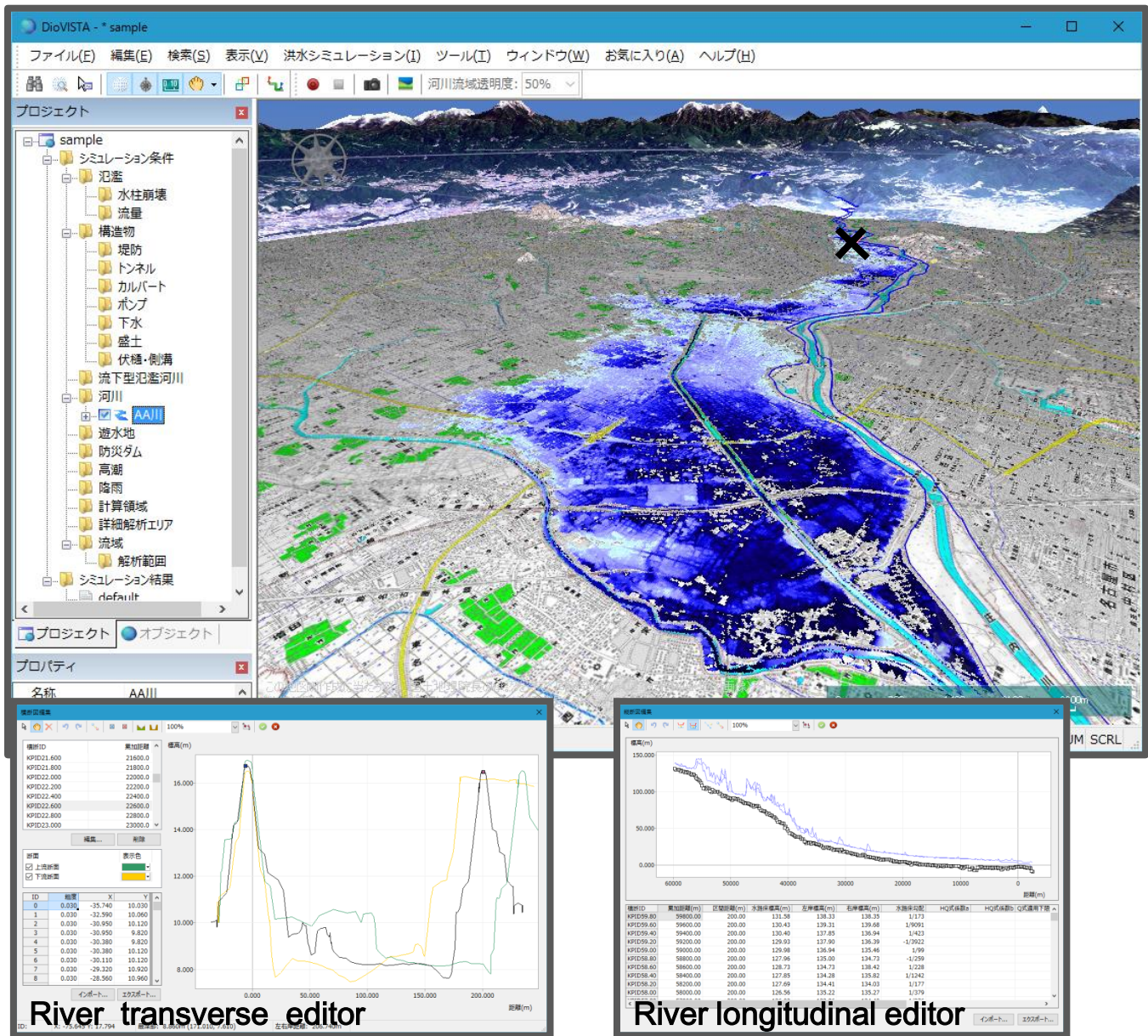


Real time flood simulator DioVISTA/Flood

HITACHI
Inspire the Next



Fast

Fast 2D inundation model based on our original method* Dynamic DDM.

*Patent: JP:4761865, US:7603263, CN:PZL2061008661.4

Automatic

Flood models are automatically generated.

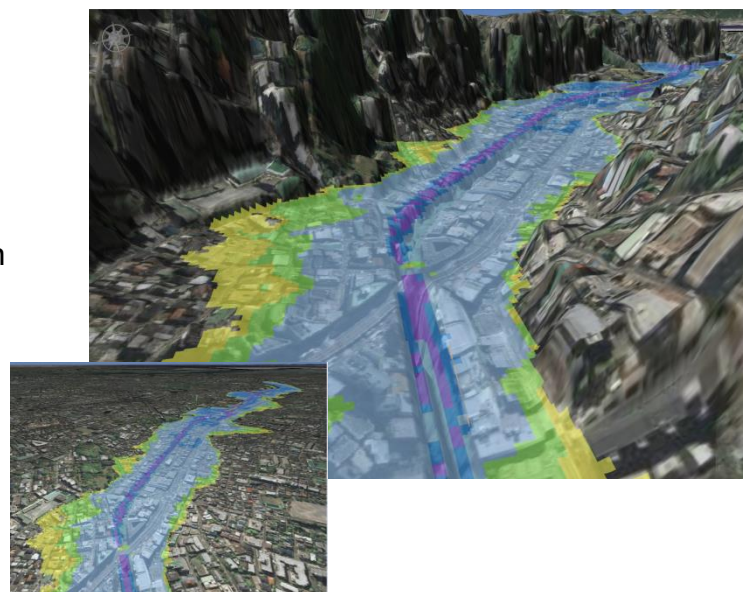
User just clicks on maps to set levee failure point, embankment line, tunnel entrances, etc. Model data (mesh data of topography, roughness, ...) are generated from map data.

Visual

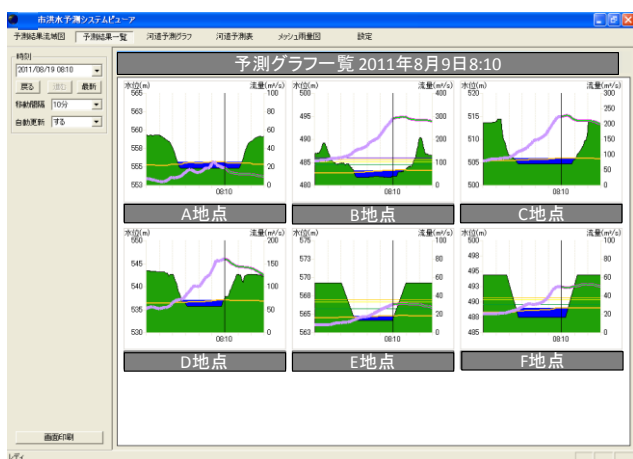
Flooded areas are visualized on map even during calculation.
User can check result immediately.

Applied area

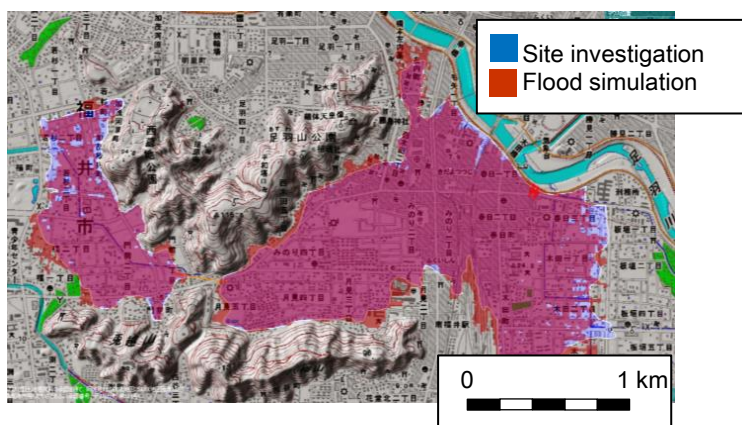
- Civil engineering
 - Flood hazard mapping
 - Analysis of past flood disaster
- Local government
 - Flood forecasting
 - Decision support for issuing evacuation directive/instruction
- General insurance
 - Probable maximum loss estimation
 - Business continuity planning
- Railway & electric power industry
 - Disaster risk assessment
- Research & education



▲ Flooded area with exaggerated vertical scale (x5)



▲ River water level forecasting system



▲ Analysis of past flood disaster (2004, Fukui, Japan)

Main features

Model	Distributed runoff model
	1D unsteady model (river)
	2D unsteady model (floodplain)
Analysis functions	Empirical levee failure model
	Calculation of max flood depth
	Count damaged houses
Input format	Forecasting river level & flooded areas
	KML, shapefile, Text, CSV, ASC, NetCDF, WMV, MPEG-4,
Output format	KML, shapefile, Text, CSV, ASC, NetCDF

System requirement

CPU	Intel® Core™i5 or faster processor
Memory	2 GB
HDD	100 GB
Graphic card	32 MB graphic memory or more
Display	1024 x 768, True Color
Mouse	Wheel mouse One USB port for dongle (license key)
OS	Microsoft® Windows® 7, 8.1, 10 (64 bit)

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