

Activities & Results of TouMaLi Project in Egypt

Arab Academy for Science, Technology and Maritime Transport (AASTMT)

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Main Objectives & Activities

- **Main Objective:** Reducing the marine littering from tourism sector by 60% in the Mediterranean region
- **The expected outcome/Impact:** Complete solution/model to establish opportunities for new industry, business and jobs creation based on waste from coastal tourism sector.
- The project is applied in 3 south Mediterranean countries, Morocco, Tunisia, and Egypt.
- The project activities will be applied by local partner (**AASTMT in Egypt**) with local stakeholders, including the Ministries of Environment, Tourism, local development in addition to Hotels, Associations, NGOs, local communities.
- AASTMT as the local partner in Egypt is considered the focal point of the project to establish a communication channel to involve all the local stakeholders in the project activities satisfying the project objectives and goals.

Work Packages Overview

WP I : Coordination, national networks, pilot areas & background data analysis

- Establishment of national networks in each partner country
- Pilot site selection
- Data collection

WP II : Concepts for waste & marine litter reduction and mitigation

- Financial , technical & policy concept
- Institutional framework
- Industry & stakeholder engagement

WP III : Development of EPR concept for the benefit of tourism sector at national level

- Definition of challenges and stakeholders
- Design of an EPR-setup
- Workshops for stakeholders & cooperating partners

WP V: Implementation of local waste reduction solutions

- Separation at source
- Technical solutions to avoid littering & landfilling
- Trainings on waste reduction
- Local measures and efficient upcycling

WP IV: Monitoring, quantification & tools

- Monitoring concept
- Beach and underwater pollution assessment
- Emission source identification
- Spatial pollution analysis

WP VI: Dissemination, awareness raising & capacity building

WP I: Coordination, networks, pilot areas and background data analysis

Kick-off physical meeting – Setup the national Network

- The local partners participated in the Kick-off meeting as presenters are
 - Ministry of environment,
 - Egyptian Environmental Affairs Agency (EEAA),
 - Local regional office of EEAA in Alexandria,
 - Local authority for Alexandria governrate (beach mangement sector),
 - Ministry of Tourism – Alexandria office,
 - Ministry of Local developement,
 - Minstry of industry (Plastic Technology Center),
 - NGOs.



The attendance included members from the Egyptian parliament and senates, academic institutions, education institutions, companies local communities and NGOs.

WP I: Coordination, networks, pilot areas and background data analysis

- **Evaluation and identification of pilot areas**

Alexandria is selected to be the pilot area (the **most populated city on the Mediterranean** (about 6 Millions) with high rate of **local and international tourism activities**).

- **The network has been established and the steering committee for TouMaLi-Egypt includes all the stakeholders and partners:**

- **Dr Ali Abo-Sena (Head of Egyptian Environmental Affairs Agency (EEAA), Ministry of Environment),**
- **Dr Sameh Reyad (Head of (EEAA), Alex. and west Delta Branch, Ministry of Environment**
- **Mr. Abdulwahab (Ministry of Tourism, Alex. Branch),**
- **Dr Mohamed Abdel-Razak (Alexandria Governorate, Beach management),**
- **Mrs. Hanan Wefky from (Hotels Association),**
- **Mr. Ahmed Tawfik (Nahdet Misr Company for waste management in Alexandria),**
- **Dr Tarek El-Araby (CEO, WMRA, Ministry of Environment)**
- **Prof. Alaa Abdel-Bary (Local Team Leader, TouMaLi)**
- **Dr Gasser E. Hassan (Local Project Manger, TouMaLi)**

WP III: Development of EPR concept for the benefit of tourism sector at national level

- **Conduction of workshops** for all the stakeholders and cooperation partners to present the **Extended Producer Responsibility (EPR) concept** and adjustment needed including for pilot design
- Three workshops have been organized with WMRA to discuss the EPR concept and the challenges regarding the EPR implementation.
- TouMaLi team developed a draft PRO business plan for WMRA to be applied for the single use plastic bags which is the first step in EPR implementation.
- Two EPR models are proposed by TouMaLi team to be applied in case of implementation of the EPR concept or if it is not active.

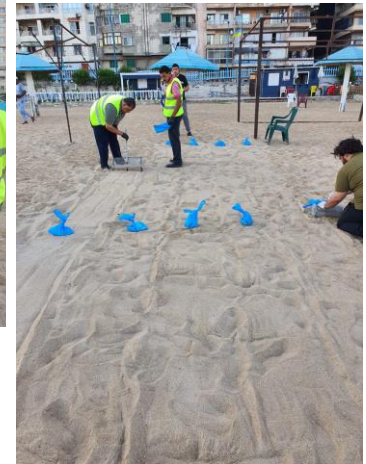
WP IV: Monitoring, quantification and tools

Three beach monitoring campaigns are implemented March 2022, June 2023, Sep 2023

The beach campaigns cover 6 beaches in Alexandria and 2 in Maras Matrooh.

During the high season, (June 2023) The manual cleaning activities are done continuously during the day with 2 main cleaning actions every 12 hours at the morning time and the sunset time.

The campaigns are conducted early in the morning before the morning cleaning activity.



Conducted Beach monitoring Campaigns

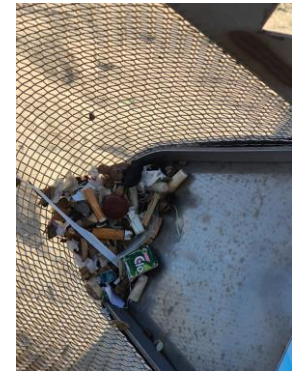
The primary results show that:

As expected for high season with continuous cleaning activities, all the beaches are low polluted except one public beach which can be classified as a moderate polluted beach.

The sand rack method is used in all the low polluted beaches since there is no waste with large size.

Cigarette butts are the most commonly waste found in the sand rack method analysis.

In general, the primary analysis for the high season shows a values less than 30% - 20 % of the values recorded during the off season (March period – 6 months without cleaning).



WP V: Implementation of local waste reduction solutions

Company Establishment:

A formal meeting has been held between AASTMT and Nahdet Misr for final agreement for the company shares and all the required documents and details for company establishment.

We get the agreement about all the details and now each partner prepared the required paper work for the company establishment submitting the documents to the lawyer to start the registration process.



WP V: Implementation of local waste reduction solutions

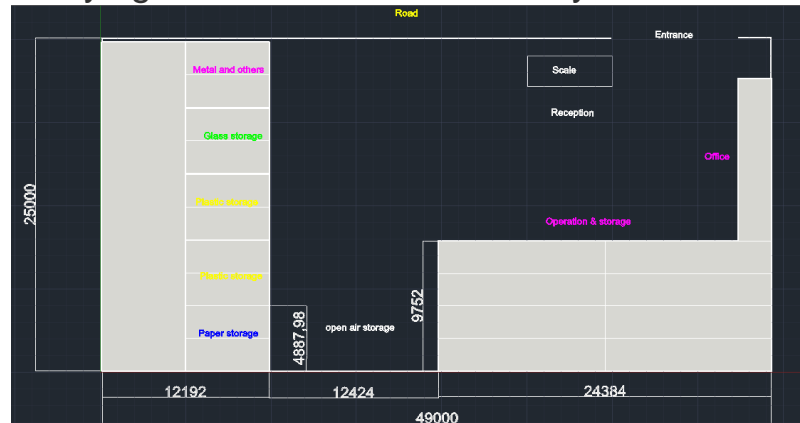
TouMaLi Sorting Center-Alexandria

As agreed before the centre will be constructed using shipping containers as required by Nahdet Misr Co.

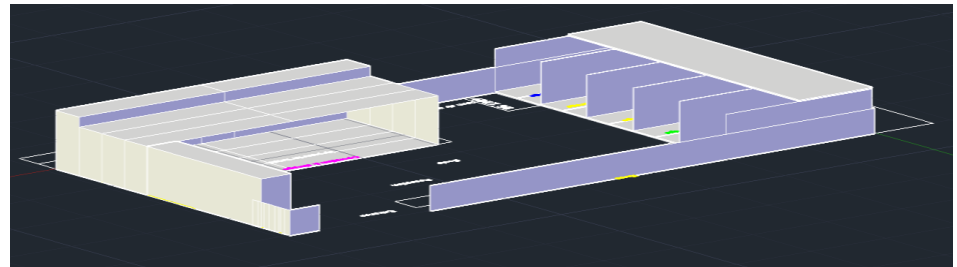
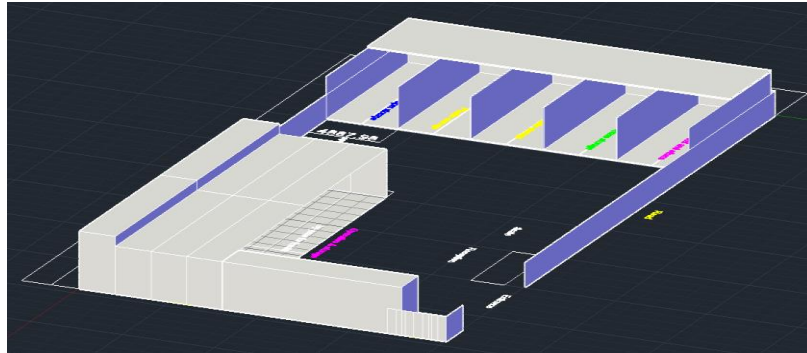
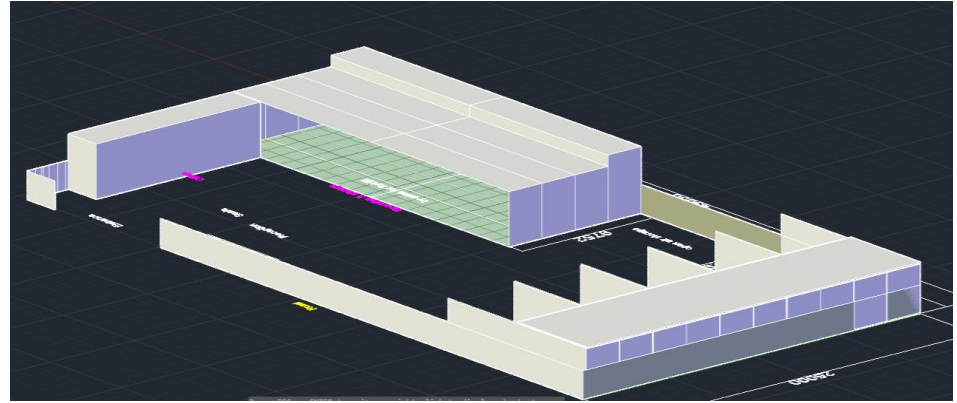
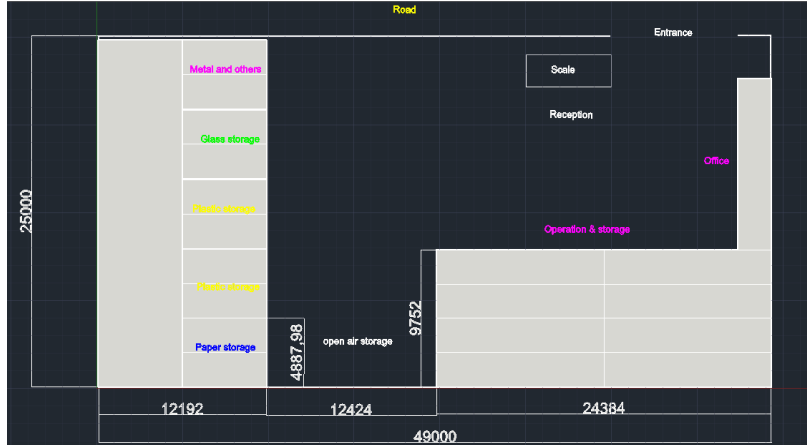
Different proposed layouts are suggested to fit the required spaces for the equipments and different working, operation and storage areas.

The layouts has been sent to Nahdet Misr civil engineering team to review and we received the comments according to their restrictions and conditions.

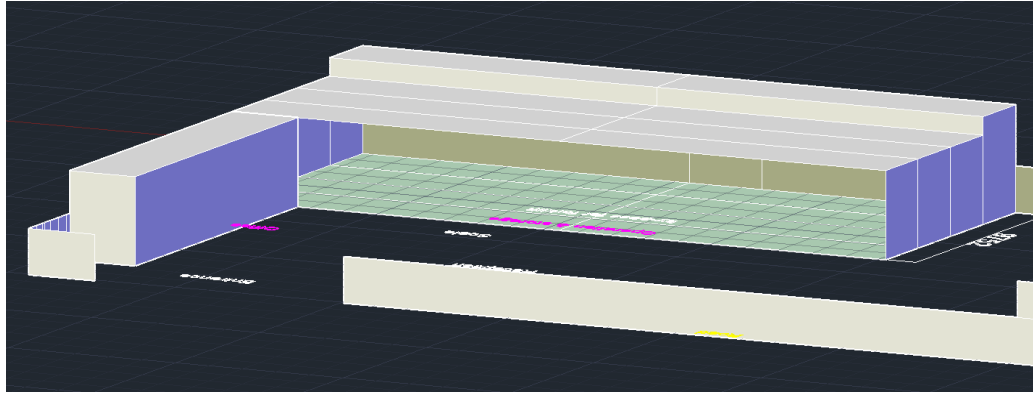
We developed the layout satisfying their conditions and finally we achieve an accepted version from Nahdet-Misr team.



TouMaLi Sorting Center-Alexandria



TouMaLi Sorting Center-Alexandria



Suggested Working Area Containers-based constructions



TouMaLi Sorting Center-Alexandria equipments

We received offers for: Beach cleaning machines, Bins, Press, Trucks

For the Press: The technical offers are evaluated and the price negotiations with the company with the accepted technical offer are done

We get a 6% discount for two vertical baling presses with extra gift for the project as a support with a value of 1000 Euros



TouMaLi Sorting Center-Alexandria equipments

For the Beach cleaning machines:

The technical offers are evaluated and the price negotiations with the company with the accepted technical offer are done

We get a 7% discount with 18 month guarantee and a free spare parts kit for one-year maintenance



For the Bins

The technical offers are evaluated from suppliers.

A good technical and financial offer from German supplier to ship a full container with 120 L and 240 L bins to Alexandria.



TouMaLi Sorting Center-Alexandria equipments

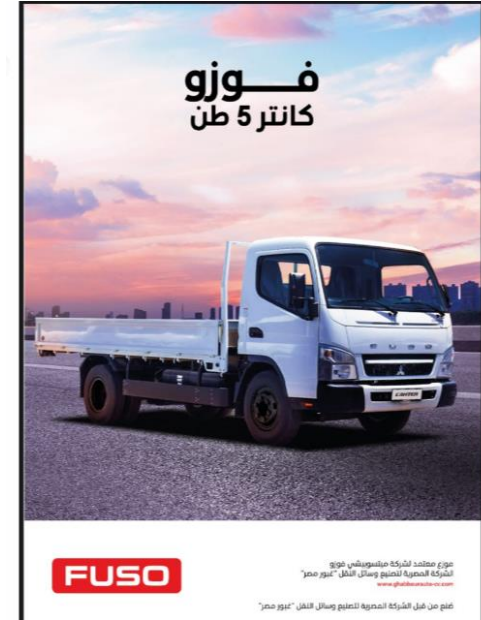
For the Trucks

We get many offers from different suppliers with a help from Nahdet Misr Co. (our project partner) for different types of trucks.

The primary accepted offer for 2- open Trucks with 5 Tons capacity. We are now negotiating about some technical modifications regarding adding the bin lifter.

For the Forklift:

We still waiting the technical and financial offer.



WP V: Implementation of local waste reduction solutions

Orientation Workshop for Hotels, March 2023

- The first orientation workshop for hotels in Alexandria has been held on 11th March 2023
- About 22 hotels is invited with the cooperation of the Ministry of Tourism.
- Very effective discussion regarding the challenges and the solutions.
- Organizing a Tour for the most modern WMS in Sunrise hotel (5 stars with ECO Tourism Certificate)



WP VI: Dissemination, awareness raising and capacity building

TouMaLi International Conference, Oct 2022, Alexandria, Egypt

Title: “Contribution of effective waste management systems to sustainable tourism and the protection of marine ecosystems”

” أنظمة فعالة لإدارة المخلفات للسياحة المستدامة و حماية البيئة البحرية ”

Time: 10-11 Oct 2022

Location: AASTMT Main Campus, Abo-Quir, Main Hall

Website: A part from the project website

<https://toumali.org/conference2022>



Joint Statement

TouMaLi 2022 International Conference, Alexandria, Egypt

Main Points:

- The countries of the Middle East and North Africa (MENA) region are expected to further **improve their institutional and legal frameworks**.
- The introduction and/or enforcement of innovative policy and economic instruments towards **Extended Producer and Consumer Responsibility** are crucial to achieving the objective.
- The tourism industries have to advance and promote **sustainable operations** and embrace the **principle of the circular economy** such as reuse, reduce, and redesign.

WP VI: Dissemination, awareness raising and capacity building

Beach monitoring training Campaign with WMRA October 2022



WP VI: Dissemination, awareness raising and capacity building

TouMaLi Participation in COP 27, Nov 2022, Sharm Elsheikh, Egypt

Two Participations in the COP27

One in the **BLUE Zone** and the other in the **GREEN Zone**

Reduction of single-use plastics bags consumption in Egypt, strategy and expected outcomes

Saturday, November 12th 2022, 14:00 – 15:00 (Cairo time)

COP27 venue, Blue zone, Egypt Pavillon

Convened by the Ministry of Environment of the Arab Republic of Egypt

In technical partnership with Roland Berger



WP VI: Dissemination, awareness raising and capacity building

TouMaLi Participation in COP 27, Nov 2022, Sharm Elsheikh, Egypt

GREEN Zone

Raising the African coordination and awareness on waste to reduce effects on natural ecosystems

UNFCCC COP27 – Sharm El-Sheikh, Egypt

Wednesday, 16th November 2022

Green zone, Hall A at 17:00 – 18:00 (Cairo Time)



Presentation Title: TouMaLi Project
German African Mediterranean
Cooperation Toward Prevention of Marine
Litter

WP VI: Dissemination, awareness raising and capacity building

Hotels Competition for Environment and Sustainable Tourism, May-June 2023

- The first hotel competition for Environment and Sustainable Tourism in Alexandria.
- The competition announcement was early May 2023 and 14 out of 45 hotels asked for participation covering different grades/categories/classes of the hotels from 5 to 2 stars, luxury, resorts, city hotels and low budget business hotels.
- The evaluation Committee includes representatives from Ministry of Environment, Ministry of Tourism, Nahdet Misr Company, Arab Academy/TouMaLi project. The evaluation Committee visited the hotels by the end of May/early June.



WP VI: Dissemination, awareness raising and capacity building

Hotels Competition for Environment and Sustainable Tourism, May-June 2023

- The Evaluation Criteria are as follow:
- 1- Separation from Source and different separated streams
- 2- Staff periodic and continuous training for waste management and separation
- 3- Ensuring the safe disposal for the produced waste
- 4- Having a Green or Eco Certificates



Participation in World Environment Day – 5th June 2023

TouMaLi is invited to participate in the World Environment Day celebration at Alexandria Bibliothetheque, 5th June 2023.

The minster of Environment attended the event which is organized by the ministry of Environment



Participation in World Environment Day – 5th June 2023

TouMaLi presented the project objectives, tasks and activities during the World Environment Day celebration in front of the Minister of environment (Dr. Yasmin Fooad).

- The awards of the 1st annual hotels competition for Environment and Sustainable Tourism in Alexandria organized by TouMaLi are announced during the World Environment Day Events. Thirteen hotels out of 45 hotels are awarded the Award of Excellence



World-Cleanup Day (16th September 2023)



World-Cleanup Day (16th September 2023)



Beach Competition

The competition was organized this summer between different beaches with different categories to evaluate them regarding the WMS.

We met the Alexandria Governor to confirm about the competition and we get the approval.

Beach Competition is organized between 16 beaches in Alexandria regarding evaluating the waste management system for the different types of beaches (Public or Hotel Beaches).

6 public and 4 hotel beaches are awarded the price. The announcement for the results of the evaluation will be very soon after coordination with Ministry of Environment and Alexandria Governorate.





Thank You for your attention