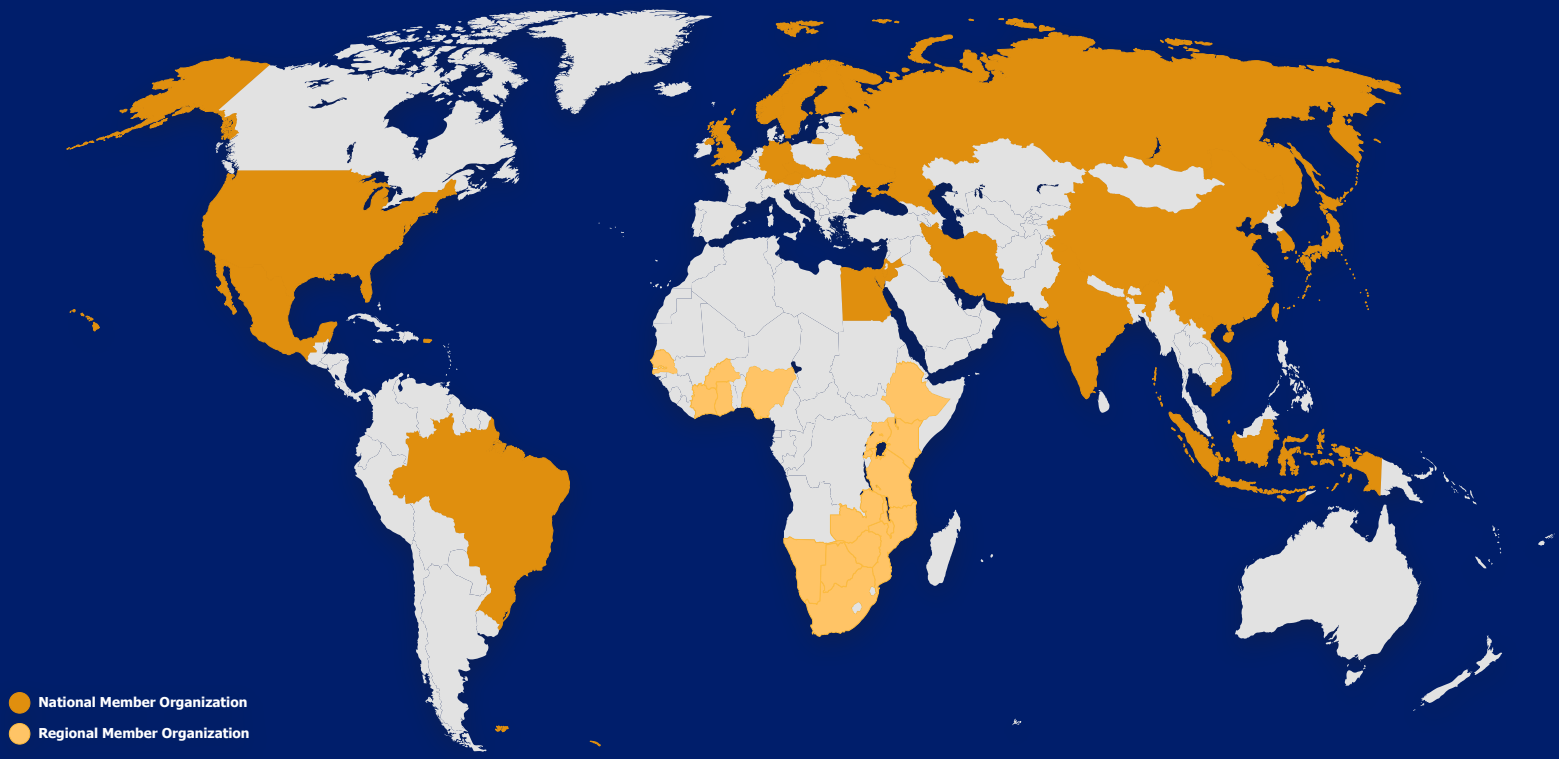
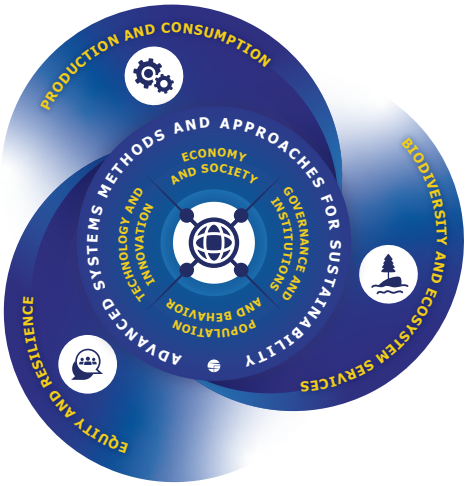
International Institute for Applied Systems Analysis

IIASA is the primary science institute for solving world-wide problems in the areas of climate, environment and natural resources, energy, risk and resilience, population, societal dynamics, and transitions to new technologies.



NATIONAL AND REGIONAL MEMBER ORGANIZATIONS

IIASA was established in 1972 during the Cold War to build scientific bridges between East and West. Today, its members and funders span the globe. Countries and regions are represented by their member organizations which are part of the IIASA governing Council and provide or facilitate the core funding of the institute.



SUSTAINABILITY TRANSFORMATIONS

IIASA research is focused on transformational changes towards sustainable social-economic-environmental systems. Research shows that transformations for sustainability are effected through drivers and pressures including profound reforms in institutions and governance, shifting mental maps and societal norms, changing patterns of human behavior, strong data innovations and systems analytic capabilities, as well as raising and mobilizing widespread societal awareness.

REDUCING FOOTPRINTS, ENHANCING RESILIENCE

Building on almost fifty years' experience in systems science, the IIASA Strategy 2021-2030 positions IIASA to be the primary destination for integrated systems solutions and policy insights to current, emerging, and novel global sustainability challenges, threats, and opportunities. The strategy combines three integrated pillars—**research, impact enhancement**, and **implementation**—to deliver on this vision.

IIASA.AC.AT/STRATEGY

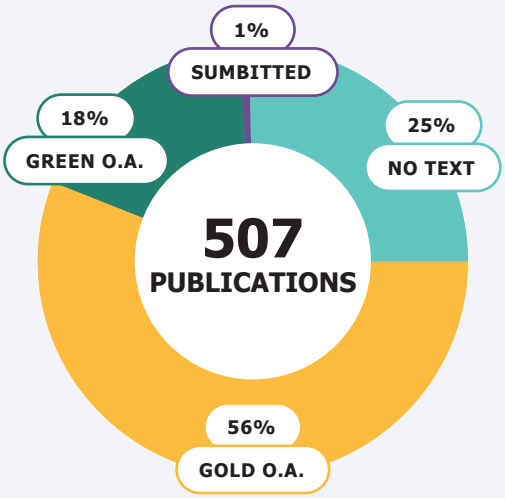
RESEARCH PROGRAMS

Research is conducted by six programs whose expertise encompasses the following principles: systemic, policy-relevant, state-of-the-art, inclusive, participative, collaborative, and open.

IIASA.AC.AT/PROGRAMS

For more information, please visit:

IIASA.AC.AT/INFOKIT



PUBLICATIONS AND OPEN ACCESS

In 2021, **507 IIASA publications** were written in collaboration with researchers from over 90 countries and regions. By 2021 IIASA publications have received more than 43k citations.

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OUR PEOPLE

In 2021, **434 researchers** from **53 countries** were affiliated with IIASA. Of the 434, 71% came from Member Organization countries.

POSTDOCTORAL PROGRAM

The IIASA postdoctoral program aims to encourage and promote the development of early-career researchers. The fellowships offer them the opportunity to gain hands-on professional research experience in a highly international scientific environment. In return, they enrich the intellectual environment at IIASA and help achieve research goals.

IIASA.AC.AT/POSTDOC

YOUNG SCIENTISTS SUMMER PROGRAM (YSSP)

The renowned IIASA YSSP allows students to work alongside distinguished IIASA researchers for three months, gaining new insights into their own field of research as well as those of the institute.

IIASA.AC.AT/YSSP

SELECTED PUBLICATIONS

IIASA produces world class science, which is regularly published in high-impact publications. A selection of articles (co)authored by IIASA researchers and published in Nature and selected other Nature Publishing Group (NPG) journals, Proceedings of the National Academy of Sciences of the United States of America (PNAS), and Science is presented here. Publication statisitics are also included to show the number of IIASA publications in recent years.

Environmental Research Letters

Kikstra, J.S., Waidelich, P., Rising, J., Yumashev, D., Hope, C., & Brierley, C.M. (2021). The social cost of carbon dioxide under climate-economy feedbacks and temperature variability. *Environmental Research Letters* 16 (9) 094037. DOI: 10.1088/1748-9326/ac1d0b. [pure.iiasa.ac.at/17404]

Nature

Bednar, J., Obersteiner, M., Baklanov, A., Thomson, M., Wagner, F., Geden, O., Allen, M., & Hall, J.W. (2021). Operationalizing the net-negative carbon economy. *Nature* 596 377-383. DOI: 10.1038/s41586-021-03723-9. [pure.iiasa.ac.at/17312]

Nature Climate Change

Janssens, C., Havlík, P., Krisztin, T., Baker, J., Frank, S., Hasegawa, T., Leclère, D., Ohrel, S., et al. (2021). International trade is a key component of climate change adaptation. *Nature Climate Change* 11 (11) 915-916. DOI: 10.1038/s41558-021-01201-8. [pure.iiasa.ac.at/17610]

Nature Communications

Chang, J., Gasser, T., Smith, P., Herrero, M., Havlik, P., Obersteiner, M., Guenet, B., Goll, D.S., et al. (2021). Climate warming from managed grasslands cancels the cooling effect of carbon sinks in sparsely grazed and natural grasslands. *Nature Communications* DOI: 10.1038/s41467-020-20406-7. [pure.iiasa.ac.at/16976]

Nature Energy

Pachauri, S., Poblete Cazenave, M., Aktas, A., & Gidden, M. (2021). Clean cooking access may stall under slow post-pandemic recovery and ambitious climate mitigation without explicit focus. *Nature Energy* DOI: 10.1038/s41560-021-00939-x. [pure.iiasa.ac.at/17644]

Proceedings of the National Academy of Sciences of the United States of America (PNAS)

Marois, G., Gietel-Basten, S., & Lutz, W. (2021). China's low fertility may not hinder future prosperity. *Proceedings of the National Academy of Sciences* 118 (40) e2108900118. DOI: 10.1073/pnas.2108900118. [pure.iiasa.ac.at/17451]

Science

Desai, B., Bresch, D.N., Cazabat, C., Hochrainer-Stigler, S., Mechler, R. , Ponserre, S., & Schewe, J. (2021). Addressing the human cost in a changing climate. *Science* 372 (6548) 1284-1287. DOI: 10.1126/science.abh4283. [pure.iiasa.ac.at/17273]

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