



جامعة عفت
EFFAT UNIVERSITY



اتحاد الجامعات العربية
Association of Arab Universities

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Effat University

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Science Diplomacy in the age of Industry



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- Science Diplomacy Definition
- Science Policy
- Activities of Science Diplomacy
- The Need for Science Diplomacy
- World-Wide Benefits
- Raising the Issues: United Nation
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Science Diplomacy Definition

Science Diplomacy is, surely, not a new notion and for years prominent figures and organizations have discussed its urgent need, Bill Gates, President Barak Obama, United Nations, the British Royal Society, American Association for the Advancement of Science.

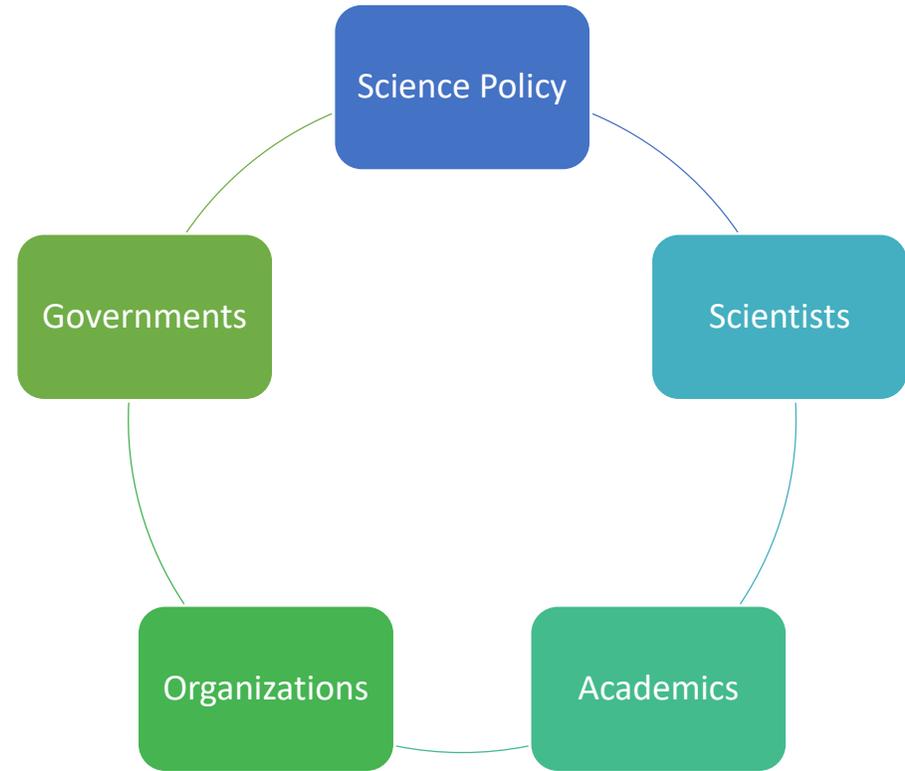


The general consensus on the definition of Science Diplomacy is that it addresses world-wide common issues such as Energy consumptions and alternatives, through international scientific cooperation and partnerships.



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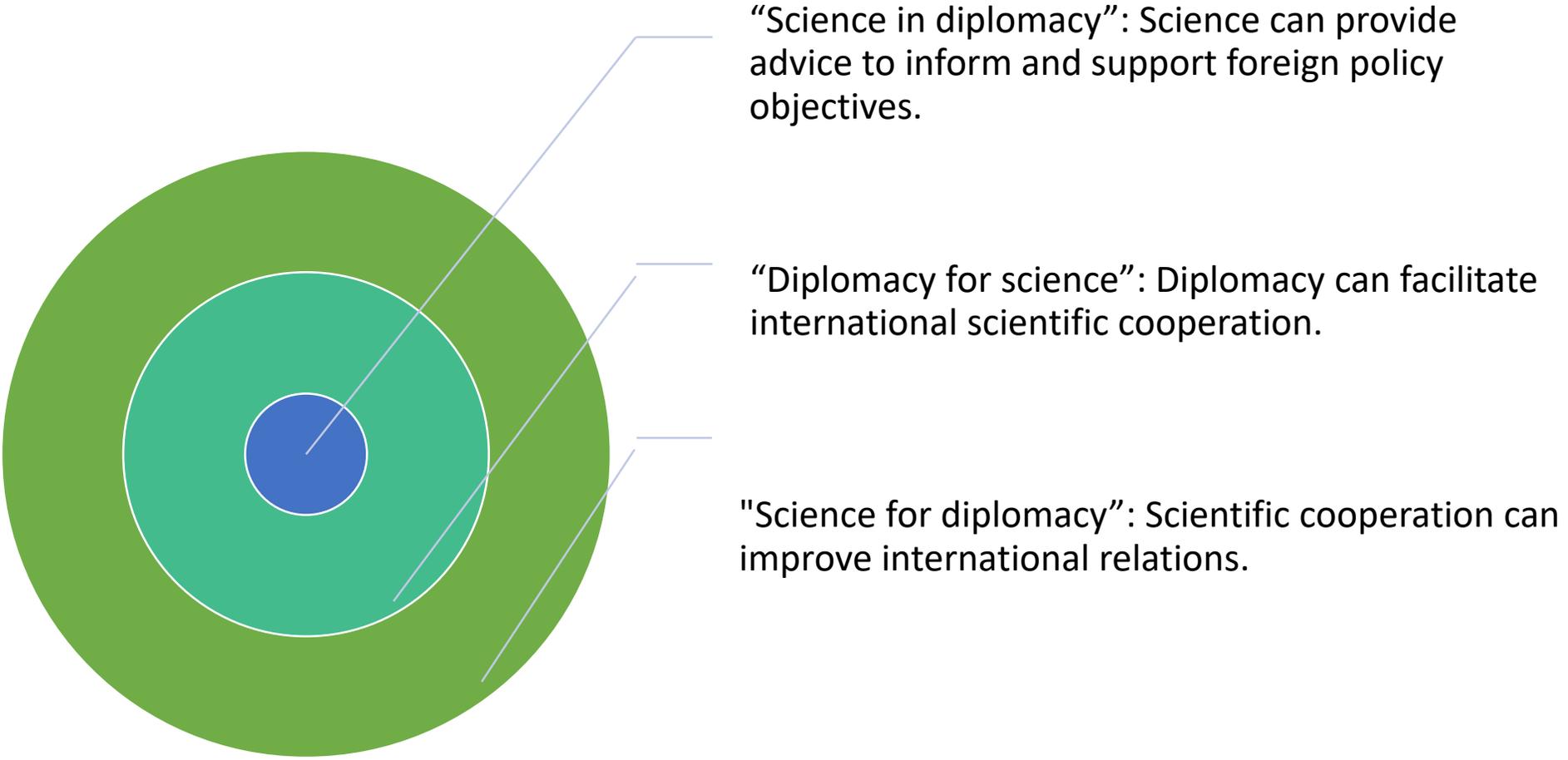
Science Policy



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Activities of Science Diplomacy

Recently, the British Royal Society and the American Association for the Advancement of Science had outlined the activities of Science Diplomacy as follows:



The Need for Science Diplomacy

In their report, published in February, 2017, AAAS (American Association for the Advancement of Science) discussed the global need for science diplomacy and the perpetually increasing challenges that nations must address.

According the United Nations, on September 25th 2015, many countries around the globe adopted a set of goals to "end poverty, protect the planet and ensure prosperity for all" as part of a new sustainable development agenda. Each goal has specific targets to be achieved over the next 15 years.

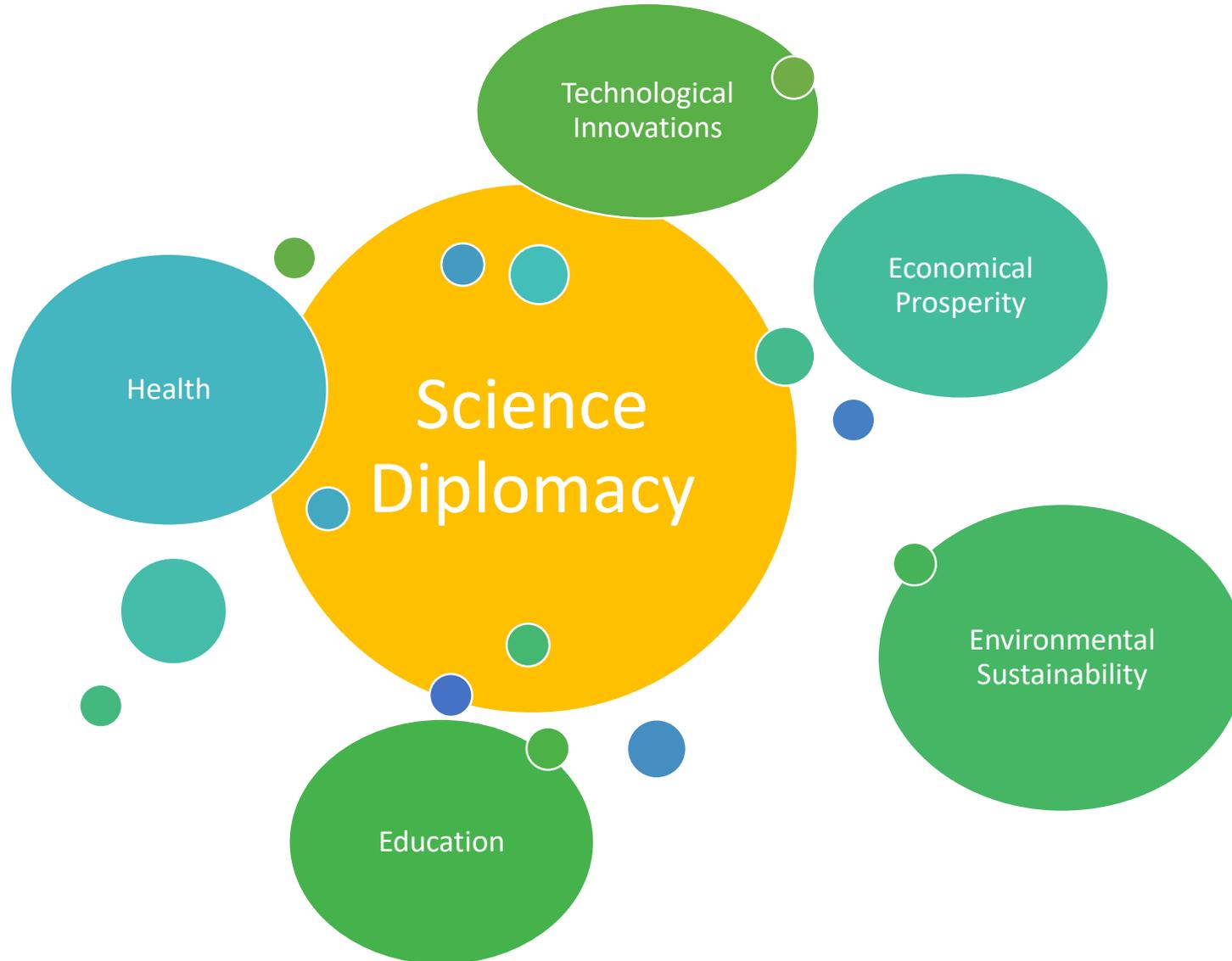
Science
Diplomacy



World-Wide Benefits



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Raising the Issues: United Nations



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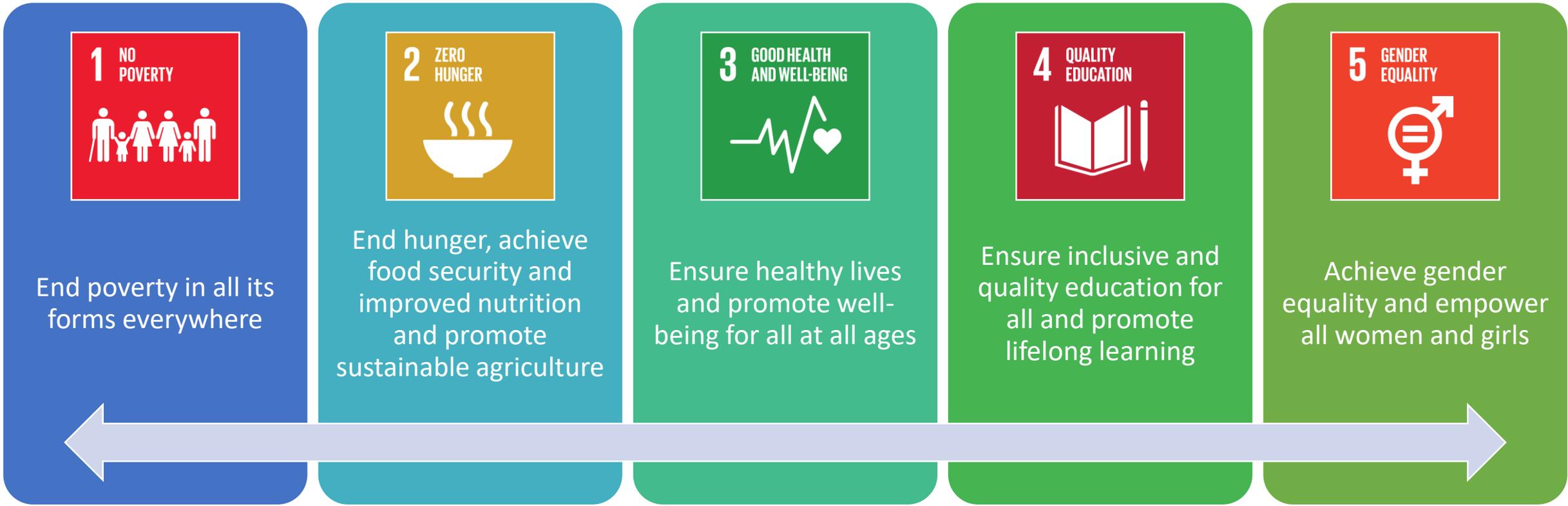
According to Effat University's report on Science Diplomacy:

combating pressing global issues requires a collaborative effort to address challenges and bring about the necessary solutions. The United Nations highlights several issues as posing serious problems and threats to our planet's safety and wellbeing. These include climate change, water, education, health and food in addition to other issues that require joint and immediate intervention.



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UN's 17 Sustainable Development Goals



UN's 17 Sustainable Development Goals



Ensure access to water and sanitation for all



Ensure access to affordable, reliable, sustainable and modern energy for all



Promote inclusive and sustainable economic growth, employment and decent work for all



Build resilient infrastructure, promote sustainable industrialization and foster innovation

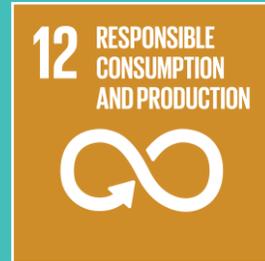


Reduce inequality within and among countries

UN's 17 Sustainable Development Goals



Make cities inclusive, safe, resilient and sustainable



Ensure sustainable consumption and production patterns



Take urgent action to combat climate change and its impacts

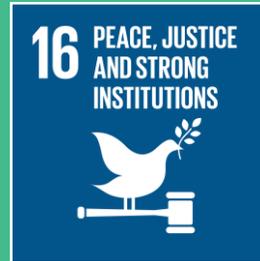


Conserve and sustainably use the oceans, seas and marine resources

UN's 17 Sustainable Development Goals



Sustainably manage forests, combat desertification, halt and reverse land degradation, halt biodiversity loss



Promote just, peaceful and inclusive societies



Revitalize the global partnership for sustainable development



A Few Notable Efforts



BioGas Backpack -
University of
Hohenheim - Germany



Eliodomestico is a solar
household still
Gabriele Diamanti



BEMPU Hypothermia
Alert Bracelet
Bempu Health



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Higher Education and Science Diplomacy

Research and higher education institutions have a particular responsibility in working across boundaries and endorsing scientific discovery for the betterment of all human life.

Case of Effat University:

Being one of the higher education institutions in the Kingdom, Effat University realizes the importance of cross-national collaborations in advancing science and innovation. Through its versatile research programs, the University facilitates collaborations and international partnerships to address these issues and provide tangible solutions. For instance, the University has a wide network of research collaborators working on issues such as water, safety and security, energy, food and health, etc. Collaborations with organizations from the US, France, Germany, Sweden, Australia and Canada are established to address these issues.

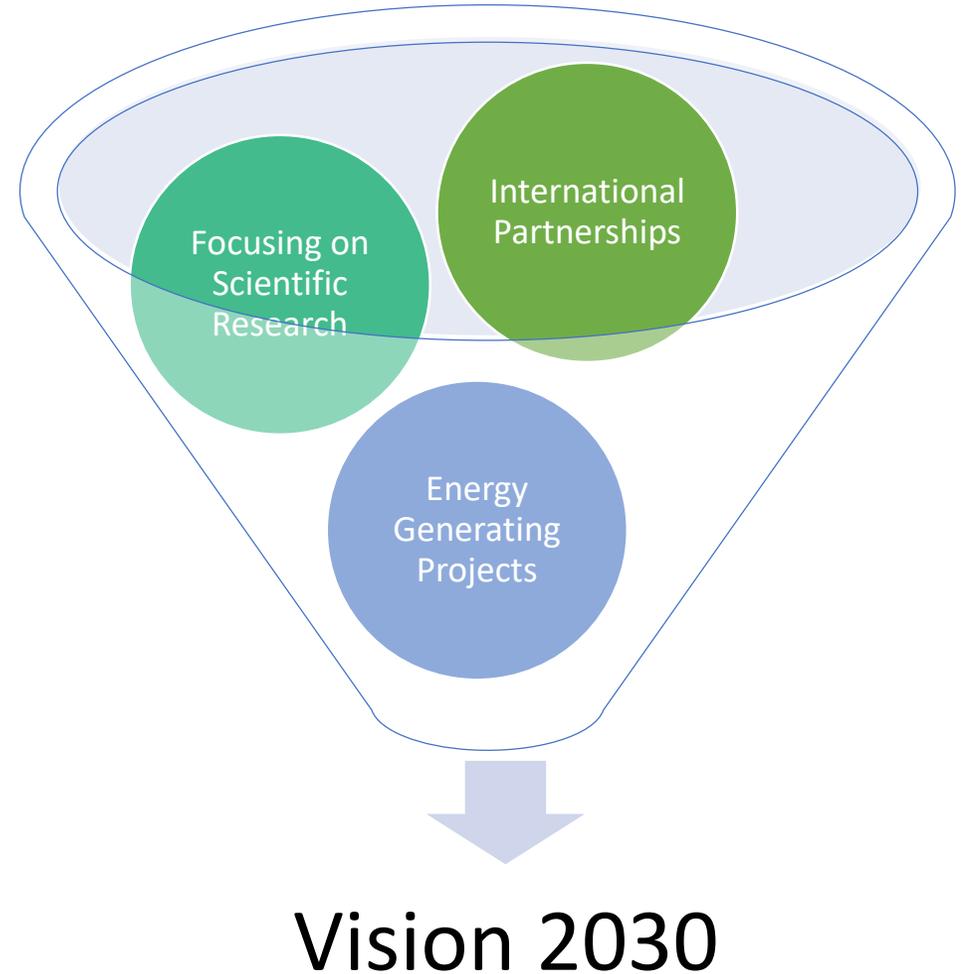
The University has also established its Visiting Researcher and Affiliates Programs for providing opportunities for research collaborations. These programs have greatly facilitated the work of international research groups and provided a platform to exchange knowledge and expertise and brainstorming solutions to globally identified issues.



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National concerns

Saudi Arabia, being the heart of the Arab and Muslim worlds as well as the gateway between three continents plays a key role in various global initiatives that transcend geographic boundaries. Through its Vision 2030 as well as the various programs and initiatives carried out by the country's institutions and organizations, the Kingdom contributes to international efforts dedicated to enhancing the quality of life for all human beings.





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Research Priorities

As the university collaborations are on national and global level, the priorities set by the university to its full time and part time researchers to address many global issues as **Water desalination, Solar Energy Optimization, Water and Food Nexus, Face Recognition, Nutrition Health, Pain Management**, and many other global topics.

Visiting Researchers program

Through this program, the university works to hire leading scientists and scholars from abroad in long-term academic research collaborations with Effat Faculty and students. The university has collaborated with Switzerland (Nestle institute of Health), United States of America (MIT, George Washington, Washington university, University of Miami, Carnegie Mellon University, and more), Australia (Macquarie University), Sweden (Linkoping University).

Also this program gives the opportunity to university researchers to be a pointed as research affiliate at world top research institutes and continue the work at Effat.



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