



Responsible and professional
geospatial community is the
vital part of the
implementation of
Kazakhstan's national
geospatial strategy.

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Key Components of the National Geospatial Strategy

Any national geospatial strategy includes the following essential elements:

- 1 What goals do we want to achieve?
- 2 What actions will we take?
- 3 When should it be done?
- 4 Who will be responsible?

The geospatial community (geomatics) is one of the key components of the national geospatial strategy.

Defining the Key Goal of the National Geospatial Strategy

At the core of every national geospatial strategy lies one key objective:

"Geospatial data must enhance the efficiency of service providers to ensure the national security and well-being of society."

A necessary outcome of successful implementation of strategy is the development of the geospatial community: "We create relevant, accurate, and reliable geospatial data more responsibly and effectively."



Figures of Geospatial Policy in Kazakhstan

Kazakhstan has more than 6 universities graduating over 300 specialists annually in fields such as geodesy and cartography, geography, cadastre, and others.

Employers include approximately 10 government organizations and over 600 private sector entities.

The annual market volume of geospatial services exceeds 20 million USD.

However, there is no accountability for the geospatial data being produced, leading to a lack of confidence in its reliability. As a result, questions arise regarding the quality of public services and governance that rely on spatial data.

Preconditions for “Geospatial Irresponsibility” in the Professional Community

Key conditions contributing to the development of professional irresponsibility include:

- Geospatial data does not directly affect societal well-being or living conditions.
- Lack of objectivity and independence in geospatial data quality control.
- Government supports and protects state organizations that perform large volumes of work, self-check, and self-approve.
- Fragmentation of geospatial policy across ministries and hidden competition between them.
- Legal mechanisms enabling the “classification” of geospatial data.



Consequences of “Geospatial Irresponsibility” in the Professional Community and Sectoral Policy

1

No "political" attention

There is no "political" attention to geospatial sector.

2

Closed, long-term cycle

A closed, long-term cycle resembling a disease with hidden symptoms.

3

Irresponsible community

Growth of an irresponsible geospatial community that produces unreliable data, which is used by service providers to deliver low-quality public and business services.

4

Failed strategy implementation

An irresponsible geospatial community cannot ensure successful implementation of the national geospatial strategy.

5

Ignored community

Kazakhstan's geospatial strategy is built on relationships between ministries and state enterprises, while completely ignoring the broader geospatial community (business and academia).

Measures to Develop the Geospatial Community in Kazakhstan

The following measures must be considered:



Quality control of geospatial data

Every specialist and organization (private or public) must know that their work will be reviewed by an objective mechanism of a third independent party.



Accountability of performers and organizations

Poor-quality data must lead to negative consequences for both producers: the organization and the specialist (loss of market access, loss of eligibility for high-paying positions).



Competition among performers and organizations

Competition will drive demand for best practices, competent professionals, and advanced technologies.



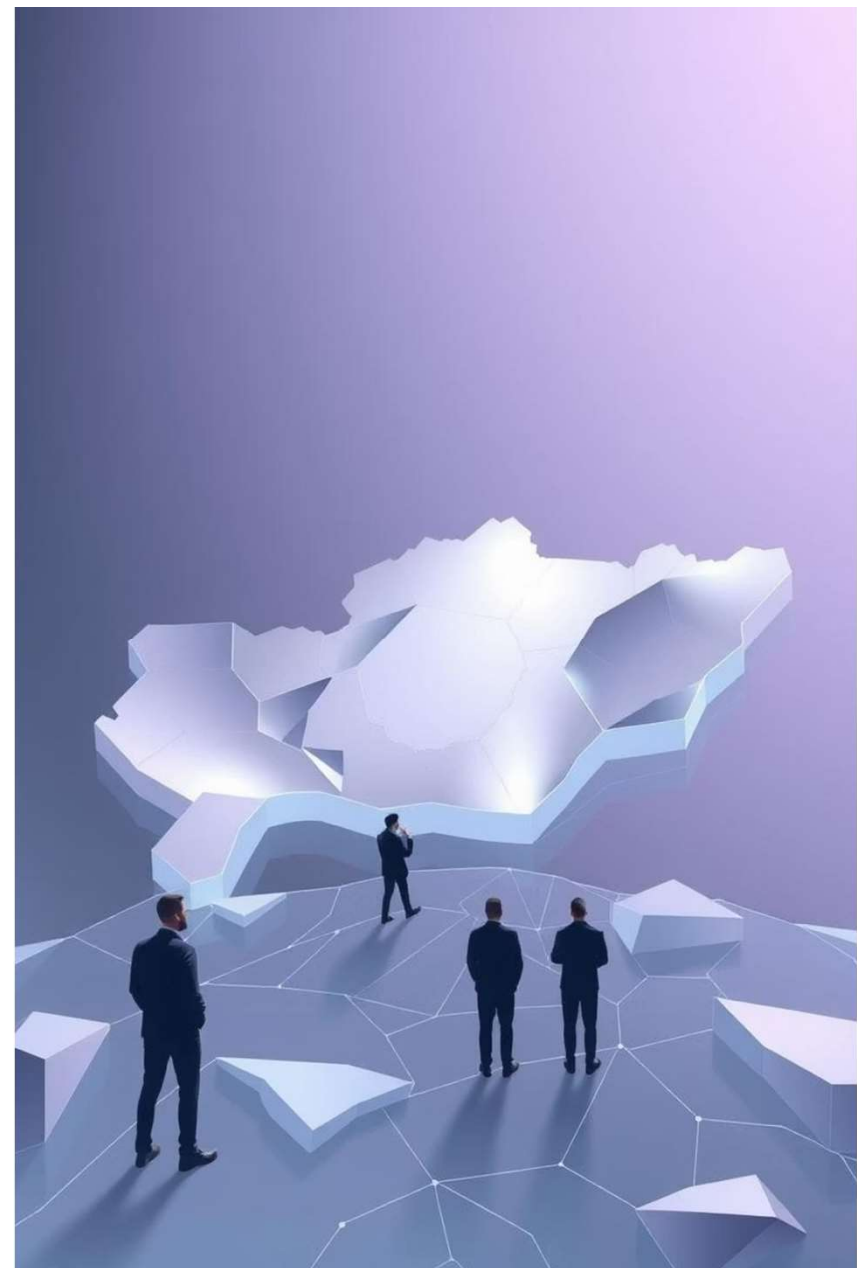
Unification of the professional community

Forming professional associations and Self-Regulatory Organizations will create continuous “positive pressure” on the government to improve legislation, regulations, and standards.

Outcomes of Geospatial Community Development in Kazakhstan

A professional geospatial community will become the main driver, executor, and beneficiary of the core goal of any national geospatial strategy:

"Geospatial data must enhance the efficiency of service providers to ensure the national security and well-being of society."



Thank you for your attention.

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