

## CURRICULUM VITAE

# Wolfgang Lutz

### CURRENT POSITIONS

Interim Deputy Director General for Science, **International Institute for Applied Systems Analysis (IIASA)**.

Professor of Demography, **Department of Demography, University of Vienna**.

Founder and Director of the **Wittgenstein Centre for Demography and Global Human Capital** (based on the Wittgenstein Prize 2010), a collaboration between the International Institute for Applied Systems Analysis (IIASA), Vienna Institute of Demography (VID) of the Austrian Academy of Sciences, and Department of Demography of the University of Vienna.

Distinguished Visiting Professor at the **University of Shanghai**.

### EDUCATIONAL ATTAINMENT

- 1975 Graduation from Schottengymnasium der Benediktiner (classical language school) in Vienna. Studies in Philosophy, Mathematics and Theology at the University of Munich, Germany.
- 1980 Magister rerum socialium oeconomicarumque (M.A.) in Social and Economic Statistics at the University of Vienna. Cand. theol. at the Faculty of Theology, University of Vienna.
- 1982 M.A. in Demography at the University of Pennsylvania, USA.
- 1983 Ph.D. (with distinction) in Demography at the University of Pennsylvania.
- 1988 Habilitation (= second doctorate; right to teach and apply for a chair at the university) in Demography and Social Statistics at the University of Vienna.

### ACADEMY MEMBERSHIPS

- 2019 Elected to the Academia Europaea.
- 2016 Elected to the U.S. National Academy of Sciences (NAS)
- 2014 Elected to the World Academy of Sciences (TWAS).
- 2014 Elected to the Finish Society of Sciences and Letters (*Societas Scientiarum Fennica*)
- 2013 Elected to the German National Academy of Sciences Leopoldina. Elected member of Senate.
- 2012 Elected to the Austrian Academy of Sciences as Full Member (Corresponding Member since 2008).

### Other Current Functions:

- Special Adviser to the European Commission Vice President for Democracy and Demography
- Member of the International Advisory Board, NUS Centre for Family and Population Research, Singapore.
- Professorial Research Fellow at Oxford Martin School, University of Oxford, UK.
- Associate Member, Nuffield College, University of Oxford, UK.
- Honorary Professor, College of Population Studies, Chulalongkorn University, Bangkok, Thailand.
- Honorary Professor, University of Shanghai, and Chairman of the International Board of the Asian Demographic Research Institute (ADRI).
- Editorial Board Member, Vienna Yearbook of Population Research. (Editor 2002 – 2021).
- Editorial Committee Member, Asian Population Studies, Routledge.
- Editorial Committee Member, Journal of Population Ageing, Springer.
- Editorial Board Member, Demographic Research, an on-line journal of the Max Planck Institute for Demographic Research.
- Editorial Board Member, European Population Studies, the official journal of the European Association for Population Studies (EAPS).
- Editorial Board Member, Canadian Studies in Population, Population Research Laboratory, University of Alberta.

## AWARDS & GRANTS

- 2024 IUSSP Laureate; highest lifetime achievement award of the International Union for the Scientific Study of Population (IUSSP)
- 2024 Elected Fellow of the International Science Council (ISC)
- 2023 Science Prize of the Austrian Research Association, Austria.
- 2020 Honorary Doctorate. Chulalongkorn University. College of Population Studies, Bangkok.
- 2018 2018 WU City of Vienna Best Paper Award for “Global Sustainable Development priorities 500 y after Luther: *Sola schola et sanitate*. PNAS 2017.
- 2017 European Research Council Advanced Investigator Grant to study “The Demography of Sustainable Human Wellbeing” (EmpoweredLifeYears).
- 2016 European Association for Population Studies (EAPS) Award for Population Studies for ground-breaking contributions to the study of population.
- 2016 Science Prize of the City of Vienna.
- 2016 Mindel C. Sheps Award of the Population Association of America (PAA).
- 2012 European Research Council Proof of Concept (PoC) Grant “Demography-based market forecasting tools” (“FUTURE MARKETS”).
- 2010 Wittgenstein Award Laureate (often referred to as the “Austro Nobel Prize”) is the highest science prize in Austria. It is awarded annually by the Austrian Federal Ministry of Education, Science and Culture for outstanding scientific achievements in all scientific disciplines. For the first time, the 2010 award went to a social scientist.
- 2009 Mattei Dogan Award of the IUSSP (International Union for the Scientific Study of Population). This award is only given once every four years for comparative demographic analysis.
- 2008 European Research Council Advanced Investigator Grant to study “Forecasting societies’ adaptive capacity to climate change” (“Future Societies”).

## PREVIOUS POSITIONS AND FUNCTIONS

- 2002-2022 Executive Director, Vienna Institute of Demography (VID) of the Austrian Academy of Sciences
- 2021-2022 Senior Program Advisor, Population and Just Societies Program, IIASA
- 1992-2020 Director, World Population Program, IIASA (International Institute for Applied Systems Analysis), Laxenburg, Austria. (Employed at IIASA since 1984, Deputy Program Leader under Nathan Keyfitz since 1988).
- 2017-2022 Member of the Scientific Advisory Board of the Institute for Health Metrics and Evaluation (IHME) at the University of Washington (Seattle).
- 2006-2022 Member, Board of Directors (Stiftungsrat), Berlin Institute for Population and Development, Germany.
- 2017-2019 Member of the “Group of Independent Scientists” invited by the United Nations Secretary General to produce the 2019 Global Sustainable Development Report
- 2016-2018 Lead Author, IPSP (International Panel on Social Progress).
- 2015 Research Fellow, Stellenbosch Institute for Advanced Study (STIAS), South Africa.
- 2013 NUSS Distinguished Visiting Professor, National University of Singapore (NUS).
- 2010-2014 Lead Author, IPCC (Intergovernmental Panel on Climate Change), Working Group III.
- 2007-2013 Member of the Committee on Population, US National Academy of Sciences.
- 2007 Senior Visiting Fellow, Oxford Institute of Ageing, Oxford University.
- 2004-2010 Member, Board of Directors, Population Reference Bureau, Washington D.C., USA.

2003-2008	Member, Board of Directors (Kuratorium), Max Planck Institute for Demographic Research, Rostock, Germany.
2002-2009	Deputy Chair, Board of Directors, and Chair of the Scientific Program Committee, African Population and Health Research Center (APHRC), Nairobi, Kenya.
2002-2007	Editor, Earthscan scientific book series on Population and Sustainable Development.
2001-2002	Initiator and Coordinator, Global Science Panel on Population and Environment (sponsored by the IUSSP, IIASA, and the United Nations University).
1999-2006	Initiator and Principal Investigator, Asian MetaCentre for Population and Sustainable Development Analysis (funded by the Wellcome Trust as a regional Centre of Excellence) with headquarters at the National University of Singapore.
1999-2004	Scientific Coordinator, EU Observatory for the Social Situation, Demography and the Family, an official body of the European Commission.
1998-2001	Secretary General, International Union for the Scientific Study of Population (IUSSP).
1995-1998	Research Director, Austrian Institute for Family Studies, Vienna.
1984	Visiting Scholar at the World Fertility Survey in London.
1983-1985	Research Associate, Demographic Institute of the Austrian Academy of Sciences; Lecturer in Social and Economic Statistics at the University of Vienna.
1981-1982	Research assistant at the Population Studies Center/Graduate Group in Demography of the University of Pennsylvania, USA.
1980-1981	Visiting scholar at the Demographic Department of the Finnish Central Statistical Office in Helsinki.

### SUMMARY OF PUBLICATIONS

- 27 scientific books (including 3 single author books, 5 co-authored books, and 19 edited volumes and special issues of scientific journals).
- 3 popular science books and 12 other scientific monographs and booklets
- 293 articles in scientific journals and chapters in refereed books.
- More than 100 book reviews, commentaries and other non-refereed scientific contributions.
- ORCID: 0000-0001-7975-8145

### PUBLICATIONS IN TOP JOURNALS

#### **Science and Nature:**

- Thiery, B. W., Lange, S., Rogelj, J., Schleussner, C. F., Gudmundsson, L., Seneviratne, S.I., Andrijevic, M., Frieler, K., Lutz, W., et al. (2021). Intergenerational inequities in exposure to climate extremes. *Science* 374 (6564): 158-160. <https://www.science.org/doi/10.1126/science.abi7339>
- Lutz, W., Muttarak, R. & Striessnig, E. (2014). Universal education is key to enhanced climate adaptation. *Science* 346(6213):1061-1062. <https://www.science.org/doi/10.1126/science.1257975>
- Lutz, W. & KC, S. (2011). Global human capital: Integrating education and population. *Science* 333: 587-592. <https://www.science.org/doi/10.1126/science.1206964>
- Lutz, W., Crespo Cuaresma, J. & Sanderson, W. (2008) The demography of educational attainment and economic growth. *Science* 319: 1047-1048. <https://www.science.org/doi/10.1126/science.1151753>
- Lutz, W., Sanderson, W. & Scherbov, S. (2008). The coming acceleration of global population ageing. *Nature* 451: 716-719. <https://www.nature.com/articles/nature06516>
- Lutz, W., Kritzing, S. & Skirbekk, W. (2006). The demography of growing European identity. *Science* 314: 425. <https://www.science.org/doi/10.1126/science.1128313>

Lutz, W., O'Neill, B.C. & Scherbov, S. (2003). Europe's population at a turning point. *Science* 299: 1991-1992. <https://www.science.org/doi/10.1126/science.1080316>

Lutz, W., Sanderson, W. & Scherbov, S. (2001). The end of world population growth. *Nature* 412: 543-545. <https://doi.org/10.1038/35087589>

Lutz, W., Sanderson, W. & Scherbov, S. (1997). Doubling of world population unlikely. *Nature* 387: 803-805. <https://doi.org/10.1038/42935>

### **Nature Climate Change:**

Lutz, W. & Mutarak, R. (2017). Forecasting societies' adaptive capacities through demographic metabolism model. *Nature Climate Change* 7, 177-184. <https://doi.org/10.1038/nclimate3222>

### **Letters to Editor of Science and Nature/ Commentary:**

Messerli, P., Kim, E. M., Lutz, W., Moatti, J. P., Richardson, K., Saidam, M., Smith, D., Eloundou-Enyegue, P., et al. (2019). Expansion of sustainability science needed for the SDGs. *Nature Sustainability* <https://doi.org/10.1038/s41893-019-0394-z>.

Lutz, W., Butz, W., KC, S., Sanderson, W. & Scherbov, S. (2014). Population growth: Peak probability. *Science*, 346(6209), 561–561. <https://doi.org/10.1126/science.346.6209.561-a> .

Lutz, W., Butz, W. P., Castro, M., Dasgupta, P., Demeny, P. G, Ehrlich, I., Giorguli, S., Habte, D., Haug, W., Hayes, A., Herrmann, M., Jiang, L., King, D., Kotte, D., Lees, M., Makinwa-Adebusoye, P. K., McGranahan, G., Mishra, V., Montgomery, M. R., Riahi, K., Scherbov, S., Peng, X. & Yeoh, B. (2012). Demography's role in sustainable development (letter to the editor). *Science* 335(6071): 918.

Lutz, W. & Shah, M. (2002). Population should be on the Johannesburg agenda (letter to the editor). *Nature* 418, 17 (4 July 2002). Other signatories are: R. E. Bilborrow, J. Bongaarts, P. DasGupta, B. Entwisle, G. Fischer, B. Garcia, D. J. Hogan, A. Jernelov, Z. Jiang, R. W. Kates, S. Lall, F. L. MacKellar, P. K. Makinwa-Adebusoye, A. J. McMichael, V. Mishra, N. Myers, N. Nakicenovic, S. Nilsson, B. C. O'Neill, X. Peng, H. B. Presser, N. Sadik, W. C. Sanderson, G. Sen, M. F. Strong, B. Torrey, D. van de Kaa, H. J. A., van Ginkel, B., Yeoh, H. Zurayk.

### **Proceedings of the National Academies of Sciences (PNAS):**

Marois, G., Gietel-Basten, S. & Lutz, W. (2021). China's low fertility may not hinder future prosperity. *Proceedings of the National Academies of Sciences* 118(40) e2108900118. <https://doi.org/10.1073/pnas.2108900118>

Lutz, W., Striessnig, E., Dimitrova, A., Ghislandi, S., Lijadi, A., Reiter, C., Spitzer, S. & Yildiz, D. (2021). Years of good life is a well-being indicator designed to serve research on sustainability. *Proceedings of the National Academies of Sciences* 118 (12) e1907351118. <https://www.pnas.org/doi/full/10.1073/pnas.1907351118>

Lutz, W., Reiter, C., Özdemir, C., Yildiz, D., Guimaraes, R. & Goujon, A. (2021). Skills-adjusted human capital shows rising global gap. *Proceedings of the National Academies of Sciences* 118 (7) e2015826118. <https://doi.org/10.1073/pnas.2015826118>.

Marois, G., Bélanger, A. & Lutz, W. (2020). Population aging, migration, and productivity in Europe. *Proceedings of the National Academies of Sciences* 117 (14): 7690-7695. <https://doi.org/10.1073/pnas.1918988117>

Lutz, W., Crespo Cuaresma, J., Kebede, E., Fuernkranz-Prskawetz, A., Sanderson, W. & Striessnig, E. (2019). Education rather than age-structure brings demographic dividend. *Proceedings of the National Academies of Sciences* 116 (26): 12798-12803. <https://doi.org/10.1073/pnas.18203621166>

Kebede, E., Goujon, A. & Lutz, W. (2019). Stalls in Africa's fertility decline partly result from disruptions in female education. *Proceedings of the National Academies of Sciences* 116 (8): 2891-2896. <https://doi.org/10.1073/pnas.1717288116>

- KC, S., Wurzer, M., Springer, M. & Lutz, W. (2018). Future population and human capital in heterogeneous India. *Proceedings of the National Academies of Sciences* 115 (33): 8328-8333. <https://doi.org/10.1073/pnas.1722359115>
- Lutz, W. (2017). How population growth relates to climate change. *Proceedings of the National Academies of Sciences* 114(46): 12103-12105. <https://doi.org/10.1073/pnas.1717178114>
- Lutz, W. (2017). Global sustainable development priorities 500 y after Luther: Sola schola et sanitate. *Proceedings of the National Academies of Sciences* 114(27): 6904-6913. <https://doi.org/10.1073/pnas.1702609114>
- Abel, G., Barakat, B., KC, S. & Lutz, W. (2016). Meeting the sustainable development goals leads to lower world population growth. *Proceedings of the National Academies of Sciences* 113(50): 14294–14299. <http://www.pnas.org/content/early/2016/11/28/1611386113>

### **Philosophical Transactions:**

- Lutz, W. & KC., S. (2010). Dimensions of global population projections: What do we know about future population trends and structures? *Phil. Trans. R. Soc. B* 365: 2779-2791. <https://doi.org/10.1098/rstb.2010.0133>
- Lutz, W. (2009). Sola schola et sanitate: Human capital as the root cause and priority for international development? *Phil. Trans. R. Soc. B* 364: 3031-3047. <https://doi.org/10.1098/rstb.2009.0156>
- Lutz, W. & Ren, Q. (2002). Determinants of human population growth. *Phil. Trans. R. Soc. Lond* 357: 1197-1210. <https://doi.org/10.1098/rstb.2002.1121>

### **Population and Development Review:**

- Lutz, W. & Kebede, E. (2018). Education and health: Redrawing the Preston curve. *Population and Development Review* 44(2): 343-361. <https://onlinelibrary.wiley.com/doi/full/10.1111/padr.12141>
- Striessnig, E. & Lutz, W. (2016). Demographic strengthening of European identity. *Population and Development* 42 (2): 305-311. <https://doi.org/10.1111/j.1728-4457.2016.00133.x>
- Lutz, W. (2014). A population policy rationale for the twenty-first century. *Population and Development* 40 (3): 527-544. <https://doi.org/10.1111/j.1728-4457.2014.00696.x>
- Lutz, W. (2012). Demographic metabolism: A predictive theory of socioeconomic change. *Population and Development* 38, Population and Public Policy: Essays in Honor of Paul Demeny (Supplement): 283-301. <https://doi.org/10.1111/j.1728-4457.2013.00564.x>
- Scherbov, S., Lutz, W. & Sanderson, W.C. (2011). The uncertain timing of reaching 8 billion, peak world population, and other demographic milestones. *Population and Development* 37(3): 571-578. <https://doi.org/10.1111/j.1728-4457.2011.00435.x>
- Pamuk, E. R., Fuchs, R. & Lutz, W. (2011). Comparing relative effects of education and economic resources on infant mortality in developing countries. *Population and Development* 37(4): 637-664. <https://doi.org/10.1111/j.1728-4457.2011.00451.x>
- Lutz, W., Crespo Cuaresma, J. & Abbasi-Shavazi, M. J. (2010). Demography, education, and democracy: Global trends and the case of Iran. *Population and Development* 36(2): 253-281. <https://doi.org/10.1111/j.1728-4457.2010.00329.x7>
- Lutz, W. (2009). The demography of future global population aging: Indicators, uncertainty, and educational composition. *Population and Development* 35(2): 357-365. <https://doi.org/10.1111/j.1728-4457.2009.00282.x>
- Prskawetz, A., Bloom, D. E. & Lutz, W. (Eds.) (2008). *Population aging, human capital, accumulation, and productivity growth*. Supplement to *Population and Development* Vol. 34, 2008. New York: Population Council. ISBN: 978-0-87834-116-0

- Lutz, W., Goujon, A. & Wils, A., (2008). The population dynamics of human capital accumulation. In A. Prskawetz, D.E. Bloom, and W. Lutz (eds.), *Population Aging, human capital, accumulation and productivity growth* (pp. 149-187). Supplement to *Population and Development* Vol. 34, 2008. New York: Population Council. <https://www.jstor.org/stable/25434763>
- Bloom, D.E., Lutz, W. & Prskawetz, A. (2008). Introduction. In A. Prskawetz, D.E. Bloom, and W. Lutz (eds.), *Population Aging, human capital, accumulation and productivity growth* (pp. 3-14). Supplement to *Population and Development* Vol. 34, 2008. New York: Population Council. <http://www.jstor.org/stable/25434757>
- Lutz, W. & Skirbekk, V. (2005). Policies addressing the tempo effect in low-fertility countries. *Population and Development* 31(4): 699-720. <https://doi.org/10.1111/j.1728-4457.2005.00094.x>
- Goldstein, J., Lutz, W. & Scherbov, S. (2003). Long-term population decline in Europe: The relative importance of tempo effects and generational length. *Population and Development* 29(4): 699-707. <https://doi.org/10.1111/j.1728-4457.2003.00699.x>
- Lutz, W., Prskawetz, A. & Sanderson, W. C. (Eds.) (2002). *Population and environment: Methods of analysis*. Supplement to *Population and Development Review* 28, 2002. New York: The Population Council. ISBN 0-87834-104-8. <http://www.jstor.org/stable/i356664>
- Lutz, W., Prskawetz, A. & Sanderson, W.C. (2002). Introduction. In W. Lutz, A. Prskawetz, and W. C. Sanderson, (Eds). *Population and environment: Methods of analysis* (pp. 1-21). Supplement to *Population and Development* Vol. 28, 2002. New York: The Population Council. <https://www.jstor.org/stable/3115266>
- Lutz, W., Scherbov, S., Prskawetz, A., Dworak, M. & Feichtinger, G. (2002). Population, natural resources, and food security: Lessons from comparing full and reduced-form models. In W. Lutz, A. Prskawetz, and W. C. Sanderson, (Eds). *Population and environment: Methods of analysis* (pp. 199-224). Supplement to *Population and Development Review*, Vol. 24, 1998. New York: Population Council. <http://www.jstor.org/stable/3115274>
- Lutz, W., Sanderson, W.C. & Wils, A. (2002). Conclusions: Toward comprehensive P-E studies. In W. Lutz, A. Prskawetz, and W. C. Sanderson, (Eds). *Population and environment: Methods of analysis* (pp. 225-250). Supplement to *Population and Development* 28, 2002. New York: The Population Council. <http://www.jstor.org/stable/3115275>
- Lutz, W., Shah, M., Bilsborrow, R.E., Bongaarts, J., Dasgupta, P., Entwisle, B., Fischer, G., Garcia, B., Hogan, D. J., Jernelov, A., Jiang, Z., Kates, R. W., Lall, S., MacKellar, F. L., Makinwa-Adebusoye, P. K., McMichael, A. J., Mishra, V., Myers, N., Nakicenovic, N., Nilsson, S., O'Neill, B. C., Peng, X., Presser, H. B., Sadik, N., Sanderson, W. C., Sen, G., Torrey, B., van de Kaa, D., van Ginkel, H. J. A., Yeoh, B. & Zurayk, H. (2002). The Global Science Panel on Population in Sustainable Development. *Population and Development* 28(2): 367-369.
- Lutz, W. & Goujon, A. (2001). The world's changing human capital stock: Multi-state population projections by educational attainment. *Population and Development* 27(2): 323-339.
- Lutz, W., Vaupel, J. W. & Ahlburg, D. A. (Eds.) (1999). *Frontiers Population Forecasting*. Supplement to *Population and Development Review*, Vol. 24, 1998. New York: Population Council.
- Ahlburg, D. A. & Lutz, W. (1999). Introduction: The need to rethink approaches to population forecasts. In Wolfgang Lutz, James W. Vaupel, and Dennis A. Ahlburg (eds.), *Frontiers of Population Forecasting* (pp. 1-14). Supplement to *Population and Development Review*, Vol. 24, 1998. New York: Population Council.
- Lutz, W., Goujon, A. & Doblhammer-Reiter, G. (1999). Demographic dimensions in forecasting: Adding education to age and sex. In W. Lutz, J.W. Vaupel, and D.A. Ahlburg (Eds.). *Frontiers of Population Forecasting* (pp. 42-58). Supplement to *Population and Development Review*, Vol. 24, 1998. New York: Population Council.
- Lutz, W., Sanderson, W. C. & Scherbov, S., (1999). Expert-based probabilistic population projections. In W. Lutz, J.W. Vaupel, and D.A. Ahlburg (Eds.). *Frontiers of Population Forecasting* (pp. 139-155). Supplement to *Population and Development Review*, Vol. 24, 1998. New York: Population Council.

Ahlburg, D.A., Lutz, W. & Vaupel, J. W. (1999). Ways to improve population forecasting: What should be done differently in the future? In W. Lutz, J.W. Vaupel, and D.A. Ahlburg (Eds.). *Frontiers of Population Forecasting* (pp. 191-198). Supplement to *Population and Development Review*, Vol. 24, 1998. New York: Population Council.

O'Neill, B. C., Scherbov, S. & Lutz, W. (1999). The long-term effect of the timing of fertility decline on population size. *Population and Development* 25(4): 749-756.

MacKellar, F. L., Lutz, W., Prinz, C. & Goujon, A. (1995). Population, households and CO2 emissions. *Population and Development* 21(4): 849-865.

Lutz, W. & Büttner, T. (1990). Estimating fertility responses to policy measures in the German Democratic Republic. *Population and Development* 16(3): 539-555.

## POPULAR SCIENCE BOOKS

[P3] Lutz, W. & Klingholz, R. (2017). *Education first! From Martin Luther to sustainable development*. Stellenbosch, South Africa: Sun Media. (Slightly modified English version of P2). ISBN 978-1-928357-35-3 9

[P2] Klingholz, R. & W. Lutz, W. 2016. *Wer ueberlebt? Bildung entscheidet über die Zukunft der Menschheit* (Who survives? Education decides the future of humanity) Frankfurt, Germany: Campus Verlag (in German). ISBN 978-3593505107

[P1] Fischler, F. & Lutz, W. (2014). *Zukunft Denken – Werden es unsere Kinder besser haben?* (Thinking the Future - Will our Children be Better off?). Vienna, Austria: Galila Verlag (in German). ISBN 978-3-902533-62-3

## IIASA FLAGSHIP REPORT

Lutz, W. & Pachauri, S. (Eds.) (2023). *Systems Analysis for Sustainable Wellbeing. 50 Years of IIASA Research, 40 Years After the Brundtland Commission, Contributing to the Post-2030 Global Agenda*. International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria. DOI:10.5281/zenodo.8214208.

Lutz, W. & Pachauri, S. (2023). Introduction : Systems analysis for a challenged world. In W. Lutz & S. Pachauri (Eds.) *Systems Analysis for Sustainable Wellbeing. 50 Years of IIASA Research, 40 Years After the Brundtland Commission, Contributing to the Post-2030 Global Agenda* (pp. 2-12). International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria. DOI: 10.5281/zenodo.8214208

Goujon, A., Lutz, W. & Mackellar, L. (2003). Population and human capital. In W. Lutz & S. Pachauri (Eds.) (2023). *Systems Analysis for Sustainable Wellbeing. 50 Years of IIASA Research, 40 Years After the Brundtland Commission, Contributing to the Post-2030 Global Agenda* (pp. 13-25). International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria. DOI: 10.5281/zenodo.8214208

Pachauri, S. & Lutz, W. (2003). Moving into the future : Three critical policy messages. In W. Lutz & S. Pachauri (Eds.) (2023). *Systems Analysis for Sustainable Wellbeing. 50 Years of IIASA Research, 40 Years After the Brundtland Commission, Contributing to the Post-2030 Global Agenda* (pp. 77-92). International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria. DOI: 10.5281/zenodo.8214208

## FULL LISTS OF REFERRED SCIENTIFIC PUBLICATIONS

### SCIENTIFIC BOOKS OR SPECIAL ISSUES OF SCIENTIFIC JOURNALS (authored, edited)

[B27] Lutz, W. (2021). *Advanced Introduction to Demography*. Edward Elgar Publishing. ISBN 978-1-78990-148-1

[B26] Lutz, W., Amran, G., Belanger, A., Conte, A., Gailey, N., Ghio, D., Grapsa, E., Jensen, K., Loichinger, E., Marois, G. et al. (2019). *Demographic Scenarios for the EU: Migration, population and education*. Publications Office of the European Union, Luxembourg. <https://doi.org/10.2760/590301>.

- [B25] Messerli, P., Murniningtyas, E., Eloundou-Enyegue, P., Foli, E.G., Furman, E., Glassman, A., Hernández Licona, G., Kim, E.M., Lutz, W., Moatti, J.-P. et al. (2019). *Global Sustainable Development Report 2019: The Future is Now – Science for Achieving Sustainable Development*. United Nations, New York.
- [B24] Lutz, W., Goujon, A., K.C., S., Stonawski, M. & Stilianakis, N. (2018). *Demographic and Human Capital Scenarios for the 21st Century: 2018 assessment for 201 countries*. Publications Office of the European Union, Luxembourg. <https://doi.org/10.2760/41776>.
- [B23] Butz, W.P., Lutz, W. & Sendzimir, J. (2014). *Education and Differential Vulnerability to Natural Disasters*. IIASA Research Report (Reprint). IIASA, Laxenburg, Austria: RP-14-001. Special Feature of *Ecology and Society* 19 (1), March 2014. <http://www.ecologyandsociety.org/issues/view.php/feature/73>
- [B22] Lutz, W., Butz, W.P. & K.C., S. (2014). *World Population & Human Capital in the Twenty-first Century*. UK: Oxford University Press. ISBN 0198703163
- [B21] Prskawetz, A., Bloom, D.E. & Lutz, W. (2008). *Population Aging, Human Capital Accumulation, and Productivity Growth*. New York: Population Council. ISBN 978-0-87834-116-0
- [B20] Lutz, W., Richter, R. & Wilson, C. (2006). *The New Generations of Europeans: Demography and Families in the Enlarged European Union*. London: Earthscan. ISBN 9781844073511
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