GeoMap

Geological mapping and professional deliverables

For geological studies, reserves reporting, and development-plan preparation, GeoMap combines specialist symbols, mapping algorithms, and detailed editing to produce accurate, standards-compliant, and readable deliverable maps.

Operating context

Complex specialist mapping

Geologists, reservoir engineers, and reserves specialists map structures, well locations, and curves and review the resulting deliverables for reports, plans, and atlases.

Current workflow gaps

01 Complex coordinates and specialist relationships

Affect object placement and map interpretation

02 Inconsistent symbols and presentation standards

Increase review, revision, and rework

Expected deliverable

Create reviewable, deliverable specialist maps

Capabilities and value

01 Unify specialist presentation

Reuse or edit symbols, line styles, and stratigraphic colors; verify business meanings and legend consistency; and reduce repeated configuration and presentation inconsistencies. Checks: standards version, symbol meanings, and legend

02 Structure the mapping process

Use discrete points or grids together with faults and boundaries as inputs; organize interpolation and contour mapping; and check constraints and the reasonableness of key areas. Checks: input distribution, constraints, and algorithm applicability

03 Control quality in complex local areas

Adjust graphic-element properties, curves, and annotations; handle filtering, clipping, and complex local areas; and support deliverable acceptance through complete-map review. Checks: basis for modification, output, and reopened result

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Workflow and application

Specialist mapping staff | Geological and development maps | Detailed compilation and standards-compliant output

Inputs

Discrete points or grids
Well locations and coordinates
Faults and boundaries
Curves and stratigraphic tops
Symbol and legend standards

Product workflow

1. Specialist symbol and standards resources
2. Grid interpolation and contour tracing
3. Detailed editing of graphic elements and curves

Outputs

Specialist deliverable maps
Symbols and legends
Standards-compliant output files
Review and inspection records

Specialists review coordinates, specialist relationships, and presentation standards before the maps are used in reports, plans, and atlases.

Inputs: authorized materials, coordinates, and standards Boundary: specialists review and validate geological understanding and interpretation

Typical task and validation basis

Joint validation on a complex structural map

Select a de-identified map containing fault intersections, dense contours, and complex annotations.
Complete coordinate checks, mapping, editing, review, and an output-reopen inspection.
Record total elapsed time and reasons for rework; benefits must be measured through the same task.

Adoption and integration

Software configuration Verify the current version and licensed modules
Standard resources Symbols, templates, and shared layers
Preparation Authorized data and coordinate references
Responsibilities Specialist operations and business review

Discuss a pilot

Select a complex sample map and a reference deliverable.
Agree on allowable error and delivery formats.
Produce inspection records and a remediation list.