



Training on the Geospatial technology (Remote Sensing and GIS) application for Sustainable Coastal Smart Cities. December 2-7, Mombasa, Kenya.

The Western Indian Ocean Marine Science Association ([WIOMSA](#)) in partnership with Macquarie University and Hexagon Geospatial are organizing a training workshop on the application of geospatial technology for sustainable and smart coastal cities. The training workshop is slated for Mombasa Kenya from the 2nd to the 7th December 2019. The workshop is organized with the financial support of the Government of Sweden through WIOMSA's Cities and Coasts Programme.

The workshop is aiming at building the capacity on geospatial methods and tools available for planning and implementation of a smart and sustainable coastal cities agenda. The training is primarily tailored for practitioners within relevant national and local government departments and academics from the universities in the region.

The main objectives of the training are the need for coastal city planning for urban settlements to move on from a conventional 'GIS Mapping' approach to a more advanced and comprehensive geospatial analysis and solution approaches.

Workshop Content and training outcomes

The 6-day training will cover a range of topics including:

1. Smart Sustainable Coastal Cities and Smart Technologies - Internet of things and the integration of IoT with Geospatial Technology.
2. Mapping and modelling urban growth patterns and expansion trajectories
 - Strategic placement of infrastructure
 - Remote Sensing - Land-use classification and change detection
 - 3D modelling/mapping of cities including use of Unmanned Aerial Vehicles/Drones
2. Coastal cities extreme events vulnerability assessments (coastal flooding and storms, inundation, climate extreme events)
3. Modelling ecological (and/or carbon) footprint of coastal cities'
4. Decision support tools and Spatial Planning for cities

5. Geospatial technology applied to city scale implementation of global goals and targets (e.g. SDG, UNFCCC)

The training involves short lectures interspersed with many hands-on exercises. Participants are expected to have a necessary background in GIS from learning and/or practice. The candidate selection process considers, among other things, the potential for up-take and use of gained skills.

How to apply

Applications to attend the workshop are invited from coastal cities/towns planners, scientists and researchers working on relevant coastal cities issues, environmental management authorities and from national and regional NGOs. Applicants should have a relevant degree (urban/environmental planning, geospatial technicians/engineers) and a minimum certificate in GIS. Interested applicants should submit their CVs and a motivational letter (indicating how geospatial techniques for smart cities is relevant to your work/research) (maximum 1 page). These should be sent at the latest on 18th October 2019 via email to WIOMSA (secretary@wiomsa.org) and Valentine Ochanda (v.ochanda@wiomsa.org) copied to Joseph Maina (joseph.mbui@mq.edu.au). Successful candidates will be notified within three weeks of the deadline.

Note: Please apply as soon as possible, as the selection process commences before the deadline, for logistical reasons.