ACTION PLAN
2024 - 2025

UTM SUSTAINABILITY BLUEPRINT 2030

UTM
UNIVERSITI TEKNOLOGI MALAYSIA

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SUSTAINABLE Campus
Kampus Lestari
UNIVERSITI TEKNOLOGI MALAYSIA

UNIVERSITI TEKNOLOGI MALAYSIA SUSTAINABILITY BLUEPRINT 2030

UTM Sustainability Blueprint 2030

This blueprint is dedicated to all UTM citizens who have passionately charted a course for the university's sustainability as well as students, staff, alumni and collaborators across the country and beyond. May all of our efforts be blessed and rewarded here and in the Hereafter.

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Preface

Dear UTM Citizens and Sustainability Members,

It is with great enthusiasm and a deep sense of responsibility that we, at UTM Campus Sustainability are presenting to all the Action Plan, which is properly designed based on the Sustainability Blueprint 2030 that was launched a year ago. In a world facing unprecedented environmental challenges especially towards COP28, it is our commitment to endure the Planetary Health solution in UTM.

Prof. Ir Ts. Dr. Mohd Fadhil Md Din,
Director,
UTM Campus Sustainability

This Phase 1 (Action Plan) is not merely a set of guidelines; it is a testament to our dedication to creating a lasting positive impact on the environment, our internal/external communities, and future generations of our students. As we embark on this journey, we recognise the urgent need for decisive action to address climate change (usually Net Zero Carbon policy), conserve natural resources, and foster a more sustainable way of life.

The Sustainability Blueprint 2030 Action Plan reflects countless hours of engagement, research, and dedication from our team, across sectors in UTM. It is a comprehensive strategy and specific initiative that aligns with our core values besides embraces the principles of environmental stewardship, social responsibility, and economic resilience.

In these pre-program of sustainability works, a roadmap that outlines specific, measurable, and achievable goals were designed as prerequisite for higher education. Our focus extends beyond mere rhetoric; we are committed to tangible outcomes that will transform our organisation/community into a beacon of sustainability. This blueprint is a living document that will evolve with time, adapting to emerging challenges and incorporating innovative solutions.

Our success depends on collective effort and shared responsibility. Each member of our organization/community plays a vital role in the realisation of our sustainability goals. By fostering a culture of environmental consciousness, we aim to inspire not only ourselves but also those around us.

As we implement this action plan, we invite you to join us in this journey towards a more sustainable future. Let us work hand in hand to create a legacy that transcends our immediate impact, leaving a planet that thrives for generations to come.

Introduction

SUMMARY

UTMSB 2030
Action Plan 2024 - 2025 is prepared for the third-year execution (Phase 1 2023-2025) of the university's strategy under the UTM Sustainability Blueprint (UTMSB) 2030.

The aim of the Action Plan 2024 - 2025 is to provide a clear execution for the eighteen (18) strategic initiatives (SI) for all six (6) Strategic Priority Areas (SPA) in the UTMSB 2030.

The Action Plan 2024 - 2025 implementation strategy has been extensively deliberated through a series of engagements with internal stakeholders. Two workshops and more than ten discussion sessions were conducted in 2023. The collective decision from the engagements is to strategise the execution of Action Plan 2024 - 2025. The plan offers clear guidance on the steps and initiatives necessary to attain sustainability targets. It also outlines specific actions, timelines, and responsibilities, providing a tangible plan for implementation.

UTMSB 2030

Action Plan 2024 - 2025

06 Strategic Priority Areas

18 Strategic Initiatives

39 Initiatives

Phase 1 2023-2025

06 Strategic Priority Areas

14 Strategic Initiatives (SI)

27 Initiatives (I)

Source: UTM Sustainability Blueprint 2030

Purpose of Action Plan 2024 - 2025

The Action Plan 2024 - 2025 for the UTM Sustainability Blueprint 2030, is a strategic guide to implement key initiatives and drive measurable progress towards a greener, more sustainable future. The decision to publish this comprehensive plan is rooted in UTM commitment to transparency, ensuring that every stakeholder has invaluable insight into the tangible steps that the university are taking. The Action Plan is a crucial tool for transforming commitment into action, providing direction, fostering collaboration, and ensuring the university's long-term commitment to sustainable practices and values.

The Action Plan 2024 - 2025 will help to translate the general commitment to sustainability into specific, achievable objectives. Therefore, The Action Plan engages various stakeholders, including students, faculty, staff, as well as wider community outside campus, for a collective sustainability efforts. It provides a platform for communication, collaboration, and participation, creating a shared responsibility for achieving sustainability goals. The strategies include an efficient allocation of resources, both human and financial, by prioritizing sustainability initiatives. The plan identifies the key projects and areas that require investment, ensuring optimal utilization of resources to maximize impact.

The Action Plan can also serve as an educational tool by embedding it into the academic programs to raise awareness about sustainability initiatives within the university community. It also educates stakeholders on the importance of sustainability and how they can contribute to these efforts.

Having a detailed Action Plan allows for the establishment of clear metrics and benchmarks to measure each initiative's progress. This enables the university to track and assess the effectiveness of sustainability initiatives over time, fostering a culture of accountability.

2024
Q1 – Q2

January   June

- Disseminate, communicate, group discussion - the responsibility for blueprint actions and initiatives to the relevant department
- Project/ Program application
- Implementation of initiatives and action strategy at the department level
- Monitoring progress based on target for reporting

Action Plan Timeline

July
December

Q3 – Q4

- Reflection on each action strategy (if required) by the responsible department for continuous improvement
- Develop baseline data
- Project / Program application
- Implementation of initiatives and action strategy at the department level

2025
Q1 – Q2

January
June

- Analysing the output from the 2024 implementation for annual reporting for recognition and visibility.
- Monitoring progress based on target for reporting

December   July

Q3 - Q4

- Monitoring progress based on target for reporting
- Strategic Planning for Action Plan UTMSB Phase 2 (2026-2028)

2023 Achievement

The Times Higher Education (THE) Impact Rankings assess universities' commitment to the United Nations Sustainable Development Goals (SDGs) through research, teaching, outreach, and stewardship. Universiti Teknologi Malaysia (UTM) has achieved remarkable success in the rankings, particularly in SDG 7: Affordable and Clean Energy and SDG 9: Industry, Innovation, and Infrastructure.

UTM holds the prestigious #1 position globally for SDG 7, showcasing its dedication to research and development in clean energy technologies, energy efficiency, and ensuring access to clean energy for underserved communities. Initiatives like installing solar photovoltaic systems and micro hydro turbines for indigenous communities demonstrate UTM's commitment to grassroots impact.

UTM maintains its top spot in Malaysia for SDG 9, reflecting its strength in promoting research and innovation in areas critical for industrial development and infrastructure advancements. High scores in indicators i.e. research income from industry, patents, and spin-off companies, highlight UTM's contribution to fostering a vibrant innovation ecosystem.

While retaining its overall rank of 101-200, UTM demonstrates impressive progress with four SDGs within the top 100: SDG 7 (#1), SDG 9 (#39), SDG 4: Quality Education (#70), and SDG 16: Peace, Justice and Strong Institutions (#96). This achievement emphasizes UTM's dedication to addressing global challenges through its various endeavours.

GREEN LEAF ACHIEVEMENT

5 GREEN LEAF — 2020: 2, 2021: 1, 2022: 1

4 GREEN LEAF — 2020: 3, 2021: 8, 2022: 2

3 GREEN LEAF — 2020: 15, 2021: 13, 2022: 14

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UTM Green Leaf: Cultivating Sustainability at Universiti Teknologi Malaysia

The UTM Green Leaf is a comprehensive sustainability initiative launched by Universiti Teknologi Malaysia (UTM) to nurture and accelerate the university's journey towards environmental consciousness and responsible resource management.

The Campus Sustainability Office has introduced Green Leaf in 2020, the Sustainability Award during Citra Karisma has now entered its fourth year, recognising and encouraging responsibility centers (PTJs) at UTM to excel in sustainability efforts. Divided into four categories (School/Faculty, Office/Department, HiCoE/CoE/Research Institute, and Residential College), the award uses the "Green Leaf" assessment method. This comprehensive method comprises various questions based on six key elements: Profile, Management, Education & Innovation, Community, Environment, and Wellbeing. To be eligible for the Sustainability Award, PTJs must achieve a minimum Green Leaf score of 51%, corresponding to the 3 Green Leaf levels (51-74%).
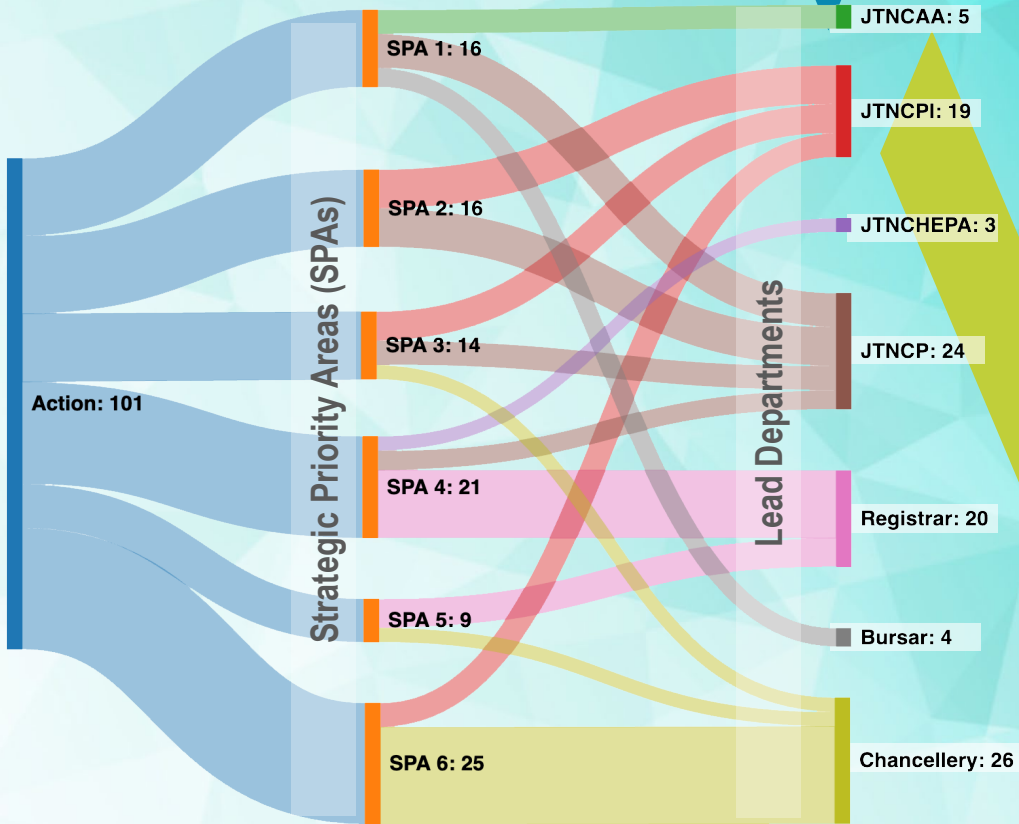
The UTM Green Leaf is a testament to the university's commitment to becoming a leader in sustainability education and practices. By embracing innovative solutions and engaging the entire university community, UTM is striving to build a greener and more sustainable future for generations to come.

Strategic Working Action Plan

Action Distributions by SPAs

Strategic Priority Areas (SPAs)

- SPA 1: 16
- SPA 2: 16
- SPA 3: 14
- SPA 4: 21
- SPA 5: 9
- SPA 6: 25

Action: 101

Lead Departments

- JTNCAA: 5
- JTNCPI: 19
- JTNCHEPA: 3
- JTNCP: 24
- Registrar: 20
- Bursar: 4
- Chancellery: 26

Note: The numbers represent the total actions at the specific levels

Action Plan at the Lead Department Level

The diagram illustrates the Action Plan, encompassing a total of 101 distinct actions strategically categorised into six Strategic Priority Areas (SPAs) and led by seven departments. This structured allocation facilitates a comprehensive approach to addressing sustainability objectives, ensuring a balanced and targeted implementation across diverse facets of the sustainability initiative.
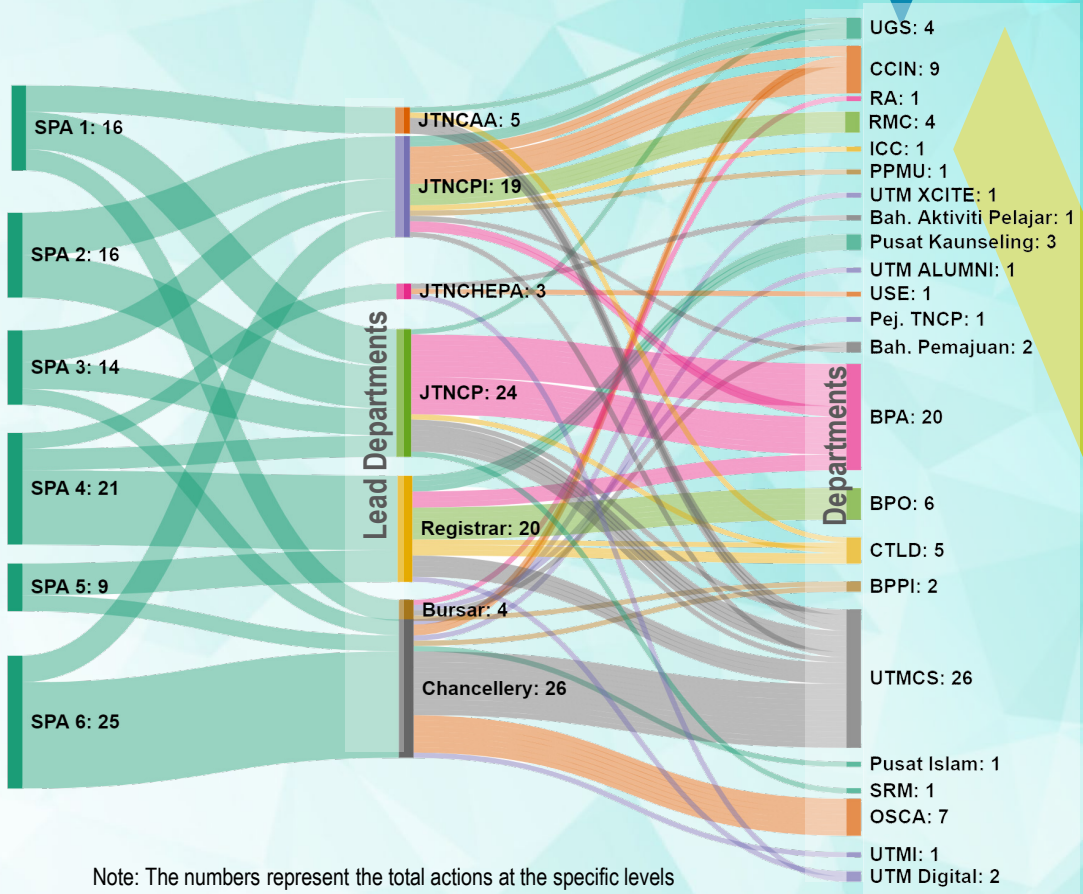
Note: The numbers represent the total actions at the specific levels

Action Plan at the Department Level

The diagram illustrates the actions in each SPA led by seven departments and disseminated to twenty-two (22) relevant departments for execution.

Component of Action Plan

The Action Plan 2024 - 2025 explains the Strategic Initiatives (SI) and Initiatives (I) that have been outlined in UTMSB 2030 for Phase 1.

SPA 1 : NET ZERO CARBON CAMPUS | 2 *SI* | 3 *I*

SPA 2 : ECOSYSTEM RESILIENCE | 2 *SI* | 4 *I*

SPA 3 : SUSTAINABLE PRODUCTION & RESPONSIBLE CONSUMPTION | 3 *SI* | 5 *I*

SPA 4 : HEALTH & WELL-BEING | 3 *SI* | 6 *I*

SPA 5 : SDGs LOCALISATION | 1 *SI* | 3 *I*

SPA 6 : NETWORKING & PARTNERSHIP | 3 *SI* | 6 *I*

SPA 1: NET ZERO CARBON CAMPUS

2 SI   **3 I**

Table 1 : Code for Strategic Initiatives (SI) and Initiatives (I) for SPA1 in Phase 1.

SPA CODE	SI CODE	I CODE	PHASE
	SI 1	I1.1	P1
		I1.2	P2
		I1.3	P1
SPA 1	SI 2	I2.1	P2
		I2.2	P2
	SI 3	I3.1	P3
		I3.2	P1

SI 1: **Advancing towards Net Zero Transition**

    I1.1 Establish Net Zero Carbon (NZC) Governance

Operational Definition (OD): Establish a governance structure to support the implementation of NZC campus.

    I1.3 Develop carbon mitigation financing framework

OD: Framework that guides the institute's financial planning towards projects and initiatives that aimed at carbon mitigation and promoting sustainability

SI 3: **Fostering living lab for decarbonisation**

    I3.2 Increase awareness & monitor community acceptance

OD: Strategic approach to promote NZC through targeted communication, education and awareness raising initiatives

SI 1: **Advancing towards Net Zero Transition**

I1.1 Establish Net Zero Carbon (NZC) Governance

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 1	SPA1-001	Establish NZC committee	Governance framework	Organisation structure	JTNCP	UTMCS
	SPA1-002	Establish policies and best practice guidelines to support NZC		1 guideline		
	SPA1-003	Develop GHG inventory for UTM to establish baseline	Establish NZC masterplan	1 GHG inventory report		JTNCP: Bahagian Pengurusan Aset
	SPA1-004	Set the GHG emissions reduction target based on Science Based Target (SBTi)		Reduction target		
	SPA1-005	Identify key areas for mitigation, improvement and prioritize plan		List of improvement measures		
	SPA1-006	Develop NZC 2030 master plan including Renewable Energy Masterplan		1 masterplan related to: **KeyHIR-18**		
	SPA1-007	Establish a database system to monitor the achievement of NZC		1 dashboard		

SI 1: **Advancing towards Net Zero Transition**

I1.3 Develop carbon mitigation financing framework

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 1	SPA1-008	Develop budget plan to implement NZC initiatives and pilot projects	Increase investment by 5%	1 budget planning	BURSAR	Pej. Timb. Naib Canselor (Pembangunan)
	SPA1-009	Develop guidelines to attract investment (e.g., Waqf, endowment, external funding opportunities, grants, and partnerships) to finance NZC projects		1 Guideline and proposal template		JTNCP Bahagian Pemajuan
	SPA1-010	Setup the procurement criteria (e.g, product carbon footprint information) for vendors and service provider to support GHG accounting		1 Procurement criteria		Bahagian Pengurusan Perolehan & ICT (BPPI)
	SPA1-011	Create translational research grant for NZC living lab		1 Call for grant	JTNCPI	Research Alliance

SI 3: **Fostering living lab for decarbonisation**

I3.2 Increase awareness & monitor community acceptance

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 1	SPA1-012	Conduct training need analysis (TNA) for community of UTM	Achieve 60% of participation from UTM community	1 TNA report and training plan	JTNCAA	CTLD
	SPA1-013	Engage in benchmarking and knowledge sharing with stakeholders from higher education institutions and sustainability networks		1 benchmarking exercise		UTMCS
	SPA1-014	Execute CEPA(Communication, Education and Public Awareness) programme		2 programs		
	SPA1-015	Monitor the effectiveness of CEPA program		1 evaluation form		
	SPA1-016	Embed NZC and sustainability components into academic curriculum		Curriculum review mapping		UGS & SPS

SPA 2: ECOSYSTEM RESILIENCE

2 SI   4 I

Table 2 : Color code for Strategic Initiatives (SI) and Initiatives (I) for SPA2 in Phase 1

SPA CODE	SI CODE	I CODE	PHASE
SPA 2	**SI 1**	I1.1	P1
		I1.2	P1
	SI 2	I2.1	P2
		I2.2	P2
	SI 3	I3.1	P1
		I3.2	P1

SI1 : Leveraging natural resource to improve preparedness and resilience

I1.1 Develop climate preparedness & campus resilience action plan

Operational Definition (OD):
Creating a comprehensive plan to enhance the preparedness and resilience of UTM against climate-related risks and challenges to ensure effective respond and speed recover while minimizing potential disruptions

I1.2 Establish inventory baseline data & reporting system

OD: Establish systematic and organized process for tracking and reporting UTM carbon emissions that enables informed decision-making, performance tracking, and facilitates transparency and accountability

SI3 : Establishing conservation, research, and education

I3.1 Promote Edu tourism & open campus towards space sharing accessibility

OD: Promoting educational tourism activities that based on UTM educational and cultural resources to provide educational experiences, promote accessibility of space sharing, fostering inclusivity, knowledge sharing and beneficial social impact.

I3.2 Engage on conservation, preparedness & resilience programme that outreach to stakeholders' involvement

OD: Launching engagement and collaboration plan outreach to empower internal and external stakeholders, raise awareness, develop educational materials and mobilize resources for effective conservation, preparedness and recovery planning.

SI 1 : Leveraging natural resource to improve preparedness and resilience

I1.1 Develop climate preparedness & campus resilience action plan

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 2	SPA2-017	Identify climate risks and vulnerabilities on campus through a comprehensive assessment.	Climate Prepadness and Campus Resiliense Action Plan	1 Climate Risk Report	JTNCP	Strategy & Risk Management (SRM)
	SPA2-018	Engage relevant stakeholders (Staff, Students and Experts) to gather insights and develop a climate preparedness and campus resilience action plan.		1 engagement with stakeholder		UTMCS
	SPA2-019	Identify specific strategies and measures to enhance infrastructure resilience, emergency response capabilities, and campus operations continuity		1 Report		JTNCP: Bahagian Pengurusan Aset
	SPA2-020	Integrate sustainability and resilience principles into the curriculum for students hands-on as well as into the policies, procedures, and decision-making processes		Initiate the action Plan with UGS		JTNCAA: UGS

SI 1 Leveraging natural resource to improve preparedness and resilience

I1.2 Establish inventory baseline data & reporting system

SPA	Action Code	Action	Key result	Target	Lead	Dept.
SPA 2	SPA2-021	Develop inventory of UTM natural resources, including land, water, noise, air, and biodiversity for UTM Johor Bahru Master Plan related to: KeyHIR-18	Development of Dashboard Monitoring System	Conduct site survey for data inventory and analysis	JTNCPI	JTNCP : Bahagian Pengurusan Aset
	SPA2-022	Implement a data collection and reporting system to track usage, emissions and other relevant sustainability metrics				
	SPA2-023	Engage relevant departments, research centers, and stakeholders to collect and analyze data, ensuring accuracy and consistency				RMC
	SPA2-024	Establish regular reporting mechanisms to monitor progress, identify trends, and inform decision-making processes related to resource management and conservation		Organise a workshop as reporting mechanism		

SI 3 Establishing conservation, research, and education

I3.1 Promote Edu tourism & open campus towards space sharing   accessibility

SPA	Action Code	Action	Key result	Target	Lead	Dept.
SPA 2	SPA2-025	Develop an open campus policy promoting space sharing accessibility program, allowing external stakeholders to utilize campus spaces, resources and facilities - to be aligned with the planning of UTM JB Masterplan and Tropical Landscape Masterplan related to: **KeyHIR-18**	Increase visibility, internal engagement & external outreach	Revisit efforts by BPA TNCP	JTNCP	BPA: Seksyen Pengurusan Fasiliti
	SPA2-026	Foster partnerships with local tourism boards and travel agencies to create tours and programs that showcase the UTM as sustainable tourism destination		2 travel agencies		BPA: Seksyen Pengurusan Perniagaan
	SPA2-027	Develop educational programs and module learning material that provide opportunities for visitors to learn about sustainability		2 programs/ module		UTMCS
	SPA2-028	Enhance the campus infrastructure and facilities (including maintenance Masterplan) to accommodate edutourism activities including developing mobile apps or online platforms technology medium related to: **KeyHIR-18**		Secure special funding & development of Arch. framework		BPA: Seksyen Projek & Penyenggaraan

SI 3 Establishing conservation, research, and education

I3.2 Engage on conservation, preparedness & resilience programme that outreach to stakeholders' involvement

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 2	SPA2-029	Identify internal and external key stakeholders and conduct stakeholder analysis to tailor engagement strategies and develop targeted initiatives	Enhance the STAR-Rating Mechanism by at least 4 Star	Updated database of stakeholders	JTNCPI	CCIN
	SPA2-030	Utilize innovative method (gamification/interactive) to develop educational programs that targeting various stakeholder groups and empowering by incorporate their inputs into decision-making processes to create a sense of ownership and shared responsibility		2 programs/ module		JTNCAA: UGS
	SPA2-031	Develop a communication and engagement plan for effectively communicating utilizing various platform		Communication and Engagement plan (CEP)		UTMCS
	SPA2-032	Assess the effectiveness of engagement strategies to measure the program's impact on stakeholders' awareness and behavior change.		Survey tool & Annual Survey		CCIN

SPA 3: SUSTAINABLE PRODUCTION & RESPONSIBLE CONSUMPTION

3 SI **5 I**

Table 3 : Color code for Strategic Initiatives (SI) and Initiatives (I) for SPA3 in Phase 1 UTMSB 2030.

SPA CODE	SI CODE	I CODE	PHASE
SPA 3	SI 1	I1.1	P2-P3
		I1.2	P1
		I1.3	P1
	SI 2	I2.1	P1
		I2.2	P1
	SI 3	I3.1	P2-P3
		I3.2	P1

SI 1: **Building a knowledge driven smart community**

I1.2 Develop smart & traceable waste tracking & monitoring mechanism.

OD: Designing and implementing a system that utilizes technology and innovative solutions to track, monitor, and manage waste generated to promote transparency, accountability, and evidence-based decision-making

I1.3 Develop technological innovations to enhance waste prevention & recovery.

OD: Develop and implement practical technological innovation and scalable solutions to reduce waste generation, increase resource efficiency and ensure effective waste recovery and recycling processes

SI 2 : **Nurturing Sustainable Lifestyle @ UTM**

I2.1 Enhance campus operation measures with community & stakeholder outreach

OD: Developing a plan to work with the wider community and stakeholders to promote sustainable practices and improve campus operations also includes developing educational materials and outreach strategies to increase awareness and understanding of sustainability issues.

I2.2 Facilitate responsible consumption initiative to increase value chain

OD: Implement strategies to raise awareness and educate UTM campus community about sustainable consumption patterns, ethical sourcing, and waste reduction measures to encourage conscious consumption behaviors that reduce environmental impact while increasing social and economic value.

SI 3 : **Spearheading Sustainable Activities**

I3.2 Accelerate research & innovation through green funds, grants and endowment

OD: Creation of green funds, grants and endowment including a framework for financing and support research and innovation to accelerate the development and adoption of innovative solutions.

SI 1: **Building a knowledge driven smart community**

I1.2 Develop smart & traceable waste tracking & monitoring mechanism

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 3	SPA3-033	Innovate smart waste bins and recycling stations equipped with sensors to monitor fill levels and optimize waste collection routes.	80% establishment of waste and monitoring mechanism	1 Feasibility study on selective areas/conditions	JTNCP	JTNCP: BPA
	SPA3-034	Establish a centralized sustainability knowledge hub to disseminate information, resources, and best practices related to waste management, circular economy, and sustainable lifestyle choices.		1 website / dashboard launched		UTMCS
	SPA3-035	Collaborate with local communities, NGOs, service provider and government agencies to share knowledge, resources, and initiatives that enhance transparency and promote sustainability beyond the campus boundaries.		Report on collaborative program		UTMCS

SI 1: **Building a knowledge driven smart community**

I1.3 Develop technological innovations to enhance waste prevention & recovery

SPA	Action Code	Action	Key result	Target	Lead	Dept.
SPA 3	SPA3-036	Foster collaboration with industry partners, startups, and government agencies to accelerate the development and adoption of innovative technologies (e.g virtual lab for chemical waste disposal) related to JTNCAA: **UTMHyFlex Corporate Niche CSP1-2**	Provide sufficient allocation for technology innovation and processes. Increase the procedure compliance and waste operation performance by 80%	2 technologies engaged	JTNCPI	PPMU
	SPA3-037	Promote entrepreneurship and incubation programs to support the commercialization of waste-related technological innovations.		1 workshop/ seminar conducted		ICC
	SPA3-038	Integrate sustainability principles into the curriculum, ensuring that all students have access to education and training on sustainable practices and responsible consumption		2 service learning USR conducted		JTNCAA : UGS

SI 2: **Nurturing Sustainable Lifestyle @ UTM**

I2.1 Enhance campus operation measures with community & stakeholders outreach.

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 3	SPA3-039	Engage the campus community, including students, faculty, staff, and local residents, in sustainability initiatives through workshops, campaigns, and collaborative projects	Increase participation rate by 10%	1 campaign per faculty	JTNCP	UTMCS
	SPA3-040	Conduct regular sustainability audits to identify opportunities for energy efficiency, water conservation, and waste reduction on campus (5% solid waste target reduction from 2022 baseline) related to: **KeyHIR-18**		4 audit per year		Bahagian Pengurusan Aset

SI 2: **Nurturing Sustainable Lifestyle @ UTM**

I2.2 Facilitate responsible consumption initiative to increase value chain

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 3	SPA3-041	Implement a responsible consumption campaign to raise awareness about sustainable purchasing choices, ethical sourcing, and product lifecycle impacts.	Asses the percentage of participation level by 80% per initiative	1 university campaign	CHANCELLERY	UTMCS
	SPA3-042	Develop guidelines and criteria for sustainable procurement practices, including considerations for fair trade, eco-labels, and social responsibility		1 framework		BURSAR : BPPI
	SPA3-043	Collaborate with local businesses, startups, and social enterprises to create a sustainable marketplace that offers eco-friendly products and services.		1 seminar on MyHijauMark		JTNCHEP: UTM Xcite

SI 3: **Spearheading Sustainable Activities**

I3.2 Accelerate research & innovation through green funds, grants and endowment

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 3	SPA3-044	Establish a dedicated green fund or sustainability grant program to provide financial support for research projects, innovation initiatives, and sustainable campus development	2 Green Fund Project	1 special grant offered	JTNCPI	Rese ach Allian ce
	SPA3-045	Scouting external and international funding opportunities and partnerships with foundations, government agencies, and industry sponsors to enhance the green fund and grant program		2 opportunities for partnerships/ funding secured		RMC
	SPA3-046	Allocate a portion of the institute's endowment to support sustainability-related research, projects, and initiatives		2 projects selected for the allocation		JTNCP: Bahagian Pemajuan

SPA 4: HEALTH & WELL-BEING

3 SI 6 I

Table 4 : Color code for Strategic Initiatives (SI) and Initiatives (I) for SPA4 in Phase 1 UTMSB 2030.

SPA CODE	SI CODE	I CODE	PHASE
SPA 4	SI 1	I1.1	P1
		I1.2	P1
	SI 2	I2.1	P1
		I2.2	P1
	SI 3	I3.1	P1
		I3.2	P1

SI 1: **Improving a healthy, productive, and conducive campus life**

I1.1 Establish UTM Well-Being Index with enhancement programme

Creating a comprehensive and multidimensional measurable Well Being Index that takes into account objective and subjective indicators. Implementing programs, initiatives and evidence-based interventions to enhance the well-being of the campus community towards conducive campus life.

I1.2 Produce campus well-being map

Creating a visual representation map of resources, services and facilities that promote well-being indicators by providing valuable information to access and support available. Identifying opportunities for improving the physical environment to enhance academic performance and quality of life.

SI 2: **Empowerment of Sustainable Resources & Operation Committee** (*Jawatankuasa Pelestarian Sumber & Operasi*)**

I2.1 Recognise Sustainable Operation committee for initiatives coordination

Establishing committee responsible for coordinating initiatives, identifying opportunities, developing and implementing initiatives to strengthen SRO principles

I2.2 Provide support & recommend evidence-based intervention

Provide resources and referrals to those who may need additional support. Recommend evidence-based interventions by providing support and recommending evidence-based interventions including monitoring and evaluating the effectiveness of interventions

SI 3: **Execute Sustainable Operation programmes and carnival**

I3.1 Increase participation & accessibility to programme to culture   sustainable operation practices

Create a culture of health and wellness in the campus community by planning programs that promote the principles of health, safety, and wellness and identifying opportunities to increase participation in and access to these programs. Providing an enabling environment where the individual can prioritize their health and well-being.

I3.2 Create a model food campus that is health- promoting, ecologically minded, economic and nutrient balanced

Develop a guidelines for selection and identification of opportunities to improve access and availability of food options that healthy, sustainability, and economical while promotes a balanced and nutritious diet for the campus community

**Previously known as 3S (Sihat, Selamat, Sejahtera)

SI 1: **Improving a healthy, productive, and conducive campus life**

I1.1 Establish UTM Well-Being Index with enhancement programme

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 4	SPA4-047	Develop a comprehensive institution-specific well-being index, taking into account the physical, psychological and social dimensions of well-being.	Achieved campus well being index rate by Staff : 85% Student : 80%	85% Well-Being Index (WBI) score for staff and 80% WBI for students	REGISTRAR	Bahagian Pengurusan Organisasi (BPO)
	SPA4-048	Conduct surveys and assessments to establish a baseline of well-being and identify key areas for improvement.		Achieved 85% beseline data		
	SPA4-049	Develop an improvement plan to meet the identified wellness needs of the university community.		Collaborate with expert (e.g: KPWKM, NGO's, KKM, Permai Hospital)		JTNCHEPA: PUSAT KAUNSELING
	SPA4-050	Implement evidence-based interventions to enhance the well-being of campus community.		1 program organized/co-organized by each PTJ		BPO

SI 1: **Improving a healthy, productive, and conducive campus life**

I1.2 Produce campus well-being map

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 4	SPA4-051	Conduct mapping exercises to identify and assess existing facilities, services and resources related to campus well-being	100% monitor each element	Achieved 100% mapping exercises	REGISTRAR	JTNCP: BPA
	SPA4-052	Improve, maintain existing facilities and build new facilities related to campus well-being based on the universal design standards. related to: **KeyHIR-18**		Well-being facilities are accesible by university community within 5 minutes of walking distance/within 1 KM radius. Aligned with "UTM Berseri Concept" : 6 Geo-Trails & 26 Focal Points		JTNCP: BPA
	SPA4-053	Develop a comprehensive campus wellness map that highlights the location and availability of health centers, counseling services, recreational facilities, green spaces, and other wellness services		85% of campus wellness map is successfully developed		JTNCP: BPA
	SPA4-054	Develop and implement a digitalized campus wellness map that highlights the location and availability of health centers, counseling services, recreational facilities, green spaces, and other wellness services		85% of digitalized campus wellness map is successfully implemented via UTMSMART		UTM DIGITAL

SI 2: **Empowerment of Sustainable Operation committee**

I2.1 Recognise Sustainable Operation committee for initiatives coordination

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 4	SPA4-055	Empower the roles and responsibilities of the Sustainable Operation committee to ensure clear communication channels and effective coordination of welfare measures	Provide effective mechanism to enhance the impact to stakeholders	Achieved 4 committee meetings per year	REGISTRAR	BPO
	SPA4-056	Collaborate with external organizations, health professionals and wellness experts to leverage knowledge and resources to implement wellness programs		Collaborate with external experts at least for 1 program per year		BPO
	SPA4-057	Provide training/coaching sessions to enhance Sustainable Operation committee's knowledge and resources to implement wellness programs		Attend at least 1 training program each year		CTLD

SI 2: **Empowerment of Sustainable Operation committee**

I2.2 Provide support & recommend evidence-based intervention

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 4	SPA4-058	Collaborate with health professionals, psychologists and counselors to develop evidence-based interventions for common health concerns such as stress management, mental health and work-life balance	100% Compliance	Develop at least 2 evidence-based interventions programs	REGISTRAR	JTNCHEPA: PUSAT KAUNSELING
	SPA4-059	Conduct awareness campaigns and educational workshops to promote evidence-based interventions and provide the campus community with the necessary tools (AI integrated) and resources to improve their physical and mental well-being		Conduct at least 2 evidence-based interventions programs for university community per year (70% of improvement)		BPO
	SPA4-060	Build partnerships with community health organizations and mental health providers to provide specialized services and referrals to students and staff as needed.		Collaborate with external experts/stakeholders for at least 2 programmes per year ii) Sources & Referral database for additional support - provide by Pusat Kaunseling		JTNCHEPA: PUSAT KAUNSELING

SI 3: **Execute Sustainable Operation programmes and carnival**

I3.1 Increase participation & accessibility to programme to culture sustainable operation practices

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 4	SPA4-061	Develop a communication and engagement strategy to increase awareness of the sustainable culture and the importance of available benefits programs and resources.	Achieved engagement and visibility effort by 85%	Organise 1 program at "UTM Berseri" : 6 Geo-Trails & 26 Focal Points	JTNC HEPA	BAHAGIAN AKTIVITI & PEMAJUAN PELAJAR
	SPA4-062	Implement CPD points and other benefits for participations in campus-wide events, physical activities to promote culture of well being among university community		2 physical fitness programmes that implement CPD points		UTM SPORT EXCELLENCE (USE)
	SPA4-063	Use technology platforms and social media to reach a wider audience and engage with the campus community on wellness topics		Notification on UTM Social Media & UTM Smart Apps		UTM DIGITAL

SI 3: **Execute Sustainable Operation programmes and carnival**

I3.2 Create a model food campus that is health- promoting, ecologically minded, economic and nutrient balanced

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 4	SPA4-064	Coordinate with campus arcade service providers to develop a model campus program that prioritizes health, sustainability and balanced nutrition.	Increase internal implementation by 85%	"i) Nutrition information poster for every main dishes / each cafeteria ii) 1 Healthy menu provide / each cafeteria iii) Non-smoking enforcement"	JTNCP	JTNCP : BPA
	SPA4-065	Promote healthy food choices by offering nutritious and varied menus, increasing the availability of fresh fruits, vegetables and whole grains and reducing processed and unhealthy foods		"i) 1 Healthy food corner/archade (organic, fruits) ii) Healthy food campaign for caterer"		JTNCP : BPA
	SPA4-066	Sustainable food practices such as reducing food waste, purchasing local and organic ingredients, and adopting environmentally friendly packaging and disposal methods		Empowering One Stop Centre (Arked Lestari) as a main hub for sustainable food practice.		JTNCP : BPA
	SPA4-067	Raise awareness and educate the campus community about the importance of healthy eating, sustainable food choices, and the environmental impact of food production and consumption		Implement CPD points/awareness programmes for healthy eating practices		CTLD

SPA 5: SDGs LOCALISATION

1 SI 3 I

Table 5 : Color code for Strategic Initiatives (SI) and Initiatives (I) for SPA5 in Phase 1 UTMSB 2030.

SPA CODE	SI CODE	I CODE	PHASE
SPA 5	SI 1	I1.1	P1
		I1.2	P1-P3
		I1.3	P1-P3
	SI 2	I2.1	
		I2.2	
	SI 3	I3.1	
		I3.2	

SI 1: **Development of capacity building and engagement implementation plan**

I1.1 Identify talents & experts to guide and plan execution towards localising SDGs

Identifying experts in areas related to sustainable development, social impact, environmental conservation, and other relevant fields. These talents and experts play a crucial role in providing guidance, strategic planning, and practical implementation of projects and programs that align with the SDGs

I1.2 Plan training, certification & capacity-building programmes

Designing and implementing structured training, certification, and capacity-building programs within the higher education institution to enhance the knowledge, skills, and capabilities of individuals in various areas

I1.3 Promote sponsorship programme to encourage multi-stakeholder engagements

Promotion and establishment of a sponsorship program within the higher education institution to encourage and facilitate multi-stakeholder engagement in sustainability initiatives and SDGs-related projects

SI 1: **Development of capacity building and engagement implementation plan**

I1.1 Identify talents & experts to guide and plan execution towards localising SDGs

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 5	SPA5-068	Conduct comprehensive talent mapping to identify individuals within the Institute, local communities and relevant stakeholders with experience and knowledge of sustainable development and the UN Sustainable Development Goals (SDGs) & ESG	Increase engagement and visibility effort	1 Report	REGISTRAR	UTMCS
	SPA5-069	Establish a sustainability advisory committee composed of these talents and experts to guide the implementation and localization of the SDGs in the institute.		Central Advisory Committee in University level		UTMCS

SI 1: **Development of capacity building and engagement implementation plan**

I1.1 Identify talents & experts to guide and plan execution towards localising SDGs

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 5	SPA5-070	Establish working groups or icon under the leadership of these talents and experts to promote specific initiatives and projects related to the SDGs	Increase engagement and visibility effort	Appoint icon within dIsciplinary (engineering, science and technology and social science)	REGISTRAR	UTMCS
	SPA5-071	Collaborate with internal and external experts, organizations and agencies to provide certification and professional development opportunities related to sustainable development and the SDGs		Identify related industry towards SDG and tied with UTM Talent		UTMCS

SI 1: **Development of capacity building and engagement implementation plan**

I1.2 Plan training, certification & capacity-building programmes

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 5	SPA5-072	Identify key areas of knowledge and skills needed to promote sustainable development and the SDGs within the institution and wider society	Increase number of participation level per capacity-building	1% staff (academic & PPP) with professional qualification	REGISTRAR	CTLD
	SPA5-073	Develop a comprehensive training and capacity building program by offering seminars, workshops and courses on sustainable development, SDGs, project management, stakeholder engagement and other related topics		Conduct Certified Course by professional agencies leading SDGs eg:(SEDA, NIOSH). eg: In house training		

SI 1: **Development of capacity building and engagement implementation plan**

I1.3 Promote sponsorship programme to encourage multi-stakeholder engagements

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 5	SPA5-074	Develop a sponsorship program to promote multi-stakeholder engagement and partnerships to localize sustainability initiatives and sustainable development goals.	Enhance the engagement initiative	4 sponsorship program	CHANCELLERY	PUSAT ISLAM
	SPA5-075	Reach out to alumni, local businesses, industry leaders, NGOs, government agencies and other stakeholders to obtain sponsorship for specific sustainability projects, research, grants and community engagement activities		2 of any alumni, local businesses, industry leaders, NGOs, government agencies and other stakeholders		UTM ALUMNI
	SPA5-076	Create sponsorship packages that provide sponsors with visibility, branding opportunities and tangible benefits that align their interests with the Sustainable Development Goals		Central promotions to promote visibility and branding opportunities of SDGs		OSCA

SPA 6: NETWORKING & PARTNERSHIP

3 SI   **6 I**

Table 6 : Code for Strategic Initiatives (SI) and Initiatives (I) for SPA 6 in Phase 1.

SPA CODE	SI CODE	I CODE	PHASE
SPA 6	SI 1	I1.1	P1-P3
		I1.2	P1-P3
	SI 2	I2.1	P1-P3
		I2.2	P1-P3
		I2.3	P1-P3
	SI 3	I3.1	P1-P3

SI 1: **Promoting leadership in sustainability through local, global and alumni partnership**

I1.1 Fostering strategic engagement and serve as hub of collaboration addressing global challenge

OD: Cultivate and strengthen strategic partnerships and collaborations with various stakeholders, including other academic institutions, industry, government agencies, NGOs, alumni and communities.

I1.2 Invest in University Sustainable Programme while incorporating the ESG criteria.

OD: Integrating sustainability principles into various aspects of the institution's operations, including infrastructure development, curriculum design, research projects, and community engagement.

SI 2: **Strengthening UTM brand and visibility to enhance global reputation**

I2.1 Develop UTM's SDGs Awareness Index

OD: Developing a set of indicators or metrics to measure the awareness, knowledge, and engagement of students, faculty, and staff with the SDGs. The index serves as a benchmark to track progress and identify areas for improvement.

I2.2 Promote high-impact content through new media platforms

OD: Strategic dissemination of content related to sustainability, research findings, innovative practices, and initiatives of the higher education institution through various new media platforms.

I2.3 Improve reputation & impact ranking

OD: Implementing measures to improve the institution's standing in sustainability-related rankings to enhance the institution's reputation as a leader in sustainability

SI 3: **Emphasizing on high impact quadruple helix CSR project**

I3.1 Establish a centralised database that encompasses both local and international I ndustry inkages, incorporating Corporate Social Responsibility (CSR) and Universal Social Responsibility (USR) in accordance with the recognized standards of the Global CSR Index.

OD: Creation and maintenance of a comprehensive database within the higher education institution that contains information on government-linked companies (GLCs) and Public Listed companies as emphasized by Bursa Malaysia to be aligned with their current Corporate Social Responsibility (CSR) and embarking the new Environmental, social, and corporate governance (ESG) practices

SI 1: **Promoting leadership in sustainability through local, global and alumni partnership**

I1.1 Fostering strategic engagement and serve as hub of collaboration addressing global challenge

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 6	SPA6-077	Conduct an assessment of current strategic engagement and potential opportunities for growth - (strengthening alumni synergistic collaboration) related to JTNCHEP: **KeyHIR-13**	Establishment of Sub-Consortium under ATU-Net addressing SDGs (partnering entities Yayasan Hasanah, ASEAN, TEMASEK, United Nations)	1 assessment	Chancellery	UTMI
	SPA6-078	Develop a communication and outreach plan that include both internal and external partners (High Quality Graduates Framework) Related to JTNCAA: **KeyHIR-01**		1 communication plan		OSCA
	SPA6-079	Set Targeted Goals and Metrics to ensure progress and accountability or internal engagement, external outreach partnership and visibility target		Identify goals		CCIN
	SPA6-080	Establish regular evaluation and continuous improvement system		Development of evaluation mechanism		CCIN

SI 1: **Promoting leadership in sustainability through local, global and alumni partnership**

I1.2 Invest in University Sustainable Programme while incorporating the ESG criteria

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 6	SPA6-081	Conduct a Materiality Assessment to identify the most significant ESG issues for the university.	Increase of 10% in investing on University Sustainability Programme	Draft of materiality assessment	Chancellery	UTMCS
	SPA6-082	Develop an ESG Framework and Strategy		Draft Framework		
	SPA6-083	Integrate ESG Criteria into Investment Decisions towards action plan implementation				
	SPA6-084	Monitor and evaluate ESG investments to ensure alignment with the ESG investment plan and maximize impact and publish report to communicate		Monitoring Report by 2025		

SI 2: **Strengthening UTM brand and visibility to enhance global reputation**

I2.1 Develop UTM's SDGs Awareness Index

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 6	SPA6-085	Conduct a baseline assessment of UTM's current level of SDGs awareness and engagement	Increase awareness on SDGs implementation by 10%	1 assessment course	Chancellery	UTMCS
	SPA6-086	Develop an SDGs Awareness Index include specific indicators and metrics related to each SDG indicator aligned with UTM HIRs		1 process (50%)		UTMCS
	SPA6-087	Design and implement targeted awareness campaigns and educational programs to increase awareness		1 awareness course		OSCA
	SPA6-088	Establish a monitoring and evaluation system to access performance and evaluate effectiveness towards continuous improvement		4 session (Q1, Q2, Q3, Q4)		UTMCS

SI 2: **Strengthening UTM brand and visibility to enhance global reputation**

I2.2 Promote high-impact content through new media platforms

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 6	SPA6-089	Define Objectives and Target Audience	Brand Awareness Index (SDG) - 80%	Media and Content Plan (SDG) 2024	Chancellery	OSCA
	SPA6-090	Develop a media content strategy				
	SPA6-091	Implement content calendar and track media publication and dissemination				
	SPA6-092	Internal Engagement and Amplification. Recognise and celebrate contributions		Digital Platform (Portal) for SGD promotion guidelines.		

SI 2: **Strengthening UTM brand and visibility to enhance global reputation**

I2.3 Improve reputation & impact ranking

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 6	SPA6-093	Conduct an assessment at macro and micro trend, conduct SWOT to identify areas for improvement and use tools for addressing the gaps and identify prioritization	Top 100 in THE Impact Ranking	Analytics on gaps and identification of prioritisation	Chancellery	UTMCS
	SPA6-094	Set goals and develop improvement strategy included actions and initiatives engaging various level stakeholders				UTMI
	SPA6-095	Secure support and funding through stakeholders engagement		RM500,000 (no baseline)		UTMI
	SPA6-096	Develop monitoring and evaluation system to track impact improvement plan and make data driven decision		Monitoring mechanism		UTMCS

SI 3: **Emphasizing on high impact quadruple helix CSR project**

I3.1 Establish a centralised database that encompasses both local and international industry linkages, incorporating Corporate Social Responsibility (CSR) and Universal Social Responsibility (USR) in accordance with the recognized standards of the Global CSR Index.

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 6	SPA6-097	Conduct a readiness assessment by define Goals and Objectives, assess the capacity, willingness and commitment	Established Comprehensive Online Database for Effective Monitoring Processes	2 session of readiness assessment Conducted (Q1 & Q3)	JTNCPI	CCIN
	SPA6-098	Create a Database of Government-Linked Companies (GLCs) in the Industry including areas of expertise, resources, and potential areas of collaboration		Database for "Industry Linkages Module" in (ICESYS) 2024 = 50%		
	SPA6-099	Identify and Prioritize High-Impact Quadruple Helix CSR Projects based on their potential impact, feasibility, and alignment with the CSR strategy		High-Impact Quadruple Helix CSR Projects Identified		

SI 3: **Emphasizing on high impact quadruple helix CSR project**

I3.1 Establish a centralised database that encompasses both local and international industry linkages, incorporating Corporate Social Responsibility (CSR) and Universal Social Responsibility (USR) in accordance with the recognized standards of the Global CSR Index.

SPA	Action code	Action	Key result	Target	Lead	Dept.
SPA 6	SPA6-100	Establish a system for reporting and reflecting on the monitoring and evaluation findings to track progress and impact of the projects, and provide feedback and support for continuous improvement	Established Comprehensive Online Database for Effective Monitoring Processes	A system to report, reflect on, and track project progress and impact, offering feedback for improvement established	JTNCPI	CCIN
	SPA6-101	To continue participating in the industries supply chain, in ensuring R&D to be integrated with industries and increasingly need to integrate environmental, social and governance (ESG) best practices into their business operations.		Establish a centralised database that encompasses both local and international industry linkages, incorporating Corporate Social Responsibility (CSR) and Universal Social Responsibility (USR) in accordance with the recognized standards of the Global CSR Index.		

Conclusion

In conclusion, the Action Plan 2024 - 2025 is not just a document; it is a commitment to a sustainable future that requires the active participation and dedication of every member of the UTM community. By working together, we can turn our aspirations into reality, creating a campus that not only educates but exemplifies the values of sustainability for generations to come.

By implementing targeted initiatives outlined in the Action Plan, we aim to minimize waste generation, enhance energy efficiency, and promote sustainable practices throughout the campus. We anticipate a positive impact on our ecological surroundings, with measurable progress towards carbon neutrality and increased biodiversity.

The successful execution of the Action Plan is also anticipated to enrich the learning experience for students. Integrating sustainability principles into the curriculum, research, and campus activities will not only equip students with the knowledge and skills needed for a sustainable future but also cultivate a deep sense of environmental responsibility.

We extend our heartfelt gratitude to all internal stakeholders who contributed to the development of the Action Plan 2024 - 2025. The commitment and expertise demonstrated by members of various departments, including academic, administrative, and facilities, have been instrumental in shaping a comprehensive and actionable plan. Their dedication to sustainability and collaborative spirit have laid the foundation for a roadmap that aligns with our values and aspirations.

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ACKNOWLEDGEMENT

LEAD CONTRIBUTORS

Thank you

Action Plan, 2024 – 2025
UTM Sustainability Blueprint 2030