United Nations | DESA Statistics Division

Building capacities on small area estimation

The SAE4SDG Toolkit

- **The Toolkit on Using Small Area Estimation for SDGs** (https://unstats.un.org/wiki/display/SAE4SDG/) in Wiki is a space to provide information on methods to produce disaggregated data through small area estimation**.**
  - Launched March 2022
  - UNSD, supported by IAEG-SDGs and ISWGHS
  - Newly available software packages and case studies continue to be added

eLearning on SAE

- A joint effort of ECLAC-UNSD-UNFPA: https://learning.officialstatistics.org/user/index.php?id=103
  - Reading materials
  - Recorded videos (50 videos with about 10-15 minutes for each video), organized in 10 modules
  - Evaluation materials including weekly computer-graded assessments, two mid-term projects, and a final project
  - R program language code that can be used for SAE modelling
- Opened in August 2023
  - Self-paced students on the platform: 460
  - Guided learning sessions with an extra 1.5-hour per week to provide guidance: 200 students registered and we are currently supporting around 120 students from Asia, Africa and Latin America (with ECLAC, ESCAP and ECA)

Offering more and better training

- High demand: continuing the eLearning course guided training 2024:
  - SAIP will be offering one session for Asia and the Pacific
  - One for English-speaking African countries and one for Latin America and the Caribbean
  - French translation soon to be available, for Francophone African countries (self-paced)
- Reflecting on the learning experiences: R skills, linear model, busy schedules, sometimes the interested students do not really work on the area, course material very intense
- Improve the training experiences:
  - Reducing the complexity of the project assignments, to cater to different levels of students
  - Doing more intensive follow-ups/reminders with students on homework assignments/video watching
  - Making certain modules elective for more advanced students
  - Preparing Syllabus that has specific grading/marking requirements
  - Extending the course completion period by 1-2 more weeks to allow extra time for projects

Geospatial data for SAE: a review of its potential, limitations and effectiveness

1. An overview of SAE method, why and the audience of the review
2. Input data: geospatial data and training data
3. Geospatial SAE methods
4. Skills and tools to apply the methods
5. Future research and work

- A draft available: here; will finalise end 2024
- Partners: World Bank, SAE expert, IAEG-SDGs, GGIM-ISGI

Geospatial data for SAE: hands-on guidance

- To develop a step-by-step guidance on:
  1. Accessing geospatial data for SAE
  2. Selecting the types of data to use
  3. Illustrating with datasets
- Regional training: with ESCAP and potentially ECA

United Nations | DESA
Statistics Division