

next generation intelligence management

converting information to intelligence

Analysts are confronted with an information bottleneck of unprecedented proportions.

The omnipresent digital domain has combined with communication technology to enable new forms of information (e-mail, voice-to-data), expanding the incoming information by an order of magnitude.



Analysts must turn this information into intelligence by quickly, thoroughly and precisely scanning up to 5,000 documents a day for relevance to a growing number of threats, route relevant information to appropriate subject matter experts for analysis, and then issue precise, **actionable** intelligence to war fighters or first responders.

Current information management technology can not give the analyst the tools needed to both handle the incoming information and recognize meaningful concepts in the information, concepts that could add up to intelligence.

Microlanguage™ brings next-generation intelligence management tools to the challenge of converting information to **actionable** intelligence. Tools that:

- ▶ **isolate** and extract relevant information from mountains of data
- ▶ dramatically **reduce** the amount of time analysts lose sifting through irrelevant data
- ▶ **eliminate** the need for repeat searches because insufficient quantities of relevant information, or information of little value is retrieved
- ▶ **assemble** discrete and seemingly unrelated bits of information into keys that can unlock plots and preempt threats

These tools are driven by Microlanguage Thematix™ intelligent language processing technology that dramatically improves the precision and recall of content retrieval and knowledge management systems. As an open architecture API, Thematix supports platform OS independence, and is interoperable with other advanced object oriented languages and text tagging technologies (e.g. XML).

threat scenarios emerge

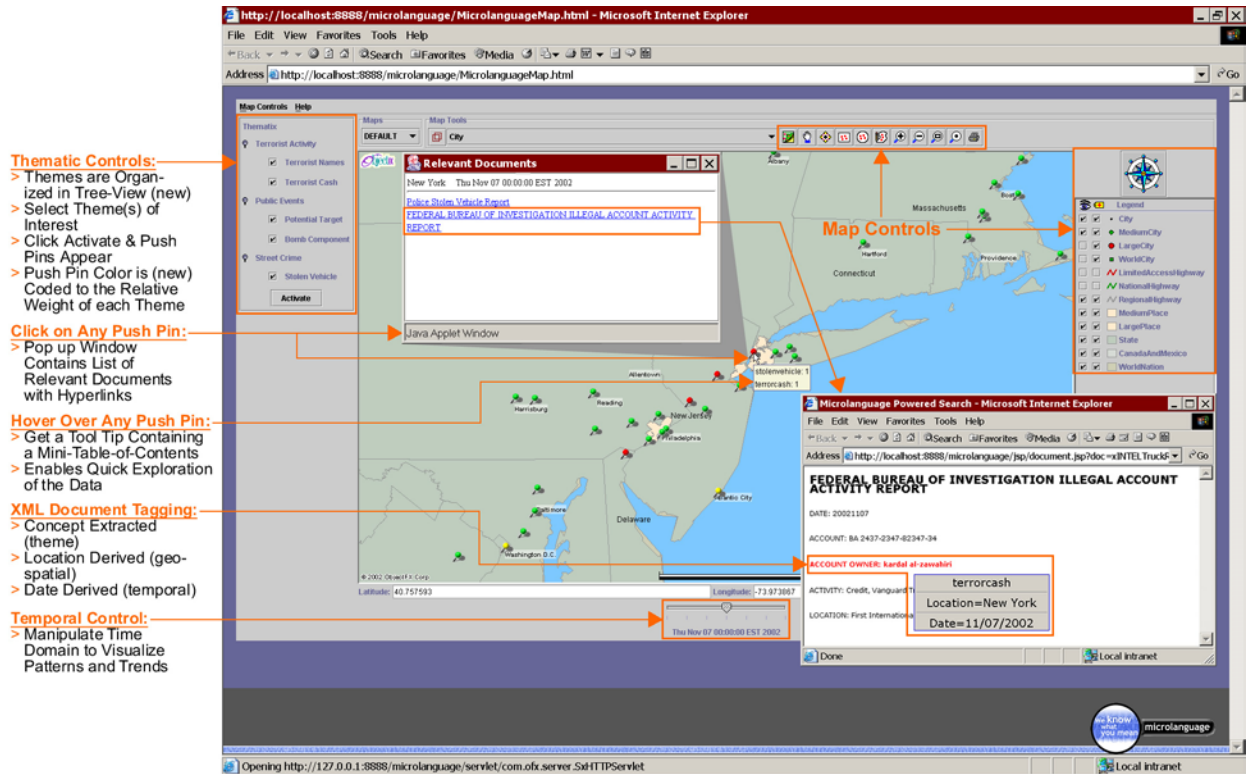
Microlanguage has demonstrated to the intelligence community¹ a Thematix-powered data visualization application that is built on the ObjectFX™ SpatialFX™ Java-based mapping software Platform, and runs on J2EE compliant application servers, including Oracle9iAS. This proof-of-concept application can:

- ▶ **recognize** thematic and conceptual content in disparate document types (articles, e-mails, sitreps, wire service feeds) within a knowledgebase
- ▶ **browse** a knowledgebase in three dimensions:
 1. THEMATICALLY, according to the themes, concepts, or events in the documents;
 2. GEO-SPATIALLY, according to the latitude and longitude of the place that the events in the document occurred; and

¹ Information Sharing and Homeland Security Convention, August 19 – 21, 2002, Philadelphia, PA.

3. TEMPORALLY, according to the time that those events took place.

- ▶ **visualize** patterns and clusters of potentially threatening activities surrounding potential targets, connect the dots, and issue intelligence to first responders and war fighters



about microlanguage

Microlanguage has built its reputation for providing high value solutions on three main strengths: its core technologies, its application development and integration skills, and its commitment to meeting each customer's need for support the first time, every time.

We welcome the opportunity to talk with you about how our technology and skills can serve your language processing and information management needs. For more information or to arrange a personal demonstration of Thematix, please contact:

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