

Sub-task Number: US-09-02b

Sub-task Title: Socio-economic and Demographic Global Data

Overarching Task: Socio-Economic Indicators

Area: USER ENGAGEMENT

Relevant Committee: UIC

Related Targets: (to be included in 2009)

Sub-task Definition (as given in the 2009-2011 Work Plan):

Develop global spatially-enabled socio-economic databases with an initial focus on Africa. Support the development of tools and methods for building, visualizing, and analyzing socioeconomic indicators for informed decisionmaking, policy formulation, and operational strategies for development.

Leads (GEO Member or PO, Entity carrying out the work, Contact: e-mail):

UNECA (ISTD/GISS), Point of Contact: Chukwudozie Ezigbalike, Ezigbalike.uneca@un.org

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Motivation/Background

Managers and policy makers may need to integrate social, economic and others data in order to formulate strategic development plans. The purpose of this task is to support the development of tools and methods for building, visualizing, and analyzing socioeconomic indicators for informed decision-making, policy formulation, and operational strategies for development.

Outputs (e.g. products and services which result from the activities of the Task/sub-task; outlined in the form of deliverables with timelines)

Planned:

A well-structured and comprehensive socioeconomic geodatabase that would be consistent, comparable, and compatible at the local, national, regional, and global levels.

Decision support tools for subnational development planning

Produced (current status):

Collection, validation, and publication of second level administrative boundaries for some African member States.

Collection and validation of MDG-related socio-economic data, indicators and estimated values at national level

Activities (operations or work processes through which resources are mobilized to produce specific outputs; outlined in the form of milestones including timelines)

Planned:

MDG Mapper. Develop a tool for mapping socioeconomic indicators with an appropriate spatial analytics component to explore data and their spatial occurrences at locations of interest.

Geovisualization. Identify, assess, and customize particular applications and guidelines on visualizing socioeconomic indicators (specifically, the MDGs) and their spatial relationships over time.

Poverty Mapping and Poverty Monitoring and Evaluation. Geographically-anchored subnational socioeconomic time series data are fundamental to understanding the spatial complexion and structural causes of poverty (and thus to designing spatially-tailored poverty alleviation interventions).

Progress (current status):

A first release of the MDG Mapper tool was developed. With this tool (see <http://geoinfo.uneca.org/mdg/>), one can navigate through the MDG goals, targets, and over 80 indicators and generate maps dynamically showing the progress of member States at various points in time, an estimated value for 2015, and hence off-target estimates at 2015. The tool provides an option to save images of the maps for possible insertion in documents. The site also includes spreadsheets showing the annual improvements on each indicator, together with the utility application developed in Visual Basic for Applications (in Microsoft Excel) for download.

Resources (indication of resources – e.g. financial, human – contributed by GEO Members or Participating Organizations to produce outputs)

Human resources: 18 Full Time Equivalent months

Architecture and Data Component

1) Please briefly describe any task-related Earth observation resources (data set, system, website/portal) and any related Web Service interfaces that are contributed to GEOSS. State whether these items are or will be registered with the GEOSS Component and Service Registry for access via the GEO Web Portals, and whether any associated standards or other interoperability arrangements will be registered in the Standards and Interoperability Registry.

2) Please also describe what data and information your activity/system needs that you would request to be accessible through the GEOSS Common Infrastructure.

Capacity Building Component

(capacity building is defined to include the development of capacity related to: (i) Infrastructure and technology transfer (Hardware, Software and other technology required to develop, access and use EO); (ii) Individuals (education and training of individuals to be aware of, access, use and develop EO) and (iii) Institutions – building policies, programs & organizational structures to enhance the value of EO data and products).

1) In accordance with the above definition does this Task have a capacity-building component? If so, please provide a short description of this component including a description of end users.

User Requirements Workshop: Given the demand from various stakeholders to develop a tool such as the one proposed here, a user requirements workshop is critical to its development. ECA will prepare a prototype of the tool for demonstration at the workshop. Both the discussion around the marketplace assessment and the prototype should provide ample fodder for the development of a tool that meets a core set of needs in socioeconomic development planning and geovisualization.

2) Have any additional CB needs for this Task been identified? Please provide a short description.

User Engagement Component

(please briefly describe to what extent end users are engaged in this Task and influence the nature of the outputs produced)

Science and Technology (S&T) Component

1) Please briefly describe the elements of scientific research or technological development contained in this Task.

2) In relation to the S&T component(s) of this task, please describe gaps, priorities, continuity needs, barriers, scientific expertise and additional resource needs (this information will be used for developing a gaps and needs assessment in Task ST-09-01)

Members and POs' Contributions to Outputs and Activities above:

(Input is optional. This section gives the chance to Members and POs to provide more details (3-5 lines) on their individual activities, making a clear connection with the Outputs and Activities outlined above).

Portugal

CESNOVA: We are working on impacts of global warming in migratory flows in lusophone space. We are interested in develop socio-economic indicators that will help predicting future demographic trends due to climate change and the rise of sea level. We intend to provide sociological scientific evidence that will help developing institutional and governance sustainable strategies' in order to respond to changes in demographic structures in education and health systems, labour market dynamics, and inter-ethnic relations.

LNEC/DED/NESO: Development of research projects on sustainability and territorial cohesion, (national and international level: FCT and FP-7), development of methodologies for risk analysis of erosion in coastal urban areas, and critical analysis of the concept of urban population.

Participation (Table to be filled in 2009):

Type	Member or PO	Representing	Contact Name	EmailAddress
Lead (PoC)	UNECA	ISTD/GISS	Dozie Ezigbalike	Ezigbalike.uneca@un.org
Lead	UNECA	ISTD/GISS	Paul Belanger	PBelanger@uneca.org
Lead	UNECA	PAMS	Kasirim Nwuke	KNwuke@uneca.org
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