

MATHIS WACKERNAGEL, PH.D.

(February 2024)

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I. OVERVIEW

Mathis Wackernagel is a sustainability scientist and strategist, with focus on metrics and transformational tools. As co-creator of the Ecological Footprint, which are resource accounts that compare all the competing demands on nature's regeneration with the amount nature can renew, he emphasizes the significance of overshoot, and regeneration as the materially most limiting factor for the human economy.

To implement and mainstream Ecological Footprint accounting, he co-founded Global Footprint Network in 2003, an international sustainability think-tank. This international think-tank is dedicated to bringing about a sustainable human economy in which all thrive within the means of our one planet. Given that the only long-term option for humanity is to live off our planet's regeneration (rather than its liquidation), Global Footprint Network advances Ecological Footprint accounting as a support tool for this task.

Mathis's vision is to generate desire, agency, and curiosity for ending overshoot by design rather than by disaster. His main interest is in finding ways to help cities, companies and countries recognize the self-interest in addressing overshoot aggressively, overcoming the prevalent misconception that such action is not necessary or affordable.

Mathis's work with governments, corporations and international NGOs on six continents has earned Global Footprint Network or him dozens of international awards and recognitions, as well as two honorary doctorates. Before starting Global Footprint Network, he served as the director of the Sustainability Program at Redefining Progress in Oakland, California, and established the now closed "Centro de Estudios para la Sustentabilidad" at Anáhuac University in Xalapa, Mexico. Mathis has authored or contributed to over 100 peer-reviewed papers, numerous articles and reports and various books on sustainability that focus on the question of embracing limits and developing metrics for sustainability, including *Our Ecological Footprint: Reducing Human Impact on the Earth*; *Sharing Nature's Interest*; *Ecological Footprint: Managing our Biocapacity Budget*, and WWF International's *Living Planet Reports*.

II. PROFESSIONAL FOCUS

Mission

To help make *thriving within our planet's means* the overarching North Star for all, including countries, cities, and companies.

- *Scientific Inquiry*: What is the scientific basis, and corresponding research processes, for meaningful sustainability metrics?
- *Transformation*: What does it take for organizations, from companies to countries, to shift course? What are the barriers to the transformation and how can they be overcome? How do we generate motivation, including a deep sense of “skin in the game” among key decision-makers? What are the most effective processes to make obvious to participants that recognizing the necessity to succeed with the overarching goal (or contributing to the overarching goal) also is a necessary ingredient for one’s own success? What is the role of motivation, particularly generating desire, a sense of agency, and an attitude of curiosity vis-à-vis the unknown? How do we build alliances that accelerate the transformation? Where are the leverage points that lead to highest and most sustained impacts?
- *Engagement*: How do we make the transformation so engaging and desirable that it becomes a true invitation? How does engagement engender more intrinsic motivation among all participants in the context of the sustainability transformation?
- *Metric*: In the age of ecological overshoot, what do countries, cities, and companies need to know to operate effectively? How do we make information actionable, relevant, and empowering?

Impact

- Developed a metric that has become a main standard for the sustainability debate, and become part of the common vocabulary (‘footprint’). For instance, included in the World Economic Forum’s Competitiveness Report ([2018](#), [2019](#)) as a context indicator, mentioned by Pope Francis, Greta Thunberg, used as a CBD indicator, in WWF’s Living Planet Report, many national government programs, etc.
- Built and executed communication campaigns on the challenging topic of planetary limits that are now reaching over 7 billion media impressions per year (“[Earth Overshoot Day](#)”).
- Produced novel engagement tools, from the earliest web-based Ecological Footprint calculator, to mobile friendly calculators (www.footprintcalculator.org), solution maps (movethedate.overshootday.org), and possibility platforms (www.overshootday.org/pop).
- Helped keep the focus of sustainability debate on its essence: that ultimately, a necessary condition for sustaining diverse life on this planet, and securing a resilient existence for humanity, depends on living within the regenerative budget of our planet. Global Footprint Network’s conservative estimates indicate that humanity is

currently overusing the planet's regenerative budget by 75% - which is over 3 times more than what E.O. Wilson and his team identified as the maximum demand compatible with securing 85% of our planet's biodiversity ("½ Earth").

- Co-initiated and ran entrepreneurial organizations to advance critical sustainability topics, including Global Footprint Network (started in 2003), [FoDaFo](#) (started in 2019), and [rePLANET](#) (started in 2021).

III. AWARDS & RECOGNITIONS

- 2022. *Honorary doctorate*, University of Stirling, UK. November 24, 2022. <https://www.stir.ac.uk/news/2022/november-2022-news/sustainability-and-sports-figures-to-be-recognised-by-university-of-stirling/>
- 2020. Inclusion in the [Fairforce 100 Environmental Data Entrepreneurs](#).
- 2019. One of three Finalist, November 15, 2019. Prix Voltaire International. <https://www.prixvoltaire.com/>
- 2018. *World Sustainability Award*. The World Sustainability Award, funded by the MDPI Sustainability Foundation, is conferred upon individual researchers or research teams who have made an outstanding academic or societal contribution to sustainability in general, or to a sustainability-relevant issue in particular. Second time ever awarded. 66,000 USD. First one went to Prof. Jeffrey Sachs. <https://mdpi-foundation.org/award/awardees/dr-mathis-wackernagel> ; <https://youtu.be/OckE1WOC7tg>
- 2016, 2017 & 2018. *OOM 100: THE WORLD'S MOST INSPIRING PEOPLE*. No 24 in 2016; No 18 in 2017; [No 36 in 2018](#), [No 73 in 2019](#): Mathis Wackernagel, Sustainable Advocate. "The Swiss-born engineer is known for creating the ecological footprint concept and heads an international think tank that focuses on developing and promoting metrics for sustainability." OOOM Magazine <http://www.oom.com/oom100/>
- 2015. *IAIA Global Environment Award*. The [IAIA Global Environment Award](#) is presented to a leading individual or institution that has made a substantial contribution to the practice of environmental assessment, management or policy at a global scale, or has otherwise made a major contribution to promote environmental sustainability or environmental justice.
- 2014. *Induction* in the International Society of Sustainability Professionals (ISSP) Sustainability [Hall of Fame](#).
- 2013. *Prix Nature Swissscanto – Hauptpreis*. This main Swiss Nature Prize honours individuals or organizations who have achieved exceptional or pioneering results in the arena of sustainability in Switzerland ("Es werden damit Individuen oder Organisationen

für aussergewöhnliche oder pionierhafte Leistungen auf dem Gebiet der Nachhaltigkeit ausgezeichnet“) - 10,000 CHF. <https://www.tierwelt.ch/artikel/natur-umwelt/okologischer-fussabdruck-geeht-416771> , <https://www.ee-news.ch/de/erneuerbare/article/26114/prix-nature-swisscanto-4-verleihung-des-schweizer-nachhaltigkeitspreises>

- 2012. *Grosser Binding-Preis für Natur- und Umweltschutz* (“Major Binding Prize for Nature and Environmental Protection”). For the scientific development and promotion of the Ecological Footprint, more specifically: “Wir würdigen damit seinen langjährigen, unermüdlichen Einsatz als Vordenker im Bereich der Nachhaltigkeit, insbesondere für die Entwicklung des Konzeptes des “ökologischen Fussabdruckes”(Ecological Footprint) welches nicht nur weltweit in Forschung und Lehre auf die Nachhaltigkeitsdefizite hinweist und für die nötigen Zielvorstellungen wirbt, sondern auch eine dramatische mediale Breitenwirkung entwickelt und dadurch umweltpolitische Weichenstellungen auslöst.” 50,000 CHF. http://www.binding.li/html/preisverleihung_2012.html
- 2012 *Blue Planet Prize* of The Asahi Glass Foundation (with Dr. Bill Rees) awarded to individuals or organizations each year that make outstanding achievements in scientific research and its application in helping to solve global environmental problems. 50 million Yen. <http://www.af-info.or.jp/en/blueplanet/list.html>
- 2012. Among “*Zeronaut 50*” *Roll of Honor*. John Elkington identified Mathis in 2012 among the “*Zeronaut 50*” *Roll of Honor*, i.e., leading pioneers who are driving the world’s most significant problems to zero. <http://www.csrwire.com/blog/posts/455-unreasonable-people-introducing-the-zeronauts>
- 2012 *Kenneth E. Boulding Memorial Award* of the International Society for Ecological Economics (with Dr. Bill Rees) honouring “outstanding individuals who have contributed original and seminal approaches that have furthered our understanding of the interfaces between the social, ecological, ethical, economic and political dimensions of our world.” <http://www.isecoeco.org/2008-boulding-award/>
- 2012. *No 19 in the global (En)Rich List* – top inspirational individuals whose contributions enrich paths to sustainable futures. www.enrichlist.org
- In 2012, Global Footprint Network was named one of the world’s top 100 non-governmental organizations by the *Global Journal*. Less than 10 of them worked in the “sustainable development” space. Global Footprint Network was renamed in 2013 and 2015 (there was no ranking in 2014). <http://theglobaljournal.net/article/view/494/>
- 2011 *Zayed International Prize for Environment* - action leading to positive change in society (Zayed Foundation, Dubai, and UNEP). It recognizes Dr. Mathis Wackernagel’s contribution to “translate[ing] the complexity of humanity’s impact on the environment and natural resources into a more understandable and actionable form. The concept of ‘ecological limits’ and relating the demands of human beings to the planet’s available ecological resources, has attracted and is catalysing action among governments, business and civil society. (...) The Footprint is now recognized as a leading and highly

comprehensible indicator of sustainability. To date the network is working with more than 90 partner bodies including the Finnish Ministry of the Environment; Australia's State of Victoria and South Australian authorities; two Swiss banks; WWF and the Stockholm Environment Institute. Through its Ten-in-Ten Campaign, aimed at institutionalizing the Footprint in 10 countries by 2015, nations including Belgium, Ecuador, Japan, Switzerland and the United Arab Emirates are already engaged." 100,000 USD. <http://www.zayedprize.org/ae/fifth-cycle#tab-4>

- Frank H. T. Rhodes Class of 1956 *Visiting Professor* at Cornell University. Active 1 July 2011 – 30 June 2014. The Rhodes Class of '56 University Professorship is overseen by the Cornell A.D. White Professors-at-Large Program. Rhodes professors appointed since the program was inaugurated in 2000 include: architect Richard Meier, a 1956 Cornell alumnus; biomedical scientist Edward M. Scolnick, president of Merck Research Laboratories; former U.S. Attorney General Janet Reno, a 1960 Cornell alumna; and TV personality Bill Nye, "The Science Guy," a 1977 Cornell alumnus; Cynthia McKinney, Georgia's first African-American congresswoman, John Pilger, investigative journalist, author and Emmy Award-winning documentary filmmaker; Robert Moses, a Harvard-trained educator, a civil rights leader, a MacArthur Foundation fellow and founder of the Algebra Project.
- 2008. *International Prize Calouste Gulbenkian 2008* "dedicated to the respect for biodiversity and defense of the environment in man's relationship with nature" (For Global Footprint Network). 50,000 Euros. <https://copehcanblog.wordpress.com/2010/02/26/calouste-gulbenkian-foundation-environment-and-biodiversity/>
- 2007. *Honorary doctorate*, University of Bern, Switzerland. ([Dr. h.c. der Phil.-nat. Fakultät der Universität Bern](#)). December 2007.
- 2007. *Skoll Award for Social Entrepreneurship* "a one million dollar prize presented by the Skoll Foundation to Global Footprint Network in celebration of its founders, Susan Burns and Mathis Wackernagel. This award recognizes the most innovative and effective approaches to resolving critical social issues. March 26, 2007. 1 million USD. <http://www.skollfoundation.org/entrepreneur/susan-burns-and-mathis-wackernagel>
- 2006. [WWF Award for Conservation Merit](#) "in recognition of his inspiration, enthusiasm and energy in developing the concept of the Ecological Footprint and promoting its uptake by decision makers throughout the world." June 7, 2006. http://wwf.panda.org/wwf_news/wwf_awards/wwf_award_for_conservation_merit.
- 2005. *Second biennial Herman Daly Award* of the US Society for Ecological Economics July 20, 2005.
- 2003. *Environmental Leadership Award* for Sustainability Leadership and Service to the Silicon Valley EH&S Community. Pacific Industrial and Business Association, February 26, 2003.

- 1989-93. Two *University Graduate Fellowship*, The University of British Columbia.
- 1984. *G. Zeuner Legat Award*. Second pre-diploma, ranking 8th out of 174 graduating students
- 1983. *Anonymer Stipendienfond der ETH Award*. First pre-diploma, ranking 5th out of 276 graduating students.

IV. EDUCATION

Ph.D. in Community and Regional Planning, 1994. School of Community and Regional Planning, The University of British Columbia, Vancouver, Canada. Originated and developed as [Ph.D. dissertation](#) the Ecological Footprint concept, now a sustainability metrics used world-wide (in collaboration with doctoral supervisor Prof. William E. Rees).

Master of Science in Mechanical Engineering (dipl. Ing. ETH), 1988. Swiss Federal Institute of Technology, Zürich, Switzerland. Specialization: Advanced Mechanics and Energy Systems. Thesis Research, under supervision of Prof. Peter Suter, “Computer-Based Expert Systems for Domestic Heating Equipment” Ranked 4th out of 74 graduating students.

V. RESEARCH, MANAGEMENT, AND POLICY EXPERIENCE

Collaborations with, and consultancies for, government, civil society, academic and business organizations on all continents, including BC Hydro, CEMEX, DG Environment, Earth Day Network, EPA Victoria, European Environment Agency, GIZ, ICLEI, Leadership for Environment and Development (LEAD), Luxembourg Direction de la Coopération, Novartis, OECD, Schneider Electric, Scottish environment Protection Agency, Secretaría de la Comunidad Andina, SENPLADES (Ecuador), Swiss Agency for Development and Cooperation (SDC), Temasek, The World Bank, US Army, US EPA, WBCSD, WEF, World Wide Fund for Nature (WWF) (International, Europe, national organizations), and many others.

June 2019 – Present *Board Member Footprint Data Foundation* (www.FoDaFo.org)
To amplify the power of the metric, Global Footprint Network and York University, Toronto have created a not-for-profit called the Footprint Data Foundation (FoDaFO) to be the neutral, academically trusted stewards of these National Footprint & Biocapacity Accounts (NFAs), separating the robust data from advocacy. This ‘separation of powers’ makes both data and advocacy infinitely stronger.

May 2021 - Present *Board Member rePLANET* (www.rePLANET.org.uk)

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rePLANET aim to restore and conserve landscapes through private sector investments. This is achieved by generating carbon and biodiversity credits and selling them, initially, on the voluntary markets.

- June 2003 – Present *Founder and Board Member Global Footprint Network*
(www.footprintnetwork.org)
- July 2003 – July 2023 *President/CEO of Global Footprint Network* (Oakland, CA U.S.A., since 2008 also legally established in Switzerland, since 2023 in Italy; for eight years (2010 to 2018) in Belgium) an international think-tank that focuses on bringing about a sustainable human economy in which all can thrive within the means of our one planet Earth. This organization makes ecological limits central to decision-making by advancing the use of the Ecological Footprint, a resource accounting tool that measures how much nature we have, how much we use, and who uses what.
- July 2011 – June 2014 *Visiting Professor at Cornell University* (Frank H. T. Rhodes Class of 1956 Visiting Professor)
- September 2003 *Adjunct faculty, Center for Sustainability and the Global Environment (SAGE), Institute for Environmental Studies, University of Wisconsin.* Under Prof. Jon Foley
- February 1999 – June 2003 *Director of the Sustainability Program of Redefining Progress* (Oakland, CA U.S.A.). Responsibilities include program development, fundraising, team management, research, outreach and communications.
- July 1998 – January 1999 *Senior Fellow of Redefining Progress* (San Francisco, U.S.A.) and visiting lecturer at the Human Ecology Department of Lund University, Sweden.
- January 1997 – July 1998 *Professor at the Universidad Anáhuac de Xalapa* (State of Veracruz, Mexico). *Founder and Coordinator* of its Centro de Estudios para la Sustentabilidad / Centre for Sustainability Studies. Affiliations with the Human Ecology Department of Lund University, Sweden, and the Centre for Development and Environment at the Institute of Geography, University of Berne, Switzerland.
- September 1995 – January 1997 *Visiting Professor at the Universidad Anáhuac de Xalapa* to develop a center on sustainability studies. Organization of conferences and workshops, curriculum development, building links with partner institutions, and classes and seminars.
- February 1995 – August 1995 *Consultant to the Earth Council, Costa Rica.* Conceptualization of the *Earth Reports* and write-up of the project proposal. The Earth Council's mission for the *Earth Reports* was to "establish a dialogue with people at the grassroots, and make available to them strategic information necessary to build a more secure, equitable and sustainable future."
- September 1994 – February 1995 *Research Associate and Interim Coordinator of the UBC Task Force on Healthy and Sustainable Communities.* Administration, research coordination, outreach, proposal development, teaching.

- September 1993 - October 1994 *Researcher* for the UBC Task Force on Healthy and Sustainable Communities (UBC Lower Fraser Basin Eco-Study). Conceptual research on community process and tool development. Directing the development and refinement of the Ecological Footprint concept. Workshops. Student supervision.
- April 1993 - May 1993 *Co-designer* of a four-day outdoor program for grade 8 high school students on sustainability (“Connections”). Various applications of the Ecological Footprint concept for learning events on sustainability conflicts. Teacher in the pilot program. Sea to Sky Outdoor School, Gibsons, BC.
- July 1992 - July 1993 *National Student Representative* on the National Council of the Canadian Institute of Planners (CIP). Achievements include the rewriting of CIP’s mission statement and the production of two brochures on Canadian Planning Schools. Also wrote with colleagues from the University of British Columbia the CIP position paper on sustainability (adopted in 1994).
- April 1992 - September 1993 *Consultant* to the UBC Task Force on Healthy and Sustainable Communities. Development of handbook on calculating the Ecological Footprint. Workshops.
- March 1992 - June 1992 *Researcher and Technical Coordinator* for the report and the workshop preparations of a KLH-EMDI workshop. Commissioned by the Indonesian Ministry of Population and Environment (KLH), Jakarta and EMDI, Dalhousie University. Conscribe Ltd., Vancouver.
- July 1991 - September 1991 *Research Assistant* for the UBC Task Force on Planning Healthy and Sustainable Communities. Methodological research on the Ecological Footprint concept.
- September 1988 - August 1989 *Project Director*. Partnership development, design of solar equipment, and prototype manufacturing. Synopsis, Lodève, France.

VI. PUBLICATIONS AND REPORTS

Books

- Wackernagel, Mathis and Bert Beyers, 2019. *Ecological Footprint: Managing the Biocapacity Budget*, New Society Publishers, Gabriola Island.
<https://www.footprintnetwork.org/2019/09/04/18187/> (Italian translation 2020)
- Wackernagel, Mathis and Bert Beyers, 2010. *Ecological Footprint: Die Welt neu vermessen*, Europäische Verlagsanstalt, Hamburg. Updated 2016 edition: *Footprint: Die Welt neu vermessen*, Europäische Verlagsanstalt, Hamburg.

- Chambers, Nicky, Craig Simmons and M. Wackernagel, 2000. *Sharing Nature's Interest: Ecological Footprints as an Indicator for Sustainability*, EarthScan, London. (Translated into Italian: *Manuale de la Impronta Ecologica*, Edizioni Ambiente, Milan, 2002).
- Sturm, Andreas, M. Wackernagel and Kaspar Müller, 2000. *The Winners and Losers in Global Competition: Why Eco-Efficiency Reinforces Competitiveness: A Study of 44 Nations*, Verlag: Rüegger, Chur/Zürich. ISBN 3 7253 0658 3 (adapted and improved version of the German edition).
- Sturm, Andreas, M. Wackernagel and Kaspar Müller, 1999. Die Gewinner und die Verlierer im globalen Wettbewerb: Warum Öko-Effizienz die Wettbewerbsfähigkeit stärkt: 44 Nationen im Test, Verlag: Rüegger, Chur/Zürich 1999 (ISBN 3-7253-0653-2).
- Wackernagel, M. and William E. Rees, 1996, *Our Ecological Footprint: Reducing Human Impact on the Earth*. New Society Publishers, Gabriola Island. <https://books.google.com/books?id=WVNEAQAQBAJ>; non-english editions (*L'impronta ecologica*, Milan: Edizioni Ambiente, Milan and WWF Italia, Roma, 1996, 3rd revised edition 2004; *Unser ökologischer Fußabdruck*, adapted and improved German version prepared by Mathis Wackernagel, Birkhäuser, Basel, April 1997; *Notre empreinte écologique*, Les Éditions Écosociété, Montréal, ISBN 2-921561-43-3 1999). Also published in Spanish (LOM Ediciones, Santiago de Chile, 2001), Mandarin, Japanese, Latvian and Hungarian.

Academic Articles and Chapters

- Wackernagel, Mathis, 2024, "Ecological Footprint" in Christine Overdevest, editor, 2024, Elgar Encyclopedia of Environmental Sociology, Elgar, [forthcoming](#).
- Raven, Peter, Zhiyun Ouyang, Paul Smith and Mathis Wackernagel, 2023. "The Shenzhen Congress and Plant Conservation: What Have We Accomplished in the Six Years Since?" *J. Syst. Evol.* 2 November 2023, <http://doi.org/10.1111/jse.13030>
- Alessandro Galli, Marta Antonelli, Leopold Wambersie, Anna Bach-Faig, Fabio Bartolini, Dario Caro, Katsunori Iha, David Lin, Maria Serena Mancini, Roberta Sonnino, Davy Vanham, and Mathis Wackernagel, 2023. "EU-27 Ecological Footprint was primarily driven by food consumption and exceeded regional biocapacity from 2004 to 2014" *Nature Food*. <https://www.nature.com/articles/s43016-023-00843-5>
- Rees, William E., and Mathis Wackernagel, 2023. "Ecological Footprint Accounting: Thirty Years and Still Gathering Steam", *Environment: Science and Policy for Sustainable Development*, 65:5, 5-18, <https://doi.org/10.1080/00139157.2023.2225405>
- Robinson, Abigail, Viola Csordas, and Mathis Wackernagel, 2022. "Defining limits: Ecological overshoot as a driver of conflict" in Brown, O. and Nicolucci-Altman, G. A White Paper on the Future of Environmental Peacebuilding, Geneva Peacebuilding Platform, International Union for Conservation of Nature, PeaceNexus Foundation, Environmental Law Institute, Environmental Peacebuilding Association www.ecosystemforpeace.org

- Wackernagel, Mathis, 2022, "Is the Global Economy Running a Pyramid Scheme?", Pages 191-204 in Peter A. Wilderer, Martin Grambow, Michael Molls, Konrad Oexle (editors) 2022, *Strategies for Sustainability of the Earth System*, ISBN: 978-3-030-74457-1 <https://doi.org/10.1007/978-3-030-74458-8>
- Horsburgh, Nicola, Andrew Tyler, Scot Mathieson, Mathis Wackernagel, David, Lin, 2022, Biocapacity and cost-effectiveness benefits of increased peatland restoration in Scotland, *Journal of Environmental Management*, Volume 306, 15 March 2022, 114486, <https://doi.org/10.1016/j.jenvman.2022.114486>
- Wackernagel, Mathis, Laurel Hanscom, Priyangi Jayasinghe, David Lin, Adeline Murthy, Evan Neill, Peter Raven, 2021. "The Importance of Resource Security for Poverty Eradication." *Nature Sustainability* <https://dx.doi.org/10.1038/s41893-021-00708-4>
- Fatemi M, Rezaei-Moghaddam K, Karami E, Hayati D, Wackernagel M (2021) An integrated approach of Ecological Footprint (EF) and Analytical Hierarchy Process (AHP) in human ecology: A base for planning toward sustainability. *PLoS ONE* 16(4): e0250167. <https://doi.org/10.1371/journal.pone.0250167>
- McBain, Bonnie, Manfred Lenzen, Glenn Albrecht, and Mathis Wackernagel, 2021, Chapter 5: Future Transitions to a Renewable Stationary Energy Sector: Implications of the Future Ecological Footprint and Land Use, in Arnab Banerjee, Ram Swaroop Meena, Manoj Kumar Jhariya, Dhiraj Kumar Yadav (Editors), *Agroecological Footprints Management*, Springer, ISBN 978-981-15-9495-3, ISBN 978-981-15-9496-0 (eBook), <https://doi.org/10.1007/978-981-15-9496-0> Pages 155-178
- Bradshaw, Corey J. A., Paul R. Ehrlich, Andrew Beattie, Gerardo Ceballos, Eileen Crist, Joan Diamond, Rodolfo Dirzo, Anne H. Ehrlich, John Harte, Mary Ellen Harte, Graham Pyke, Peter H. Raven, William J. Ripple, Frédéric Saltré, Christine Turnbull, Mathis Wackernagel, Daniel T. Blumstein, 2021, "Underestimating the challenges of avoiding a ghastly future", *Frontiers in Conservation Science / Front. Conserv. Sci.* Vol 1, Article 615419 doi: 10.3389/fcosc.2020.615419. <https://www.frontiersin.org/articles/10.3389/fcosc.2020.615419/full>. Response to Commentary: <https://www.frontiersin.org/articles/10.3389/fcosc.2021.666910/full>
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- Raven, Peter and Mathis Wackernagel, 2020, Maintaining Biodiversity will define our long-term success. *Plant Diversity*. <https://doi.org/10.1016/j.pld.2020.06.002>
- Galli, A., Iha, K., Pires, S. M., Mancini, M. S., Alves, A., Zokai, G., Lin, D., Murthy, A., Wackernagel, M., 2020. Assessing the Ecological Footprint and biocapacity of Portuguese cities: Critical results for environmental awareness and local management. *Cities*, 96, <https://www.sciencedirect.com/science/article/pii/S0264275119302306>
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- Contribution to Ernst von Weizsäcker, Anders Wijkman et al. 2018, "Come On!" Report to the Club of Rome.
- Wackernagel, M., 2019, "Terra Incognita: In Search of the Disconnect", in Partha Dasgupta, Peter Raven, Anna McIvor (ed) (2019) *Biological Extinction: New Perspectives*. Cambridge University Press, UK. Based on Workshop on Biological Extinction, February 28 - March 1, 2017, Jointly Sponsored by The Pontifical Academy of Sciences and The Pontifical Academy of Social Sciences <https://www.cambridge.org/core/books/biological-extinction/ED9DDEEFF070722801383DBED553F395>
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- M. Fatemi, K. Rezaei-Moghaddam, M. Wackernagel, C. Shennan 2018, "Sustainability of environmental management in Iran: An ecological footprint analysis" *Iran Agricultural Research* (2018) 37(2) 53-68
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- Maria Serena Mancini, Alessandro Galli, Valentina Niccolucci, David Lin, Laurel Hanscom, Mathis Wackernagel, Simone Bastianoni, Nadia Marchettini (2017), Stocks and flows of natural capital: Implications for Ecological Footprint, *Ecological Indicators*, Volume 77, June 2017, Pages 123-128, <https://doi.org/10.1016/j.ecolind.2017.01.033>
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VII. LANGUAGE SKILLS

German: mother-tongue.
English: read, write and speak fluently.
Spanish: read and speak fluently; write adequately.
French: read and speak fluently; write adequately.
Danish: read fluently, speak and write poorly.

VIII. GENERAL INFORMATION

Citizenship: Swiss and U.S.
Birthplace: Basel, Switzerland (1962).