

The Long-Term Plan for Basic Survey

- Promote surveying administration supporting sustainable high-precision positioning society —

Basic survey: a basic survey for all surveys, and that are conducted by the Geospatial Information Authority of Japan <Article 4, Survey Act>

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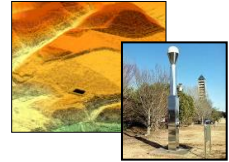
: a Long-Term Plan established by Ministry of Land, Infrastructure, Transport and Tourism <Article 12, Survey Act>

Background

- Progress in digital transformation (DX) and the expanded use of geospatial information
- Improvement of positioning environment
- Public awareness of security and disaster prevention

Basic policy

- Develop fundamental data which is a basis for the digitization of society
- Address the increasing role of basic survey in the field of positioning
- Improve the up-to-dateness of map information and promote 3D mapping



Positioning and surveying based on national coordinates

Maintain basic map information

National land surveys and maintenance of map information essential for indicating and preserving Japan's territory and territorial waters

- Provide precise ephemeris by calculating accurate orbital information independently in Japan
- Revise the elevation nationwide and introduce GNSS elevation surveys
- Maintain GNSS CORS, provide correction information steadily, construct 4D national coordinates and expand the use of Private Sector GNSS CORS

- Improve the efficiency of maintenance and update of the Digital Japan Basic Map by utilizing satellite data, AI, etc.
- Maintain and update map information, ortho images, place name information and 3D data
- Maintain and update basic geospatial information of Japan's territory including remote islands steadily

Promote disaster prevention/risk reduction and disaster response

Provide geospatial information and promote its usage

- Maintain and provide geospatial information for disaster risk reduction and share its usage
- Monitor crustal deformation continuously by GNSS CORS, etc.
- Detect crustal deformation by GNSS CORS
- Assess the scale of the damage by emergency aerial photography, create and provide Provisional Inundation Depth Map
- Provide information to various disaster information systems

- Strengthen our capabilities for providing geospatial information online
- Promote Industry-Academia-Government collaboration
- Maintain the Geospatial Information Library and enable distributed deployment

Surveying administration and international activities

Research and development, and human resource development

- Coordinate public survey, collect the results and make them available for public
- Develop manuals and operational regulations for new surveying techniques
- Contribute to activities in multilateral forums (UN, ISO, IGS, IVS, etc.)
- Cooperate to bilateral cooperation (dispatch of JICA experts, acceptance of trainings, etc.)

- Develop technologies contributing to the construction and maintenance of 4D national coordinates
- Conduct research and development to improve the efficiency and accuracy of mapping
- Cooperate with reskilling support initiatives
- Reform the qualification system
- Support disaster risk reduction and geography education
- Support university students and working people to acquire technical skills