

Science academies publish statements on primary concerns for international action ahead of the G7 summit

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The science academies of the G7 states are calling for urgent international action to protect the ocean and polar regions and to



accelerate decarbonization. In the healthcare sector, scientists demand increased global pandemic preparedness and the implementation of a One Health approach, which considers the health of humans, animals, plants and the wider environment as closely linked and interdependent. Their recommendations are set out in four statements which were submitted to the German federal government today at the Science7 Dialogue Forum 2022 in Berlin/Germany.

"The G7 summit must provide leadership on <u>climate action</u>, the energy transition, global pandemic preparedness and One Health. Our recommendations show the need and make the case for urgent international action," explained Prof. (ETHZ) Dr. Gerald Haug, President of the German National Academy of Sciences Leopoldina, when he submitted the four statements to the Head of the German Federal Chancellery, Wolfgang Schmidt. "The four topics are interlinked and each considers the Earth system as a whole," he continued, highlighting the systemic approach of the statements. The joint recommendations developed by the G7 science academies under the leadership of the Leopoldina will inform the deliberations of the heads of state and government at the G7 summit, which is taking place at Schloss Elmau in Germany from Sunday, 26 June to Tuesday, 28 June.

Urgent need for coordinated measures to protect the ocean and the cryosphere

The global ocean and the ice and snow regions that make up the cryosphere are changing faster than ever before as a result of global warming. Ice loss has strongly accelerated in both Antarctica and Greenland and the Arctic permafrost is thawing. The seawater is becoming more acidic and warmer and sea levels are rising. Faced with these dramatic developments, the G7 science academies are calling for a substantive reduction in greenhouse gas emissions, global protection of



marine ecosystems as well as enhanced international scientific cooperation and data sharing for an Earth observation and forecasting system based on high performance computing.

Achieving climate neutrality by accelerating decarbonization

To achieve climate neutrality by 2050 or earlier, decarbonization is needed in <u>electricity generation</u>, the heating and cooling of buildings, the mobility and transport sector as well as in industry and agriculture. To this end, the G7 science academies recommend building a carbon neutral and resilient energy system, and supporting a just <u>energy transition</u> through the introduction of an international trading system for renewable energy and a global CO_2 pricing mechanism. The risks of climate change also need to be better communicated and carbon-neutral lifestyles promoted.

Development of antiviral drugs for increased pandemic preparedness

The COVID-19 pandemic demonstrated that the world is insufficiently prepared for pandemics and <u>urgent action</u> is needed to develop new antiviral drugs. The G7 science academies therefore call for long-term support for the development of specific and broad-spectrum antiviral drugs, an international coordination body for clinical studies and improved international coordination in the field of pandemic preparedness.

A One Health approach to zoonotic diseases and antimicrobial resistance



The disruption of ecosystems fosters the emergence of human pathogens from animal populations and vice versa (zoonotic diseases). Due to increasing antimicrobial resistance (AMR), the antimicrobial drugs (e.g. antibiotics) used to treat infectious diseases are losing effectiveness. To address these <u>complex problems</u>, the G7 science academies recommend a stronger focus on the One Health approach, which considers the health of humans, animals, plants and the wider environment as closely linked and interdependent. They also call for the use of new digital technologies for effective surveillance of zoonoses and AMR and fostering research and development focused on the One Health approach.

More information: Statements:

www.leopoldina.org/en/events/event/event/2962/

Provided by Leopoldina

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