



ASWAN UNIVERSITY

ASWAN UNIVERSITY

# SUSTAINABILITY REPORT 2021



INTERNATIONAL RANKING OFFICE

# Sustainable Development Goals

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# 1 NO POVERTY

## End poverty in all its forms everywhere



**Aswan University** is working with all its potentials, unceasing efforts and by making use of every available possibility, to end the poverty in all its forms everywhere.

### RESEARCH

This year we have published a publication indexed in Scopus. However, other publications regarding this goal are published in Arabic, and in local journals. These journals are not indexed in Scopus or WOS. Yet, Aswan University is taking serious steps to enhance and promote researchers to publish their papers considering ending poverty in indexed journals and at least the abstract should be in English.

### 2021 Publication:

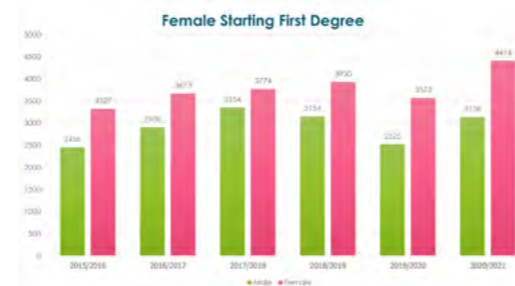
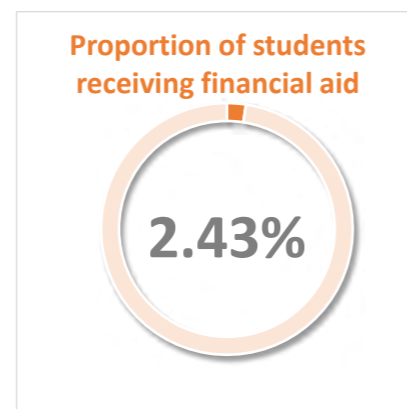
“Update, Conclusions, and Recommendations for “Agro-Environmental

### Sustainability in MENA Regions”

#### SUPPORT & FINANCIAL AID

Aswan University offers scholarships and support for those who admission at the university could be a difficulty.

In this sense, Aswan University has accepted all financial aids applications from students from low or lower-middle income families or even countries.



**The Social Solidarity Unit** at Aswan University works on three axes:



**First:** Social Protection and Economic Empowerment Axis by providing:

- » Protection and social development services.
- » Rehabilitation and integration services for persons with disabilities.
- » Economic empowerment and financial inclusion services.
- » Payment of fees for students who are unable.
- » Providing equal opportunities in education for students with disabilities by providing prosthetic devices and assistive devices for them in education.
- » Providing integrated service cards for persons with disabilities.

**Second:** Awareness and personality building axis through:

- » Holding seminars and panel discussions.
- » Distribution of brochures and awareness-raising leaflets.
- » Awareness campaigns and training courses.

**Third:** Supporting knowledge and expertise by implementing the following:

- » Inspection visits to the Ministry of Social Solidarity and conducting dialogue with workers.
- » Field visits to development projects under auspices of the Ministry.
- » Part-time volunteering for projects or groups served by the Ministry of Social Solidarity.



**2 ZERO HUNGER**



# End hunger, achieve food security and improved nutrition and promote sustainable agriculture

### Fighting Hunger on Campus

#### Policy solutions to food insecurity:

Aswan University has improved a Policy to end hunger. Therefore, Aswan University is committed to provide sustainable food and address students and staff needing this support.

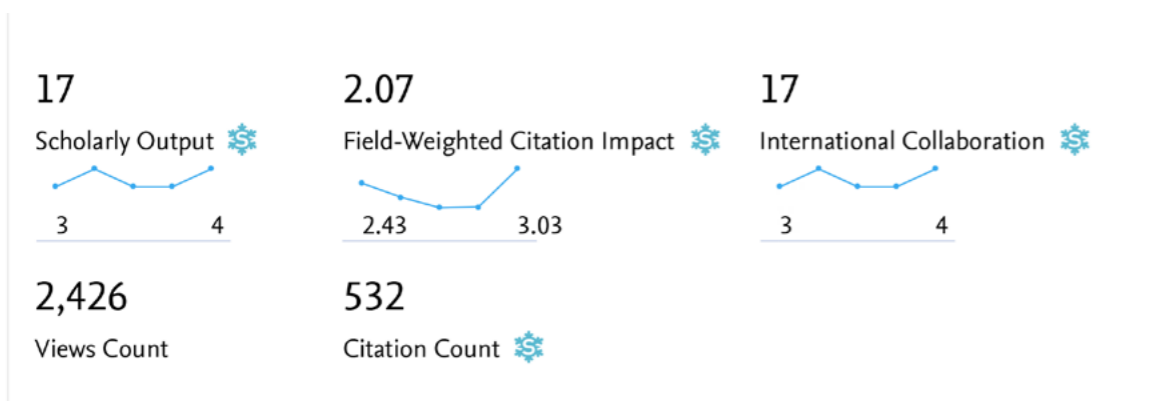
#### Research

This year Aswan University has published about four publications indexed in Scopus.

1. Anaerobic co-digestion of sludge, sug-

arcane leaves, and Corchorus stalks in Egypt.

2. A cloud-based IoT platform for precision control of soilless greenhouse cultivation
3. Acetic acid improves drought acclimation in soybean: an integrative response of photosynthesis, osmoregulation, mineral uptake and antioxidant defense
4. Methane production from anaerobic co-digestion of sludge with fruit and vegetable wastes: effect of mixing ratio and inoculum type.



### Campus solutions

Youth welfare administration of each faculty determines the number of students, who are unable to afford the cost of food, and the university presents support to them. Meals are provided to students residing in the university dormitories. The university council's decision to provide subsidized meals for non-resident students in the university dormitories at a cost of EGP 15 for meal.

Aswan University has a program to provide food security at the university for students, faculty employees and staff:

#### Support

- Food Security Program
- Social Solidarity Unit
- Social Solidarity Fund

### Food Waste

Immediate actions and interventions to reduce food waste (**Reduce, Reuse, Recycle**):

**Tray-less dining:** Trayless dining

means less food waste, decreasing water and chemical use, and reducing electricity consumption. We have already started trayless dining in almost 90% of all dining halls at Aswan University; this has contributed to a reduction of approximately **38%** of total food waste.



### Fish Farming Management Training Course:

The "Training Course on Fish farming and Management" tackled the economic feasibility of fish farms, managing the quality of fish farms' water and health procedures for trading and caring for fish.

**3 GOOD HEALTH AND WELL-BEING**



# Ensure healthy lives and promote well-being for all at all ages

**Our University** continuously pays greater attention to implement the Sustainable Development Goals, not least delivering Good Health and Well-being. To achieve this goal, Aswan University in 2021 has collaborated with various health institutions to improve health and well-being outcomes.

### Collaboration with International Health Institutions

Collaboration with the international health institution “Operation Smile and Cleft Conditions”



The collaboration was to perform multiple operations of cleft lip for free for all children need this support including immigrants children.

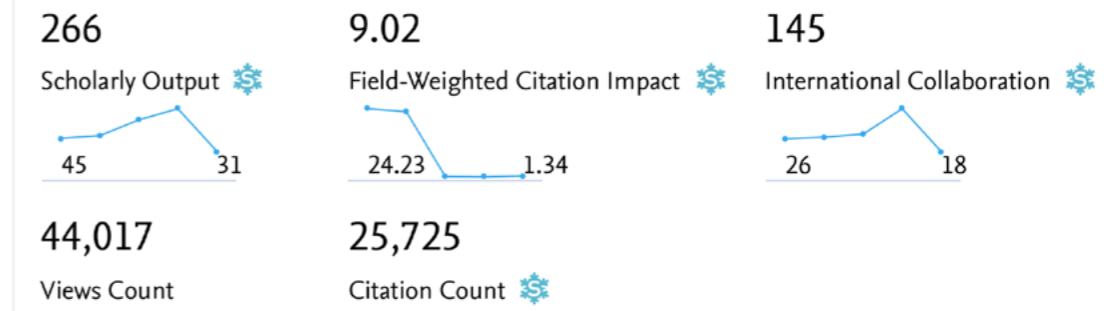


### RESEARCH

Regarding this goal, we have done great research with impressive impact, in order to contribute in improving health and well-being outcomes.

#### Top Publications for 2021:

1. Recent advances in waste-recycled nano-materials for biomedical applications: Waste-to-wealth.
2. Lunginfseg: Segmenting covid-19 infected regions in lung ct images based on a receptive-field-aware deep learning framework
3. Ornamental plant efficiency for heavy metals phytoextraction from contaminated soils amended with organic materials



### Promote Health and Wellbeing

University President Prof. Ahmed Ghallab confirmed that this marathon is held in frame of the initiative of President Abdel Fattah El-Sisi\_ Republic President under the slogan (Sport is a National Security)



### The biggest comprehensive medical convoy to Al-Alaqi village on the southern borders of Egypt

It targeted the disadvantaged and immigrants people. The medical convoy included all medical specialties, and medicines

were dispensed free of charge for all cases that were examined.



On the sidelines of the convoy's work, the university president inspected the university's headquarter in Wadi Allaqi to activate scientific research for Wadi Allaqi region and deliver health, social, cultural, environmental, agricultural and veterinary services to the people of the village.



**4 QUALITY EDUCATION**



# Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

**RESEARCH**

As with some SDGs that researchers publish in Arabic, and in local journals. SDG 4 is not immune from these point. Yet, as mentioned Aswan University is taking serious steps to enhance and promote researchers to publish their papers considering SDG 4 in indexed journals and at least the abstract



should be in English. Aswan University has launched “Mawda Project” to preserve the Egyptian Family

Aswan University has Launched “Mawada Program” to preserve the Egyptian family. It is a series of public lectures open for all especially the young people who are about to marry to train them about the skills required to preserve a successful marriage.

**Rehabilitation and training unit for literacy and adult education teachers**

The general objective of the unit: Participation in the activities of lit-



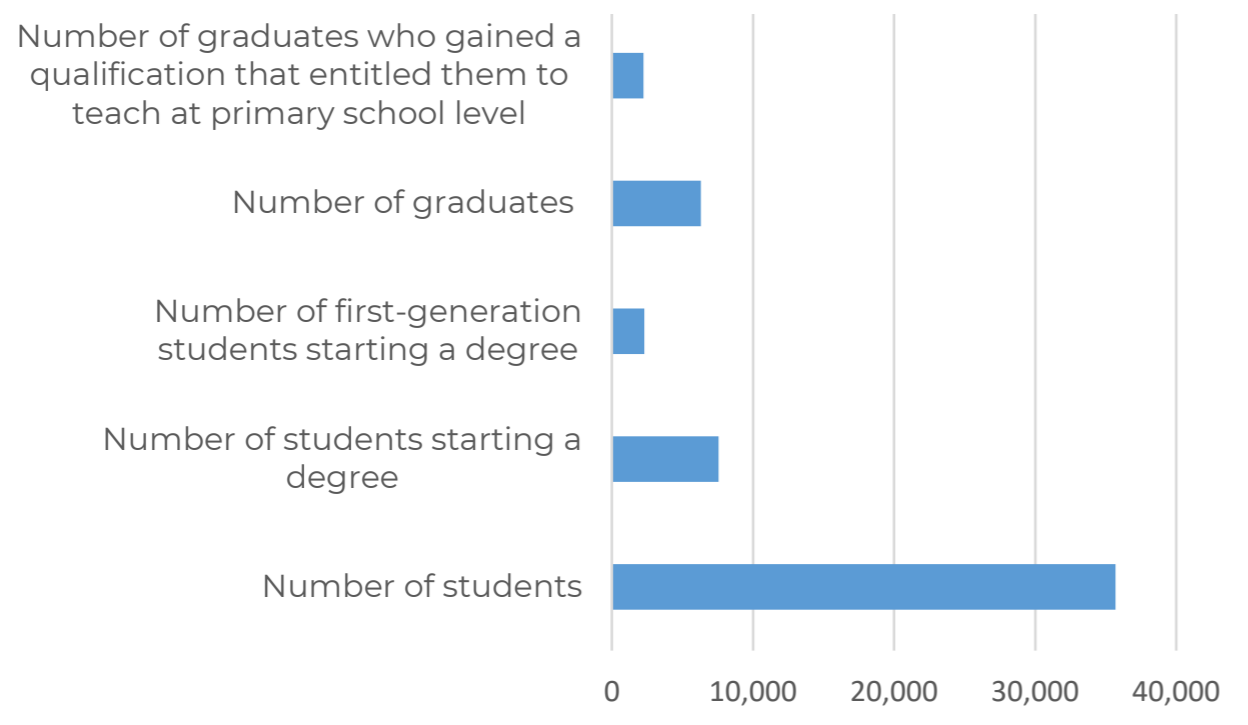
eracy of the community citizens in the vicinity of the university and training adults, Sub-objectives are derived from this general objective, which are as follows:



1. Preparing standards for the performance of the literacy and adult education teacher.
2. Preparing the Literacy and Adult Education Teacher’s manual.
3. Preparing a training unit equipped with learning resources, devices and a training manual for literacy teachers.
4. Qualifying and training university graduates from different faculties to work in literacy and adult education classes.
5. Supervising and guiding the teachers who have been rehabilitated while they are opening literacy classes and teaching the illiterates.
6. Transformational training for graduates.



Internship opportunities corporation with Khotow foundation During this month, we contacted with the Khotow Foundation for Development to publish and follow up internship opportunities.



**5 GENDER EQUALITY**



# Achieve gender equality and empower all women and girls

**Equity, Diversity and Inclusion**

Aswan University is committed to achieving sustainability and taking action in light of local and global challenges. We continue to nurture a culture of sustainability through learning, teaching, research, partnerships and how we operate our facilities, including a woman's ability to progress at the university, for ensuring strong female student access and the proportion of research authored by female academics.

**RESEARCH**

Regarding this goal, We are going forward ensure achieving gender

equality and empower all women and girls.

However in 2021, we don't have any publication directly targeting this goal.



**Community sustainability**

The University Center for Career Development has participated in

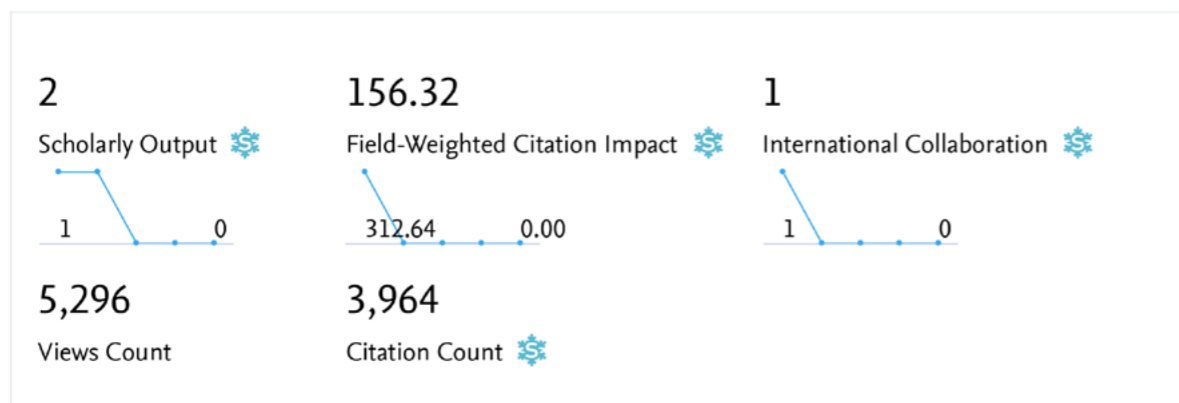
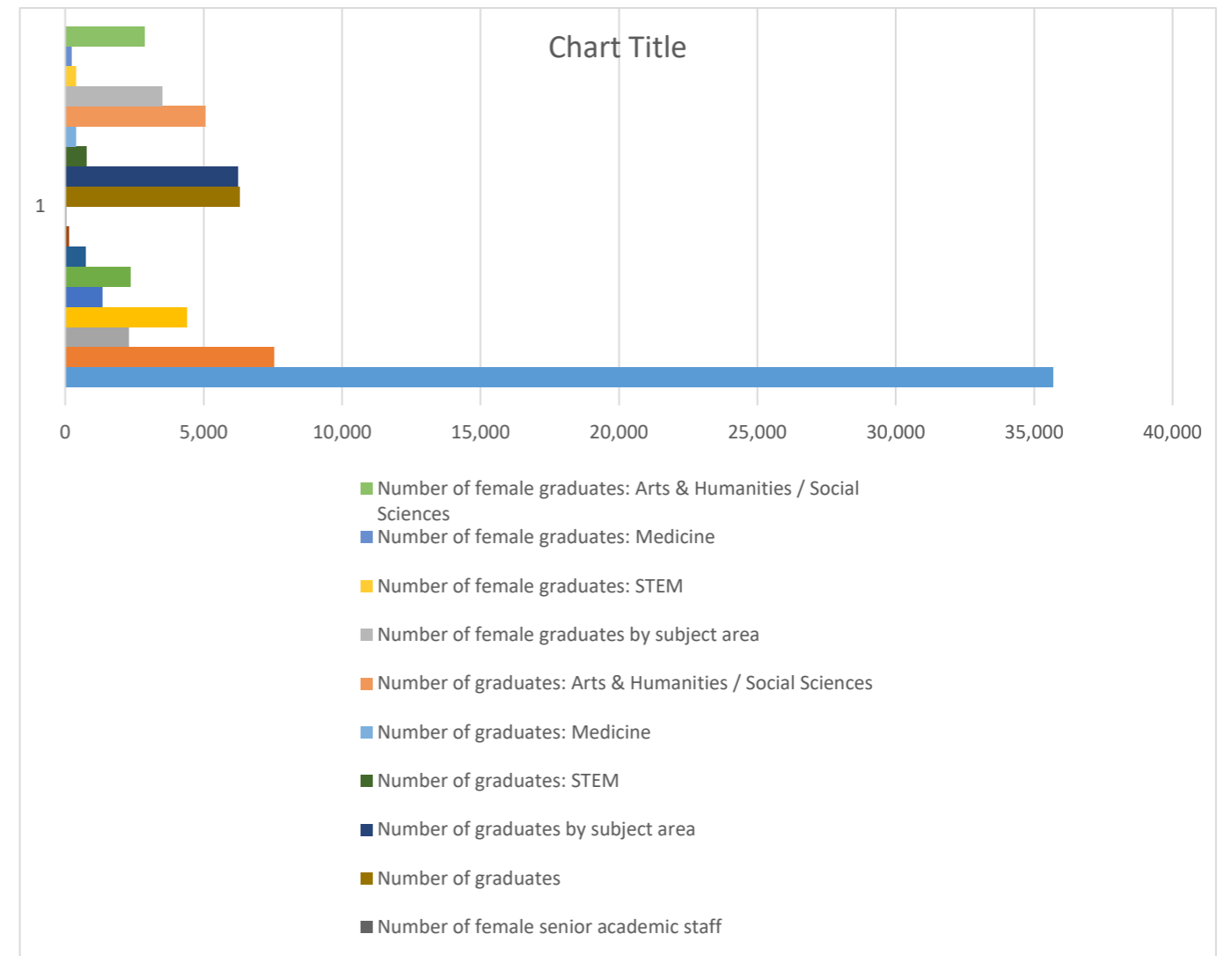
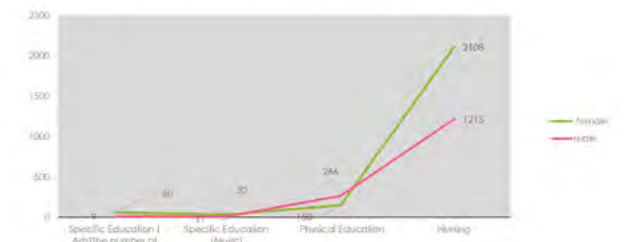
the advisory committee session of the Aswan Youth Capacity Development Project at Om- Habibeh Foundation.

**Anti-violence against women**

Aswan University hosted a workshop on Anti- violence against women in all its forms and manifestations, at the stadiums of Faculty of Physical Education, Aswan University, under the slogan "Unite . Together we reach a life free of gender-based violence."

The activities of the workshop, organized by the Southern Foundation Wome. The events of the 16 days To combat violence against women, which this year under the slogan "Unite".

Acceptance contrast rate for female at the University



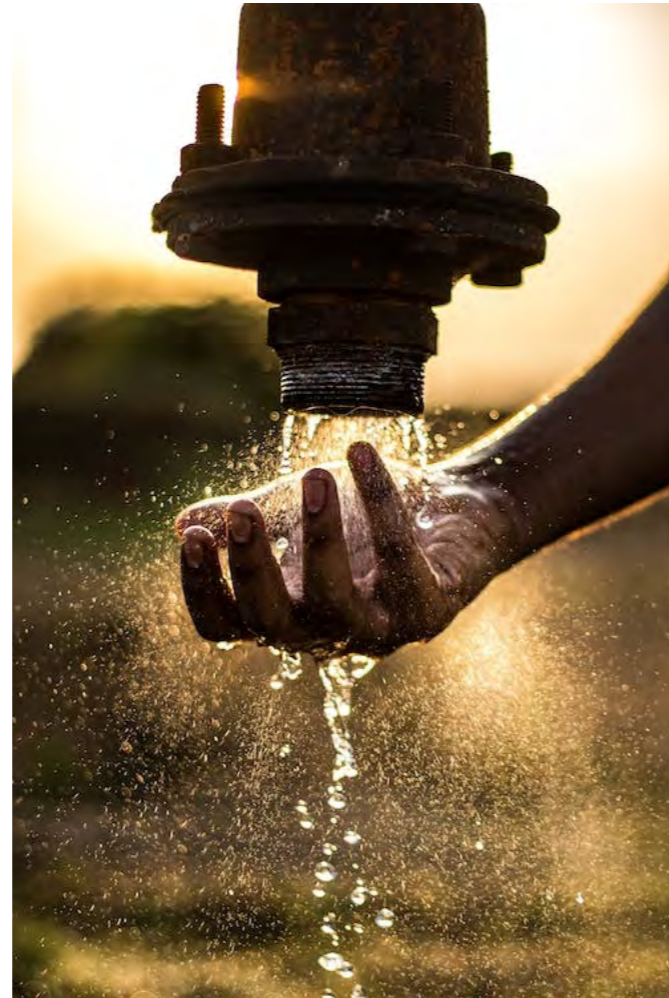
5,296 Views Count

3,964 Citation Count

**6 CLEAN WATER AND SANITATION**



# Ensure availability and sustainable management of water and sanitation for all



**RESEARCH**

Aswan University has 3 publications in 2021 regarding SDG6:

1. A cloud-based IoT platform for precision control of soilless greenhouse cultivation
2. Effects of various quantities of three irrigation water types on yield and fruit quality of 'succary' date palm
3. Water conflicts: From ancient to modern times and in the future

Aswan University seeks to improve the quality of the environment surrounding the citizen by separating

the growing human activities and the pollution that may entail.

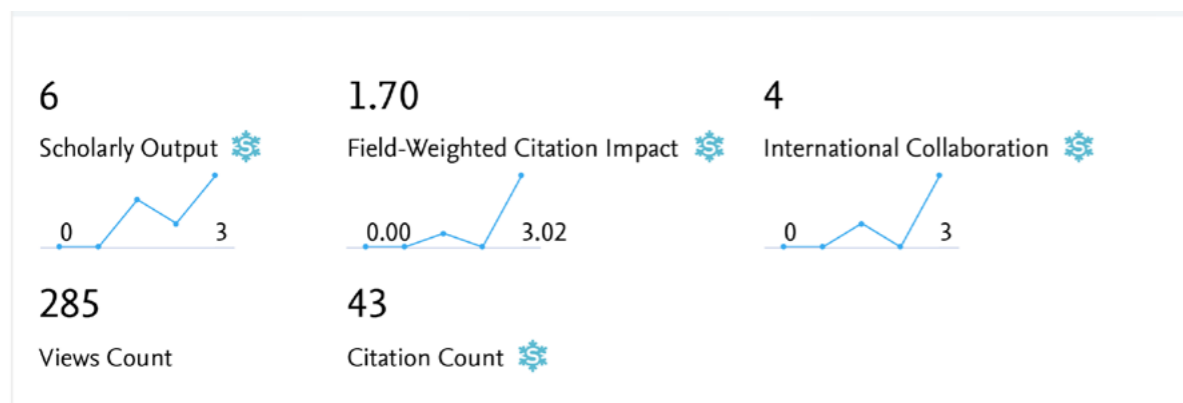
Therefore, the national agenda aims to seriously deal with the accumulated problems on the one hand, and to reduce all forms of water, air and soil pollution in the future from the other side, by integrating the environmental dimension into economic and social decisions and policies, raising awareness of the causes and negative effects of pollution. As well supporting societal control over both Sources of pollution and the efforts made to reduce it and the regulatory authorities entrusted with protecting the citizen.

**INTERNATIONAL COLLABORATION**

The Consortium of the project includes several prestigious US and Egyptian universities: University of California at Santa Cruz, Utah State University, Washington State University, Temple University, Ain Shams University, Aswan University, Beni Suef University and Zagazig University.

The consortium also includes a number of US and Egyptian private sector companies and NGOs: SEKEM Group, Lotus Company, Demerdash Group, Engazaat Development, and the NGO IBSAR, as well as AECOM, Amriton LLC, Apogee Instruments, Carollo Engineers, FREDsense Technologies, Purolite Corporation and Waters Corporation.

partnership “The Center of Excellence for Water”, that was inaugurated on September 12th, 2019 at the Faculty of Engineering – Alexandria University with the presence of the consortium representatives from US and Egyptian Universities, Egyptian private sector companies and several Ministries and Public entities in Egypt. this project is designed to be a state of the art, modern applied research center located within the premises of Alexandria University (AU), Egypt. The Center will be the hub for research and a vibrant network of Egyptian industries, research centers, and ministries.



**USAID**  
FROM THE AMERICAN PEOPLE



**THE AMERICAN UNIVERSITY IN CAIRO**



**7 AFFORDABLE AND CLEAN ENERGY**



**Ensure access to affordable, reliable, sustainable and modern energy**

**RESEARCH**

In 2021 Aswan University has published more than 91 papers. It has published more than 399 papers in indexed journals in the period from 2017 to 2021.

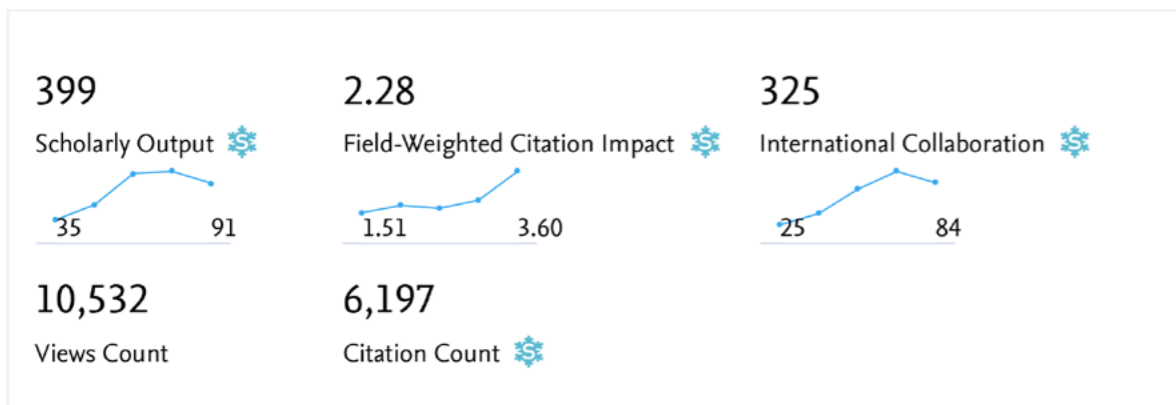
We have very good quality research regarding this area of sustainability. This clearly indicates that Aswan University has a good attitude to implement the SDGs.

Some of the significant papers in 2021:

1. Deep learning-based industry 4.0 and Internet of things to-

wards effective energy management for smart buildings

2. An Efficient Fuzzy-Logic Based Variable-Step Incremental Conductance MPPT Method for Grid-Connected PV Systems
3. Reliable industry 4.0 based on machine learning and IOT for analyzing, monitoring, and securing smart meters
4. Promising mppt methods combining metaheuristic, fuzzy-logic and ann techniques for grid-connected photovoltaic
5. Optimal allocation of distributed generators DG based Manta Ray Foraging Optimization algorithm



6. Estimating parameters of photovoltaic models using accurate turbulent flow of water optimizer



The NVL program is on a mission to save the planet. We support high-tech and sustainable startups to reduce climate change impact and pollution, promote energy independence, and innovate green energy applications.

Aswan Power Electronics Applications Research Center (APEARC) is considered a pioneer research and development R&D unit working inside university and targeted industrial societies and companies. APEARC has been established in 2008 to create a distinctive, global Center specialized in industrial electronics applications research and to support the research and outreach activities to the problems which face the industry. APEARC is

a special unit following the department of electrical engineering-Aswan Faculty Of Engineering-South Valley University - Egypt.

**International Collaboration:**

Aswan University has a strong collaborative partnership with international partners in order to review comparative approaches and develop international best practice on tackling the SDGs.

In 2021, Aswan University is working on boosting the international collaboration regarding the implementation of SDGs. One of these various forms of collaboration is the collaboration with USAID through the partnership in the Center of Excellence for Energy. This project is in cooperation with the USAID and some other Egyptian Universities, to build the research, education, and entrepreneurial capacity.



**8 DECENT WORK AND ECONOMIC GROWTH**



**Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all**

**RESEARCH**

Aswan University has not published any paper in 2021, however, we have published 2 papers in 2020 for SDG 8, they are:

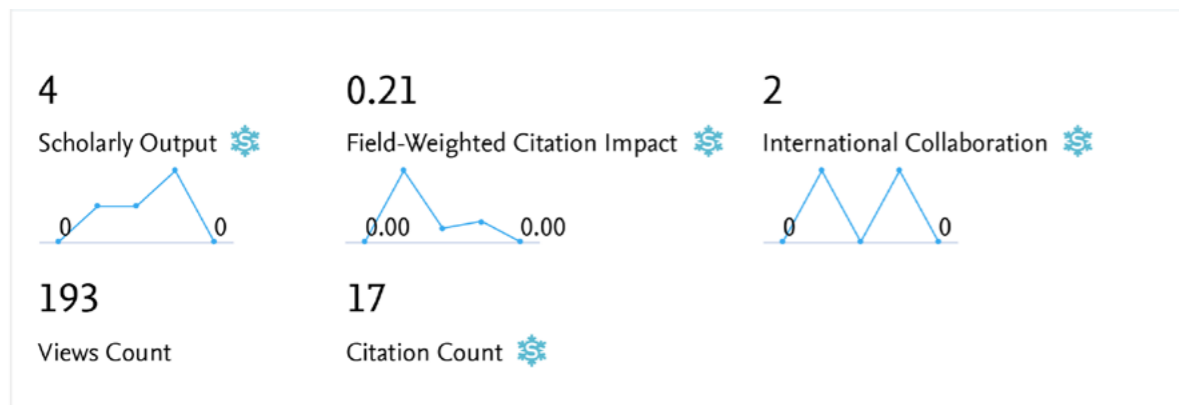
1. Mapping indicators of cultural ecosystem services: Review and relevance to urban context
2. Update, Conclusions, and Recommendations for “Flash Floods in Egypt”

**International Collaboration**

In partnership with USAID and the Ministry of Higher Education and



Scientific Research, Aswan University inaugurated the University Center for Career Development at Aswan University, which will prepare Egypt’s youth for and connect them to today’s job market. This activity is a vital link between higher education and the private sector in



Egypt.

Accordingly, investments in education, training and rehabilitation to increase the efficiency of the human element are among the most important investments that the state undertakes to establish a knowledge economy capable of achieving development aspirations. By providing a permanently developable and learning community.

**UCCD 2021 Virtual March Expo**

Turning Unprecedented Challenge to a Great Opportunity

UCCD Virtual Career Platform/Expo -- 57 companies | 3500+ career opportunities | 4000+ Egyptian public university students | 10 Egyptian universities.

Deputy Minister of Higher Edu-

cation and Scientific Research for University Affairs, Ayman Ashour, US Ambassador to Egypt Jonathan R. Cohen, USAID Mission Director Leslie Reed, The American University in Cairo (AUC) President Francis Ricciardone, Egyptian Government Representative at AUC Counselor Ashraf Hatem and Presidents of Egyptian public universities inaugurated on Monday, March 22, 2021 the virtual career platform for the University Centers of Career Development Project (UCCD).



**9 INDUSTRY, INNOVATION AND INFRASTRUCTURE**



**Build resilient infrastructure, promote sustainable industrialization and foster innovation**

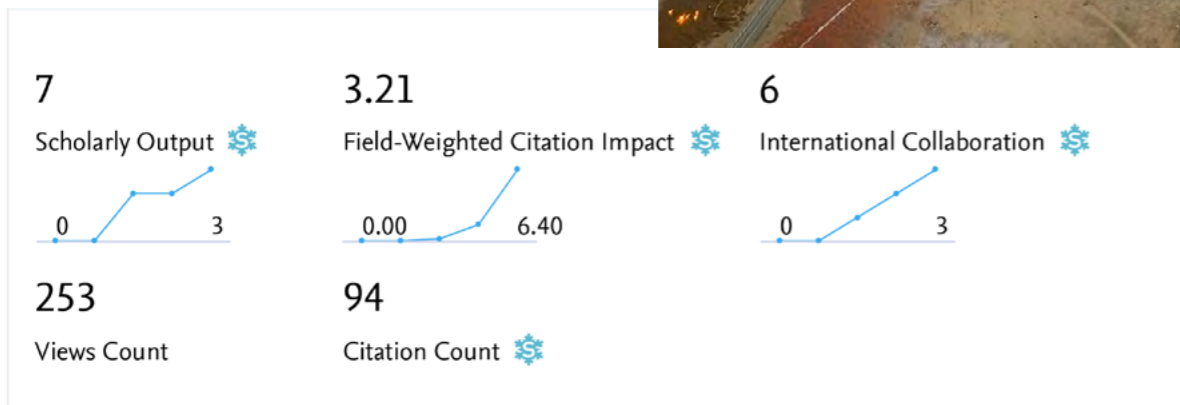
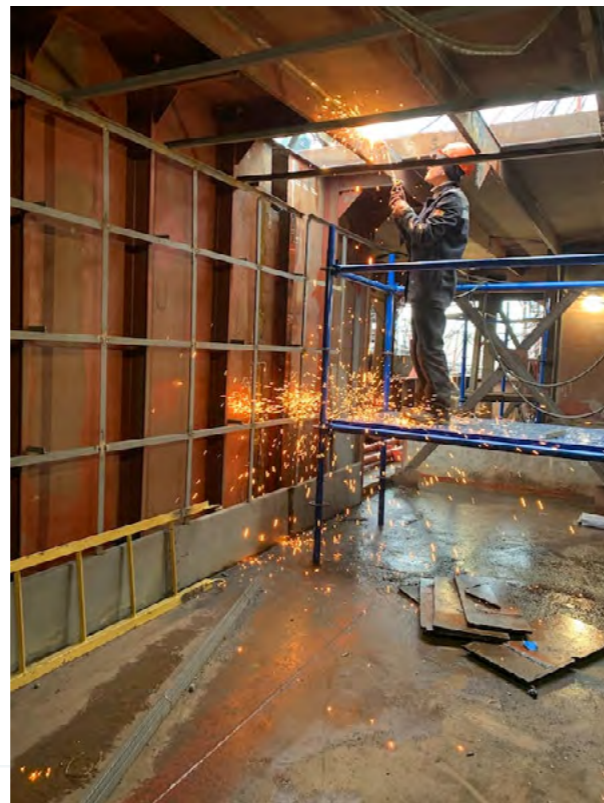
**Research**

Aswan University has published 7 papers during the the priod between 2017 and 2021 for SDG9, and this is not A promising number. We are setting targets to boost publishing in this area in indexed journals.

**PUBLICATIONS (2021)**

1. Intelligent Traffic Management System Based on the Internet of Vehicles (IoV)
2. Traffic queuing management in the Internet of things: An optimized red algorithm based approach

3. Deep learning-based industry 4.0 and Internet of things towards effective energy management for smart buildings.



The NVL program is on a mission to save the planet. We support high-tech and sustainable startups to reduce climate change impact and pollution, promote energy independence, and innovate green energy applications.

**APPROACH**

Investment in infrastructure and innovation are crucial drivers of economic growth and development, and are key to finding lasting solutions to both economic and environmental challenges. Promoting sustainable industries and investing in scientific research and innovation are all important ways to facilitate sustainable development. More than 4 billion people still do not have access to the Internet, and 90% are from the developing world. Bridging this digital divide is crucial to ensuring equal access to information and knowledge, as well as fostering innovation and entrepreneurship. SDG 9 is further refined by targets that can be more easily translated into actions. These targets highlight the intercon-

nected nature of the goals. For example, strategies to support inclusive industrialization and innovation also promote progress toward SDG 5 (Gender Equality) and SDG 8 (Decent Work & Economic Growth)

For the sake of sustainable, inclusive development, and for the sake of innovative generations that strive for knowledge development and continuous development, the National Agenda has ensured that knowledge, innovation and scientific research be one of the pillars and drivers that support it.

And that is through establishing the close relationship between the localization and employment of technology and utilizing it for sustainable inclusive growth and linking it to social aspects through investing in human capital and building scientific and practical capabilities in accordance with the latest educational systems, technical qualification and vocational training, in order to improve the level of educational and training services provided, And considering transformational training as one of the main drivers for qualifying and employing untapped human resource.

# 10 REDUCED INEQUALITIES



## Reduce inequality within and among countries

### Research

Aswan University has published 7 papers during the the priod between 2017 and 2021 for SDG10, one of them in 2021:

1. An improved Manta ray foraging optimizer for cost-effective emission dispatch problems..

### PUBLICATIONS (2021)

1. An improved Manta ray foraging optimizer for cost-effective emission dispatch problems.

As mentioned before, Aswan Uni-

versity is taking serious steps to enhance and promote researchers to publish their papers considering SDGs in indexed journals and at least the abstract should be in English.

As most of research regarding this goal are published in Arabic, and in local journals. These journals are not indexed in Scopus or WOS.

### APPROACH

SDG 10 is further refined by targets that can be more readily translated into actions. These targets high-

light the interconnected nature of the goals: For example, strategies to support Reduced Inequalities also promote progress toward SDG 5 (Gender Equality) and SDG 3 (Quality Education)

The constitution placed the social aspect as a cornerstone of the national agenda for sustainable development, as its introduction stipulated, “We write a constitution that achieves equality between us in rights and duties without any discrimination.” Its fourth article states, “Sovereignty belongs to the people alone, that they exercise and protect it, and they are the source of powers and safeguard their nation-

al unity. It is based on the principles of equality, justice and equal opportunities for all citizens, as stipulated in the constitution.

Therefore, the National Agenda seeks to achieve social justice and social integration, and to promote active citizenship and positive participation for all segments of society.

As the issues of empowerment, equality and social justice are among the core issues that the 2030 Sustainable Development Goals focus on, as well as addressing issues of inclusion and the need to overcome discrimination for vulnerable and marginalized groups at all social, economic and political levels for all individuals based on the principle of citizenship, regardless of age, gender, disability, ethnicity, religion, economic or social status..

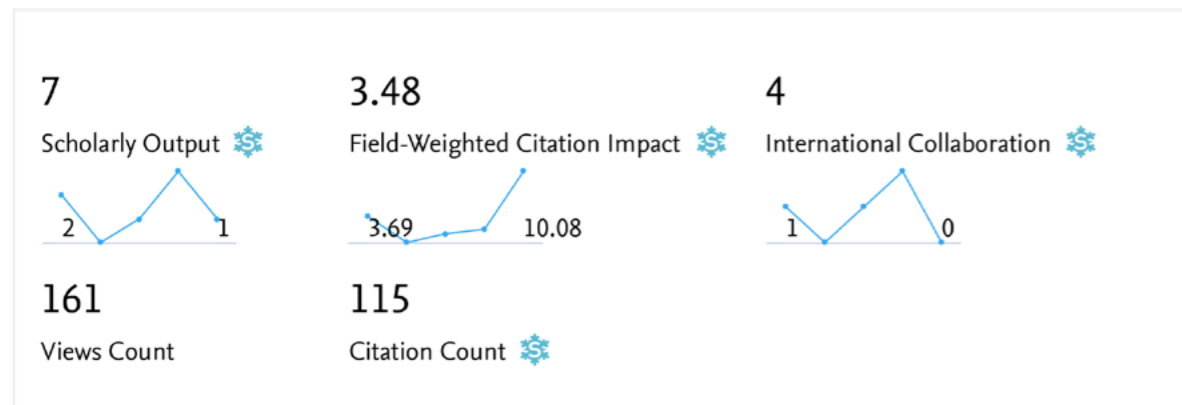
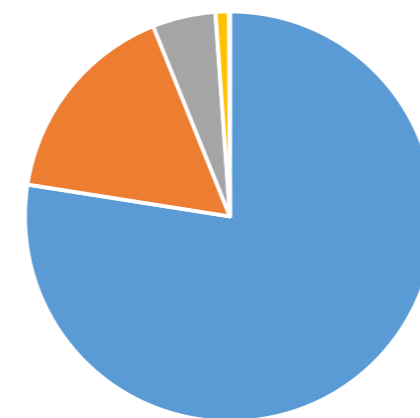
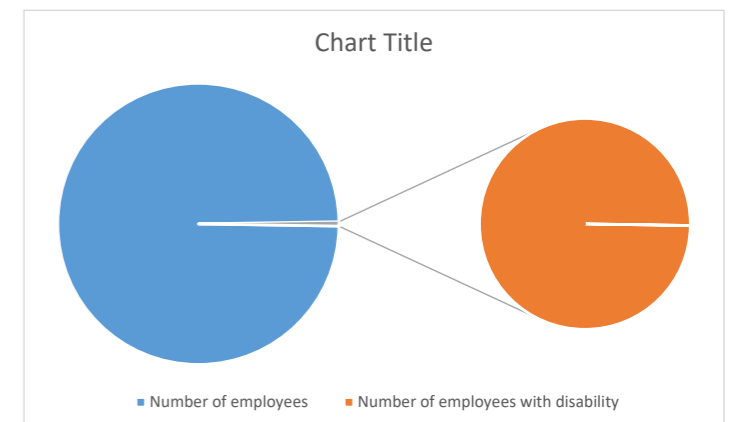


Chart Title



- Number of students
- Number of students starting a degree
- Number of first-generation students starting a degree
- Number of international students from developing countries
- Number of students with disability

Chart Title



- Number of employees
- Number of employees with disability

# 11 SUSTAINABLE CITIES AND COMMUNITIES



## Make cities inclusive, safe, resilient and sustainable

### Research

We have published around more than 22 papers between 2017 and 2021. two of them in 2021:

1. Intelligent Traffic Management System Based on the Internet of Vehicles (IoV)
2. Integrating solar photovoltaics in residential buildings: Towards zero energy buildings in hail city, ksa.



22 December 2020: The activities of the Aswan University Book Fair started on December 24, at the university's headquarters, and continued until the December 31.

All sectors of the Ministry of Culture participated in the activities of the book fair, in addition to the Academy of Arts, the House of Knowledge [Dar al-Maaref], Al-Ahram, and major academic and languages pub-

### Events

Aswan University president witnessed opening the events of the Second Book Fair

lishing houses and youth publishing houses.



Celebration of June 30th

### Green Spaces

Green spaces are a very important element for any university that seeks to achieve the element of comfort and prevention for its students, as it is considered the lung of the university.



Students, as green spaces are responsible for absorbing carbon dioxide from the atmosphere and releasing oxygen, as they help in regulating temperatures and re-

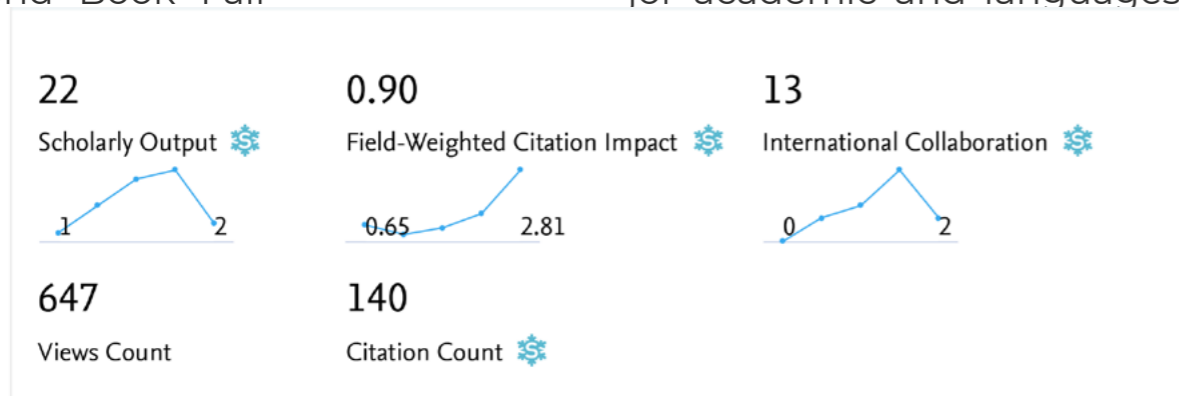
ducing air pollution, and their importance lies in giving a picturesque aesthetic appearance.



### Pedestrian tracks:

Aswan University has continued to prioritize pedestrian access on campus. To:

- encourage walking and reduce dependency on cars
- Protect the environment and reduce greenhouse gas emissions by limiting the use of cars.
- Improve the health and wellbeing of faculty staff, employees and students through encouraging walkability and movement.



**12 RESPONSIBLE CONSUMPTION AND PRODUCTION**



# Ensure sustainable consumption and production patterns

### Research

We have published around more than 12 papers between 2017 and 2021, three of them in 2021:

1. Developing chaotic artificial ecosystem-based optimization algorithm for combined economic emission dispatch.
2. Uptake prediction of nine heavy metals by Eichhornia crassipes grown in irrigation canals: A bio-monitoring approach
3. Measuring the Engineering Properties of Landfill Leachate-Contaminated Soil.

### POLICIES:

Sustainable food provision policy  
Aswan University adopts a sustainable diet policy, which is the system that provides food security and nutrition for all university employees at a competitive cost and subsidized for some groups of university employees, and maintains a clean and safe environment. with her.

### Campus Food Waste Tracking: Food Waste

Reducing food loss and waste is critical to creating a world without

hunger and achieving the world's Sustainable Development Goals (SDGs), especially Goal 2 (Zero Hunger) and Goal 12 (Ensure sustainable consumption and production patterns).

### Campus Food Waste Tracking:

Aswan University Nutrition Department staff carefully isolates all uneaten foods from every tray that is returned to each of the main dining halls of Aswan University in a week-long nutritional audit. They weigh the uneaten food after removing all the inedible waste, including the bones and fruit peels. The same process is followed in all Aswan University dormitories. This process is repeated during lunch hours every day for a week until AUND estimates how much food undergraduate students in Aswan waste while eating in the dining hall, or even in the dormitory dining halls.

### Capacities and infrastructure for Sustainable Food

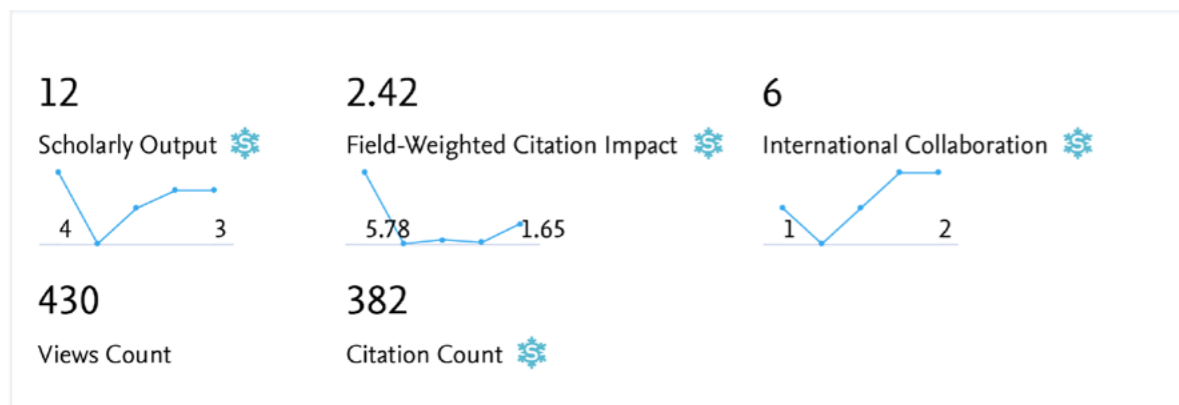
Faculty Farm in Sahary outside the Campus:

A land for faculty farm was allocated in Sahary, Airport road which occupies about 50 acres opposite to the university. Preparation for the farm started since October 2019 where a strip shaped scheme was made to be a model, educational, service and indicative farm.



### Other Facilities:

- Faculty Farm inside Campus in Sahary.
- Faculty Farm in Aneiba (animal and poultry production farm)
- Bakery Unit



**13 CLIMATE ACTION**



# Take urgent action to combat climate change and its impacts

**Research**

We have published around more than 32 papers between 2017 and 2021, five of them in 2021:

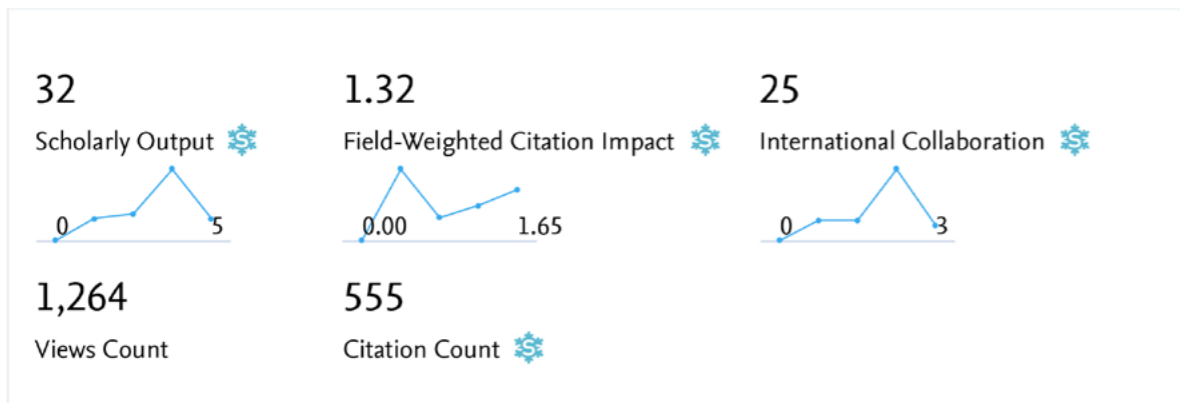
1. Use of insulation based on nano-materials to improve energy efficiency of residential buildings in a hot desert climate.
2. A cloud-based IoT platform for precision control of soilless greenhouse cultivation.
3. Integrating solar photovoltaics in residential buildings: Towards zero energy buildings in hail city, ksa.
4. AFRC-Trop: New Real-Time Zenith Tropospheric Delay Model

over Africa.

5. Urban geometry optimization to mitigate climate change: Towards energy-efficient buildings.



“Environment and Sustainable Development” A training course that was held at the Egyptian Center for Digital Creativity in the Sahara Campus over a period of 3 days.



The “Green Flag of Aswan” initiatives



The “Green Flag of Aswan” initiatives, in which Aswan University participated, to fully confront climatic and environmental changes. Where climate change has become one of the most important challenges facing the world, and here in Aswan, through the repercussions of the recent wave of bad weather and torrential rains last November, and its impact on villages, residential neighborhoods. **Meteorological Station**



This station provides comprehensive information on solar radiation,

air and soil temperatures, wind speed and its direction, and others, through a group of sensors and this information is available every hour throughout the day with illustrations and charts showing the different relationships between them to make it easier for the researcher to understand the results.



Aswan University participated in implementation of Hangamelha “We will beautify it” initiative, in cooperation with Ministry of Manpower, Aswan Governorate, and the Hangamelha (we will beautify it) institution for sustainable development.



## Conserve and sustainably use the oceans, seas and marine resources for sustainable development

### Research

We have published around more than 28 papers between 2017 and 2021, eight of them in 2021:

1. Organic carbon isotope records of the Paleocene- Eocene thermal maximum event in India provide new insights into mammal origination and migration.
2. Marine Predators Algorithm Optimized Reduced Sensor Fuzzy-Logic Based Maximum Power Point Tracking of Fuel Cell-Battery Standalone Applications.
3. Fully Quadrature Subcarrier-Index Shift Keying for Efficient Underwater Acoustic Communications.
4. Sedimentological evolution and diagenesis of lower Eocene limestones, the Sinn El-Kaddab Plateau, the southern extent of the Tethys Sea in Egypt.
5. Estimating parameters of photovoltaic models using accurate turbulent flow of water optimizer.
6. Improving Distribution Networks' Consistency by Optimal

Distribution System Reconfiguration and Distributed Generations.

7. A robust photovoltaic array reconfiguration strategy based on coyote optimization algorithm for enhancing the extracted power under partial shadow condition.
8. Marine predators algorithm for optimal allocation of active and reactive power resources in distribution networks.

### Events

#### Water Solutions Conference

Aswan University participates in the Water Solutions Conference hosted by Alexandria University



Aswan University participated in the Conference on Sustainable Water Solutions in Alexandria Governorate through the Center of Excel-

lence for Water

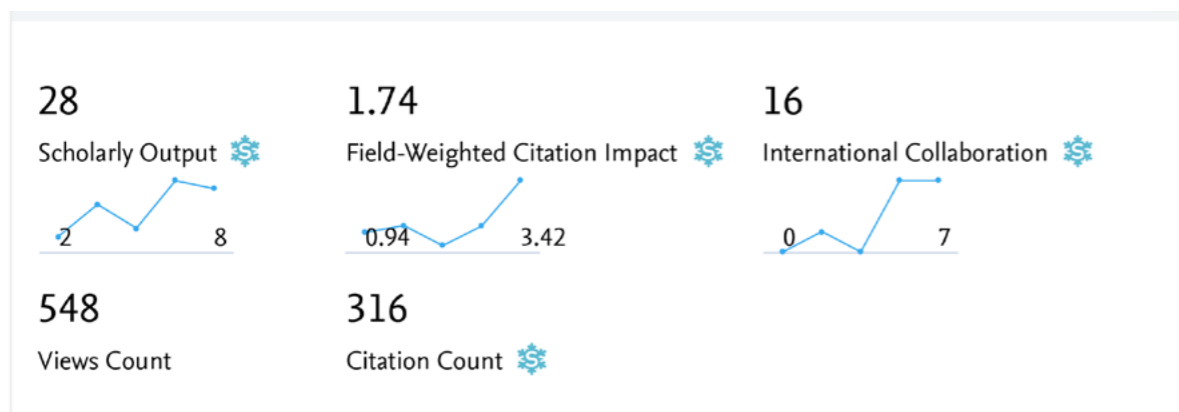
One of the most important objectives of this conference is to support learning and applied research in the field of water, as well as to work on facing the most important challenges facing Egypt in (sustainable water management).



Aswan University Holds a Training Course on Fish Farming Management.

### Collaboration

Memorandum of cooperation between Aswan University Excellence in the American University



**15** LIFE ON LAND



**Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, halt and reverse land degradation, and halt biodiversity loss**

**Research**

We have published around more than 12 papers between 2017 and 2021.

for each line and planted with various varieties of drought-resistant plants. The current employment situation: (6) daily workers.

**Tropical Plants Study Unit**

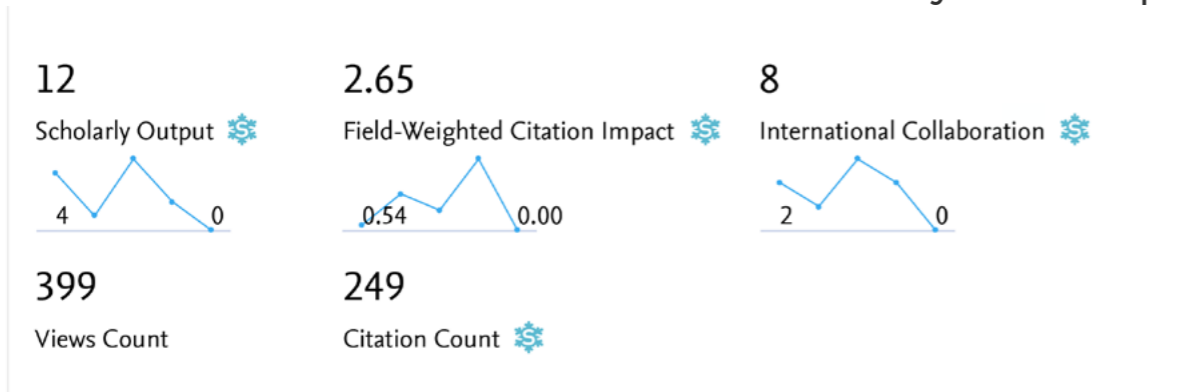
The unit was inaugurated on Monday 25th May 2015 .

The rear part of the eastern side of the unit, with an area of approximately 2500 meters, was included and supplied with 7 drip irrigation lines with a length of 75 meters



**Events**

Aswan University has set up many



courses to preserve the environmental systems of society and its biological diversity, such as:

1. Training Course (Medicinal and Aromatic Plants under the Conditions of Upper Egypt)
2. Training course (health care for farm animals scientifically and practically)
3. Training Course (Reproductive and Health Management of Agricultural Animal Herds on the Farm)



Veterinary medical convoy for serv-

ing Maniha village people, Kom Ombo. Aswan University provided many veterinary medical convoys to maintain the health of animals and maintain the balance of wildlife.



In light of the community participations; Aswan University participated in implementation of Hangamelha “We will beautify it” initiative, in cooperation with Ministry of Manpower, Aswan Governorate, and the Hangamelha (we will beautify it) institution for sustainable development.



# 16 PEACE, JUSTICE AND STRONG INSTITUTIONS



Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive

## institutions at all levels

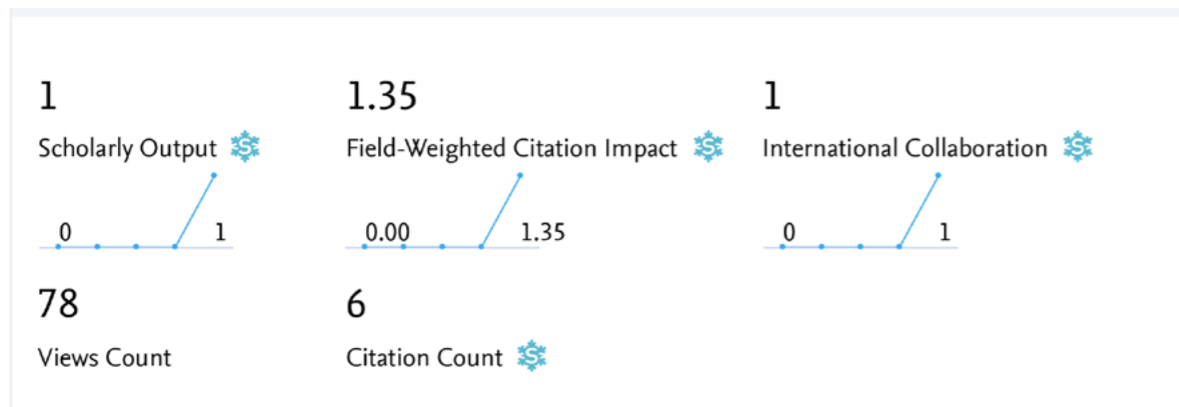
### Research

We have published only a publication in English indexed in Scopus between the period of 2017 and 2021, it is published in 2021:

1. Water conflicts: From ancient to modern times and in the future.

Peace, Justice and Strong Institutions highlights the role of governments and institutions in promoting peaceful and inclusive societies for sustainable development, providing access to justice for all, and

building effective, accountable and inclusive institutions at all levels. To achieve the SDGs, governments and private institutions must be held accountable. Corruption, crime, bribery, and any number of unacceptable behaviors that are rampant in countries around the world must be addressed and ultimately eradicated. Moreover, violence against marginalized groups – whether on the basis of religion, geography, class, race, ethnicity or other factors must be stopped. The

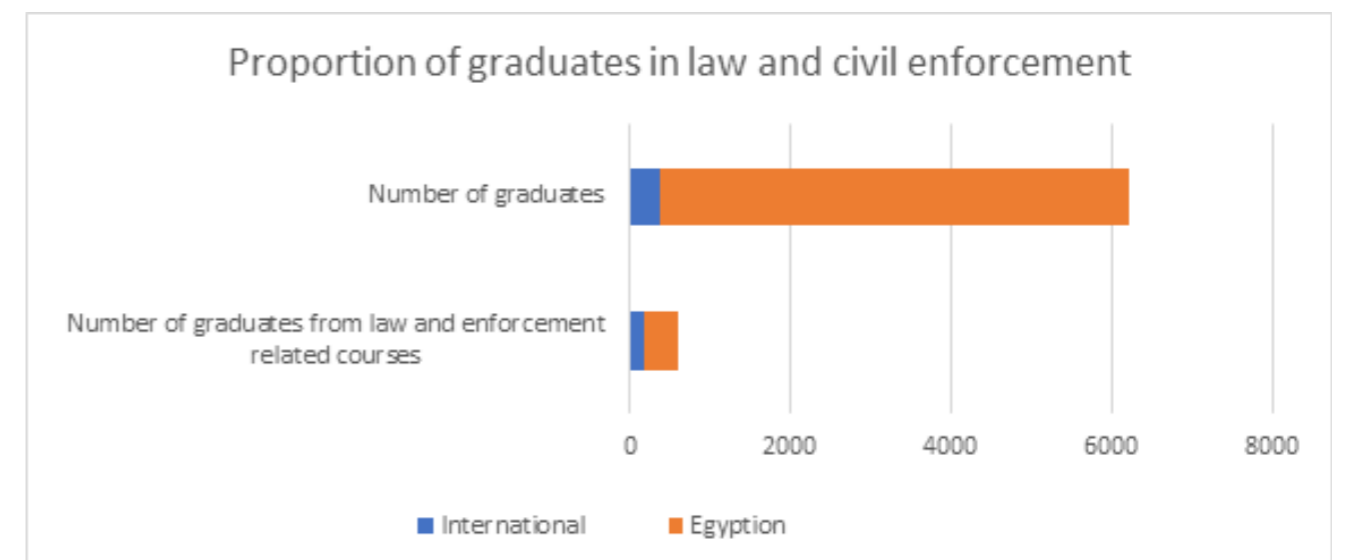


realization of peace and justice and access to such things as housing, education, healthcare, food and nutrition requires strong institutions and governments that are held accountable for putting the needs of their people above the interests of their leaders.

Progress toward SDG 16 underpins all of the other SDGs. Peace, justice and strong institutions can facilitate better use of human capital and financial resources, which can result in attracting more investment capital and spurring economic growth in a country or a community.

Aswan University provides advice to the government to develop plans and strategies by participating in the Forum of the National An-

ti-Corruption Strategic Plan at the Leadership Institute in Helwan. The delegation of Aswan University participated in the Leadership Institute in Aswan to attend the forum of the national strategic plan to combat corruption and work to eliminate all its forms and forms by raising awareness of drying up the sources of corruption in educational and research institutions. The program also includes a number of different other activities.



**17 PARTNERSHIPS FOR THE GOALS**



# Strengthen the means of implementation and revitalize the global partnership for sustainable development

Partnerships for the Goals recognizes the need to implement and revitalize global partnerships to support sustainable development. Robust partnerships between regulators, policymakers and the private sector are necessary to achieve each of the SDGs. Regulators, who operate under a legal mandate to set and enforce rules for market compliance, must balance such priorities as market growth, transparency, competition, stability, and safety to minimize turbulence and risk, while enabling needed advancements.<sup>1</sup> Policymakers must coordinate efforts to create logical and coherent frameworks for macroeconomic stability, and to mobilize and share knowledge, ex-

pertise, technology and financial resources to support the achievement of the Sustainable Development Goals in all countries, in particular developing countries

### International Collaboration

We extensively involved in data gathering and measurement related to the goals, across a variety impactful international collaborations, such as:

1. Knowledge exchange in sustainable Fisheries management and Aquaculture in the Mediterranean region.
2. Sustainable Resource Management Programme to solve Desert-ed Challenges
3. Sustainable Resource Manage

Aswan University always endeavors

to establish and maintain constructive and solid cooperative relationships and engagements with all stakeholders in particular NGOs. For example: Collaboration with different entities, in the “Center for Applied Research on the Environment and Sustainability (CARES)”.



### “Environment and the Sustainable Development”

Aswan University in cooperation with the International Center for Consults and Public Services organized the training program and the

sustainable development that’s held under the title “Environment and the Sustainable Development”.

### Research

| Metric                      |       | Scholarly Output | Citations | Citations per Publication | Field-Weighted Citation Impact |
|-----------------------------|-------|------------------|-----------|---------------------------|--------------------------------|
| International collaboration | 67.3% | 1937             | 46957     | 24.2                      | 2.74                           |

