

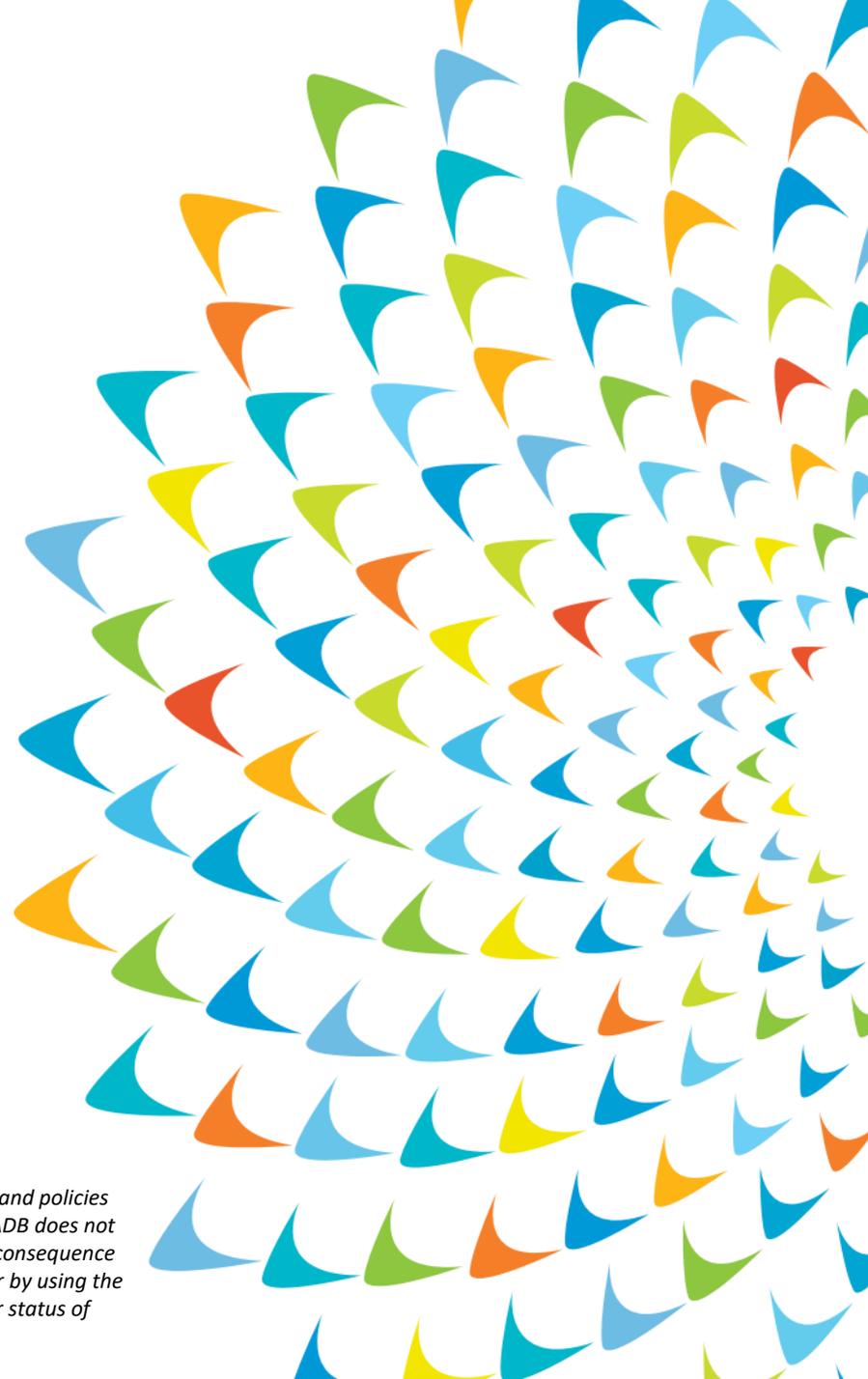


Central and West Asia Department

Armenia:

Supporting the Establishment of National Standardized Spatial Data Infrastructure

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Technical Assistance (TA) Objectives

Support on-going efforts to build a national state-of-the-art multipurpose geoportal

- for **land management**, including planning (for example: functional zoning) and administration (for example: accurate cadastral data for land acquisition)
- for more efficient public services (**e-governance**) and greater transparency
- for effective evaluation, monitoring, and response on disasters and land degradation induced by natural hazards



Budget and Financing

Indicative Technical Assistance Budget and Financing Sources

ADB TA grant : \$1.300.000, co-financed by

- **e-Asia and Knowledge Partnership Fund (\$500,000) and**
- **High-Level Technology Fund (\$800,000)**

Government of Armenia: AMD 477,981,600 (about \$ 985,000) for geodetical and cartographical surveys - aerial photography of the territory of the Republic of Armenia - digital elevation model of orthophoto projections.



Implementation arrangements

ADB administers the TA

in consultation with the Cadastre
Committee of the Republic of Armenia



Outputs

Output 1

Budget:
\$0.5M

**Source of
funding -
EAKPF**

1. National geospatial standards design

- Standards are essential to harmonize technical specifications
- to direct and regulate spatial data collection and sharing
- Geospatial data standards are the basis for the Geoportal development

2. Geoportal TOR development

- Based on global best practices and most suitable standards in the Armenian context (i.e., conforming with acting laws and the Armenian Constitution)
- **1 year implementation**



Outputs

Output 2

Budget:
\$0.65M

**Source of
funding -
HLTF**

Multipurpose geoportal for government agencies to gather, process, maintain and exchange standardized spatial data

The national geoportal will include databases of the following layers: (i) [addresses](#); (ii) [cadastral parcels](#); (iii) [geographical grid systems](#); (iv) [geographical names](#); (v) [coordinate reference systems](#); (vi) [elevation](#); (vii) [transport network](#) etc.



Outputs

Output 3

Budget:
\$0.15M

**Source of
funding -
HLTF**

Pilot application: standardized custom cartographic layer developed and migrated into the Geoportal

- refinement of general methodological guidelines
- training of Cadastre and associated agency staff.



ToR for Output 1

The assignment for Output-1 delivery will comprise of four distinct phases:

- (i) investigate the current situation in Armenia to assess the needs for national geospatial data standards development and/or upgrade
- (i) investigate the current situation and design the architecture and interoperability scheme of the integrated national multifunctional geoportal
- (i) develop/upgrade at least 10 national geospatial data standards, and
- (i) develop TOR for the integrated national multifunctional geoportal to be implemented independently within the same TA arrangements



ToR for Output 1

Scope of the assignment:

- (i) collect information on successful international experience of national geospatial data standards development, summarize the findings and recommendations,
- (ii) collect information on relevant data available locally in different systems and databases, summarize the findings and recommendations for standardization and integration of the existing data,
- (iii) organize and conduct national training/roundtables on proposed standards and national multifunctional geoportal structure and disseminate possible solutions,
- (iv) develop the TOR for geoportal development for relevant state authorities review and approval,
- (v) ensure professional translation of all deliverables into Armenian,
- (vi) prepare an inception report (1 month after mobilization),
- (vii) prepare progress reports every 3 months, and
- (viii) prepare a final report (geoportal TOR attached)



ToR for Output 1

Procurement of the consulting firm:

- Fixed budget selection with simplified technical proposal.
- 4 international consultants with 31 person-months of inputs and
 - o Geospatial Data Standards Expert/Team Leader (12 person-months, intermittent)
 - o Spatial Data Management Systems Expert (8 person-months, intermittent)
 - o System Analyst and Database Design Expert (8 person-months, intermittent)
 - o DevOps / Infrastructure Engineer (3 person-months, intermittent)
- 3 national consultants with a total of 24 person-months of inputs

The consulting firm will also be responsible for carrying out external publications, surveys, training, seminars, and conferences as indicated in the cost estimates and financing plan of the TA report.



Milestone events

Milestones	Expected Completion Date
1. Output - 1 advertisement	May-21
2. Output -1 Consultants mobilization	Sep-21
3. Output -1 Deliverables approved	Oct-22
4. Output - 2 advertisement	Oct-22
5. Output -2 Consultants mobilization	Jan-23
6. Output -2 Deliverables approved	Jun-24
7. Project completion	Sep-24