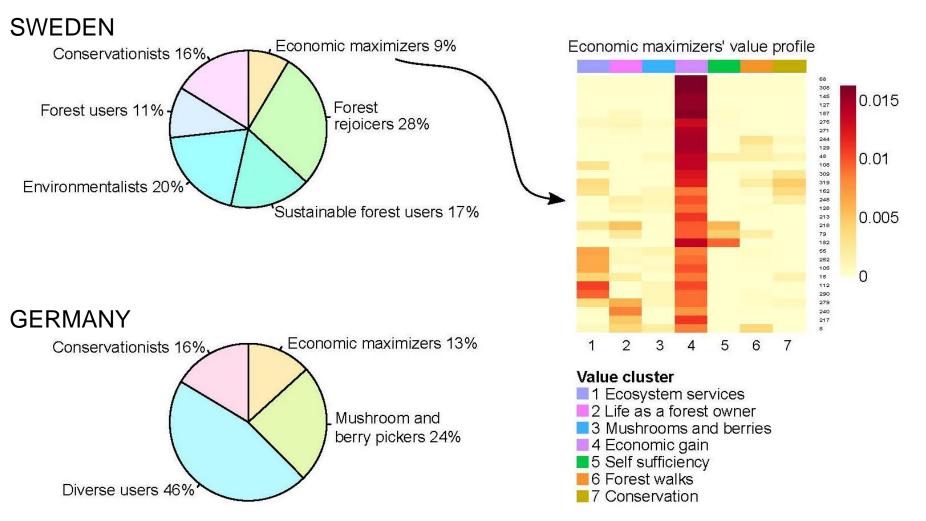
Storm Gudrun 2005 75 Mm³ -- almost an annual harvest in Sweden







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Blennow, K., Persson, J., Persson, E., Hanewinkel, M., 2016. Forest Owners' Response to Climate Change: University Education Trumps Value Profile. *PLOS ONE*, 11(5): e0155137.



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Adequate communication:

contains the information needed for effective decision making and,

the users can access and comprehend it.



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Forest owner value profiles do not exert a stronger influence on risk perception than university education does

- No reason to rule out education as a means of fostering understanding in forest owners who can learn about and adapt their decision-making to a changing world.

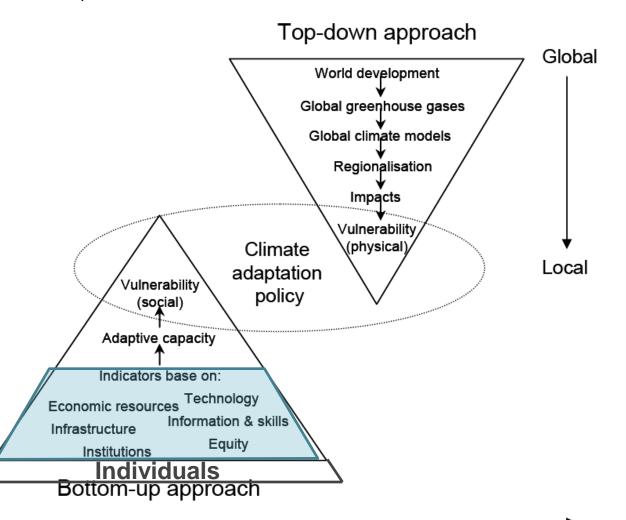
Help the forest owners experience climate change by monitoring, sharing the information and providing real-world examples to learn from.

Blennow K, Persson J, Persson E, Hanewinkel M (2016) Forest Owners' Response to Climate Change: University Education Trumps Value Profile.

PLOS ONE, 11(5): e0155137. doi: http://dx.doi.org/10.1371/journal.pone.0155137



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Understanding risk to enable developing standards for the adequacy of communications

- Information on beliefs and desires
- Knowledge of heuristics
- Open environment to promote learning
- Consider knowledge risk
- Consider the distribution of risk and benefit



Blennow, K., Persson, J., Wallin, A., Vareman, N. & Persson, E., 2014. Understanding risk in forest ecosystem services: implications for effective risk management, communication and planning. *Forestry*. 87:219-228. doi: 10.1093/forestry/cpt032 http://forestry.oxfordjournals.org/content/early/2013/10/08/forestry.cpt032



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Thank you!