

DMForum – June 7, 2004

Homeland Security Challenges in Data Warehousing and Analytics

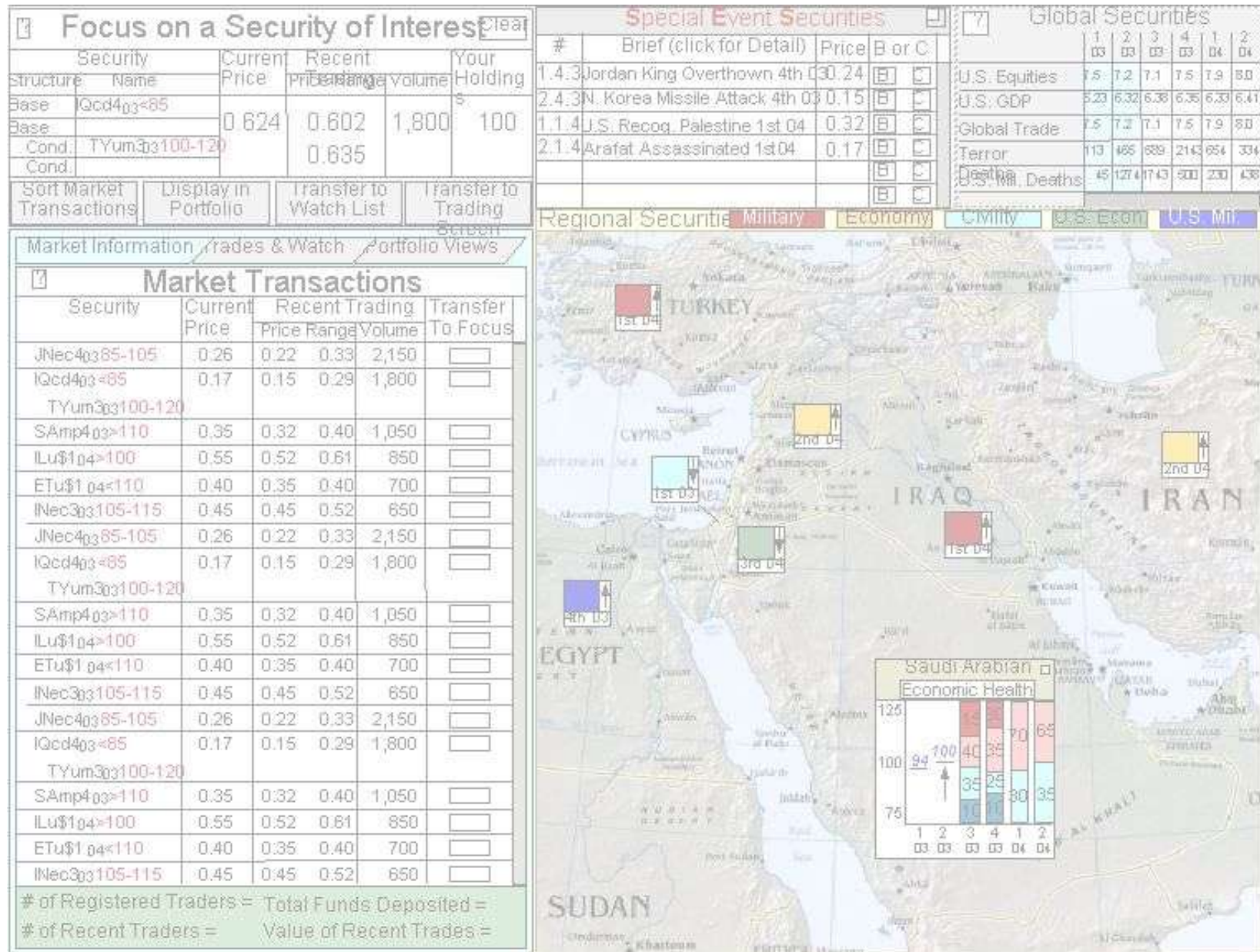
Seth Grimes

Alta Plana Corporation

<http://altaplana.com>

301-270-0795

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DARPA's Policy Analysis Marketplace

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Homeland Security Analytics

Issue **A**: Overthrow of Jordanian Monarchy

Issue **B**:
Iraqi Regime
persists after
One Month of
Hostilities




	A	$\sim A$	Price
B	AB 0.30	$\sim AB$ 0.20	\$0.50
$\sim B$	A $\sim B$ 0.05	$\sim A\sim B$ 0.45	\$0.50
Price	\$0.35	\$0.65	

A and $\sim A$ are futures contracts that span **A**

A $\sim B$ is a derivative of the joint outcome

A|B (*A given B*) is a conditional derivative (a hedge)

DARPA's Policy Analysis Marketplace

Policy Analysis Market


Economist Intelligence Unit


Focus On A Security Of Interest						Special Event Security				Global Security						
Structure	Name	Price	Range	Vol	Holding	#	Name	Price	Focus	Name	1/02	2/03	3/04	4/02	1/03	2/05
Base	10cd3_00_07					1.2.3	Jordan King Overthrown 4th 02	0.23	<input type="radio"/> B <input type="radio"/> C	U.S Equities	5.4	2.3	3.1	3.2	2.9	4.0
Base						1.2.3	N Korea Missile Attack 4th 03	0.23	<input type="radio"/> B <input type="radio"/> C	U.S GDP	5.5	2	3.2	3.2	2.9	4.0
Cond		0.26	0.26	0.26	4.2	1.2.3	U.S Recog. Palestine 1st 04	0.23	<input type="radio"/> B <input type="radio"/> C	Global Trade	5.6	3	3.3	3.2	2.9	4.0
Cond	TYum0_00_72-05					1.2.3	Arafat Assassinated 1st 04	0.23	<input type="radio"/> B <input type="radio"/> C	U.S Mil. Deaths	5.7	6	3.4	3.2	2.9	4.0
										Terror	5.8	2.3	3.2	3.2	2.9	4.0

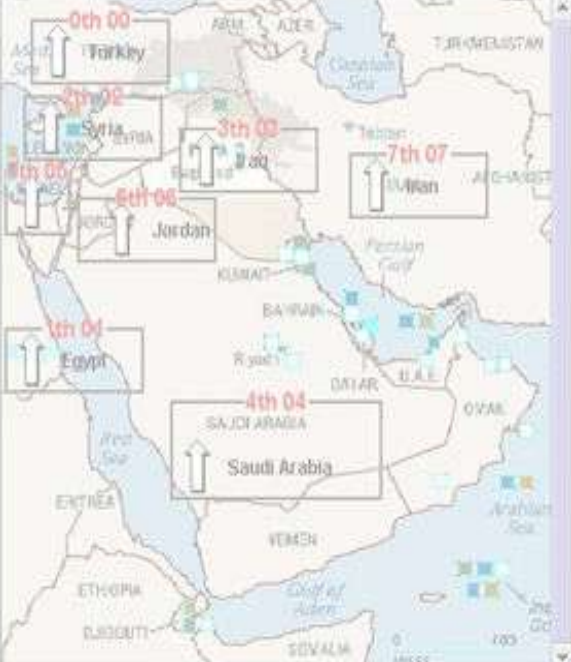
Sort Market Transaction Transfer To Watch List

Display In Portfolio Transfer To Trading Clear

Market Transaction

Market Information	Trades & Watch	Portfolio Views		
Contract	Current Price	Price Range	Volume	Focus
10cd1_00_25				<input type="checkbox"/>
TYum4_00_08-54	0.26	0.22 - 0.33	2,333	<input type="checkbox"/>
10cd1_01_19				<input type="checkbox"/>
TYum0_02_01-15	0.26	0.22 - 0.33	2,333	<input type="checkbox"/>
10cd0_00_17				<input type="checkbox"/>
TYum0_03_56-75	0.26	0.22 - 0.33	2,333	<input type="checkbox"/>
10cd1_00_51				<input type="checkbox"/>
TYum3_00_05-00	0.26	0.22 - 0.33	2,333	<input type="checkbox"/>
10cd3_00_21				<input type="checkbox"/>
TYum0_03_08-52	0.26	0.22 - 0.33	2,333	<input type="checkbox"/>

Regional Security



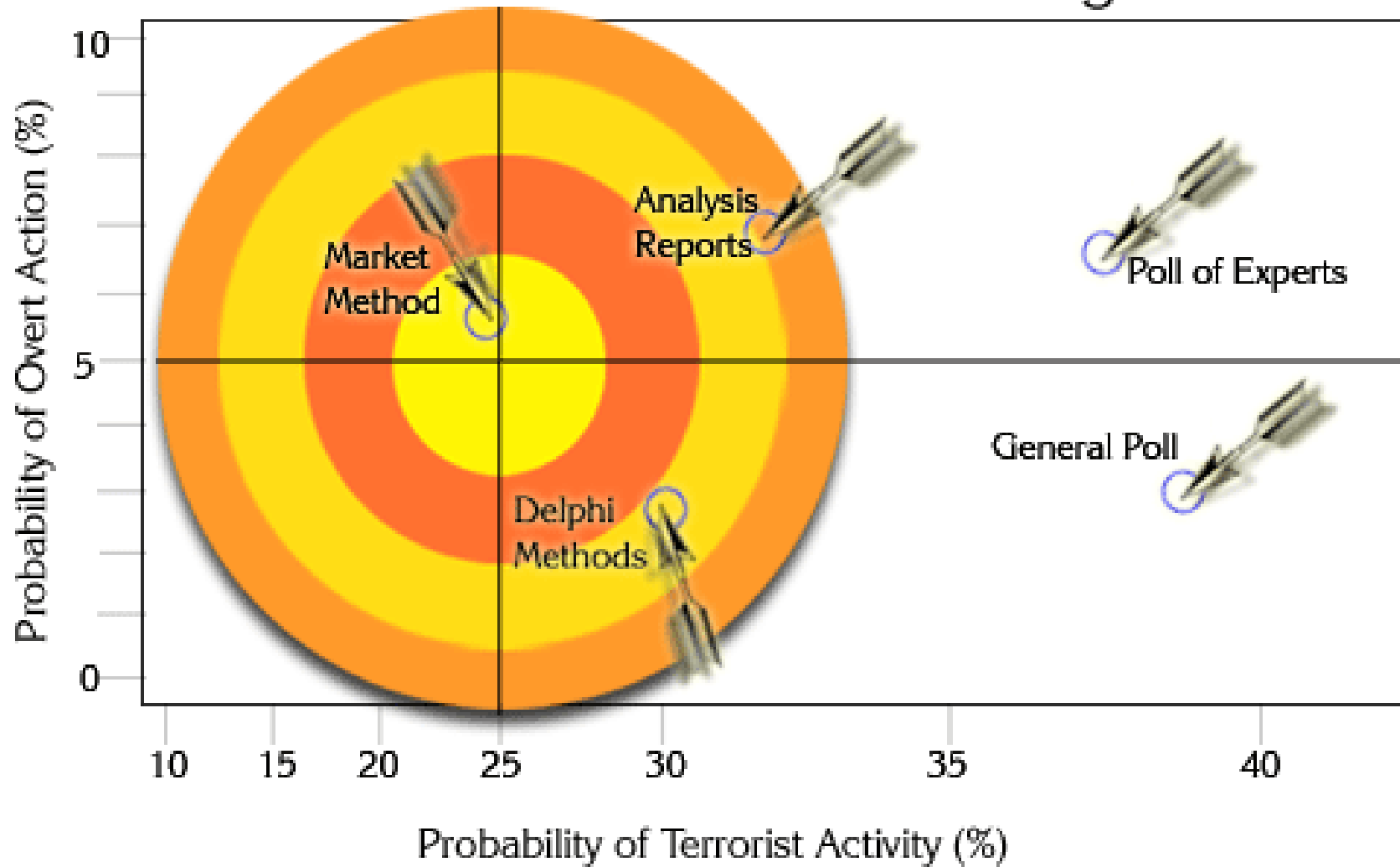
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Predicting Hostilities



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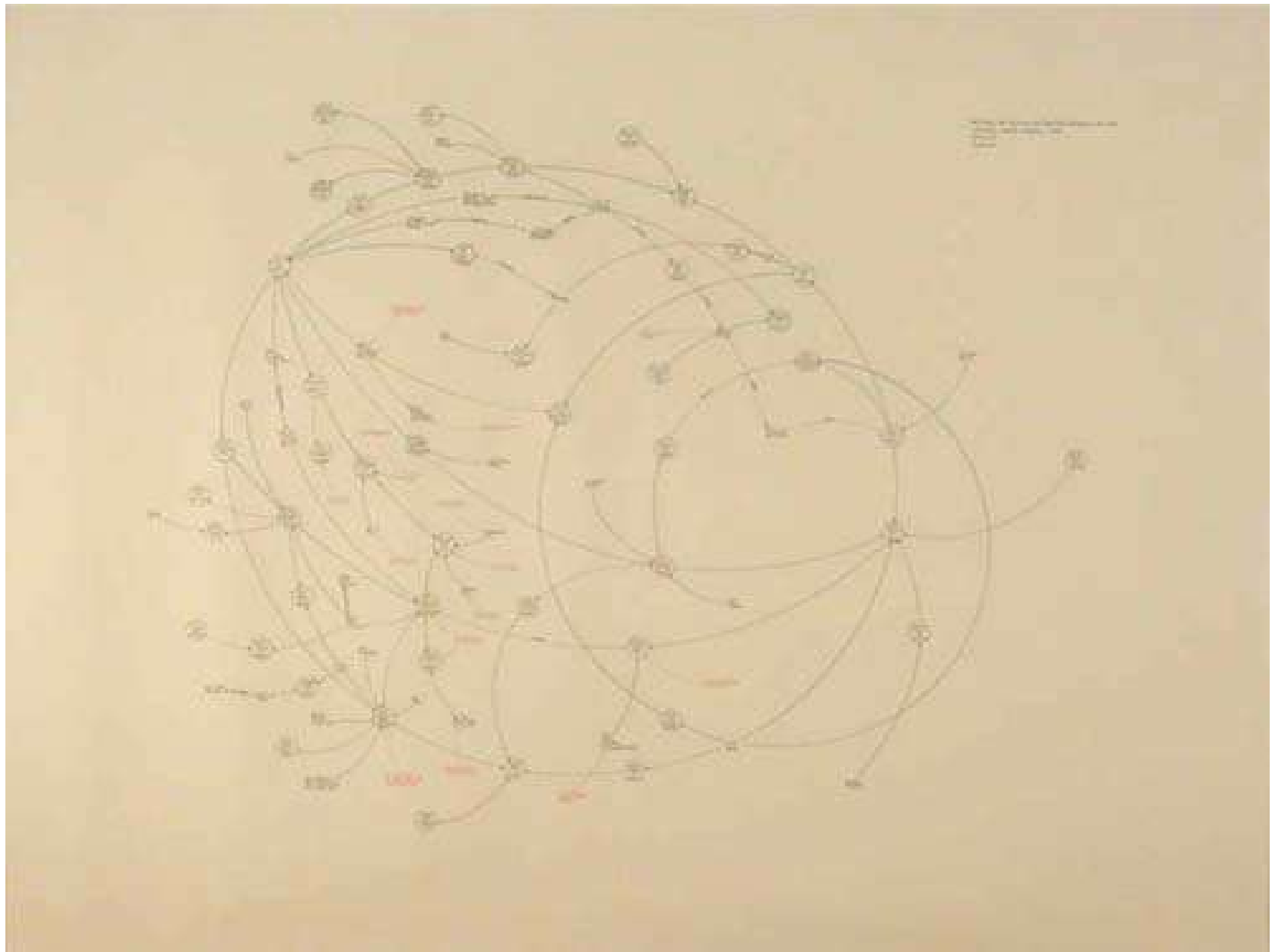
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Mark Lombardi

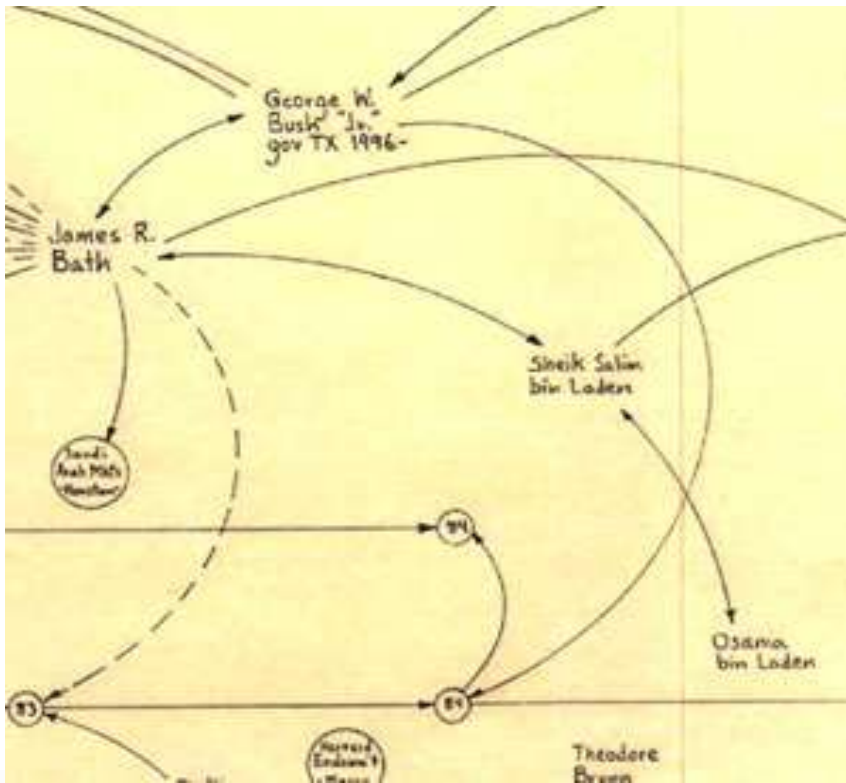
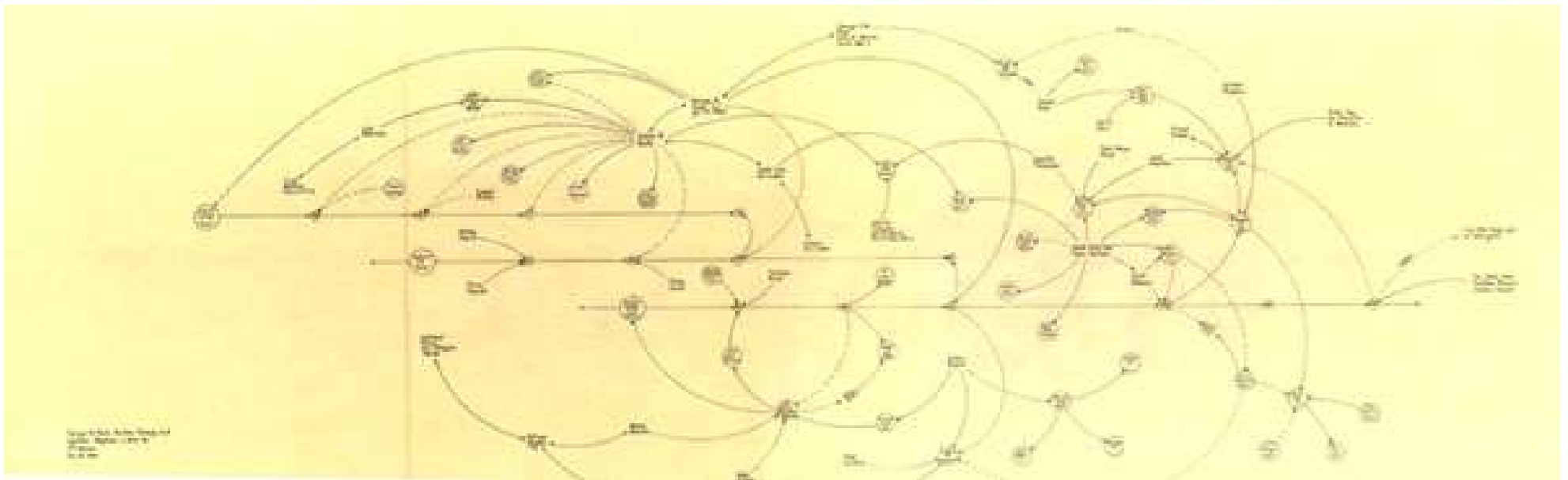
bill clinton, lippo group and china ocean shipping co. aka COSCO

little rock-jakarta-hong kong c.1990s (5th version), 1999

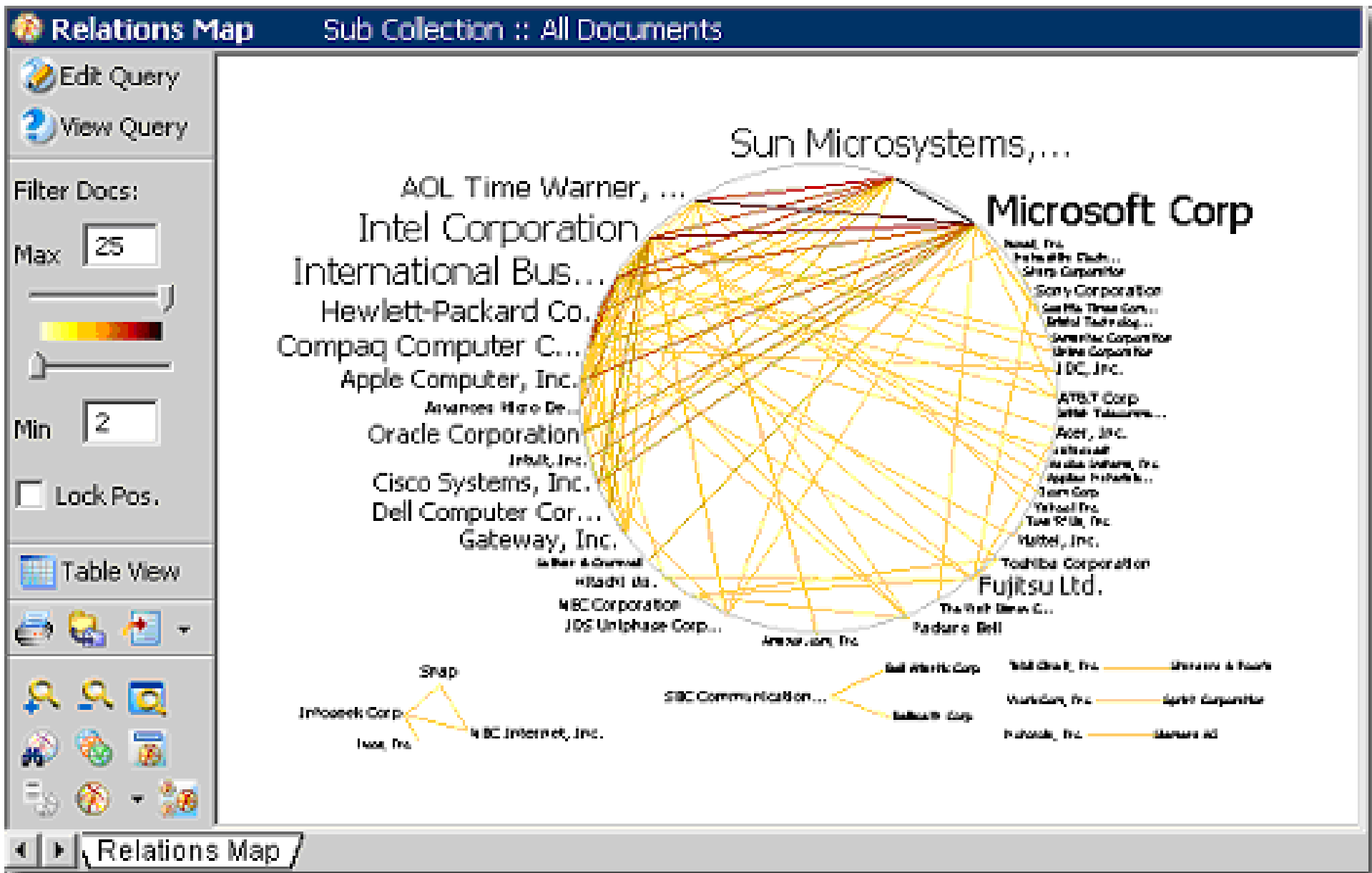
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Mark Lombardi
 george w. bush, harken energy, and
 jackson stevens c.1979-90, 5th
 version, 1999: full and detail



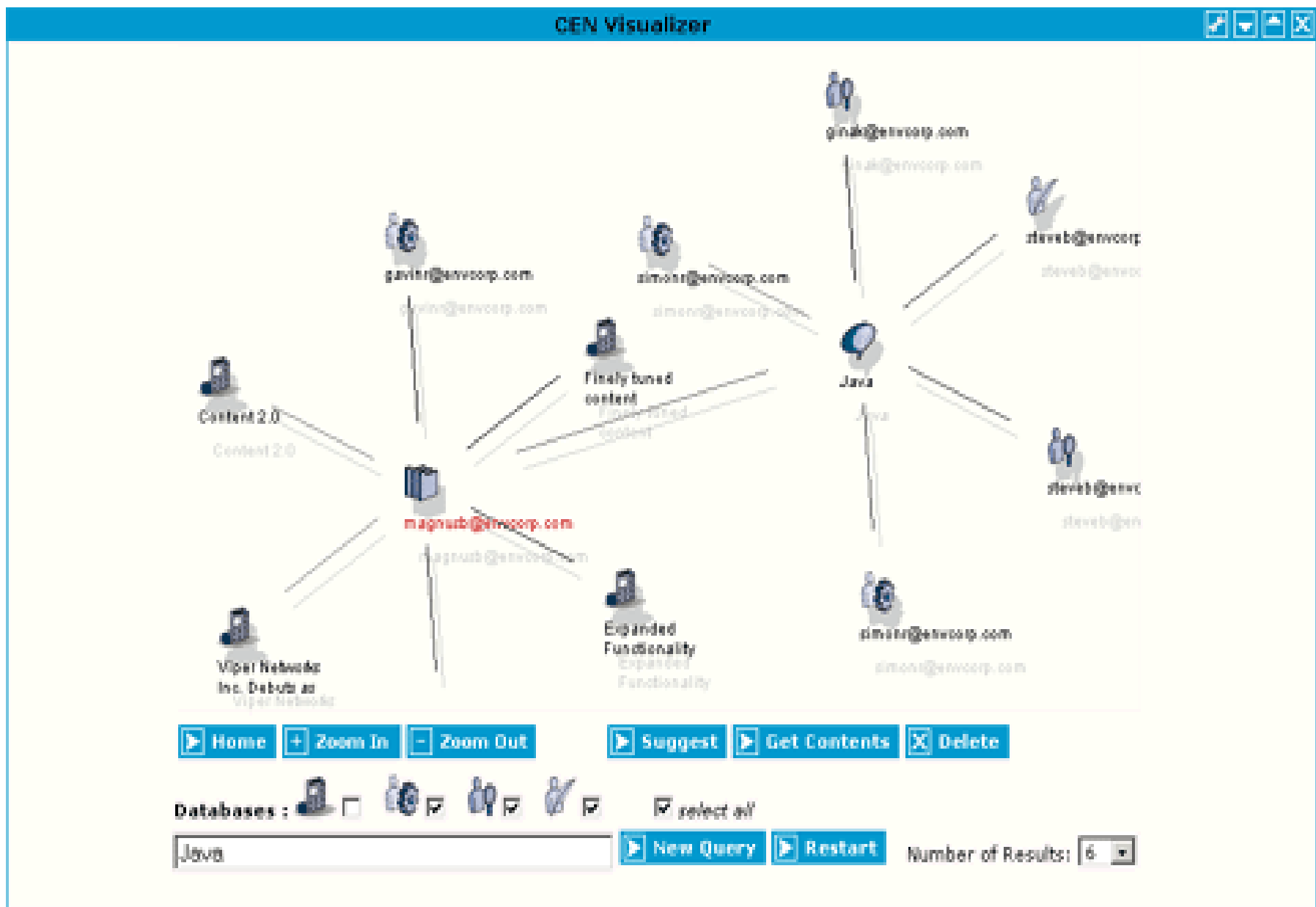
ClearForest

“ClearResearch presents a single-screen view of complex inter-relationships, enabling users to view news and research content in context.”

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“Autonomy's Collaboration and Expertise Networks – CEN ... enables organizations of any size and complexity to automatically discover, visualize and effectively manage a cohesive community, driving individuals and teams of people effectively at every stage of the value chain towards their goals.”

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Your Travel Plans

- + full legal name
- + date of birth
- + home address
- + phone number

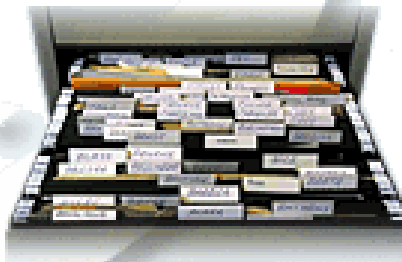


**Airlines,
Travel Agencies,
Reservation
Systems**

**Federal Government,
Homeland Security**

**Identity Verification,
Federal Records Check**

- criminal background check
- outstanding warrants
- potential link to terrorism?
- ???



**Private Companies,
Data Providers**

**Threat
Assessment
Rating**



CAPPS-II

... borrowed from a protest site, Alaska Freedom

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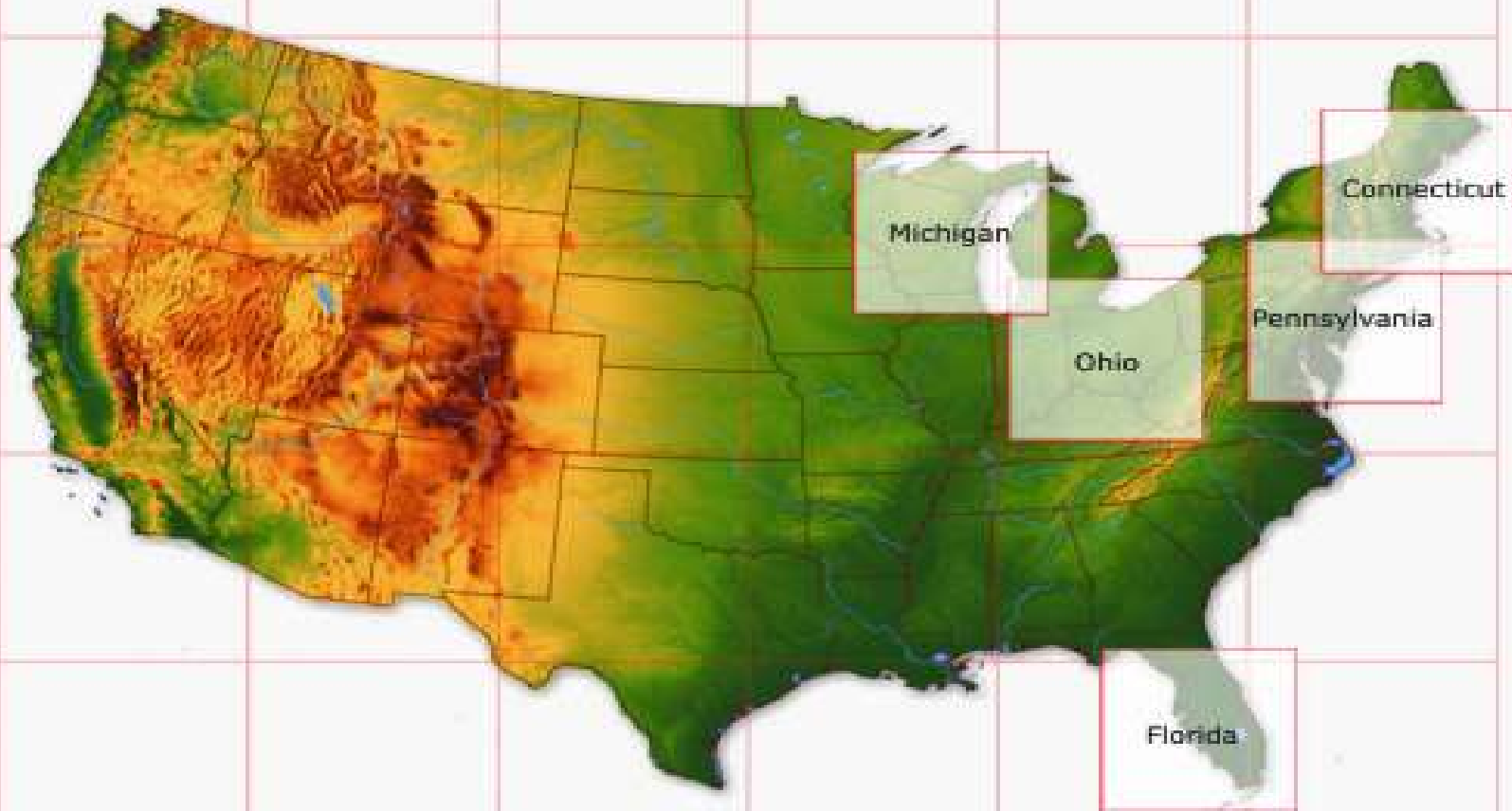
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M A T R I X

Multistate Anti-Terrorism Information Exchange

A Pilot Information Sharing Project



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