



Training on the Use of Integrated Spatio-temporal Data in Local SDGs Monitoring and Decision-making

Prince of Songkla University, Songkhla, Thailand

30 May-2 June 2023 (09:30-17:00 UTC+7)

Venue: Prince of Songkla University, Songkhla, Thailand

Background:

In working towards achieving the SDGs, integrating statistical data from various government sectors with geospatial data is essential for accurate and comprehensive SDG monitoring, assessment, and planning. Geospatial data have high relevance for certain sectors notably, infrastructure, disaster management, agriculture, water and marine environments and urban development.

However, in many countries, statistical and geospatial communities and institutions operate in silos, having separate mandates, institutions, technical knowledge, and skills. Furthermore, different sectors responsible for SDG monitoring and implementation have their own understanding of standards, techniques, language, and mechanisms which can cause confusion and problems when applying and using these data. Many Asia-Pacific countries face gaps in terms of integrating sectoral and geospatial data. There is generally a lack of operational integrated geospatial data systems that inhibit the understanding of the current progress towards achieving the SDGs. Existing geospatial approaches to problems are not always tailored for local (country or other administrative levels) needs. In addition, geospatial data needs to be further transformed into knowledge capacity for policymakers as not all end users can effectively use geospatial information.

To address this need, the Economic and Social Commission for Asia and the Pacific (ESCAP) will organize four days of capacity-building training on building institutional



capacity for the use of integrated spatiotemporal data in local SDGs monitoring and decision-making. The training will specifically focus on Songkhla city with an emphasis on a) exploring smart city solutions to improve the urban quality of life and increase the resilience to disasters and b) exploring spatiotemporal information-based solutions to address community and ecosystem challenges in the Songkhla Lake Basin.

Objectives:

- To increase the capacity of technical officials and policymakers from national geospatial information applications agencies and local governments in Songkhla to utilize integrated spatiotemporal and statistical data for local SDG monitoring and local-level policymaking;
- To share progress from Songkhla, Thailand on the integration of spatiotemporal and statistical data and review the implementation of the SDGs at the local level and identify the priority areas for converting geospatial big Earth data into SDG-related information.
- To analyze the urban quality of life-related problems in Songkhla city and community and ecosystem-related issues in the Songkhla Lake Basin with the support of regional experts, space agencies and academia.

Expected Outcomes

- Enhanced capacity of national planning, environmental, land management and space-related agencies or ministries, as well as relevant research institutions in the pilot countries to integrate spatio-temporal and statistical data for local SDG monitoring and local-level policymaking;
- Enhanced understanding of national ministries in pilot countries on the conversion of integrated statistical-geospatial data into SDG-related information according to the needs of beneficiaries;
- A detailed work plan for Songkhla city which lists the path towards enabling smart city solutions and addressing the community and ecosystem-related challenges of Songkhla Lake Basin

Venue and Date/Time

Prince of Songkla University, Songkhla, Thailand

Organisers

United Nations Economic and Social Commission for Asia and the Pacific (ESCAP)



**ESCAP ICT and Disaster
Risk Reduction Division**

Draft Programme

Day 1: Tuesday, 30 May 2023	
Time (UTC+7)	Topics
9:30-9:40	Opening session Welcome Remarks by ESCAP secretariat and PSU
10:20-12:00	Topic 1: Progress in evaluating methods, techniques, and cases for Goal 6 and Goals 3 <i>1.1 Present situation and trends in SDG 6 assessment</i> <i>1.2 Present situation and trends in SDG 3 assessment</i> <i>1.3 Case study of SDGs assessment in Deqing County, China</i>
12:00-13:30	Lunch break
13:30-14:30	Topic 2: Methods and cases of indicators for SDG monitoring and evaluation <i>2.1 Method of evaluation and spatialization of statistical indicators.</i> <i>2.2 Spatial indicators evaluation methods and cases</i> <ul style="list-style-type: none"> • <i>SDG 6.3.2 remote sensing water quality monitoring and evaluation (T1 and T2)</i> • <i>SDG 6.6.1 Methodology for assessing the sustainability of water-related ecosystems (a-area, b-quantity and c- quality)</i> • <i>SDG 6.6.1 Methods for assessing the health status of water-related ecosystems (d. Health status)</i> • <i>SDG 3.6.1 Death Rate due to Road Traffic Injuries</i> • <i>SDG 3.8.1 Coverage of Essential Health Services</i>
14:30-14:45	Coffee break
14:45-17:00	Topic 2: Methods and cases of indicators for SDG monitoring and evaluation (cont) <ul style="list-style-type: none"> • <i>SDG 6.6.1 Methods for assessing the health status of water-related ecosystems (d. Health status)</i> • <i>SDG 3.6.1 Death Rate due to Road Traffic Injuries</i> • <i>SDG 3.8.1 Coverage of Essential Health Services</i>



Day 2: Wednesday 31 May 2023

Time (UTC+7)	Topics
9:30-12:00	<p>Topic 3: Automatic calculation and assessments tools for spatial indicators of SDG</p> <p><i>3.1 Recognition and inversion of indicators from remote sensing images based on GEE</i></p> <p><i>3.2 Construction and application of accessibility and fairness model based on Shortest Path</i></p> <p><i>3.3 Normalization and dynamic computing platform for SDGs</i></p> <p><i>3.4 Identifying and applying essential variables for SDGs indicator calculation</i></p>
12:00-13:30	Lunch break
13:30-16:30	<p>Topic 4: Knowledge graph and applications of SDGs</p> <p><i>4.1 SDGs knowledge system</i></p> <p><i>4.2 Construction and application of knowledge graphs in SDGs</i></p> <p><i>4.3 Platform and application of SDGs knowledge services</i></p> <p>Topic 5: Action Plan and Voluntary Local Review (VLR)</p> <p><i>5.1 From SDGs assessment results to action plans</i></p> <p><i>5.2 Voluntary Local Review and reporting framework</i></p>

Day 3: Thursday 1 June 2023

Time (UTC+7)	Topics
9:30-16:30	<p>Field visit</p> <ul style="list-style-type: none"> • To visit smart city infrastructure / city government / Songkhla Lake

Day 4: Friday 2 June 2023

Time (UTC+7)	Topics
9:30-16:30	<p>Field visit</p> <ul style="list-style-type: none"> • To visit smart city infrastructure / city government / Songkhla Lake
16:30-17:00	Wrap up



For information, please contact:

Mr. **Hamid Mehmood**

Economic Affairs Officer

Space Applications Section

ICT and Disaster Risk Reduction Division, ESCAP

Email: hamid.mehmood@un.org

