

11.4.1 Sustainable Practices Targets

2023–2024

Measure and set targets for more sustainable commuting (walking, cycling or other non-motorized transport, vanpools, carpools, shuttlebus or public transportation, motorcycle, scooter or moped, or electric vehicles).

AASTMT plays a pivotal role in promoting sustainable urban practices through student innovation, workshops, and community engagement. The Academy emphasizes practical solutions for water management, waste reduction, energy efficiency, and smart city integration, helping to create resilient urban ecosystems while fostering environmental awareness among students and staff.

Fostering Urban Sustainability Through Innovation and Education

1. **Urban Water and Waste Projects:** Enactus AAST Sheraton team implemented “Rose Carbon” and “Aquatica” projects to remove pollutants, recycle water, and reuse materials, contributing to clean water systems, solid waste reduction, and healthier urban environments.



[Urban Water and Waste Projects](#) on AASTMT webpage

2. **Urban Waste and Sanitation Projects:** AASTMT hosted workshops with Egypt’s Minister of Local Development to upgrade municipal solid waste management, stormwater, and sewage networks. The initiative also introduced an internationally standard sanitary landfill, enhancing public health, improving road networks, and promoting smarter, more resilient urban environments.



[Urban Waste and Sanitation Projects](#) on AASTMT webpage

3. **Student-Led Urban Innovation:** The 2023 AASTMT Student Design Competition, “Act Responsible ... Design Sustainable,” engaged students in developing resilient and sustainable urban solutions. Projects addressed urban planning, road networks, public transport, solid waste management, and traffic congestion reduction while considering natural disaster risks, flooding, and cultural heritage protection. Initiatives integrated concepts of smart cities, public spaces, and sustainable housing, fostering innovative urban development.

2023 Student Design Competition "Act Responsible ... Design Sustainable"

This competition is to spread the knowledge of SDG11 among AASTMT students.

Introducing SDG11

SDG11: Make cities and human settlements inclusive, safe, resilient, and sustainable.



According to the UN-Habitat, this goal could be achieved through the following targets:

- 11.1 By 2030, ensure access for all to adequate, safe, and affordable housing and basic services and upgrade slums.
- 11.2 By 2030, provide access to safe, affordable, accessible, and sustainable transport systems for all, improving road safety, notably by expanding public transport, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons.
- 11.3 By 2030, enhance inclusive and sustainable urbanization and capacity for participatory, integrated and sustainable human settlement planning and management in all countries
- 11.4 Strengthen efforts to protect and safeguard the world's cultural and natural heritage
- 11.5 By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global gross domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations.

[Student-Led Urban Innovation](#) on AASTMT webpage

4. **Participation in Global Climate Action:** AASTMT participated in the United Nations Climate Change Conference (COP), contributing to international discussions on sustainability, climate resilience, and green urban development. Through active involvement in technical sessions and collaborative initiatives, AASTMT supported global efforts to advance environmentally responsible cities and long-term sustainable practices.



Participation in Global Climate Action on AASTMT webpage

5. **Showcasing Smart Transport Innovations:** AASTMT participated in TransMEA 2024, presenting cutting-edge technologies in smart transport, digital transformation, and maritime logistics. The exhibition highlighted innovative solutions for sustainable mobility, enhanced urban transport systems, and promoted knowledge exchange, reflecting the Academy's commitment to advancing environmentally conscious and smart urban development.



Showcasing Smart Transport Innovations on facebook

6. Promoting Active and Sustainable Campus Mobility: AASTMT organized multiple student activities that encourage healthy, low-carbon mobility habits and support sustainable commuting:

- **Pedaling Towards Fun: AASTMT Students Embrace Active Campus Life**
Arab Academy of Sciences and Technology students enjoyable time riding bicycles and more fun activities.



[Pedaling Towards Fun: AASTMT Students Embrace Active Campus Life](#) on facebook

- **Triumphing Through Teamwork: AASTMT's Student Affairs Department Hosts Thrilling Triathlon Challenge**

A part of the triathlon championship activities organized by the Student Affairs Department, Sports Activities for AASTMT students.



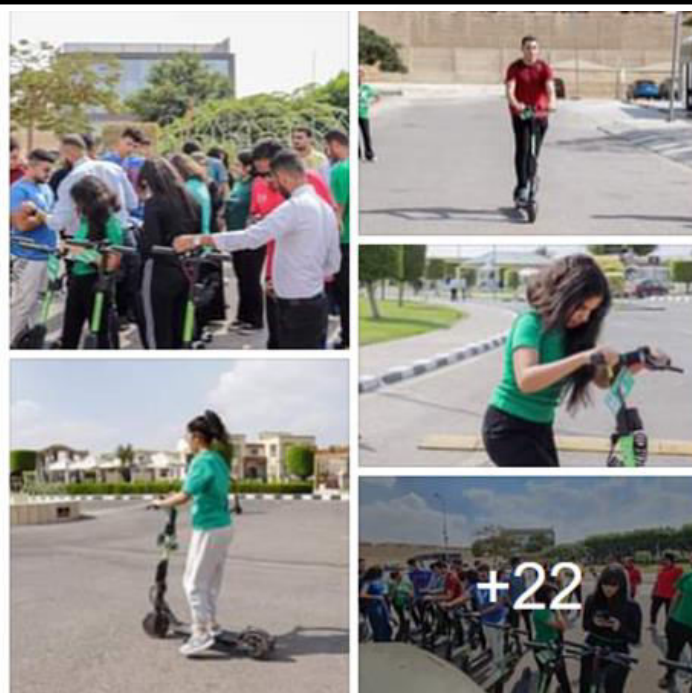
[Triumphing Through Teamwork: AASTMT's Student Affairs Department Hosts Thrilling Triathlon Challenge on facebook](#)

- Aquatic Adventures: AASTMT Students Make a Splash at the Festival of Rowing and Water Sports**
 Other students from the Arab Academy of Science and Technology enjoy their time at the Festival of Rowing and Water Sport.



[Aquatic Adventures: AASTMT Students Make a Splash at the Festival of Rowing and Water Sports on facebook](#)

- **Scootin' Through Campus: AASTMT's Electric Scooter Adventure**
Arab Academy of Sciences and Technology students enjoyable time riding electric scooters and more fun activities.



[Scootin' Through Campus: AASTMT's Electric Scooter Adventure](#) on facebook

Advancing Urban Health and Resilient Campus Infrastructure

Campus Health Infrastructure – AASTMT inaugurated new medical facilities at its Al Alamein campus, including specialized clinics, hospital rooms, an isolation unit, a mobile radiology department, and a modern dental hospital with AI-based imaging. These developments enhance public health, improve the urban environment, support resilient and safe urban spaces, and contribute to smart campus infrastructure aligned with sustainable urban development.



[Campus Health Infrastructure](#) on AASTMT webpage

Strengthening Urban Sustainability Through Education, Policy Engagement, and Community Action

1. **Scholarships for Future Urban Leaders** – AASTMT awarded scholarships to top Thanaweya Amma students across its campuses, including Al Alamein, promoting access to quality education and supporting the development of a skilled generation. This initiative empowers youth to contribute to urban development, improve public spaces, and foster smarter, resilient, and sustainable urban environments.



[Scholarships for Future Urban Leaders](#) on AASTMT webpage

2. **Water and Sanitation Infrastructure Development** – AASTMT's Productivity & Quality Institute participated in the national conference on sustainable water and sanitation services, addressing pollution reduction, service quality improvement, and infrastructure upgrades with modern technologies. The initiative supports sustainable urban practices, enhances municipal services, and contributes to resilient, healthier urban environments.



[Water and Sanitation Infrastructure Development](#) on AASTMT webpage

3. **Green Smart Building Initiatives** – AASTMT participated in the international Green Smart Sustainable Building Conference, emphasizing energy-efficient construction, modern urban infrastructure, and sustainable city development. The event promotes smart buildings, urban planning, and resilient, environmentally conscious urban environments.



[Green Smart Building Initiatives](#) on AASTMT webpage

4. **Sustainable School Practices** – AASTMT launched an SDG initiative in seven Alexandria schools to promote sustainable urban development, efficient water and energy use, and protection of cities, public spaces, and communities from natural disasters such as flooding and urban heat islands. The program empowered teachers and students to apply waste management, pollution reduction, and urban resilience strategies, fostering collaboration, sustainable planning, and smarter, safer urban environments.



[Sustainable School Practices](#) on AASTMT webpage

5. **Sustainable Practices for Urban Resilience** - AASTMT, in collaboration with RENEW-MENA and the World Bank, hosted an event promoting sustainable urban practices, energy transition, and climate action. The sessions engaged STEM students in renewable energy, electric mobility, and urban resilience, emphasizing smart cities, public spaces, pollution reduction, and climate-conscious communities. The initiative fostered innovation, skills for climate resilience, and awareness of sustainable urban development.



[Sustainable Practices for Urban Resilience](#) on AASTMT webpage