



**Literature for MESS18, Sustainability Science applies from  
autumn semester 2023**

Literature established by The Board of the Lund University Centre for  
Sustainability Studies on 2023-06-07 to apply from 2023-06-07

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See appendix.



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MESS18 LITERATURE LIST

2023-06-07

Dnr STYR 2023/1235

## Hållbarhetsvetenskap, 7,5 högskolepoäng

*Sustainability Science, 7.5 credits*

MESS18 litteraturlista fastställd av LUCSUS styrelse den 7 juni 2023.

### *Course literature*

Biggs, R., Clements, H., de Vos, A., Folke, C., Manyani, A., Maciejewski, K., Martín-López, B., Preiser, R., Selomane, O. & Schlüter M. (2021). What are social-ecological systems and social-ecological systems research? *The Routledge Handbook of Research Methods for Social-Ecological Systems*. (3-26). Routledge. (24)

Burkhard, B. & Müller, F. (2008). Encyclopedia of Ecology Ecological Indicators: Driver–Pressure–State–Impact–Response, *Elsevier*. 2, 967-970. (4)

Caniglia, G., Freeth, R., Luederitz, C., J. Leventon, West, S.P., John, B., D. Peukert, Lang, D.J., von Wehrden, H., Martín-López, B., Fazey, I., Russo, F., von Wirth, T., Schlüter M., & Vogel, C. (2023). Practical wisdom and virtue ethics for knowledge co-production in sustainability science. *Nat Sustain*. <https://doi.org/10.1038/s41893-022-01040-1> (9)

Cash, D.W., Clark, W.C., Alcock, F., Dickson, N.M., Eckley, N., Guston, D.H., Jäger, J. & Mitchell R.B. (2003). Knowledge systems for sustainable development. *Proceedings of the National Academies, USA*, 100(14), 8086-8091. <https://doi.org/10.1073/pnas.1231332100> (6)

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Fazey, I., Schöpke, N., Caniglia, G. *et al.* (180 additional authors) (2020). Transforming knowledge systems for life on Earth: Visions of future

systems and how to get there. *Energy Research and Social Science*, 70(01724), 1-18. <https://doi.org/10.1016/j.erss.2020.101724> (18)

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<https://commonplace.knowledgefutures.org/pub/6qqfgms5/release/1> (16)

Geels, F.W. (2019). Socio-technical transitions to sustainability: a review of criticisms and elaborations of the Multi-Level Perspective. *Current Opinion in Environmental Sustainability*, 39, 187–201.

<https://doi.org/10.1016/j.cosust.2019.06.009> (14)

Gibson, C.C., Ostrom, E. & Ahn, T.K. (2000). The concept of scale and the human dimensions of global change: a survey. *Ecological Economics*, 32, 217–239. [https://doi.org/10.1016/S0921-8009\(99\)00092-0](https://doi.org/10.1016/S0921-8009(99)00092-0) (22)

Jerneck, A., Olsson, L., Ness, B., Anderberg, S., Baier, M., Clark, E., Hickler, T., Hornborg, A., Kronsell, A., Eva Lövbrand, E. & Persson, J. (2011). Structuring sustainability science. *Sustainability Science*, 6, 69-82. <https://doi.org/10.1007/s11625-010-0117-x> (13)

Kates, R.W., Clark, W.C., Corell, R., Hall, J.M., Jaeger C.C., Lowe, I., McCarthy, J., Schellnhuber, H.J., Bolin, B., Dickson, N.M., *et al.* (2001). Sustainability Science. *Science*, 292(5517), 641-2. <https://www.jstor.org/stable/3083523> (2)

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Lonkila, A. & Minna Kaljonen, M. (2022). Ontological struggle over new product category: Transition potential of meat alternatives, *Environmental Innovation and Societal Transitions*, 42, 1-11. <https://doi.org/10.1016/j.eist.2021.11.002> (11)

Loorbach, D., Frantzeskaki, N., & Avelino, F. (2017). Sustainability transitions research: transforming science and practice for societal change. *Annu. Rev. Environ. Resour.* 42(1), 599–626. <https://doi.org/10.1146/annurev-environ-102014-021340> (27)

Mahmoud, M., Liu, Y., Hartmann, H., Stewart, S., *et al.* (2009). A formal framework for scenario development in support of environmental decision-making. *Environmental Modelling & Software* 24(7), 798–808. <https://doi.org/10.1016/j.envsoft.2008.11.010> (11)

Meadows, D. (2008). *Thinking in Systems: A Primer*, Chelsea Green. (218)

Ostrom, E. (2009). A General Framework for Analyzing Sustainability of Social-Ecological Systems. *Science*, 325(24 July), 419-422. <https://www.jstor.org/stable/20536694> (4)

Partelow, S., Glaser, M., Solano Arce, S., Sá Leitão Barboza, R., & Schlüter, A. (2018). Mangroves, fishers, and the struggle for adaptive comanagement: applying the social-ecological systems framework to a marine extractive reserve (RESEX) in Brazil. *Ecology and Society*, 23(3). <https://doi.org/10.5751/ES-10269-230319> (19)

Raudsepp-Hearne, C., Peterson, G.D., Bennett, E.M. *et al.* (2020). Seeds of good anthropocenes: developing sustainability scenarios for Northern Europe. *Sustainability Science*, 15, 605–617. <https://doi.org/10.1007/s11625-019-00714-8> (12)

Spangenberg, J. H. (2011). Sustainability science: a review, an analysis and some empirical lessons. *Environmental Conservation*, 38(3), 275–287. <https://doi.org/10.1017/S0376892911000270> (12)

Spanò, M., Gentile, F., Davies, C., Laforteza, R. (2017). The DPSIR framework in support of green infrastructure planning: A case study in Southern Italy, *Land Use Policy*, 61, 242-250. <https://doi.org/10.1016/j.landusepol.2016.10.051> (9)

Törnberg, A. (2021). Prefigurative politics and social change: a typology drawing on transition studies. *Journal of Social Theory*, 22(1), 83-107. <https://doi.org/10.1080/1600910X.2020.1856161> (24)

Wiek, A. & Iwaniec, D. (2014). Quality criteria for visions and visioning in sustainability science. *Sustainability Science*, 9, 497–512. <https://doi.org/10.1007/s11625-013-0208-6> (15)

*Total number of pages (req'd reading)*

500

*Author gender balance*

The authors I guess as self-identifying as female are denoted in blue.