

Ariana Waterfront Development Coastal and Marina Planning

EDSA

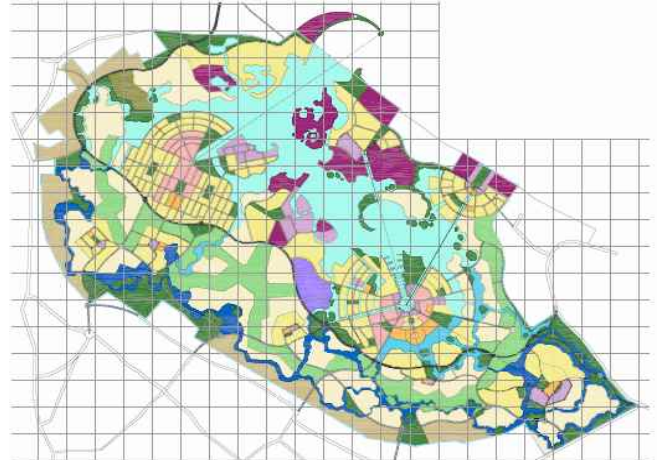
Tunis, Tunisia

Services Rendered

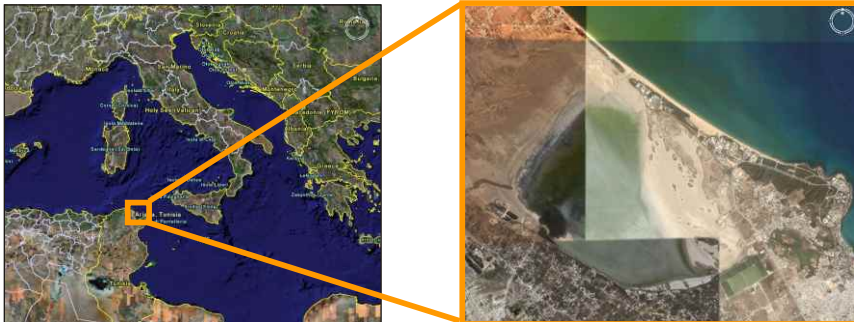
- Consensus Plan Refinement and Due Diligence
- Technical Analysis and Conceptual Land Use Plan
- Coastal and Maritime Analysis
- Hydrodynamic, Wave, and Sediment Transport Modeling

Project Summary

Working with EDSA, ATM provided coastal and marina planning for the Ariana Waterfront, a massive mixed-use development project encompassing more than 4,000 Ha along the North African coast of Ariana in Tunis, Tunisia.



The proposed development included residential, commercial, retail, government and civic elements, hotel, and leisure components (golf, marinas, private clubs) with a strong connection to the waterfront provided by a series of inland waterways, channels, and lagoons. These waterways would also provide navigational access to several marina villages and facilities planned throughout the development and to the Mediterranean Sea via manmade channel(s) cut through the existing shoreline.



ATM developed a commercially viable Land Use Plan that exceeded the Master Planner's (EDSA) vision and satisfied all engineering and environmental concerns. The effort began with gathering information and data from various base map plans, met-ocean studies, dredging reports, geotechnical investigations, coastal modeling, environmental reports, and the conceptual plan.

Along with a site visit, efforts included detailed coastal planning that included engineering considerations such as waves, winds, tides, flushing of waterways, channels, and basins, storm surge, extreme (design) conditions, sediment transport, and currents.

ATM offered preliminary recommendations regarding reclamation levels, land form and waterway configurations, beach setback limits, beach and swimming zone siting, entrance and navigation channel orientation, breakwater orientation and lengths, marina siting locations, and other features and considerations affecting the coastal regime.