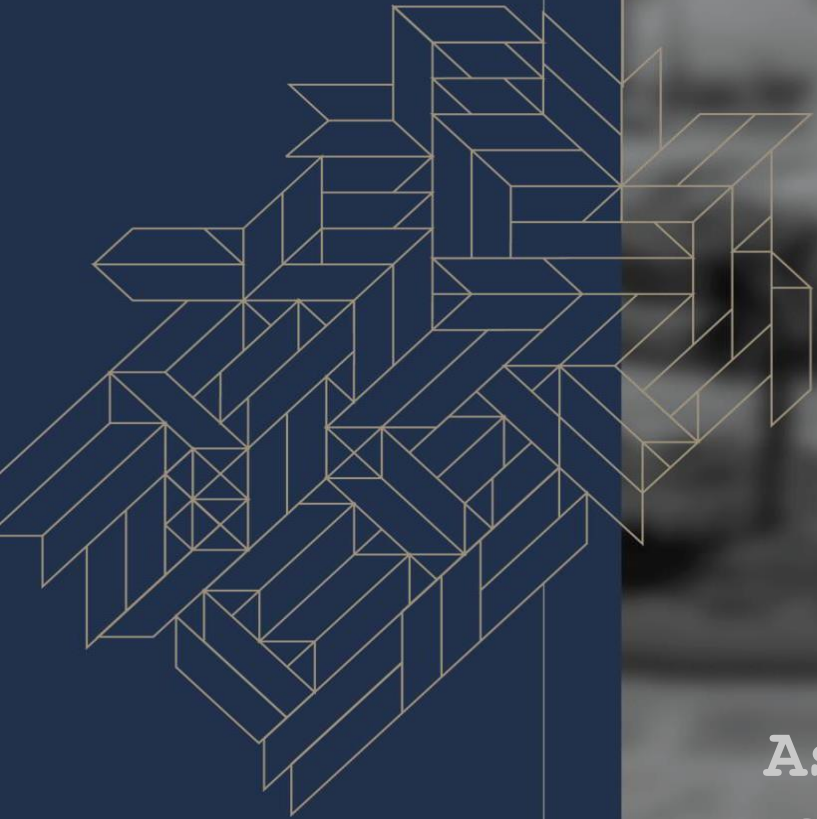




جامعة الإمام عبد الرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY



SDG 7.4.5

Assistance to Low-
Carbon Innovation

2022-2023

Table of Contents

1. Smart Mobility Service launched by IAU.....	3
2. Green University without Carbon Initiative or Afforestation Initiative led by IAU.....	4
3. Zero Emission Vehicles (ZEV) Policy on Campus to promote Carbon Free Campus.....	5
4. Carbon Reduction Initiatives by IAU.....	9
4. Program to Limit carbon reduction.....	13
5. Pedestrian paths (To control/limit commuting inside campus in vehicles to reduce carbon emissions).....	15

1. Smart Mobility Service launched by IAU

The given webpage link (refer to 1st and 2nd paragraph) shows that the president of IAU inaugurated the pilot phase of the **smart mobility service for generating clean energy inside the university campus by bicycles and electric scooters through (WAYZ) application** on Al-Rakah campus. This initiative aims to achieve the Kingdom's Vision 2030 towards a **greener society and reduce pollution and harmful emissions by relying on sustainable means of transportation using clean energy**, for it has positive health aspects reflected in community members. It is a service available to all university employees, students, and visitors.



<https://www.iau.edu.sa/en/news/iau-launching-smart-mobility-service>

2. Green University without Carbon Initiative or Afforestation Initiative led by IAU

The given webpage link (refer 1st paragraph) describes an afforestation initiative (Green University without Carbon initiative) led by IAU. It aims to plant thousands of seedlings and trees with the participation of IAU employees and students in campaigns for mass afforestation in the university campuses, to reduce carbon emissions, and to consolidate the concept of sustainability inside campuses at the level of the local community.

(Green University without Carbon) Under the Slogan "Towards a Sustainable Environment"

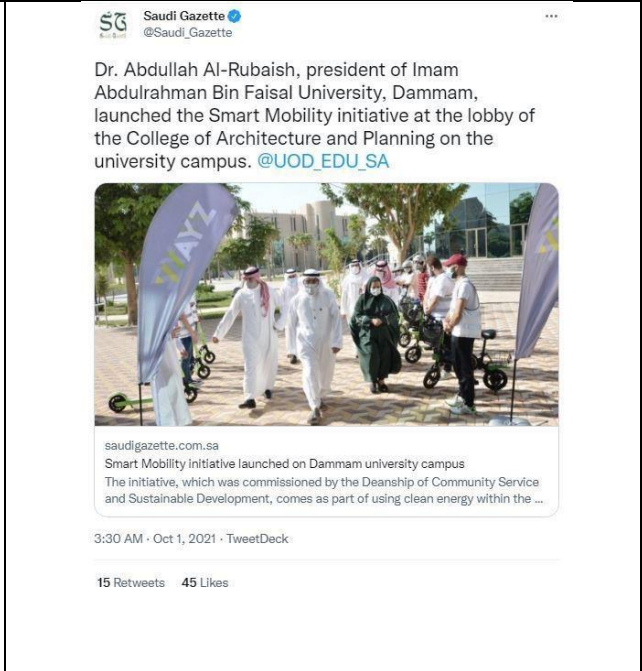


<https://www.iau.edu.sa/en/news/afforestation-initiative-led-by-iau>

3. Zero Emission Vehicles (ZEV) Policy on Campus to promote Carbon Free Campus



Club Car (E-cart) available for Commutation inside IAU

Saudi Gazette @Saudi_Gazette

Dr. Abdullah Al-Rubaish, president of Imam Abdulrahman Bin Faisal University, Dammam, launched the Smart Mobility initiative at the lobby of the College of Architecture and Planning on the university campus. @UOD_EDU_SA

saudi gazette.com.sa

Smart Mobility Initiative launched on Dammam university campus

The initiative, which was commissioned by the Deanship of Community Service and Sustainable Development, comes as part of using clean energy within the ...

3:30 AM · Oct 1, 2021 · TweetDeck

15 Retweets 45 Likes

E-Scooter Initiative at IAU



E-Scooters for faculty, students and staff



SHUTTLE OPTION 1

Motors: 2 x 2000W DC Motor (12V)
Battery: 12V 100Ah
Passenger Capacity: 15
Speed: 40km/h
Range: 100km
Charging Time: 8-10 hours
Load Capacity: 200kg
Weight: 2200kg
Dimensions: 3.0m x 1.6m x 1.8m
Color: White
Material: Aluminum Alloy
Type: Electric
Production: China
Warranty: 1 Year
Certification: CE, ISO9001, ISO14001

MotoEV Electro Transit Buddy 15 Passenger LE Hard Door Shuttle

SHUTTLE OPTION 2

Marsheel DN-14C Series 14-Seater Enclosed Electric Resort Car

Features

- 1. Environmentally friendly and low-carbon.
- 2. Low energy consumption and low noise.
- 3. Low maintenance and low operating costs.
- 4. High safety performance.
- 5. Low operating costs.
- 6. Low operating costs.
- 7. Low operating costs.

Performance	Electrical	Mechanical
Motor: 2 x 2000W DC Motor (12V)	Power: 2000W (12V)	Speed: 40km/h
Range: 100km	Charge Time: 8-10 hours	Weight: 2200kg
Passenger Capacity: 15	Load Capacity: 200kg	Dimensions: 3.0m x 1.6m x 1.8m
Charging Time: 8-10 hours	Material: Aluminum Alloy	Color: White
Production: China		

Average price: 22,995\$

2- Electric and affordable shuttle buses

Description:**1. E-Scooter Initiative for Staff & Students in IAU**

Dr. Abdullah Al-Rubaish, president of Imam Abdulrahman Bin Faisal University, Dammam, launched the Smart Mobility initiative as a part of the Zero Emission Vehicles (ZEV) Policy on the IAU Campus.

The initiative, which was commissioned by the Deanship of Community Service and Sustainable Development, comes as part of using clean energy within the university campus and making available its health benefits to the members of the campus community.

Dr. Al-Rubaish said that the university launched the pilot phase of the smart mobility service to achieve the Kingdom's Vision 2030 towards providing new opportunities for transportation. "This initiative is achieved through generating clean energy within the university campus by bicycles and e-scooters with the WAYZ application, which will facilitate for its users the rapid mobility feature at the university through an electronic mobile application," he added. This novel experiment is based on using clean energy for mobility inside the university campus.

IAU launched the initiative of 'Green University without Carbon,' under which these scooters, which are charged and operated with solar energy, will be used. It is a service available to all educational and administrative staffers of the university and to male and female students.

Dr. Fatima, Dean of the Deanship of Community Service and Sustainable Development, mentioned that the goal is to be sustainable through the presence of solar-powered stations. It is the beginning of an experimental start, and work is continuing to equip stations to charge these devices powered by solar energy.

This initiative will facilitate their freedom of movement without cars, and the initiative received much encouragement

Moreover, demand," she said while noting that safe corridors have been provided inside the university campus.

This is one of our priorities to ensure the safety of the beneficiaries of this service, and it will be included in the first stage inside the university campus until the infrastructure and private roads are provided at the university for this type of initiative that is reflected in reducing the proportion of carbon.

2. Electric and affordable shuttle buses & Bike services

A broad network of bus and shuttle bus services will be provided to help IAU faculty and students travel within the campus and between campuses in a convenient, fast, and stress-free way. The IAU buses and shuttles enable everyone to park either on the university campus or

select one of the specified locations closer to their residential neighborhoods and then use university transportation throughout their day.



IAU SHUTTLE



IAU BIKE



IAU SHUTTLE

4. Carbon Reduction Initiatives by IAU

The given PDF link describes IAU's Green University initiatives without Carbon dioxide CO2





An initiative IAU GREEN without CO2, inaugurated by H.E. the President of IAU



E-Scooter initiative in IAU, in an effort to reduce Greenhouse gas emission



جامعة الإمام عبد الرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY



E-Scooters on rent for Staff & students, an initiative by IAU, to reduce Greenhouse gas emission



SMART TRANSPORTATION INSIDE IAU Campus

Tweet
عمادة خدمة المجتمع والتنمية المستدامة @IAU_Campus
To the university members, before starting your WAYZ ride please read the riding rules and instructions, and to know how to use e-bicycles and the e-scooter in 4 steps to start the journey.
#عمادة_خدمة_المجتمع_والتنمية_المستدامة
#جامعة_الإمام_عبدالرحمن_بن_فaisal

Steps to ways
خطوات سيطرة الرحلة

- 01 Download the app
تحميل التطبيق
- 02 Scan QR Code
مسح الرمز المربع
- 03 Open the app
افتح التطبيق
- 04 Unlock & go
الفتح والسير

How to end ride
كيف تنتهي الرحلة

Take a picture for your E-bike/E-scooter
خذ صورة للمركبة بعد التوقف

Park at ways parking zones
امكن الوقوف المخصصة

Need support
تحتاج لمساعدة
Look for ways support team
توجهوا لفريق الدعم

RIDING RULES
ارشادات الركوب

- End ride at Ways parking zones
انتهى الرحلة في أماكن الوقوف المخصصة
- One rider per vehicle
راكب واحد لكل دراجة/مoped/السيارة الكهربائية
- Don't use your mobile while riding
لا تستخدم الهاتف أثناء الرحلة
- Check the breaks before riding
تحقق من المكابح قبل الرحلة
- Be mindful of road obstructions
انتبه من عوائق الطريق
- Do not ride on the sidewalks
لا تتركب على الأرصفة
- You are 16 years and older
عمرنا 16 سنة و ما فوق
- A helmet is required
يجب ارتداء الخوذة دائما

How to end ride
كيف تنتهي الرحلة

Take a picture for your E-bike/E-scooter
خذ صورة للمركبة بعد التوقف

Park at ways parking zones
انتهى الرحلة في أماكن الوقوف المخصصة

Need support
تحتاج لمساعدة
Look for ways support team
توجهوا لفريق الدعم



WAYS Solutions
are now activated
خدمات ووسائل الآن مفعلة
وممتدة لجميع الطلاب

تتشرف جامعة الإمام عبد الرحمن بن فيصل ممثلة بمهارة خدمة المجتمع والتنمية المستدامة بإطلاق المرحلة التجريبية لخدمة التنقل الذكي من خلال توليد الطاقة النظيفة داخل الحرم الجامعي بواسطة الدراجات والسكوتر الإلكتروني من خلال تطبيق WAYS

WEAR A HELMET!
ارتد خوذةك!

حمل التطبيق الآن
Download on the App Store
Available on the Google Play

جامعة الإمام عبد الرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY
مكة المكرمة - الرياض - جدة - القصيم - الأحساء - الباحة - المجمعة - الدرعية - الرياض - جدة - مكة المكرمة

WAYS

WAYS App launched to monitor and guide the E-Scooter riders

https://www.iau.edu.sa/sites/default/files/resources/carbon_reduction_2022.pdf

4. Program to Limit carbon reduction

There are an ample number of programs that the university has proposed and adopted to limit or reduce the parking area on Campus. IAU is in a position to reduce dependency on cars on Campus. The university has to provide an easy, green, and accessible pedestrian system along with E-scooters or E-Bikes and a green transport system, including carpool and taxi booking via the university website.

1. Shuttle/bus campus inside campus

To reduce the number of private vehicles and their movement on the campus, IAU has launched various shuttle services for the students and staff. It has its fleet of buses besides contracts with other transport companies. Also, it has about 419 cars for its staff to move around its six campuses.

The university has 21, 30-seater shuttles with a carrying capacity of 630 passengers. It has contracted with Abu Aiban transportation company, which provides various buses transporting the students and staff from inside and outside the IAU campus. Abu Aiban runs about 133 buses.

There is no bus service served by the local buses to the university. The university shuttle services run from 6 AM to 6 PM g at various stops in the university.

Thus, it is an initiative to reduce the use of cars to save energy and fuel.

2. E-Scooter also launched to reduce the parking area in the campus

The Deanship of Community Service and Sustainable Development commissioned this initiative, which is formed as a part of utilizing clean energy within the university campus and making available its health benefits to the members of the campus community, including reducing the parking space.

It is the pilot phase of the smart mobility service to achieve the Kingdom's Vision 2030 towards providing new opportunities for transportation. "This initiative is executed through generating clean energy within the university campus by bicycles and e-scooters with the WAYZ application, which will facilitate for its users the rapid mobility feature at the university through an electronic

mobile application.” The Novel experiment is based on using clean energy for mobility inside the university campus.

IAU launched the initiative of ‘Green University without Carbon,’ under which these scooters, which are charged and operated with solar energy, will be used. It is a service available to all educational and administrative staffers of the university and to male and female students.

This initiative will facilitate their freedom of movement without cars, and the initiative received much encouragement.

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It is one of our priorities to ensure the safety of the beneficiaries of this service, and it will be included in the first stage inside the university campus until the infrastructure and private roads are provided at the university for this type of initiative that is reflected in reducing the proportion of carbon.

- <https://www.youtube.com/watch?v=eBmbc577Cv4>
- https://twitter.com/UOD_EDU_SA/status/1443889138315431936/photo/1
- <https://saudigazette.com.sa/article/611596>

5. Pedestrian paths (To control/limit commuting inside campus in vehicles to reduce carbon emissions)



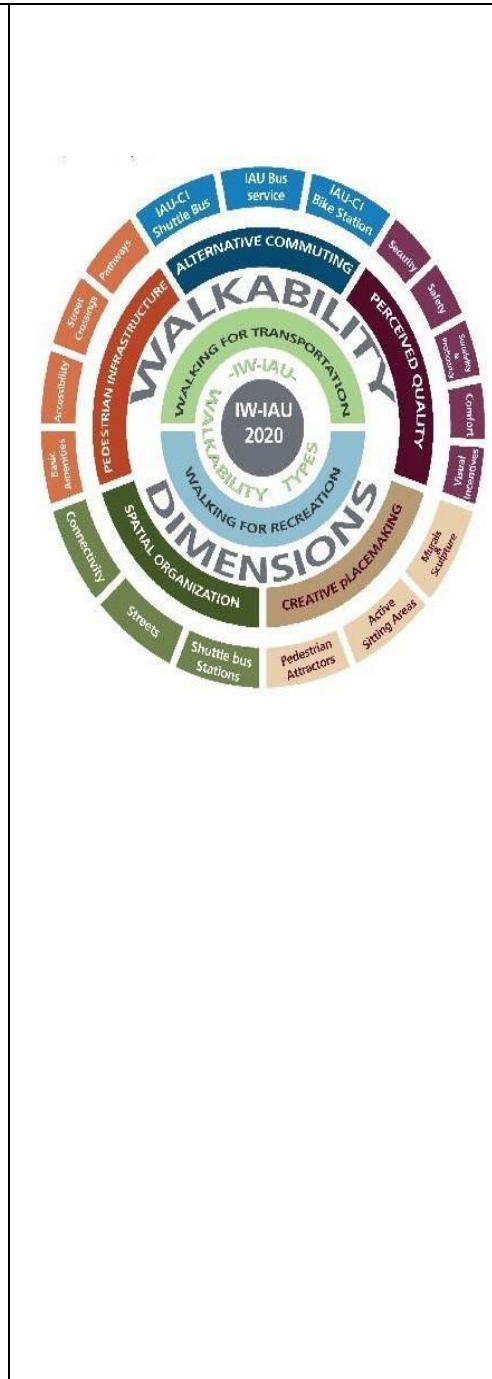
1- Pedestrian path



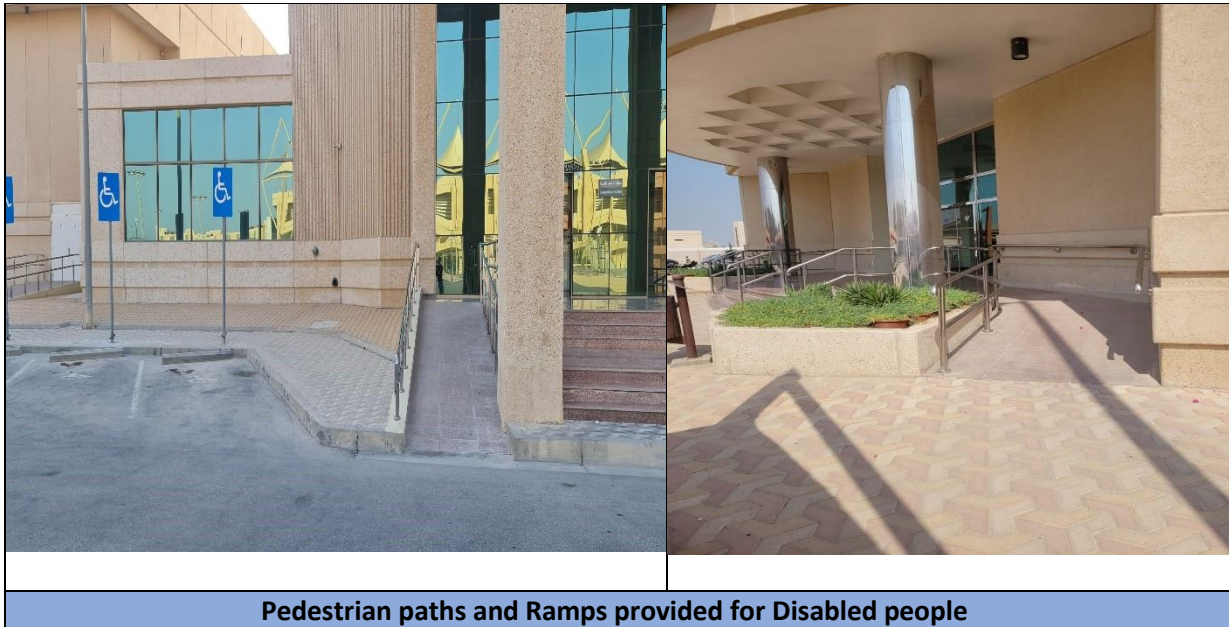
2- Solar Street lamp for pedestrian in night



3- Inclusive Walkability System



4- SUSTAINABLE & WALKABLE CAMPUSES DIMENSIONS



Pedestrian paths and Ramps provided for Disabled people

Description:

1. **Zebra crossing** is painted clearly for vehicles to watch before crossing, separator is made between road for vehicle and pedestrian path. Ramps and guiding blocks which have suitable design for pedestrian having physical disabilities.
2. Street lamp for **pedestrian in night**. Mostly, streetlamps use solar streetlights.

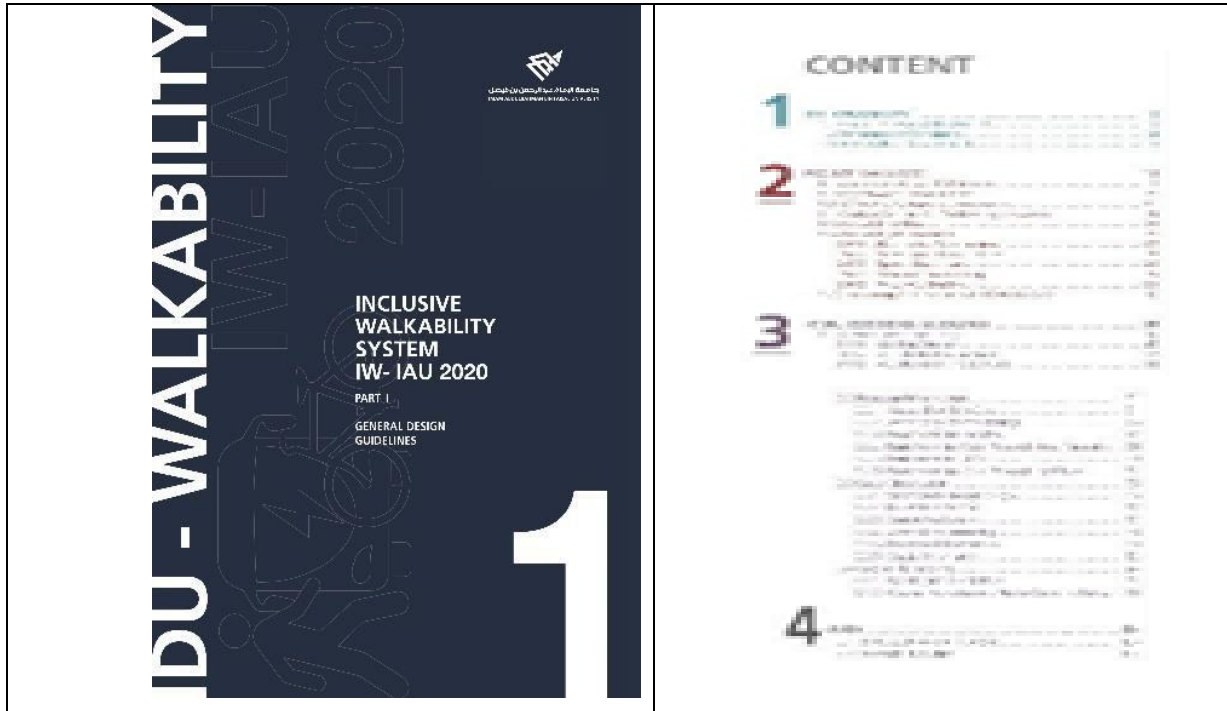
3. **Sustainable and Walkable Campuses**

4. The Inclusive Walkability (IW) System of the IAU University- IW-IAU 2020
 The Inclusive Walkability System of the IAU university- IW-IAU 2020 is designed by the Inclusive Design Unit-Walkability Branch. It aims to transform university campus settings into an enabler, safer, more convenient, and enjoyable environment for walking, cycling, and other outdoor activities. The proposal thus aims to determine pedestrian environment determinants associated with active and leisure transportation and, therefore, to direct the existing assets to improve walking and cycling and integrate them into an inclusive system for walkability adapted to the Imam Abdurrahman Bin Faisal University.

The IW-IAU 2020 project aims to achieve the Saudi 2030 Vision of transforming the IAU community into a vibrant society with a fulfilling life. Four principles were taken into consideration and interpreted via the IAU walkability dimensions and practices: Living healthy,

being healthy; Developing our cities; Achieving environmental sustainability, Promoting culture and entertainment.

The fully detailed project was approved and published in 2018. Since then, many of its components are currently implemented either entirely or as pilot projects.



Once the project's dimensions and features are fully implemented, the university campuses' settings and services will be transferred into a living laboratory for experiential learning, demonstrating progressive applied Studies in universal and sustainable operations within a lively and engaged community. The project is part of the IDU strategic schemes to enable the IAU to become a regional and global leader in inclusive and sustainable design interventions for other universities and organizations in the kingdom and the region to follow.

Objectives:

1. Decreasing congestion on roads to university campuses and within campuses.
2. Allowing public transport system for long-distance trips;
3. Inciting walking (the activity) and cycling as the preferred choice for shorter trips.



4. Improving walkability on campuses, i.e., the quality of walking conditions, including safety, comfort, and convenience.
5. Empowering career and life perspectives for students and new graduates.
6. Creating a greener urban environment.

4. SUSTAINABLE AND WALKABLE CAMPUSES DIMENSIONS:

The IW-IAU strategy provides five walkability dimensions that are claimed to affect the university's level of mobility positively:

- | | | |
|-------------------------------------|--------------------------------|-----------------------------|
| (1) Alternative Green
Commuting, | (2) Pedestrian Infrastructure, | (5) Perceived
Qualities. |
| (3) Spatial Organization, | (4) Creative Placemaking, and | |
- 5. Pedestrian Pathways**

As it is depicted in the maps of East & West Campuses the pedestrian pathways are marked with dull peach color.

7. IAU BUS SERVICE (To reduce private vehicle's carbon emissions)

The IAU provides **nine lines of the bus to all its employees and students**. These buses connect IAU's six campuses and three major gathering points. Once they arrive at the bus terminal on each campus, students and employees can ride the shuttle bus to their destinations. The service will be free of cost with a valid ID card issued by IAU



8. IAU-C1 SHUTTLE BUS SERVICE – Electric Busses

The university will offer all its students, faculty, and staff access to IAU• C 1's Shuttle Bus that serves the campus with its four sub-sections (East Campus, West Campus, Northern Colleges, and Residential Campus). This service is also free of charge. They **can access the shuttle bus at the closest** shuttle bus station. Service timings will be provided at the IAU site and in each Shuttle Bus station. The service will be free of charge with a valid IAU ID card.

SHUTTLE OPTION 1

**MotoEV Electro
Transit Buddy 15
Passenger LE Hard
Door Shuttle**



1. 

SHUTTLE OPTION 2



**DN-14C Series
14-Seater Enclosed
Electric Resort Car**

2. 

**Average price:
22.995\$**

Suggested Electric and affordable shuttle buses

9. IAU-C1 BIKING SERVICE – Electric Bikes

The IAU will provide a bike-sharing system in which a bike station will be located in C1-Rakkah, and C2-Rayan Campuses and smart bicycles will be provided for the IAU users on a short-term basis. These services by IAU will be free of cost with a valid IAU ID card.

CLUB CAR (E-CART) AT IAU

The IAU provides E-cart service (Club car) to its employees and students so that they can move within the campuses. Such carts aid IAU to save energy and protect the environment. They also help IAU to achieve Zero emissions and Zero pollution. Further, this kind of service saves energy costs, has no noise, and a low failure rate.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file)

- <https://www.youtube.com/watch?v=eBmbc577Cv4>
- https://twitter.com/UOD_EDU_SA/status/1443889138315431936/photo/1
- <https://saudigazette.com.sa/article/611596>

