



What is BRIDE:

BRIDE is an ICT Policy Support Programme project within EU. It involves 15 EU partners on the development of spatio-temporal web processes for geospatial application



BRIDE aims at delivering:

- time-aware extension of data models
- application (e.g. Civil Protection)
- value added services for spatio-temporal data



Project coordinator

Fondazione Graphitech
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Project Funding



BRIDE is supported by the CIP & ICT Policy Support Programme of the European Commission

Framework

Competitiveness and Innovation Framework Programme

ICT PSP Theme

6.2 Geographic Information

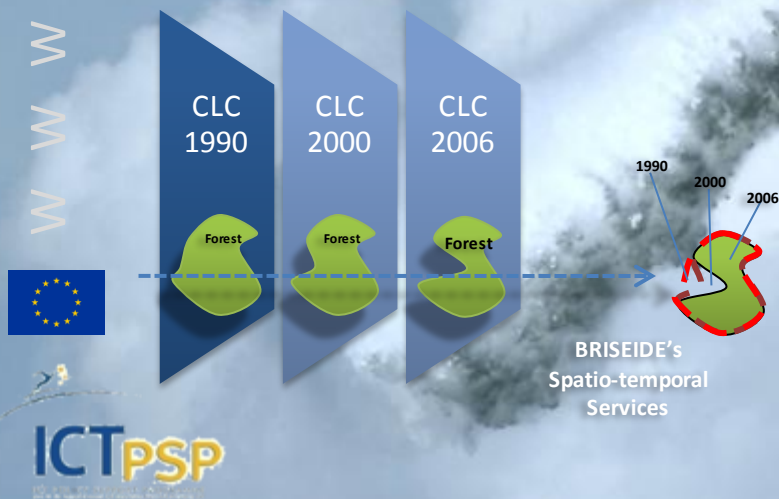
ICT PSP Identifier

CIP-ICT-PSP-2009-3

Duration
30 months

Technology:

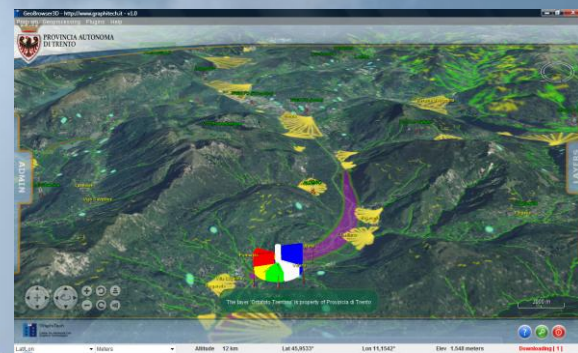
BRISEIDE develops spatial analysis WPSs and integrates them within existing open source frameworks (e.g., WPS extension of Sextante by 52°North). Spatio-temporal processing services are exposed via the web and are made available through compatible WebGIS applications. Newly developed or prototypical OWSs already made available by relevant INSPIRE-related EU projects and exposing standard services such as WMS, WCS and WFS, will be used to provide access to relevant geodatabases, enriched, when needed, with information, extracted from heterogeneous, distributed user operational databases.



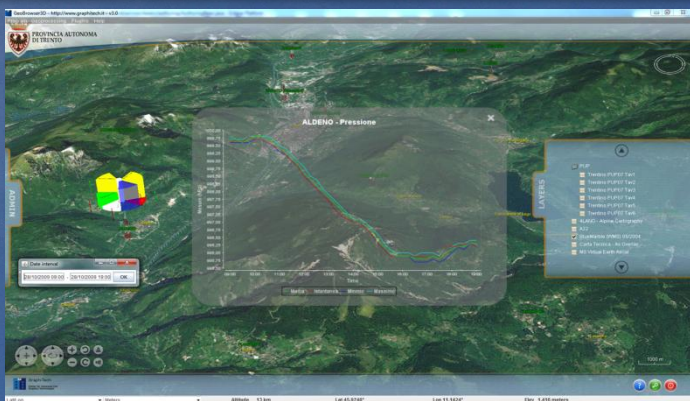
The product:

BRISEIDE aims at Delivering:

1. time-aware extension of data models developed in the context of previous/on-going EU INSPIRE related projects (e.g. in the context of GMES, eContentPlus);
2. application (e.g. Civil Protection) based on the integration of existing, user operational information;
3. value added services for spatio-temporal data management, authoring, processing, analysis and interactive visualisation.



BRISEIDE services are accessible through a multi-platform 3D client, developed by Fondazione Graphitech, invoked from a webpage as a Java WebStart application. The 3D client allows interactive orchestration of spatio-temporal WPSs providing support to chaining of required processing units. This ensures interactive access to datasets and asynchronous processing at the server side.



Access to live sensor data

Application/validation of the product:

BRIDE will be applied, tested and validated within a Civil Protection application context, using the INSPIRE relevant themes, via a chain of stakeholders, data providers, technology partners, and downstream users. The Pilot operational phase will last 12 months and will consider real life events, with extensions in additional domains, being considered and assessed.

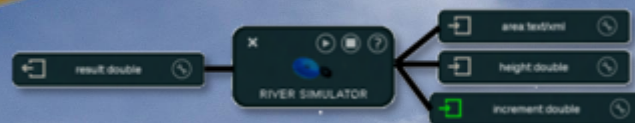
Usage:

An operator logs onto a webpage and activates a 3D web-based client. A number of spatio-temporal processing services exposed by distributed servers are made available through a GUI. The functionalities available as WPS (Web Processing Service) allow application oriented (e.g. Civil Protection) processing, navigation and query of time series. The user can drag & drop processing units and connects them, whilst creating complex compound spatio-temporal analyses.

The system automatically orchestrates sets of processes and invokes relevant services in proper order. The analysis evoked and the results produced are interactively shown on the screen as of the ad hoc spatio-temporal “visualisation” services offered.



Graphical & interactive service orchestration



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You Tube

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