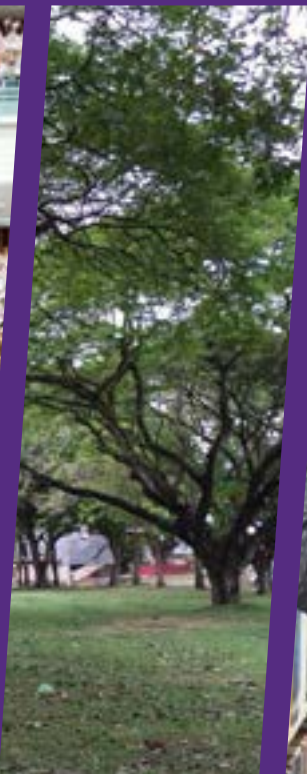




UNIVERSITI SAINS MALAYSIA SUSTAINABLE DEVELOPMENT GOALS REPORT 2019



USM IN ACHIEVING SUSTAINABLE DEVELOPMENT GOALS:
CONTRIBUTING TO SDGs THROUGH IMPACTFUL
AND SUSTAINABLE SOLUTION IN CONTINUING
THE JOURNEY TO EXCELLENCE

TABLE OF CONTENT

Foreword by the Vice-Chancellor	2
Preface by the Deputy Vice-Chancellor, Sustainability and Institutional Development	3
Introduction	5
SDG 1: No Poverty	7
SDG 2: Zero Hunger	9
SDG 3: Good Health and Well-being	11
SDG 4: Quality Education	13
SDG 5: Gender Equality	15
SDG 6: Clean Water and Sanitation	17
SDG 7: Affordable and Clean Energy	19
SDG 8: Decent Work and Economic Growth	21
SDG 9: Industry, Innovation and Infrastructure	25
SDG 10: Reduced Inequality	27
SDG 11: Sustainable Cities and Communities	29
SDG 12: Responsible Consumption and Production	33
SDG 13: Climate Action	35
SDG 14: Life Below Water	39
SDG 15: Life on Land	43
SDG 16: Peace and Justice Strong Institutions	45
SDG 17: Partnership to Achieve the Goal	47
Conclusion	51

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Foreword by Vice-Chancellor



The Times Higher Education (THE) Global Impact Rankings (GIR) was established to illustrate and highlight the implementation of sustainable initiatives, undertaken by higher educational institutions or universities in order to achieve global standards.

Universities are the mainstay of knowledge creation and dissemination in many parts of the world. They are held in high regard in the process of advancing knowledge and civilisation. Universities are defined by and comprised of departments or smaller 'ecosystems', whereby each will individually conduct its own specialised duties or responsibilities.

Universities mirror the natural world in having their own ecosystems. Nature is clearly composed of an almost infinite number of hierarchical, interconnecting ecosystems. These ecosystems, also referred to as complex systems have a large number of 'members' capable of interacting with each other and adapting to their environment. While nature is seen as comprising of complex systems, universities on the other hand are regarded more as complicated systems which require the presence of leaders and a blueprint.

Universiti Sains Malaysia (USM) has so far been able to present commendable outcomes in relation to advancing sustainable initiatives while fulfilling the criteria set by THE-GIR. Achieving such standards is truly a challenge as the parameters will be redefined year after year. However, as USM has embedded the idea of sustainability in almost all of its activities, the University will continue to take it in its stride to ensure that Sustainable Development will continue to be its leading and defining character.

We Lead.

A handwritten signature in black ink, appearing to read 'Faisal Rafiq Bin Mahamd Adikan'.

Professor Dr. Faisal Rafiq Bin Mahamd Adikan, FASc
Vice-Chancellor

PREFACE

When we talk about sustainability, it is altogether referring to a concept, knowledge and practice. It relates to efforts that we do in our daily lives in a manner that will be fair to all living things. Such efforts, when implemented, need to be fair to the environment, the economy and society. The 17 Sustainable Development Goals, or SDGs, have been put in place to ensure that the focus and emphasis given on sustainability will be in its entirety. Each individual goal will put greater focus on an aspect in man's life. The focus will be from the individual, then on to the community, opportunities for society and all living things, moving towards creating strong and fair organisations and institutions and finally, creating a network for all to move ahead in unison.

Universiti Sains Malaysia (USM) has been involved in the Times Higher Education-Global Impact Rankings (THE-GIR) within the last few years. As a university recognised with the APEX status by the Malaysian Ministry of Higher Education, USM has already embraced the idea of giving priority to sustainability in almost all of its activities previously, at the same time fulfilling some of the SDGs mentioned above. Sustainability is regarded by USM as the outcome of all its activities, performed by its community members.

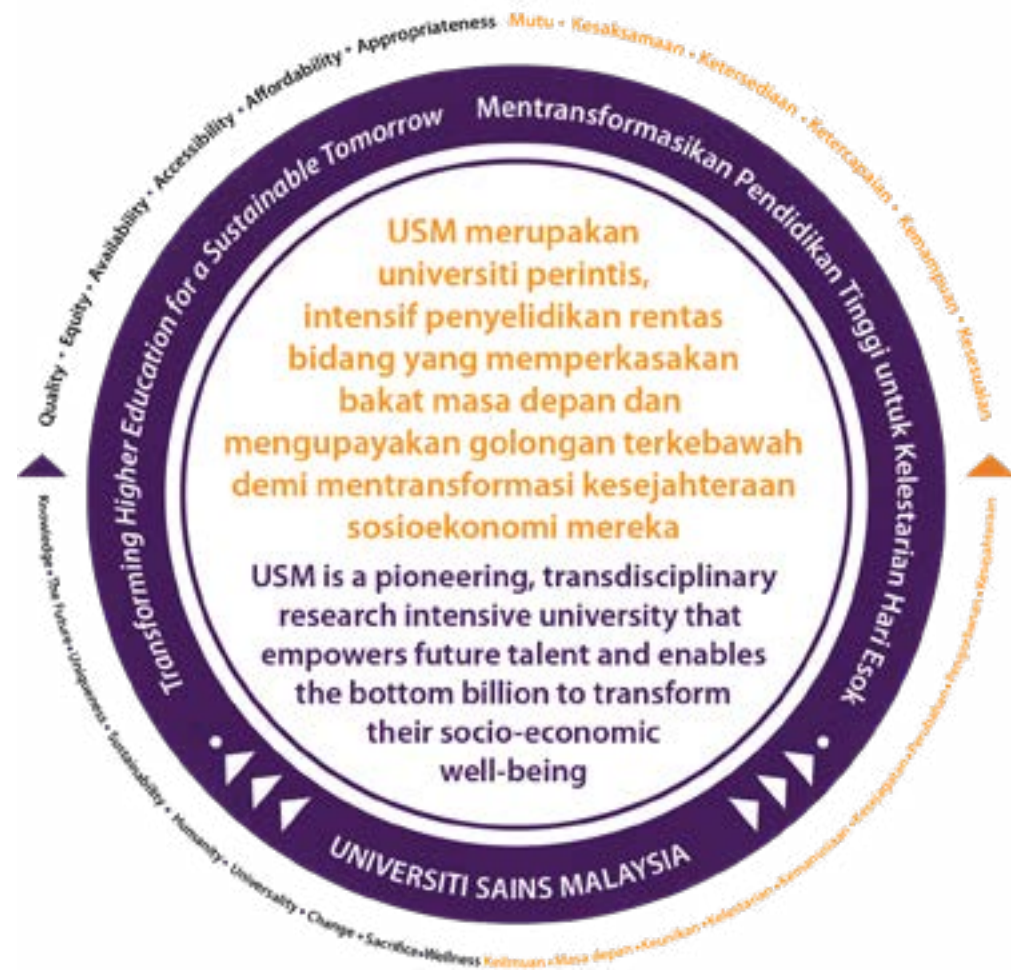
Moving towards sustainable practices requires a change in habits. Whenever there is the need for change, surely there will be challenges. Fulfilling the demands of the THE-GIR will be just as challenging. The various criteria will change, as will the goalpost. It is both a challenge in fulfilling the criteria of THE-GIR as well as in real-life applications. Standards will be raised, and new measures will need to be taken. What USM had done previously may be insufficient now. Other sustainability players are also joining in and making the field more crowded. It is no longer enough with just WHAT we have; now it is more on HOW it will be better than the rest.

USM has implemented measures to save electricity and water, avoided using plastic straws and food packs, used an eco-van, encouraged its community members to lead a healthy lifestyle, provided for the less fortunate and the needy, as well as taking other measures in different areas of life. Can USM do more in its aspiration to transform higher education for a sustainable tomorrow? Can the SDGs help to further the USM agenda on sustainability? It's a question that requires comprehensive action and which many of us will need to collectively answer to.

A handwritten signature in black ink, appearing to read 'Md Roslan Bin Hashim'.

Professor Dr. Md Roslan Bin Hashim
Deputy Vice-Chancellor
Sustainability and Institutional Development





VISION

“Transforming Higher Education for a Sustainable Tomorrow”

MISSION

USM is a pioneering, transdisciplinary research intensive university that empowers future talents and enables the bottom billions to transform their socio-economic well-being.

VALUE

Quality, Equality, Availability, Accessibility, Affordability, Appropriateness

THRUST

Knowledge, The Future, Uniqueness, Sustainability, Humanity, Universality, Change, Sacrifice, Wellness

INTRODUCTION

This is the second USM Sustainability Report, spanning the calendar year from 1 January to 31 December 2019. The report documents progress and highlights key achievements as the university continues on its journey as a leader in organizational sustainability with its vision “**Transforming Higher Education for a Sustainable Tomorrow**”. This report is a summary of the range of activities that the Universiti Sains Malaysia (USM) had undertaken to meet the United Nations Sustainable Development Goals (SDGs).

USM Sustainability Report is a report published by the university that includes sustainability activities such as economic, environmental, and social impacts for its everyday activities. It is a voluntary activity with two general purposes: (1) to assess the current state of a university’s progress towards sustainability, and (2) to communicate to stakeholders the efforts and progress in the economic, environmental and social dimensions.

The USM Sustainability Report also presents the university’s values and governance model and demonstrates the link between its strategy and its commitment to a sustainable global economy. It can also be used for assessing sustainability performance over time, benchmarking against other universities, and demonstrating how the organization influences, and is influenced by, expectations about sustainable development.

USM Sustainability Report helps the university to measure, understand and communicate their economic, environmental, social and governance performance, and subsequently set goals, and manage change more effectively. A USM Sustainability Report is the key platform for communicating sustainability performance and impacts – whether positive or negative.



End poverty in all its forms everywhere



Throughout 2019, USM has implemented various activities covered under SDG1 - No Poverty. Yayasan USM has played an important role in helping the less fortunate through various activities:

- Donation of five (5) laptop units worth RM12,000 managed by the USM Hamzah Sendut Library. This initiative will be able to help B40 students who do not have a computer to complete their assignments.
- Yayasan USM has also donated 3 sets of computers and 2 printers to SMKA (P) Alawiyah, Kangar as a way to assist the school with their teaching and learning (due to lacking computers) especially for Form 6 students.
- The concerns of Yayasan USM are not only focused on underprivileged students but also include the local community. Yayasan USM has presented caring donations to single mothers in Penang.
- Yayasan USM also has channeled donations to two (2) orphanages, namely the Al-Taqwa Orphans and Poor Welfare Organization and Batu Grace Children's Home. Apart from that, Yayasan USM contributed to the National Kidney Foundation, Mount Miriam Cancer Hospital, BOLD Association for Children with Special Needs, the Visually Impaired Welfare Organization and Kasih Specialist Clinic & Hospital.
- Through Yayasan USM, Lotte Chemical Titan has selected two (2) students for the 2019/2020 admission session to receive Lotte-sponsored scholarships. The lucky students were from Chemical Engineering majors; Nursyazana binti Haron and Chang Wen Li. This is not the first time Lotte has contributed scholarships to USM students, previously three (3) USM students were sponsored by Lotte and these students had graduated during the 57th Convocation session.
- As a token of gratitude to Yayasan USM funders, they were invited to the USM Sanggar Sanjung Award Ceremony to receive certificates of appreciation and souvenirs from the USM Chancellor. These generous funder included USains Holding Sdn. Bhd, Yusuf Taiyoob Sdn Bhd, AEON Credit Service (M) Bhd and Estate of MHY, many thanks to these funders.



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

In ensuring that all USM residents, especially students, get adequate and nutritious food, several initiatives have been implemented in the USM Campus.

- 'Food Bank Siswa' is a program with a concept of 'From Student to Student' under the auspices of the Ministry of Domestic Trade and Consumer Affairs (KPDNHEP). The program targeting 350 students from the B40 group was launched by the Honorable Minister of KPDNHEP, Datuk Seri Saifuddin Nasution Ismail on 8 September 2019.
- Other PTJs have implemented their respective initiatives such as the GORANGE 2.0: One Day Biscuit Program, which was organized by the USM School of Communication.
- USM Islamic Center has implemented an initiative called *Gerobok Syurga*. It is a 'food bank' concept where donations such as cash or food such as bread, biscuits, sugar, tea, milo etc. can be placed in a closet and students, staff or the needy community may take necessities from this closet.
- The USM School of Humanities has also taken the initiative to implement the 'bubur lambuk' program for USM residents.



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

USM emphasised on health conditions among students, staff and even the surrounding community. In this regard, many health-related initiatives have been implemented both on campus and in the community.

- USM School of Health Sciences (PPSK), is very synonymous with the disabled community in Kelantan. Among the annual activities carried out is the Sports of the Disabled or better known as SUKOKU. In 2019, a total of 200 participants from 10 *Jajahan* throughout Kelantan participated. This program was jointly organized with the Kelantan State Social Welfare Department.
- An awareness program related to child abuse called "*Kanak-kanak dan Penderaan: Hak yang perlu dijaga*" (Children and Abuse: Rights which must be protected) has also been implemented at Kubang Kerian Campus. The program was organized with several NGOs: Malaysians Against Pornography (MAP), Kelantan State IKRAM Women, MAWAR YADIM and Cakna Kesihatan, School of Dental Sciences, USM. It was funded by a grant worth RM2,500 donated by MAWAR YADIM.
- The USM School of Dental Science has also organized an awareness program 'BAHAYA KANSER ORAL YANG TIDAK DIENDAHKAN' to the community in Kelantan.
- USM Kubang Kerian has also organized the Kelantan Open Run (LTK) 2019 program which took place at Sports Complex II, Health Campus. The program has successfully attracted 600 entries at various levels.
- In ensuring that all patients get the best health insurance, USM hospital (HUSM) has taken the initiative to get a contribution of RM180,000 from the UEM Foundation to help *asnaf* patients who needed treatment at HUSM immediately.
- Awareness of the dangers of poisoning due to household chemicals is still neglected in the community. According to data obtained by the National Poison Center (PRN), 98% of poisoning incidents occur at home and statistics show that the victims mostly comprised of children. Based on the need to educate the community in this regard, PRN in collaboration with the Penang State Government has worked together to hold a 'Kempen Kediaman Selamat'. The campaign was implemented in every district in Penang and was officially launched by the Penang State Government Exco in the Seberang Perai Utara District.



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

- **USM RECEIVES RM200K RESEARCH FUND FROM LOTTE CHEMICAL TITAN:** USM through the School of Chemical Engineering continues to strengthen its strategic collaboration with Lotte Chemical Titan Corporation (LCTC) with the signing of R&D Agreement to conduct research on plastic waste management. LCTC will contribute a research grant of RM200,000 to USM for the collaborative research project within a period of two years, beginning January 2020.
- **USM, OSAKA UNIVERSITY BRIDGING IDEAS AND EXPERTISE THROUGH JOINT COLLOQUIUM:** USM and Osaka University long-standing strategic partnership recently achieved another milestone with the success of a three-day joint colloquium. The colloquium is in line with the intent of both universities, which is to continue developing the cooperation in promoting and enhancing education and academic research activities.
- **USM-ITD WORLD-FLEX PRODUCE FIRST BATCH EMICL GRADUATES:** The first batch of the Executive Master in Corporate Leadership (EMICL) programme, comprising of 18 graduates, received their scroll recently here after completing a rigorous 15-month journey. EMICL is a joint initiative between public university: USM in collaboration with private entities: ITD World (global leadership development expert) and Flex Ltd Penang. The programme was designed to bridge between theoretical learnings and real-world applications.
- **USM-KSU NIGERIA TO COOPERATE TOWARDS CAPACITY BUILDING:** USM, via the National Higher Education Research Institute (IPPTN) signed an MoU with Kaduna State University (KSU) from Nigeria to facilitate cooperation in staff and student capacity-building efforts which would be beneficial to both parties.
- **FOUR USM SCIENTISTS SELECTED FOR MRSA AWARDS, FIVE JOURNALS RECEIVE CREME RECOGNITION:** Four scientists from USM proved their research's worth when they were chosen as recipients of the prestigious Malaysia's Research Star Award (MRSA) at a ceremony held here recently.
- **SCIENTISTS STUDYING BIOPLASTICS AND CANCER CHOSEN AS RECIPIENTS AT 13th NATIONAL ACADEMIC AWARDS:** Professor Datuk Dr. Abdul Khalil HP Shawkataly, from the School of Industrial Technology received the 'Journal Literature Publication Award (Science field)' for his bioplastic study, while Associate Professor Dr. Oon Chern Ein from the Institute for Research in Molecular Medicine (INFORMM) received the 'Most Promising Academician Award' for her cancer study at the 13th National Academic Awards.
- **USM STRENGTHENS ACADEMIC AND RESEARCH TIES WITH PAKISTAN:** USM continues to strengthen relationship with Pakistan as part of the university's internationalisation agenda.



Achieve gender equality and empower all women and girls

KANITA, a PTJ responsible for monitoring and ensuring gender equality is implemented in USM, has carried out various activities.

- USM Women's Day Celebration was held in March 2019. It is an annual activity organized by KANITA on behalf of USM to celebrate women who can give encouragement to all USM staff and students.
- KANITA has also organized the 'Harpwell ASEAN Program in Women's Leadership' program which was implemented from 16 June to 26 June 2019. Participants were from the circle of professional women aged 25-30 years, from ten countries in the Association of Nations Southeast Asia (ASEAN) and Nepal. The program agenda included lectures, workshops, and group activities. Participants also visited Mengkuang Titi to get to know local women entrepreneurs better. This program hoped to provide positive social change in the ASEAN region apart from strengthening the long-standing relationship between the countries.
- Stakeholder Consultation Workshop - Driving Refugee Empowerment Through Digital Inclusion in South East Asia. This collaborative activity between Urban Institute Heriot-Watt University and KANITA was attended by stakeholders from the government, NGOs, schools, academics and the Rohingya community.
- USM Women's Achievements: Dr. Lim Way Foong from the Institute of Research and Technology Nano Optoelectronics (INOR) Universiti Sains Malaysia (USM) was named the recipient of the L'Oreal-UNESCO Award for Women in Science - Malaysia National Young Talents Program 2019.
- Two OKU (disabled) USM students siblings have obtained excellent results in the Convocation Ceremony 2019. Felicia Pui Jai Yin 24, was awarded the Universiti Sains Malaysia Gold Medal in the category of OKU students while her sister Andrea Pui Jia Hui 23, graduated with excellent results. Both are visually impaired.



Ensure availability and sustainable management of water and sanitation for all

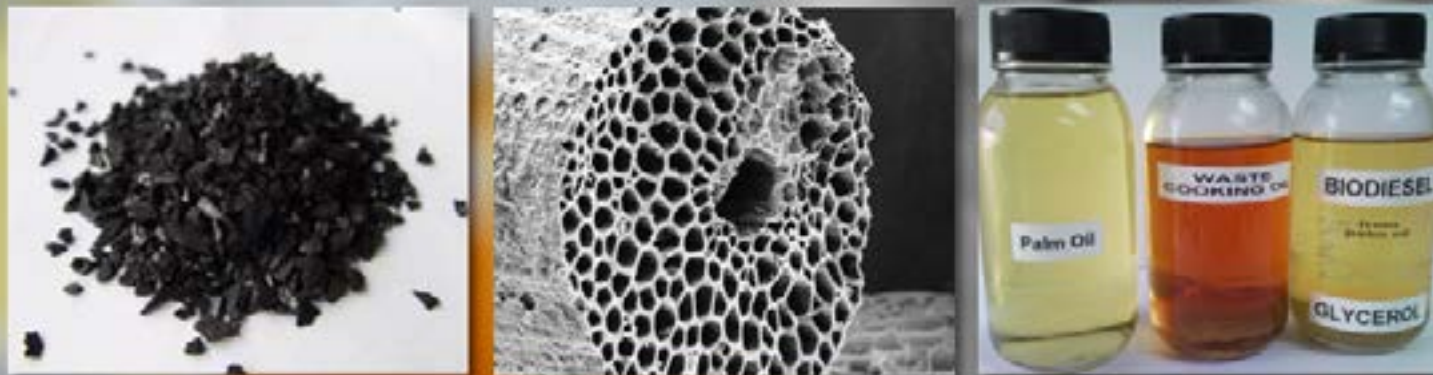
River Engineering and Urban Research Centre (REDAC) has played an important role in promoting awareness on water management to the community. A list of initiatives on water awareness has been carried out by REDAC.

- Youth Environmental Camp 2.0: A programme to instill awareness about water and flood and love the rivers (importance to keep our rivers clean) to school children. It was jointly organised with UNESCO and Universiti Malaysia Perlis.
- World Water Day 2019.
- Exhibition at National Conference on Stormwater Management: Managing Stormwater Runoff.
- USM School of Civil Engineering led by Dr. Nurul Hana Mokhtar Kamal is collaborating with Toyota Daihatsu Engineering & Manufacturing Co., Ltd. (TDEM) which is based in Thailand and is responsible for the Asian region assembly unit and companies. In the Toyota Environmental Challenge 2050, they highlighted to answer to SDG 6 in the plants operations by minimising and optimizing water usage. USM was appointed to carry out monthly water quality monitoring for the discharged wastewater from Toyota plant in Shah Alam, and to determine the impact of the effluent to the nearby river (Sg Renggam). The project started in July 2019 and is now in the second term, ending in March 2021.
- Universiti Sains Malaysia (USM), in collaboration with the National Tsing Hua University (NTHU), Taiwan have received funding from the Taiwan Ministry of Science and Technology to establish the Malaysia-Taiwan Innovation Centre for Clean Water and Sustainable Energy (WISE). The collaboration between USM and NTHU is hoped to become a catalyst for high-impact innovations in various key areas relating to water security and energy sustainability, which would generate a more systematic synergy from the water-energy nexus,



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

- School of Health Sciences (PPSK), USM organised International Environment and Health Conference, a platform for researchers to discuss the needs and importance to care the environment for the sake of future generations.
- The USM School of Chemical Engineering (PPKK) for the first time organised the Sustainable Fun Run 2019 program with the intention of further enlivening USM's 50th anniversary celebrations and celebrating USM's position in the TOP 50 THE University Global Impact Ranking 2019. According to the Campus Director, this run takes into account the social aspect and economic impact led by universities around the world, based on the 17 Sustainable Development Goals (SDGs) initiatives outlined by the United Nations.
- The 2nd multidisciplinary International Conference on Humanities (ICH 2019) was held on 30 and 31 October 2019 at the School of Humanities, Universiti Sains Malaysia, Penang, Malaysia. This conference is the second instalment of the ICH series organised by Postgraduate Students Club of the School of Humanities with a theme "Innovation and Transformation in Humanities for a Sustainable Tomorrow".
- Sustainable Energy Research by School of Chemical Engineering, USM. Sustainable energy is the sustainable provision of energy that meets the needs of the present without compromising the ability of future generations to meet their needs. Technologies that promote sustainable energy include technologies developed to generate renewable energy sources and also technologies designed to improve energy efficiency. Renewable energy technologies are essential contributors to sustainable energy as they generally contribute to world energy security, reducing dependence on fossil fuel resources and providing opportunities for mitigating greenhouse gases. Research to produce sustainable energy are required to establish feasible technologies to produce energy sources, to carbon emissions through cost-effective means, to develop energy efficient technology as well as to promote energy education and policy.
- MIRACLE STEM AND GREEN CHALLENGE 2019" - RCE PENANG@USM STRENGTHENS ESD AGENDA: The Regional Centre of Expertise (RCE Penang) held a programme promoting various aspects of sustainability to school communities within the northern region. Based at USM Penang, RCE Penang collaborates on the programme with SMK Dato Onn in Butterworth (SMKDOB), Penang to highlight issues relating to education for sustainable development (ESD).





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

- **USM SCIENTIST AMONG NINE RECEIVES PRESTIGIOUS 2019 TRSM AWARD:** The Deputy Director REDAC, Associate Professor Dr. Foo Keng Yuen was selected as a Top Research Scientists Malaysia (TRSM) by the Academy of Sciences Malaysia (ASM) this year.
- **USM RECEIVES RM200K RESEARCH FUND FROM LOTTE CHEMICAL TITAN (LCTC):** USM through the School of Chemical Engineering (PPKK) continues to strengthen its strategic collaboration with LCTC recently with the signing of a R&D Agreement to conduct research on plastic waste management.
- **CSICE 2019 Aiming to Mould Future-Ready Industry Talents:** Organised by School of Computer Sciences, USM.
- **CSICE 2019 SYNERGIZING BETWEEN INDUSTRY 4.0 AND SOCIETY 5.0:** With the current revolution of Industry 4.0, where focus is shifting from accelerating machines to humanising machines, School of Computer Sciences held the Computer Science Industry and Community Engagement Week (CSICE) 2019.
- **PROFESSOR HANAFI AS THE PROUD RECIPIENT OF EXCELLENT RESEARCH AWARD IN INOVA 2019:** Professor Ts. Dr. Hanafi Ismail from the School of Materials and Mineral Resources Engineering, has boosted the name of USM in research and innovation when he was selected as the recipient of the Excellent Research Award from the Croatian Inventors Network at the 44th International Invention Show (INOVA 2019) held in Zagreb, Croatia.
- **USM, KYOTO UNIVERSITY OF FOREIGN STUDIES (KUFS) EXPLORING POTENTIAL COLLABORATIONS IN GLOBAL COMMUNITY ENGAGEMENT:** USM continued its close international collaboration with universities in Japan when a group of academicians from the Centre for Instructional Technology and Multimedia (PTPM) recently visited the KUFS.
- **RAT-EATING MACAQUES PRESENT POTENTIAL TO SUSTAIN PALM OIL INDUSTRY:** Dr. Nadine Ruppert, a senior lecturer and primate researcher at the USM School of Biological Sciences said, results from research done with her team indicated that apart from owls, macaques too are good rat-catchers. Macaques and owls in fact complement each other, as the former would hunt for rats in daytime, while owls on the other hand would hunt at night.
- **USM STUDENTS WON 2019 SOLIDWORKS SKILLS COMPETITION:** Liew Shu Yan and Yew Jia Jing were chosen as top ten finalists in the Skills competition and were invited to the prize-giving ceremony during the SOLIDWORKS Innovation Day 2020 at Equatorial Hotel, Penang on 1 October 2019.



- **USM EMBARKS INTO 4TH INDUSTRIAL REVOLUTION WITH AN INTEGRATED CLINICAL SIMULATION CENTRE:** The setting up of the USM Integrated Clinical Simulation Centre (i-CSC) is a USM state-of-the-art initiative in preparing experts in the clinical field who would bring about impactful services in the efficiency of treatment and in ensuring the safety of patients.
- **USM COLLABORATES WITH INDUSTRY IN ELEVATING DIGITAL SKILLS OF SENIOR CITIZENS:** PTPM USM recently collaborated with Multimedia University (MMU) and Amanz Media Sdn Bhd to introduce “Bengkel Teknologi Senior” – a three-year project comprising a series of workshops that are specifically developed for the target group of those over the age of 55.





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

- Centre for Innovation and Consultation (CIC): Spearheading USM's commercialisation drive, the CIC is given the responsibility of assisting USM's researchers to channel their scientific discoveries efficiently to relevant markets. In line with USM's slogan - Ensuring A Sustainable Tomorrow - the CIC is determined to position USM's research as inventions with practical applications and social relevance and offering solutions for global issues. These objectives are carried out while partnerships are forged with pertinent industries who commercialise new discoveries. In 2019, USM participated in three (3) major innovation exhibitions in the country and the outcomes are:



- The intellectual property of every innovation by any member of staff or students of USM is protected under the Intellectual Property Policy of USM.
- To support and bring together start-up companies, innovators, industries and researchers with projects or products USM set up Sains@USM and Inkubator Inovasi USM.
- Currently, USM has a list of 51 products ready to for commercialisation.



Reduce inequality within and among countries

- The constitution of USM stated that membership of the University, whether as an employee, officer or student, shall be open to all persons irrespective of gender, race, religion, nationality or class.
- USM has anti-discrimination and anti-harassment policies which is handled by the Ombudsman Office set up in 2013.
- On legal matters, USM has the Legal Office which addresses policies with regard to integrity.
- To ensure that staff members have proper training to disseminate their tasks properly, efficiently and effectively, USM's Pusat Transformasi Insan is responsible for development and implementation of related training to all staff members.
- To ensure that staff members and students are in the healthy state of mind, USM responded with Counselling Unit which provides mentoring, counselling and peer support to those needed.
- Even with very few students and staffs from people with disabilities, USM is giving full support to make every building accesible to the group following 'Garis Panduan Pelaksanaan Dasar Inklusif Orang Kurang Upaya di Institusi Pendidikan Tinggi'.



Make cities and human settlements inclusive, safe, resilient and sustainable

- The University in a Garden: The USM main campus is situated strategically at one of the most important gateways to Penang Island. It stands majestically on its site, extending a warm welcome to visitors arriving through the Penang Bridge and farewells to those leaving the island. The grounds have been claimed as one of the most beautifully landscaped campus in Malaysia. The campus trademark is its unique location set amidst undulating terrain overlooking the sea and hills. The site is further enriched by the habitats of exotic flora and fauna protected by gazette as a bird sanctuary with more than 20 endangered species. The numerous natural assets such as trees, flowers, lakes, wildlife, tropical forest and orchards set the tone for the formation of a garden-like ambience accentuated by breathtaking panoramic views.
- Galeri Adiwarna is a platform where staff and students, together with invited artists, can showcase their talents through various types of artworks which combine fine taste of art and design flair. It is situated at the main building of School of the Arts. The art exhibitions and design showcase aim to inspire and nurture artistic passions in students and enriching the arts and culture of Universiti Sains Malaysia. The exhibition is open to the public with free access.
- Archaeology Gallery exhibits research conducted by PPAG USM starting from Malaysia Prehistory, in terms of distribution of archaeological sites and the cultural sequence in Malaysia until the early civilization at Sungai Batu Archaeology Complex. Other sites include, Lenggong Valley, Galeri Orang Asli, Archeobiology Gallery and Jerai Geopark.
- Dewan Budaya/Cultural Hall: The USM Cultural Hall was created with the aim of developing all cultural, artistic and heritage activities, especially for students and all USM citizens. This means that its function is not only to carry out activities and services in the field of culture and the arts but to cover a wider scope where it is also related to the field of knowledge either through research and education (seminars, discourse of knowledge through meaningful local and international conferences, courses or certain workshops).
- Muzium dan Galeri Tuanku Fauziah (MTGF), in a Garden of Culture: The establishment of MGTF in USM was initiated by the forward-looking vision of the first Vice-Chancellor of USM, the late Tan Sri Prof. Hamzah Sendut. The plan to establish a museum in USM was initially proposed after the establishment of the School of Humanities and the introduction of the Fine Art Programme in 1971 and 1972 respectively. USM was the first public university in Malaysia to pioneer the offering of fine art at a higher education level. The campus site and area around the MTGF provide a rich repository of history and heritage.



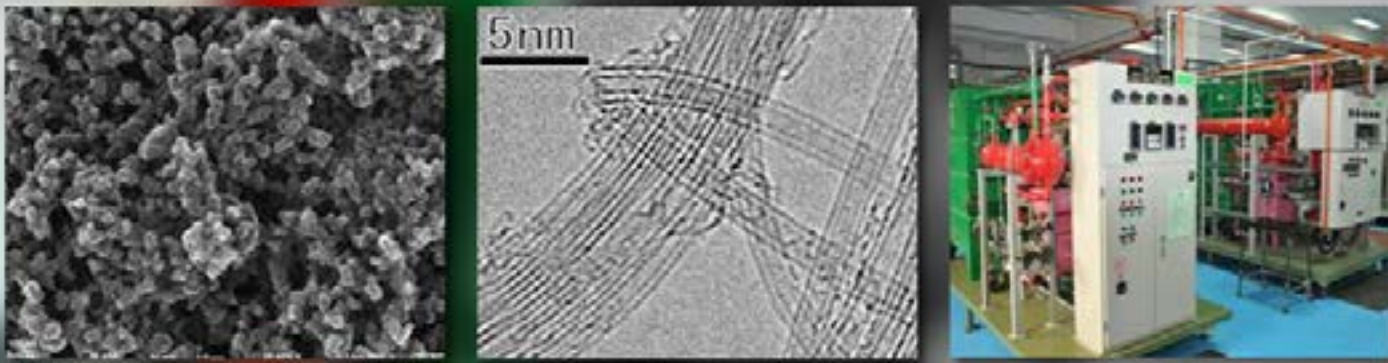
- Perpustakaan Hamzah Sendut/Hamzah Sendut Library: Established in 1969, the library was initially operated in borrowed premises at the Malayan Teacher's Training College, Gelugor. When USM moved to its own permanent campus at Minden in 1971, the Library was housed in a heritage building which is now the University's Museum and Gallery. The main library moved to its present three-storey building (Perpustakaan Hamzah Sendut 1) in 1979 and an additional Library building (Perpustakaan Hamzah Sendut 2) was build in 1996. On 10 December 2004 the Main Library was named Hamzah Sendut library taken after the name of the first USM Vice Chancellor, Tan Sri Hamzah Sendut.
- Eco-Hub USM: The USM Eco-Hub is a natural laboratory that benefits all campus residents. The main objective of Eco-Hub is to store information related to the ecology of the campus environment, control exotic trees and collaborate in research with other schools. Eco-Hub areas that are actively operating are Mid Valley and Durian Valley. Through the Eco-Hub, various species of living plants will be preserved while the specimens of the plants are also provided through the curing process. The specimens are able to last for 20 years if undergoing treatment from time to time and are also used as references for research. There are various types of exotic herbal plants around the Eco-Hub area such as ground cover trees, Robibia, Ozali, Asisstaxia, Bitangor, Moringa, Sinai leaves, Patawali, Cyprus aromatica, Lantana, Gandarusa, turmeric, Black Meet, ground starfruit, Yusufarus and so on. Students are welcome to do research on these plants and if identified has a high medical value then it will be used for the common good.
- USM has 77 locations (across 3 campuses) for tele-conference in order to promote/allow remote working and reduce employee commuting (attached is the list of 77 locations). USM also has 1800 account of webex (web conferencing for teaching & learning purposes).
- Pusat Perumahan dan Penginapan Universiti: Pusat Perumahan dan Penginapan Universiti (P3U) was formerly known as Unit Perumahan dan Penginapan Universiti (UPPU) was established from the merging of several hostels and serves to coordinate matters related to accommodation and housing. UPPU is placed under the management of the Deputy Vice Chancellor of Student Affairs and Development (HEPP). In June 2009, the Student Affairs and Development Division (BHEPP) underwent a transformation and UPPU was placed under the BHEPP Service Sector. UPPU offices are also open at each BHEPP Engineering Campus and Health Campus. In 2015 and 2016, there was another merging of hostels. After being reviewed and discussed, the University has agreed that UPPU is transformed into the Pusat Perumahan Penginapan Universiti (P3U) in accordance with the latest developments and roles.



Ensure sustainable consumption and production patterns

SDG 12 emphasises on ensuring sustainable consumption and production patterns by good use of resources, improving energy efficiency, sustainable infrastructure, and providing access to basic services, green and decent jobs and ensuring a better quality of life for all. Achieving economic growth and sustainable development requires that we urgently reduce ecological footprint by changing the way we produce and consume goods and resources. The efficient management of shared natural resources and the way we dispose of toxic waste and pollutants are important targets to achieve this goal. By 2030, national recycling rates should increase, as measured in tons of material recycled. Further, companies should adopt sustainable practices and publish sustainability reports.

- **MEMORANDUM: USM POLICY ON DISPOSABLE ITEMS** - The memorandum of USM Policy on Disposable Items (2009) is a guideline for every PTJs on the correct action to take on sustainable consumption and production. The guideline covers the following issues:
 - Avoid the use of mineral bottles and polystyrene containers during events
 - Energy saving
 - Water usage
 - Reduction of plastic and paper usage
 - Green office initiative
 - Tips on reducing carbon dioxide on campus
 - Green procurement
- **ACTIVITY ROAD TO BE A HERO:** A campaign on plastic free life-style was launched by the secretariat of Kampus Sejahtera, Universiti Sains Malaysia during the 2019 Convocation Expo (ConvEx). The purpose is to encourage USM citizens to bring their own containers and repurpose bags while buying foods at 'Tapak Convex'. This is to reduce the usage of single-use plastic such as straws and plastic bags.
- **The International Coastal Clean Up Day** was a collaboration programme between the staff and students of School of Management USM, Aimpacts Ventures, Lexis Hotel and the Penang State Government. The programme took place at the Teluk Kumbar beach on 23 September 2019. The objective was to raise community awareness on the dangers of plastic waste on the sustainability of the marine life and its impact on ecosystem and the tourism.
- **PENANG TRASH FREE HILL 2019:** The Penang Trash Free Hill was a collaboration programme between USM and the Penang State Government on 23 September 2019. The objective was to clean the trails on Penang Hill of trash and maintain and sustain Penang Hill's unique biodiversity fauna and flora. 249.50 kg of trash was collected and 144 kg were plastics. The programme was also conducted to educate hikers on the consequences of plastic waste to the environment and the economy ecosystems.



Take urgent action to combat climate change and its impacts



- **LOW-CARBON ENERGY USE:** A low-carbon economy (LCE) or sometimes also termed as decarbonised economy is an economy that has a minimal output of greenhouse gas (GHG) emissions into the environment biosphere. In this context, it usually refers to the emission of carbon dioxide and methane. GHG emissions due to anthropogenic activity are either causing or worsening climate change (global warming) or making climate change worse. Scientists are currently concerned about the negative impacts of climate change on humanity in the foreseeable future. Globally implementations of LCEs are therefore targeted to avoid catastrophic climate change.
- **Knowledge Transfer Program for Implementation and Certification of Municipal Projects Low Carbon in Bandar Baru Bangi-KTP Toray USM.**
- **LOCAL EDUCATION PROGRAMMES ON CLIMATE:** AERONET Remotely Sensed Measurements and Retrievals of Biomass Burning Aerosol Optical Properties During the 2015 Indonesian Burning Season.
- **RCE PENANG@USM ADVANCES SDG AGENDA WITH JAPANESE PARTNERS:** The Regional Centre of Expertise on Education for Sustainable Development (RCE-ESD) at Universiti Sains Malaysia (USM) in Penang, also known as RCE Penang@USM advances its SDG (Sustainable Development Goals) agenda with its Japanese partners recently. The project between RCE Penang@USM and its Japanese partners focused on the replanting of mangroves stalks at the Merbok Forest Reserve in the nearby state of Kedah. The Centre had the support of its long-term partner, Japan Malaysia Association (JMA) as well as the Kinoshita Group which recently joined in the project.
- **World Wetlands Day: Mangrove Planting-** RCE Penang, Universiti Sains Malaysia: In conjunction with World Wetlands Day 2019, RCE Penang and RCE Sejahtera Youth had organized Wetlands Camp in Merbok, Kedah focusing on mangrove planting, livelihood and climate change, from 23rd to 24th of February 2019. Merbok river, in past centuries, once played a very important role as a trading port between China and India. Spanning over 4000 hectares, the mangrove forest reserve that flanks the Merbok river is a rich habitat with a high diversity of flora and fauna. Also, it has one of the richest population of mangrove species in the world.
- **MIRACLE STEM AND GREEN CHALLENGE 2019” - RCE PENANG@USM STRENGTHENS ESD AGENDA:** The Regional Centre of Expertise (RCE Penang) held a programme promoting various aspects of sustainability to school communities within the northern region.



- **CLIMATE ACTION PLAN:** The best way to examine policy options would be within the context of a Malaysian Climate Action Plan (MCAP) instead of continuing the present adhoc approach.
- **National Conference on Stormwater Management (SWaM) 2019:** The objectives of the conference are to disseminate information to stakeholders on the importance of MSMA design, to discuss the latest approach and effective implementation of erosion and sediment control and to promote the use of ESC and MSMA in Sabah and Sarawak using good project experiences. The event was organised by Malaysian Stormwater Organisation (MSO) along with JPS and USM: REDAC.
- **INFORM AND SUPPORT GOVERNMENT:** REDAC signed a MoA with JKR in conducting research related to green drainage. This MoA is the construction of the BIOECODS system that has been built at IPD Pasir Mas, Kelantan in 2019
- **ENVIRONMENTAL EDUCATION COLLABORATE WITH NGO:** Structuring re-oriented Malaysia National Committee on Irrigation and Drainage (MANCID) was the main discussion at the Retcom Workshop and Excom meeting the NGO event.
- **Campus Director at The 23rd Annual Conference on Irrigation and Drainage (Manco).**
- **Awareness and Education on Climate Change: A Day for Climate: RCE Penang, Universiti Sains Malaysia:** RCE Penang's secretariat Universiti Sains Malaysia (USM) conceptualized the University in a Garden concept in 2001 to depict the close affinity between the role and function of a university as an institution of higher learning and as part of nature in a global ecological setting. The flora, fauna, aquatic elements, and other natural elements are dynamically linked to the exploration of knowledge on the campus. The concept is an invitation for all who attend and visit to value, preserve, and nurture as part of efforts to create and sustain an intellectual conducive setting which enkindles the practice of symbiotic co-existence between humanity and nature.



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

The ocean drives global systems that make the Earth habitable for humankind. Our rainwater, drinking water, weather, climate, coastlines, much of our food, and even the oxygen in the air we breathe, are all ultimately provided and regulated by the sea. Careful management of this essential global resource is a key feature of a sustainable future. However, at the current time, there is a continuous deterioration of coastal waters owing to pollution, and ocean acidification is having an adversarial effect on the functioning of ecosystems and biodiversity. This is also negatively impacting small scale fisheries.

Saving our ocean must remain a priority. Marine biodiversity is critical to the health of people and our planet. Marine protected areas need to be effectively managed and well-resourced and regulations need to be put in place to reduce overfishing, marine pollution and ocean acidification. USM is committed to achieve SDG 14 by having Centre for Marine and Coastal studies (CEMACS), School of Biology and River Engineering & Urban Drainage Research Centre (REDAC). USM is committed to achieve SDG 14 by engaging staff and students in all sustainable campus activities.

- Centre for Marine and Coastal Studies (CEMACS)
- River Engineering & Urban Drainage Research Centre (REDAC), USM: REDAC is the first research centre at the USM Engineering Campus which was accorded the status of Higher Institution Centre of Excellence or HICoE for service on 9th October 2014 with a niche area on Sustainable Urban Stormwater Management.
- FRESH-WATER ECOSYSTEMS (COMMUNITY OUTREACH): Degree Programme (River Conservation and Rehabilitation): REDAC; Degree Programme (Aquatic Biology): School of Biological Sciences; Degree Programme (River Ecosystem): REDAC.
- SOM@USM International Coastal Cleanup Day 2019: The haze did not stop some 200 determined volunteers who turned up for the SOM@USM International Coastal Cleanup 2019 in Teluk Kumbar, Penang. The volunteers collected about 462kg of rubbish along the 300m stretch of the beach in front of Lexis Suites Penang. The event marked the International Coastal Cleanup, a yearly global initiative where volunteers from over 100 countries take part in a coastal cleanup in their areas.
- GORANGE 2.0: School Attack! - School of Communication, USM: GORANGE 2.0 campaign target was extended to students from secondary schools around the USM Main campus, Penang. The main goal of this campaign is to raise the awareness of high school students about the importance of zero waste and recycling. As we know, school students are the heirs of the country in the future.



- Program Young Environmentalist Camp 2.0- REDAC, Universiti Sains Malaysia.
- CONSERVATION AND SUSTAINABLE UTILISATION OF THE OCEANS (EVENTS): Penang International Green Conference and Exhibition, Gurney Paragon-Centre for Marine and Coastal Studies.
- The World Seafood Congress 2019: Held for the first time in Asia, WSC 2019 is attended by a total of 350 delegates with 11 keynote speakers and 40 exhibitors from the international seafood industry and research fraternity.
- Un-plastic Campaign 29 May 2019 at Occupy Beach Street Event.
- Earth Day 2019 22 April 2019 at Shangri-La's Rasa Sayang Resort and Spa. Activities included talks delivered to school children, Talk and permanent exhibition fixture on marine plastic pollution.
- International Coastal Clean Up Day- CEMACS, Universiti Sains Malaysia: THE Penang government, with the partnership of Centre for Marine and Coastal Studies (CEMACS) from Universiti Sains Malaysia, Cosmopolitan Homes and numerous institutions will organise a coastal cleanup event in conjunction with this year's World Cleanup Day and International Coastal Cleanup Day which falls on Sept 21.
- International World Clean Up Day- RCE Penang, Universiti Sains Malaysia: The World Clean Up programme is part of a global environmental movement and is important as an educational programme for all participants which consists of people around the world. A world clean-up allows individuals and community to come together regardless of different background and interests, and address the issue of litter on our earth whether on the land or water and its impact. T
- International Beach Cleanup 2019 RCE Sejahtera Youth-RCE Penang, Universiti Sains Malaysia: The project was done by conducting the beach clean-up and plant monitoring. The place is one of the places for the turtle to land. Therefore, it should be maintained clean for the turtle to land. The plant monitoring is one of the efforts to maintain the environment.
- The World Clean Up 3.0 and Plant Monitoring & Maintenance RCE Sejahtera Youth, RCE Penang: This programme is part of a global environmental movement and very important not only as an awareness and educational programme but also as a program that encourage people to act. This programme is a platform for individuals and community to come together regardless of different background and interests to address the issue of litter in our environment whether on the land or water and their impact.
- Go Green Project with Community: The Go Green workshop was designed for villagers to learn the concepts and hands-on training on simple composting and Azolla breeding. This composting technique can be done easily at home, canteen, cafeteria, offices and in the farms. On the 14th of August 2019, 63 villagers participated in Go Green with Community Workshop.
- Research Publication: A shared vision on the historical flood events in Malaysia: Integrated assessment of water quality and microbial variability
- Research Publication: Assessing phytoplankton distribution and water quality in constructed wetlands during dry and wet periods: A Case Study in USM Engineering Campus.
- Research Publication: Urban blue: A global analysis of the factors shaping people's perceptions of the marine environment and ecological engineering in harbours.
- China Institute of Water Resources and Hydropower Research (IWHR) President Led A Delegation to Malaysia, Deepening Bilateral Cooperation - Universiti Sains Malaysia.
- Research collaboration with China's National Environmental Monitoring Centre, Dalian on pollution in marine and mangrove ecosystems-CEMACS, Universiti Sains Malaysia: CEMACS is leading the way in tackling issues of microplastic pollution in our waters.
- Research collaboration with Ocean Park Hong Kong: Ecological studies on cetaceans with a focus on the Irrawady Dolphin around Penang Island (Ongoing study 2018-2020): The team conducted interviews with fishermen in West Penang and taught them to use a mobile app to record species and abundance of the dolphins they encounter. The research team hopes that through utilizing this mobile app, the fishermen would become more aware of dolphin conservation, and increase the community engagement, greatly enhancing the effectiveness of conservation work.
- Research on: A Study on the Urban Drainage Green Technology System Usage Effectiveness in Pioneer Project of JKR Malaysia & A Composition for Use in An Aquatic Environment.
- Application of Bio-Ecological Drainage System (BIOECODS) in Malaysia: The Bio-Ecological Drainage System (BIOECODS) is a pilot project that meets the requirement of Urban Storm Water Management Manual for Malaysia (MSMA). BIOECODS is designed for both water quantity and quality controls.
- Research Publication: Securing Water for Future Generations through Sustainable Urban Drainage Designs: A Peek into the Bio-ecological Drainage System (BIOECODS).
- PROSEDUR: Pengurusan dan Pelupusan Sisa Kimia-School of Biology, USM.



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

Human life depends on the earth as much as the ocean for our sustenance and livelihoods. Plant life provides 80 percent of the human diet, and we rely on agriculture as an important economic resource. Forests cover 30 percent of the Earth's surface, provide vital habitats for millions of species, and important sources for clean air and water, as well as being crucial for combating climate change. Every year, 13 million hectares of forests are lost, while the persistent degradation of drylands has led to the desertification of 3.6 billion hectares, disproportionately affecting poor communities.

While 15 percent of land is protected, biodiversity is still at risk. Nearly 7,000 species of animals and plants have been illegally traded. Wildlife trafficking not only erodes biodiversity, but creates insecurity, fuels conflict, and feeds corruption. Urgent action must be taken to reduce the loss of natural habitats and biodiversity which are part of our common heritage and support global food and water security, climate change mitigation and adaptation, and peace and security.

- **BIODIVERSITY & PUBLIC:** School of Biological Science, USM and Bio-society USM in collaboration with multiple stakeholders have organised a series of public awareness activities related biodiversity and conversation. The most significant event for 2019 was Public Talk 'Reasons for Hope' by the well-respected Dr. Jane Goodall, the founder of the Jane Goodall Institute and The Roots & Shoots movement. Dr. Goodall circled the globe 300 days a year to empower younger generations in environment conservation and animal welfare issues.
- **GORANGE 2.0 CAMPAIGN: SCHOOL ATTACK!** is a continuous campaign from the Zero Waste Campaign. The previous GORANGE campaign only focused on recycling activities among students and staff of the School of Communication USM. GORANGE 2.0 campaign however, targeted students from secondary schools around the USM Main Campus. The main goal is to raise the awareness of secondary school students about the importance of zero waste and recycling.
- **PENANG'S WORLD WATER DAY 2019:** World Water Day' is celebrated on 22 March to provide awareness on the importance of water to mankind and the environment. REDAC, USM has participated as part of exhibitors during Penang's World Water Day, 27 April 2019. REDAC undertakes their responsibility in raising awareness of the public, and sharing of expertise whenever an opportunity is provided by the authorities or even by other interested agencies.
- **NATIONAL AWARENESS PROJECT 2019: USAGE OF RECYCLED PAPER - "WE LEARN, WE PRACTISE, WE SUSTAIN THE ENVIRONMENT":** The project organised by School of Industrial Technology, USM in collaboration with CP Stationery Sdn Bhd. & Malaysia Newsprint Industries Sdn. Bhd. It has attracted participation from 355 students from 41 secondary schools in Malaysia. The main objective of this project is to flourish awareness, responsibility and practice of environmental care and the usage of recycled through interactive paper science experiments.



JUNGLE BOOK THE MUSICAL

A Rohingya Journey



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

Conflict, insecurity, weak institutions and limited access to justice remain a great threat to sustainable development. The number of people fleeing war, persecution and conflict exceeded 70 million in 2018, the highest level recorded by the UN refugee agency (UNHCR) in almost 70 years. In 2019, the United Nations tracked 357 killings and 30 enforced disappearances of human rights defenders, journalists and trade unionists in 47 countries. And the births of around one in four children under age 5 worldwide are never officially recorded, depriving them of a proof of legal identity crucial for the protection of their rights and for access to justice and social services.

- RESEARCH AND EDUCATION FOR PEACE (REPUSM): REPUSM was formally created in July 1995 under the auspices of the School of Social Sciences, USM. The formation of the Unit was based on a need to create awareness of solving conflict by peaceful means. The REPUSM envisions itself as a center of excellence in the study of human conflict and peaceful living. It aims to actively contribute to the promotion of peace through its various works.
- PILOT PROGRAM OF THE REGIONAL TRAINING WORKSHOP ON PEACEBUILDING AND CONFLICT TRANSFORMATION: This training is a partnership project between GPPAC-SEA member Southeast Asia Conflict Studies Network (SEACSN), REPUSM, and GPPAC-SEA's Regional Secretariat, the Initiatives for International Dialogue (IID).
- USM MAKES MUSIC TO BRING CHANGE TO ROHINGYA CHILDREN'S LIVES: The plight of the refugees especially the children has been garnering attention worldwide and the School of Arts USM has shown their ardent commitment in giving a platform for these children to voice their hopes by presenting "Jungle Book the Musical" at the Dewan Budaya Auditorium from 5-7 September. It assembled a cast comprising of refugee and local Malaysian children as well as USM students. The objectives of this event are to empower the voices of Rohingya refugee children through music and drama; to help them gain greater self-esteem and improve their social skills; to help the children gradually overcome issues of social anxiety, a problem common among members of marginalised communities; and create awareness among Malaysian public concerning refugees and their challenges.
- AN EXPERIENCE OF A LIFETIME: Fourth-year undergraduate in Health Science (Nutrition) from the USM School of Health Sciences in Kelantan, Yong Zi Qing was selected to represent the country at the International Mine Awareness and Assistance in Mine Action Seminar held in Phnom Penh, Cambodia from 3-4 April 2019. This seminar is meant to raise the awareness on the dangers of war, landmines and Explosive Remnants of War (ERW) among the youth.
- 'PEACE ROAD CHARITY RUN PENANG 2019': The Universal Peace Federation (UPF), Asia Pacific University-Community Engagement Network (APUCEN) and Persatuan Kebajikan Asas Pulau Pinang (PKAPP) held the event on 13 October 2019. The aim was to celebrate the power of global solidarity for building a peaceful and sustainable world.



Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development

Universiti Sains Malaysia (USM) embraced a ‘whole-institution’ vision aimed at ‘transforming higher education for a sustainable tomorrow’ by engaging meaningfully with a variety of parties implementing projects relevant for the stakeholders.

USM’s SDG 17 sustainability journey are travelled through multi-stakeholder dialogue and cooperation, involving industries, communities, education and research institutions, and government agencies providing key to success in promoting SDG among all its stakeholders. As such, USM is committed to SDG 17 through its Global Networks by building strategies and culture that openly supports developing, maintaining and enhancing partnerships both internally and externally.

USM Global Network will house global network secretariats that facilitate, coordinate and provide services to the members of their network. USM currently has FIVE global network secretariats which are:



Asia-Pacific University-Community Engagement Network



ASEAN Local Knowledge Network



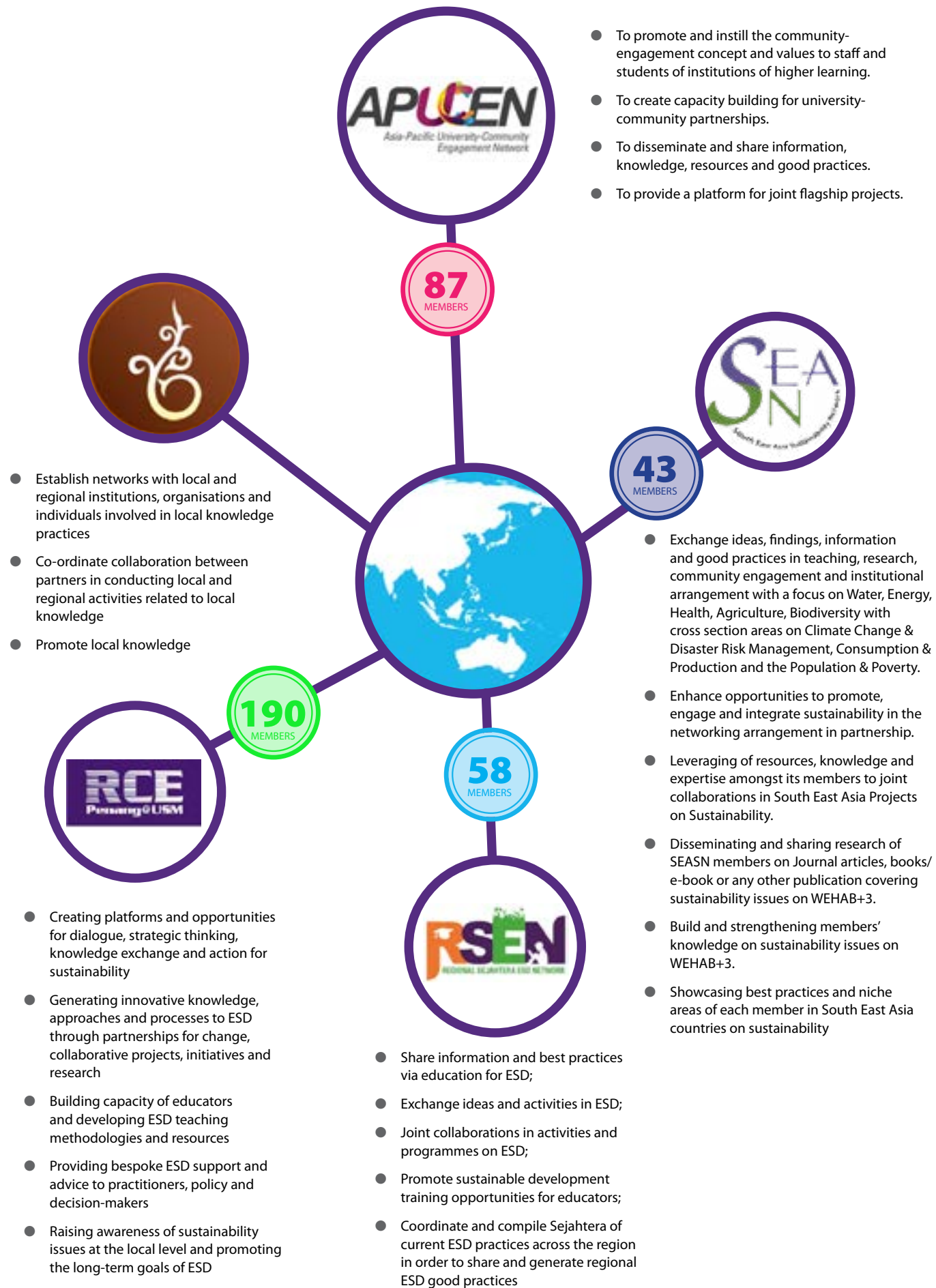
Regional Centre of Expertise Penang



Regional Sejahtera Education for Sustainable Development Network



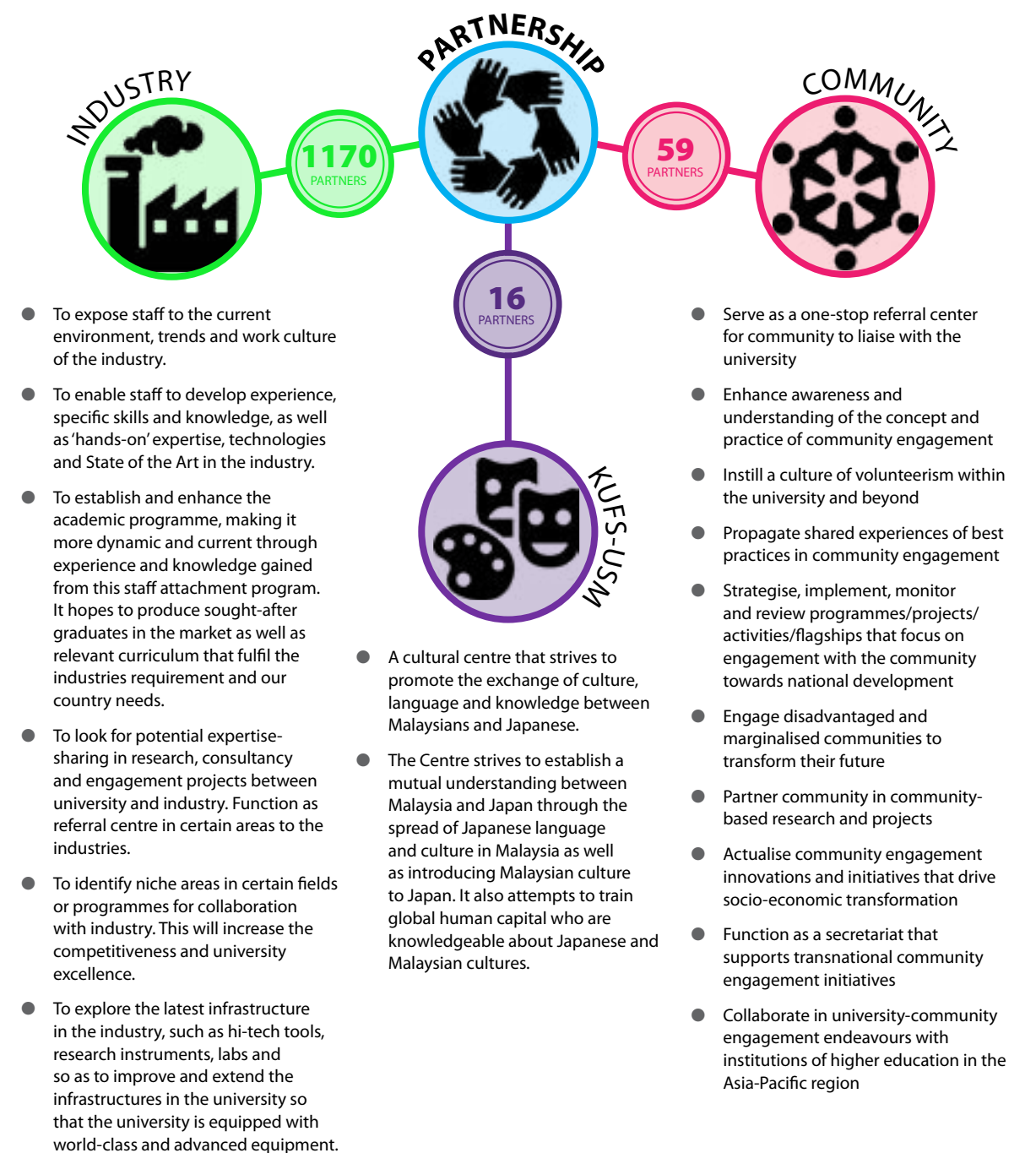
South East Asian Sustainability Network



DIVISION OF INDUSTRY AND COMMUNITY NETWORK

Objectives

- To act as a one-stop referral centre or gateway for the industry and the community.
- To ensure that the engagement with industry and community is in line with the vision and mission of the university.
- To ensure that linkages and engagement with the industry and the community are meaningful, effective and sustainable.
- To raise and enhance the linkages and engagement at state, national, regional and international levels



- Asia-Pacific Urban Forum 7 (APUF): USM has co-partnered with UN-ESCAP, UN-Habitat and the Malaysian Government to organize Asia-Pacific Urban Forum 7 (APUF) on 15-17 October 2019 at SPICE Convention Centre, Penang. More than 3,000 participants from China, Thailand, Indonesia, Philippines, Singapore, Japan, Australia, New Zealand, Fiji, Bangladesh, India and many more countries participated in the event. The forum discussed the implementation of the New Urban Agenda, the Paris Agreement, Sendai Framework, Addis Ababa Action Framework and the 2030 Agenda in the region.
- Capacity Building on SDGs @ Banda Aceh: CGSS & ICU Penang has successfully organized the third series of Capacity Building for Penang-Born Students on 23-24 November 2019 at Hotel Kyriad Muraya, Banda Aceh, Indonesia which was officiated by the Deputy Chief Minister (I) of Penang, YB Datuk Ir. Ahmad Zakiyuddin Abdul Rahman. The event, participated by 38 students from the State Islamic University Ar-Raniry Banda Aceh, was fully sponsored by the Division of Coordination of Penang Bumiputera Participation, Penang. The event was organized to expose the students to leadership skills as well as to teach students about current issues with regard to politics, economy, and Sustainable Development Goals.
- 2nd International Conference on Sustainable Development Goals (ICSDG) 2019: The 2019 International Conference on Sustainable Development Goals (ICSDG2019) aims at seeking strong collaboration and cooperation among all organisations worldwide in achieving the SDGs, with a theme of "Achieving SDGs: Rising to the Challenge".



CONCLUSION

USM started its sustainability journey about two decades ago with 'Universiti as a Living Lab' and 'University in the Garden'. USM is always sensitive in ensuring that the university practices sustainable development in all activities including research, teaching, community engagement and institutional arrangements to ensure that SDG 2030 will be achieved although there is still much that needs to be improved. Sustainability is a continuous process that requires critical self-analysis, honesty, innovations and risks. Comprehensive sustainability assessment and reporting can help to communicate university's efforts more systematically and effectively to access coverage and performance and benchmark against other institutions. Sustainability encompasses the operation of the entire business: every process, every activity and every function. The three (3) foundations of evaluating university's performance in sustainability are: environmental, social and economic impact of the university (also referred to as 5 Ps: planet, people, prosperity, partnership and peace). Sustainability requires the commitment of all, and USM is committed and prepared to include the values of sustainability in our hearts. We lead.

