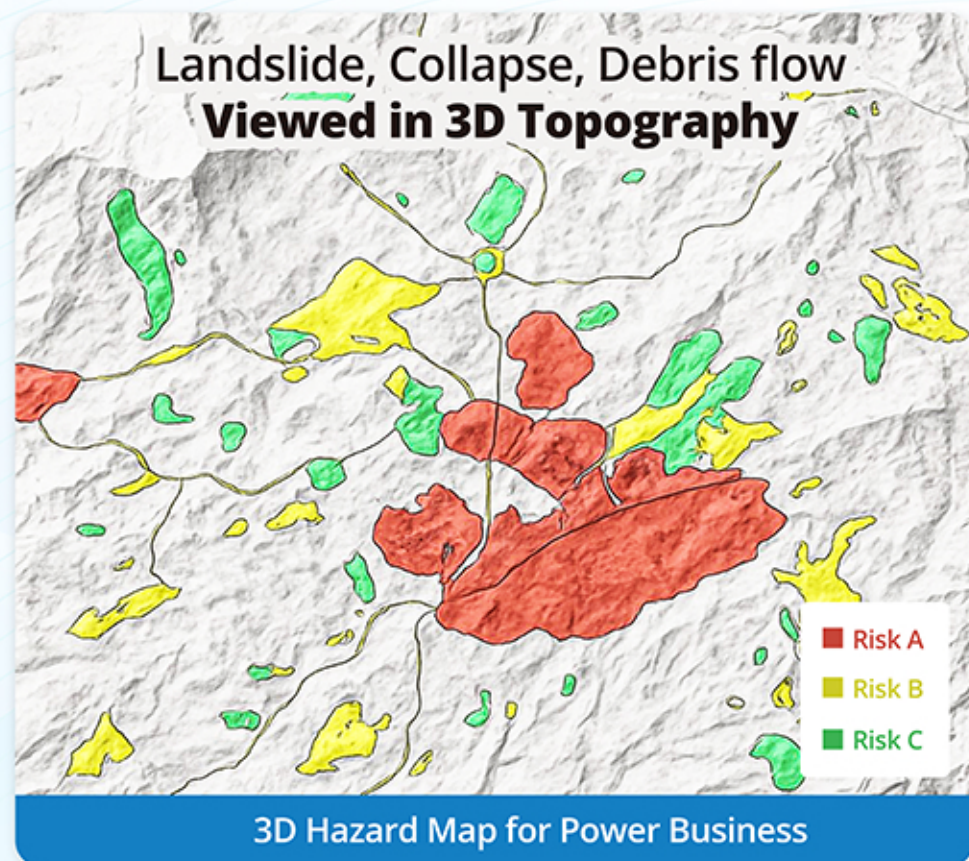


~ Recommendations for a Safer Development Plan ~

Would you like to choose a safe site by hazard maps?



Collapsed
Access Road



Power Facilities
and Landslide



Landslide Toward
Powerhouse

How about visualizing risks with hazard maps and stable business operations with safe facilities?

Proposals for appropriate land use and development plans considering the local characteristics & topography

Investment Plan
Avoiding Disaster Risks

In selecting an investment property, you can choose a property or land with low risks of disasters.

**Optimization
of Investment Plans**

In investment planning, calculating cash flow that considers disaster risk is possible (cost for disaster measures and insurance, etc.).

**Stable
Business
Operations**

In constructing facilities, creating safe structures resistant to disaster risks is possible. Facilities that take disaster risk into account will promote stability in business operations.

How about visualizing risks with hazard maps and stable business operations with safe facilities?

FS/MP

- Site Selection
- Facility Plan
- Hazard Map
- Field Investigation

Construction

- Advanced Disaster Prevention Facilities
- Detailed Design
- Facility Construction

Operation

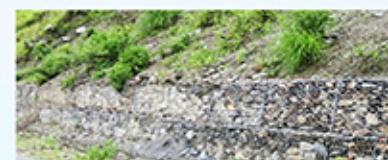
- Countermeasure for Disaster Occurrence
- Monitoring

Risk Management in Power Generation Business for Power Business

We are committed to safe power generation facilities.

1. Measurement work

Improvement of facilities safety through advanced disaster prevention for dangerous areas



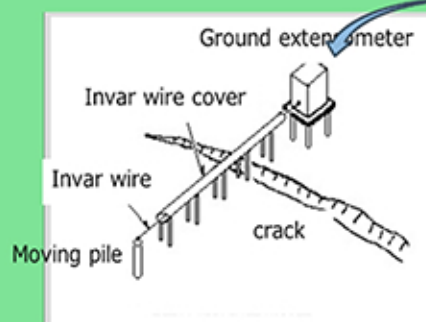
Automatic Observation Instrument System

2. Maintenance

To understand changes in slopes through daily inspections.

3. Monitoring

Automatic observation using observation instruments. Grasping the signs of disaster occurrence



Schematic diagram of ground extensometer

Ground extensometer sensor

PC Monitoring Graph

Automatic Observation Instrument System

Possible hazards for assessment

Climate Change

snow accumulation, avalanches, high waves/storm surges, sea level rise, coastal erosion

Heavy Rain

flooding of rivers, flooding of inland water, landslides, mudslides, landslides, embankment collapse

Earth quake

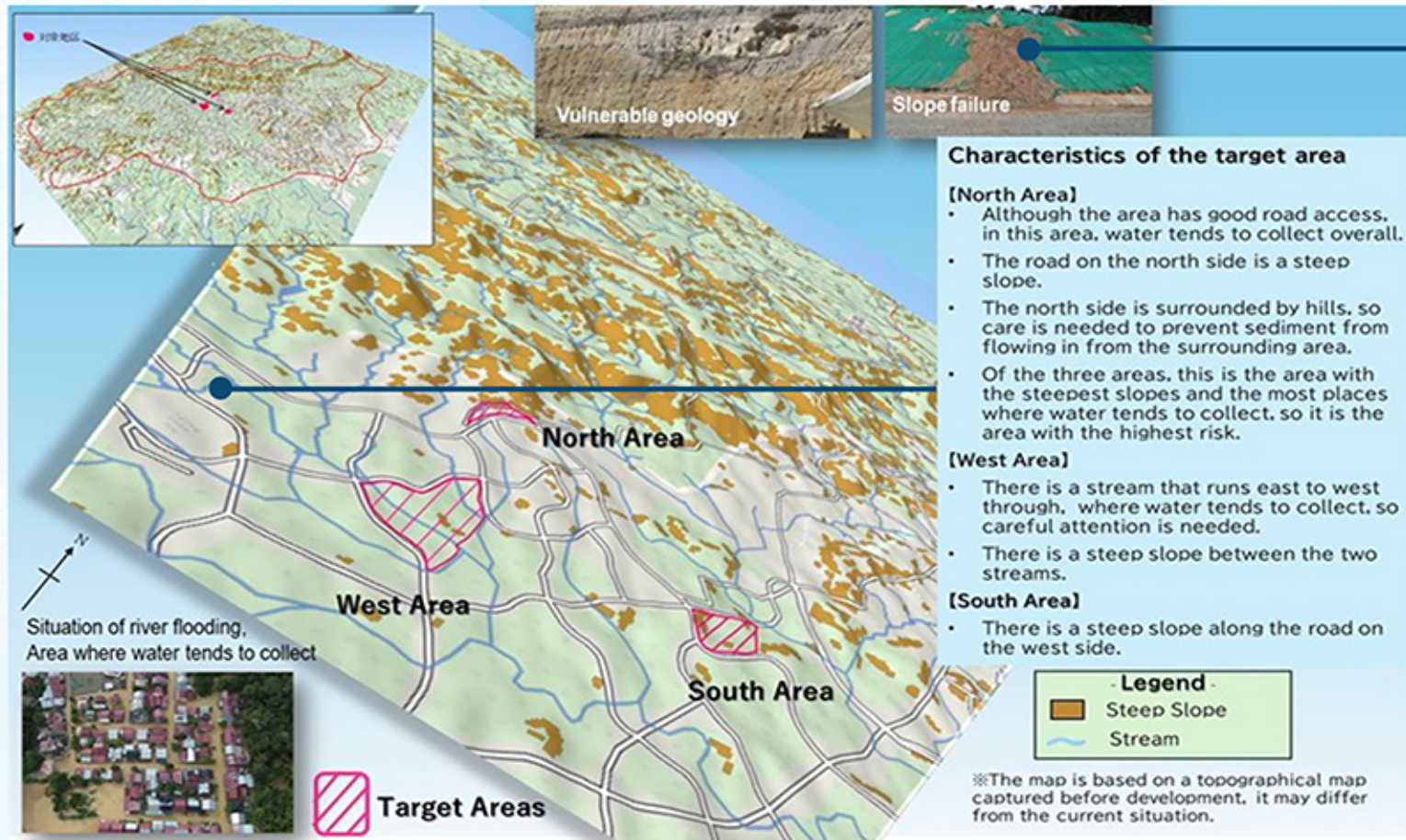
liquefaction, damage to facilities, collapse of buildings and houses, tsunami

Volcanic Eruption

volcanic mudflows, volcanic ash

~ Recommendations for a Safer Development Plan ~

Would you like to choose a safe plot by multi-hazard maps?



Convenient for Comparing Potential Sites

Steep slopes, floods, and other disasters viewed in 3D from above

3D Topographical Map, Multi-hazard Map

What about investing in land with higher asset value by visualizing risks using multi-hazard maps?

Proposals for appropriate land use and development plans considering the local characteristics & topography

**Investment Plan
Avoiding Disaster Risks**

In selecting an investment property, you can choose a property or land with low risks of disasters.

**Optimization
of Investment Plans**

In investment planning, calculating cash flow that considers disaster risk is possible (cost for disaster measures and insurance, etc.).

**Improving the Value of
Investment Properties**

In constructing facilities, creating safe structures resistant to disaster risks is possible. Facilities that take disaster risks into account add value for customers.

Multi-hazard maps enable to create highly secure and resilient development plans considering climate change.

Sunken garden planned in a low-lying area



Characterizing the land to realize the optimal land utilization and investment



landscape-enhanced detention pond



Creating a safe, secure and high-quality lush greenery environment

Terraced housing development avoiding the risk of slope failure

Consulting services for safe land selection and land-use planning based on risk assessment, and infrastructure development

Site Selection

Hazard Risk Survey
- Desk Research
- On-site Inspection
- Risk Assessment for each Property

Land Potential Survey
- Desk/Field Survey
- Transportation access, infrastructure
- Trends in surrounding development
- Legal regulations, urban planning
- Suggestions regarding the development direction with the highest potential

Land Acquisition

Understanding basic land information
- Drone surveying (3D)
- Geological survey
- Understanding planning conditions (risks)

Safe and efficient land use zoning
- Zoning that draws out the full potential of the land while avoiding hazard risks
- Infrastructure planning that supports efficient urban activities

Basic Plan

Master Plan
- Land-use plan
- Infrastructure development plan
- Review of disaster management facilities

Basic Design

Design of disaster management facilities
- Design of disaster management facilities

Infrastructure Development Design
- Land development, roads, lots & blocks, drainage facilities, etc.

Building layout and design

- Architecture, landscape planning and design considering the scenery
- Creation of urban amenities

Multi-hazard Map



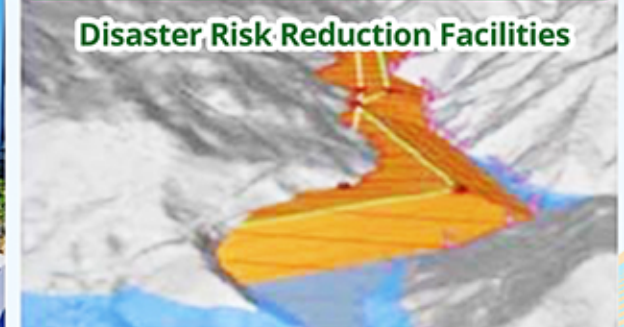
Line-use Zoning



Architecture & Landscape Design



Disaster Risk Reduction Facilities



Possible hazards for assessment

Climate Change

snow accumulation, avalanches, high waves/storm surges, sea level rise, coastal erosion

Heavy Rain

flooding of rivers, flooding of inland water, landslides, mudslides, landslides, embankment collapse

Earth quake

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