

CURRICULUM VITAE

Name	Doris Virág, MA, MSc (nee Fröhlich), born 9 th September 1988	
Academic Qualification	<p><i>Mater of Science, MSc</i> Social and Human Ecology, Alpen-Adria University (2019)</p> <p><i>Master of Arts in Business, MA</i> International Marketing Management, FH OOE Campus Steyr (2012)</p> <p><i>Bachelor of Arts in Business, BA</i> Business Management, FH Kufstein Tirol (2010)</p> <p><i>High school diploma</i> Bundeshandelsakademie Grazbachgasse (2007)</p>	
Affiliation	<p><i>PhD Candidate/Researcher</i> Institute of Social Ecology, University of Natural Resources and Life Sciences, Vienna</p>	
Description	<p><i>Doris Virág, MA, MSc</i> is a researcher at the Institute of Social Ecology at the University of Natural Resources and Life Sciences (BOKU) Vienna. Her research focusses on society-nature interactions and their interdependences. She works on understanding social metabolism, in particular the role of material stocks and material and energy flows and on assessing the potentials of Circular Economy strategies for achieving a future with more sustainable resource use patterns.</p>	
Employment	<p><i>since 2017</i>: Researcher/PhD Candidate at the Institute of Social Ecology, University of Natural Resources and Life Sciences (BOKU), Vienna, freelance journalistic work for Sonnentor (2017-2021), Bio Austria (2016-2017), Biorama (2013-2018)</p> <p><i>2013-2016</i>: Bio Austria –Association of Austrian Organic Farmers, Project and marketing manager for dairy quality standards (Bio-Wiesenmilch)</p> <p><i>before 2013</i>: Internships and part time employments at Kulturfabrik Event GmbH (2008-2012), IntraWorlds GmbH (2010), allmender gmbH (2011), Biorama GmbH (2013), Ja!Natürlich GmbH (2012), Fairtrade Austria (2013)</p>	
Research Topics	<p>Social metabolism, Material and Energy Flow Analysis (MEFA), Stock-driven/Bottom-up material stocks modelling, Stock-Flow-Service Nexus Analysis, Circular Economy</p>	
Projects & Programmes	<p>2020-2022: Austrian Circular Economy and Decarbonization (ACRP, researcher)</p> <p>2020-2022: Assessing economy-wide prospects for a more sustainable circular economy in South Africa (CSIR, researcher)</p> <p>2021: Young Scientists Summer Programme (YSSP) at the International Institute for Applied Systems Analysis (IIASA)</p> <p>2018-2023: Understanding the Role of Material Stock Patterns for the Transformation to a Sustainable Society (ERC Advanced Grant, researcher)</p>	
Publications	<p>Wiedenhofer, D., Baumgart, A., Matej, S., Virág, D., Kalt, G., Lanau, M., Densley Tingley, D., Liu, Z., Guo, J., Tanikawa, H., Haberl, H., in review. Mapping and characterizing global mobility infrastructures in terms of resource requirements and GHG emissions.</p> <p>Virág, D., Wiedenhofer, D., Baumgart, A., Matej, S., Krausmann, F., Min, J., Rao, N.D., Haberl, H., 2022. How much infrastructure is required to support decent mobility for all? An exploratory assessment. <i>Ecol. Econ.</i> 200, 107511. https://doi.org/10.1016/j.ecolecon.2022.107511</p> <p>Schug, F.; Frantz, D.; Wiedenhofer, D.; Haberl, H.; Virág, D.; van der Linden, S.; Hostert, P. (2022): High-resolution mapping of 33 years of material stock and population growth in Germany using Earth Observation data. In: <i>Journal of Industrial Ecology</i>, 1-15, https://doi.org/10.1111/jiec.13343</p> <p>Schug, F., Wiedenhofer, D., Haberl, H., Frantz, D., Virág, D., van der Linden, S., Hostert, P., 2023. High-resolution data and maps of material stock, population, and employment in Austria from 1985 to 2018. <i>Data Brief</i> 108997. https://doi.org/10.1016/j.dib.2023.108997</p> <p>Plank, B., Streeck, J., Virág, D., Krausmann, F., Haberl, H., Wiedenhofer, D., 2022. From resource extraction to manufacturing and construction: flows of stock-building materials in 177 countries from 1900 to 2016. <i>Resources, Conservation and Recycling</i> 179, 106122. https://doi.org/10.1016/j.resconrec.2021.106122</p>	

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Virág, D., Wiedenhofer, D., Haas, W., Haberl, H., Kalt, G., Krausmann, F., 2022. The Stock-Flow-Service Nexus of personal mobility in an urban context: Vienna, Austria. *Environmental Development*, <https://doi.org/10.1016/j.envdev.2021.100628>

Haberl, H., Wiedenhofer, D., Schug, F., Frantz, D., **Virág**, D., Plutzar, C., Gruhler, K., Lederer, J., Schiller, G., Fishman, T., Lanau, M., Gattringer, A., Kemper, T., Liu, G., Tanikawa, H., van der Linden, S., Hostert, P., 2021. High-resolution maps of material stocks in buildings and infrastructures in Austria and Germany. *Environmental Science & Technology*, <https://dx.doi.org/10.1021/acs.est.0c05642>

Creutzig, F., Callaghan, M.W., Ramakrishnan, A., Javaid, A., Niamir, L., Müller-Hansen, F., Minx, J.C., Sovacool, B.K., Afroz, Z., Andor, M., Antal, M., Court, V., Das, N., Diás-José, J., Doebbe, F.C., Figueroa, M., Gouldson, A., Haberl, H., Hook, A., Ivanova, D., Lamb, W.F., Maizi, N., Mata, É., Nielsen, K.S., Onyige, C.D., Reisch, L.A., Roy, J., Scheelbeek, P.F., Sethi, M., Some, S., Sorrell, S., Tessier, M., Urmee, T.P., **Virág**, D., Wang, C., Wiedenhofer, D., Wilson, C., 2021. Reviewing the scope and thematic focus of 100,000 publications on energy consumption, services and social aspects of climate change: A big data approach to demand-side mitigation. *Environ. Res. Lett.* <https://doi.org/10.1088/1748-9326/abd78b>

Wiedenhofer, D., **Virág**, D., Kalt, G., Plank, B., Streeck, J., Pichler, M., Mayer, A., Krausmann, F., Brockway, P., Schaffartzik, A., Fishman, T., Hausknost, D., Leon-Gruchalski, B., Sousa, T., Creutzig, F. & Haberl, H. 2020. A systematic review of the evidence on decoupling of economic growth, resource use and GHG emissions, part I: bibliometric and conceptual mapping. *Environmental Research Letters*, <https://doi.org/10.1088/1748-9326/ab8429>

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Wiedenhofer, D., Pauliuk, S., Mayer, A., **Virág**, D., Haas, W., 2020. Monitoring a sustainable circular economy: from the systems level to actors and organizations, in: *Handbook of the Circular Economy*. Edward Elgar Publishing, pp. 176–193, <https://doi.org/10.4337/9781788972727.00022>

deWit, M., Haas, W., Steenmeijer, M., **Virág**, D., vanBarneveld, J., Verstraeten-Jochemsen, J. 2019. *The Circularity Gap Report Austria*

Virág, D. 2019. *Das Verkehrssystem im Stock-Flow-Service-Nexus*. Social Ecology Working Paper 179, Institut für Soziale Ökologie, Wien

Presentations

Virág, D., Wiedenhofer, D., Baumgart, A., Matej, S., Krausmann, F., Min, J., Rao, N.D., Haberl, H., 2022. How much infrastructure is required to support decent mobility for all? An exploratory assessment, May 3rd 2023, Social Ecology Research Seminar

Virág, D., Wiedenhofer, D., Haas, W., Haberl, H., Kalt, G., Krausmann, F. The transition potential of personal mobility in an urban context: Vienna, Austria, April 8th 2021, 6th NEST Conference 2021

Virág, D., Wiedenhofer, D., Haas, W., Haberl, H., Kalt, G., Krausmann, F. The materiality of mobility. A case study for the City of Vienna, Austria, March 1st 2021, 14th Biennial International Conference on EcoBalance hosted by ILCAJ