UNIVERSITY OF MALAYA LIVING LABS

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What is UM Living Lab?

UM Living Lab Grant Programme (UM Living Lab) is a strategic partnership between the Deputy Vice-Chancellor (Research & Innovation) and Deputy Vice-Chancellor (Development). The philosophy behind the Living Lab idea is to convert university campuses to Living Labs which is a combined lab/household system, analysing existing product-service-systems as well as technical and socioeconomic influences focused on the social needs of people, aiming at the development of integrated technical and social innovations and simultaneously promoting the conditions of sustainable development (highest resource efficiency, highest user orientation, etc.).

Practically, UM Living Lab serves as a knowledge/action research-platform for JPPHB as the process owner (in waste management, water management and greening & biodiversity) to gradually improve the sustainability of their operations. In this approach, UM researchers will join hands with JPPHB staff and other relevant stakeholders in UM to systematically improve UM's performance in these areas, according to specific targets or Key Performance Indicators. This approach is more focused, systematic collaborative, and trans-disciplinary in nature.

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All things
Sustainability @ UM

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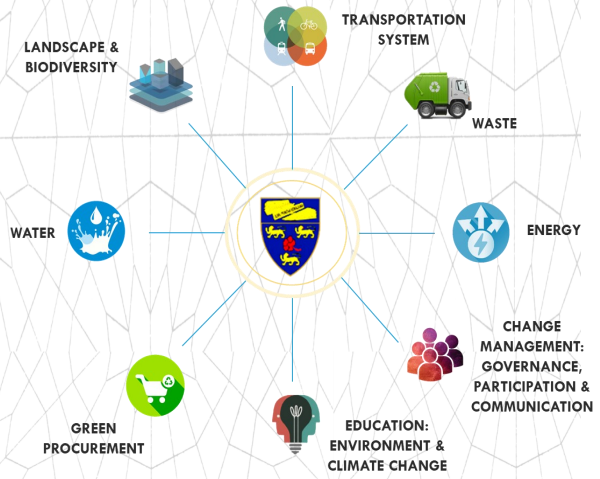

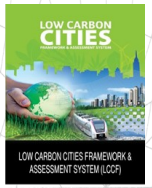

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NO	PROJECT TITLE	RESEARCHER
1.	UM Water Warriors: Integrated Water Management : UM as a Living Lab (Water Warriors)	AP Dr. Zeeda Fatimah Mohamad zeeda21@um.edu.my
2.	Zero Waste Campaign: Integrated and Sustainable Management Modul Development in University of Malaya Campus	Prof. Dr. Sumiani Yusoff sumiani@um.edu.my
3.	The RIMBA Project	AP Dr. Sarinder Kaur sarinder@um.edu.my
4.	Smart Modular Electrical Energy Monitoring and Management System	Dr. Mohd Yazed bin Ahmad myaz@um.edu.my
5.	Energy Conservation Culture in University of Malaya Campus	Dr. Adi Ainurzaman Jamaludin adiainurzaman@um.edu.my
6.	University of Malaya Ecological and Hydrological Data Warehouse Prototype System	Dr. Sorraya Malek sorayya@um.edu.my
7.	Sustainable Transport System in University of Malaya Campus: Study on Improve the Feeder Bus Service and Promote Non-motorised Transport Mode in Campus	Ir. Dr. Yuen Choon Wah yuencw@um.edu.my
8.	Safe Disposal of Unused Medications - Working towards a Green Pharmacy in the University of Malaya Medical Centre	Prof. Dr. Sim Si Mui debrasim@ummc.edu.my
9.	Transforming the Role of *Surau* APIUM for Campus Sustainability Through 'Imarah Green Project	Dr. Asmawati Muhamad asmawatimuhamad@um.edu.my
10.	Integrating Green into the University Malaya's Procurement Process: A Move Forward	Dr. Suhana Mohezar Ali suhanamohezar@um.edu.my
11.	Developing A Strategic Facility Planning Framework for Eco-Resilience Homes	Dr Azlan Shah Ali asafab@um.edu.my
12.	Design of Homes for Active Ageing	Dr. Muhammad Azzam Ismail ma.ismail@um.edu.my
13.	Developing A Strategic Framework and Guideline for Eco-Resilience Neighbourhood for Active Ageing	Dr. Nikmatul Adha Nordin nikmatul@um.edu.my
14.	Homes for Active Ageing: Market and Housing Aspect	AP Dr Noor Rosly Hanif nroslyhanif@um.edu.my
15.	Feasibility Study On Use Of Rainwater	AP Dr. Ghufran Redzwan ghufran@um.edu.my
16.	Smart Management of Electrical Appliances and Energy Saving using Internet of Things	Dr. Mohammad Hossein Anisi anisi@um.edu.my

NO	PROJECT TITLE	RESEARCHER
17	Smart Energy Utilization	Prof. Dr. Ir Nasrudin Abd Rahim nasrudin@um.edu.my
18	Building Energy Management System With Internet Of Things And Evolution Computing	Dr. Liew Chee Sun csliew@um.edu.my
19	Analysis On Human Behavior Pattern In An Office Building	Dr. Unaizah Hanum Obaidellah unaizah@um.edu.my
20	Smart-E (Smart Energy Monitoring & Opitimization for Pre-existing Campus Buildings)	Dr. Noor Azizi Mardi azizim@um.edu.my
21	Zero Carbon Building Assessment for UM Chancellory Building and Other UM Office Buildings	Dr. Ali Mohammed Alashwal alialashwal@um.edu.my
22	The UM Cancer Farm Project (A Lifestyle Lab)	AP Dr. Loh Siew Yim syloh@um.edu.my
23	The Design and Investigation of A Novel Ecological Air Cleaning and Cooling System Using the Concept of A Living Green Wall	AP Dr. Chong Wen Tong chong_wentong@um.edu.my
24	A Virtual Reality Application on Plants in University of Malaya	AP Dr. Sarinder Kaur sarinder@um.edu.my
25	Carbon Abatement Module for University of Malaya Eco-campus: Addressing Urban Heat Island and Climate Change Impact	Dr. Noor Suzaini Mohd Zaid suzaini_zaid@um.edu.my
26	Essence of Green Roofs/Walls: UM Campus as an Experimental and Computational Living Lab towards Enhancing the Outdoor Thermal Comfort Conditions	AP Dr. Norhaslina Hassan nhaslina@um.edu.my
27	Real-time and Automated Traffic Data Inventory and Monitoring System (TDIM)	Dr. Ahmad Saifizul Abdullah saifizul@um.edu.my
28	Working towards A Sustainable Means of Campus Transportation	Dr. Onn Chiu Chuen onnchiuchuen@um.edu.my
29	Construction Waste Recycling Center for Sustainable Drainage Construction	Dr. Yap Soon Poh spyap@um.edu.my
30	UM Zero Food Waste Campaign	AP Dr. Norbani Che Hanor banicheha@um.edu.my
31	Agro-hero: Promoting Green Practices to Communities for Sustainable Agriculture	Dr. Muhamad Shakirin Mispan shakirin@um.edu.my
32	Enhancing The Visibility of UM Regional Centre of Expertise (RCE) Central Semenanjung through Partnership with Bukit Fraser's Community and Authority	Prof. Dr. Norzulaani Khalid lani@um.edu.my

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NO	PROJECT TITLE	RESEARCHER
33	Smart Waste Management System Using Internet-of-Things	Dr. Ismail Ahmedy ismailahmedy@um.edu.my
34	Managing Kitchen Waste Using Black Soldier Fly (BSF): An Alternative Approach Towards Zero Waste in Campus	Dr. Muhamad Shakirin Mispan shakirin@um.edu.my
35	Healthy Soil for a Healthy Environment; Reducing Dependency on Chemical Fertilizer Consumption in University of Malaya Using Organic Materials	Dr. Rosazlin Abdullah rosazlin@um.edu.my
36	Carbon Storage Mapping Initiative Through Real Time GPS Tracking and IOT Monitoring	Dr. Khairunnisa Hasikin khairunnisa@um.edu.my
37	Evaluating Walkability Index of Campus Communities to Promote Sustainable Transportation in University of Malaya	AP Dr. Nasrin Agha Mohammadi nasrin@um.edu.my
38	Walking as a Green Transportation Mode in University of Malaya Campus	AP Dr. Rosilawati Zainol rosilawatizai@um.edu.my
39	Decentralization of Laboratory Exercise Via Remote Application : A state-of-the-art Approach Towards Efficient Educational Facility Resource And Energy Management in Academic Institutions	Dr. Mohd Nashrul Mohd Zubir nashrul@um.edu.my
40	The Faculty Sustainability Report Card: Documenting Faculty Sustainability Initiatives Towards UM Eco-Campus	Dr. Norizah Hassan norizah@um.edu.my
41	Embedding Shades of Green in UM's Reporting Practices	Dr. Zarina Zakaria zarinaz@um.edu.my
42	Water Monitoring via Internet of Things	Dr. Mohd Yamani Idna Idris yamani@um.edu.my
43	EcoSlope: Slope Eco- engineering Technique Towards Sustainable and Green Landscape	Professor Dr. Normaniza Osman normaniza@um.edu.my
44	Recycled Plastic Aggregate as Replacement For Conventional Aggregates in Concrete	AP Dr. Ubagaram Johnson Alengaram johnson@um.edu.my
45	UM Living Lab Administration	Prof. Dr. Sumiani Yusoff sumiani@um.edu.my