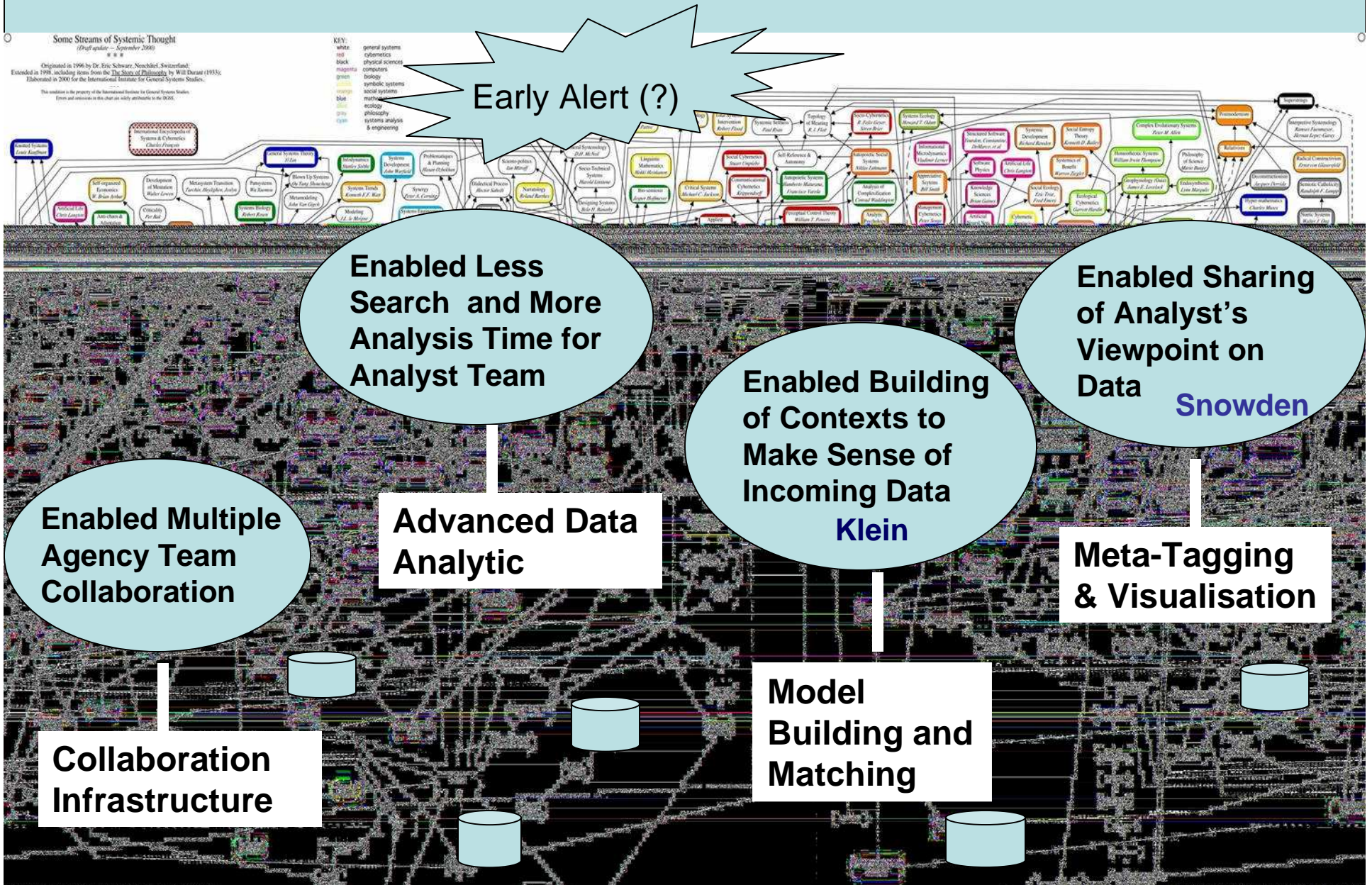


Risk Assessment and Horizon Scanning Initiative (RAHS)

The RAHS System Enabler Principle



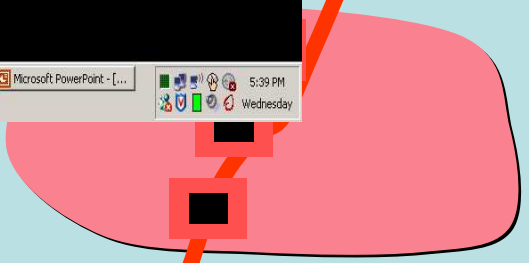
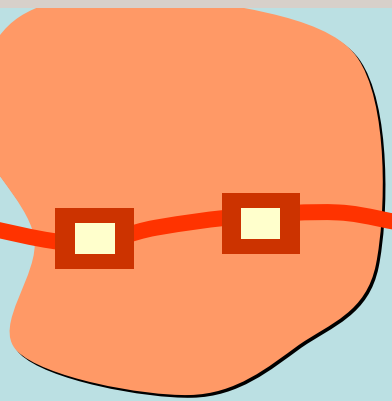
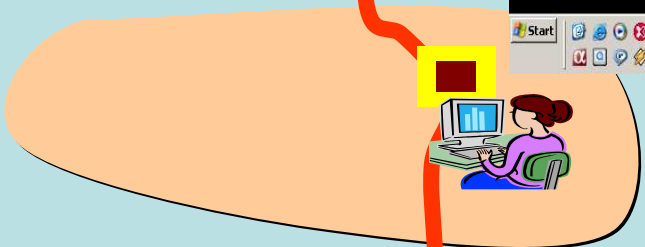
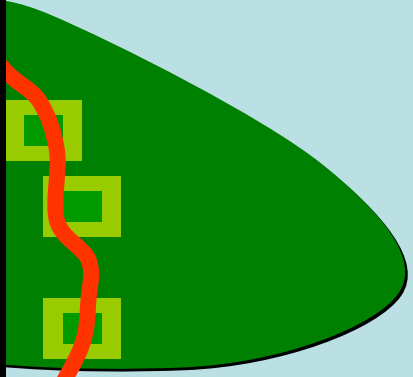
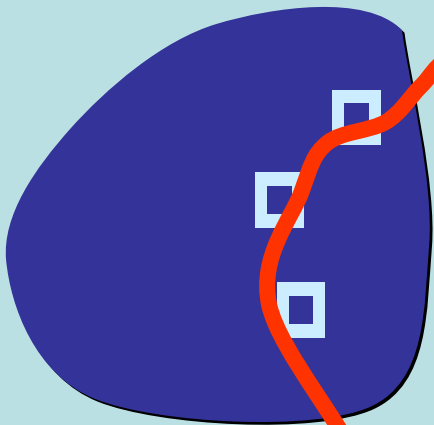
RAHS Architecture and Data Analytic Service

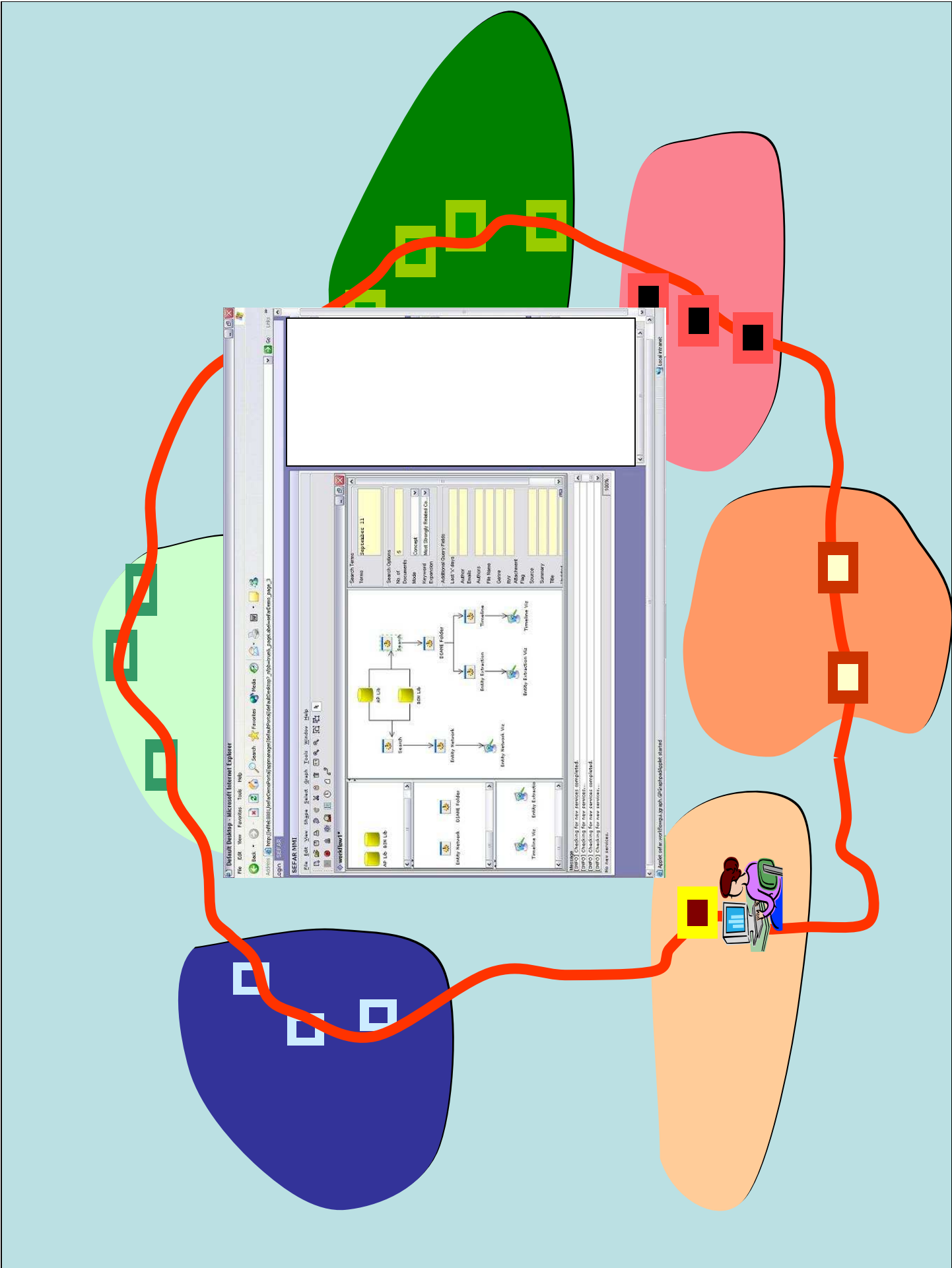
One-Stop Service Launch Bar

The screenshot shows the RAHS Launch Bar application window. It features a menu bar (File, Edit, Window, Help) and several panes: Models, Monitors, Tools, and Working Groups. The Working Groups pane contains a table with the following data:

Name	Description	Expiration
MOHLatest	Daily Surveillance Project Folder	
tstMonitor		
Public		
IMF-WB		
Israel-Hizbollah	Case study	2006-12-31
JI Activities	Monitor and analysis on JI Activities	

Below the table is a Buddy List section with a 'Friends' group containing an 'admin' user. The taskbar at the bottom shows the Start button, Windows Task Manager, RAHS Launch Bar, RAHS - Orchestrator, and Microsoft PowerPoint. The system tray displays the time as 5:39 PM on Wednesday.





ORCHESTRATOR

Default Desktop - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://effel:8881/sefarDemoPortal/oppmanager/defaultPortal/defaultDesktop?_nfpb=true&_pageLabel=sefarDemo_page_3

login: SEFAR

SEFAR MMI

File Edit View Shape Select Graph Tools Window Help

workflow1*

```
graph TD; AP[AP Lib] --> S1[Search]; BIN[BIN Lib] --> S1; S1 --> S2[Search]; S2 --> DF[DIANE Folder]; DF --> EN[Entity Network]; EN --> ENV[Entity Network Viz]; DF --> EE[Entity Extraction]; EE --> EEV[Entity Extraction Viz]; DF --> T[Timeline]; T --> TV[Timeline Viz];
```

Search Terms: Terms: September 11

Search Options: No. of Documents: 5; Mode: Concept; Keyword Expansion: Most Strongly Related Co...

Additional Query Fields: Last 'x' days; Author; Emails; Authors; File Name; Genre; RIV; Attachment; Flag; Source; Summary; Title

Entity Extraction Visualiser

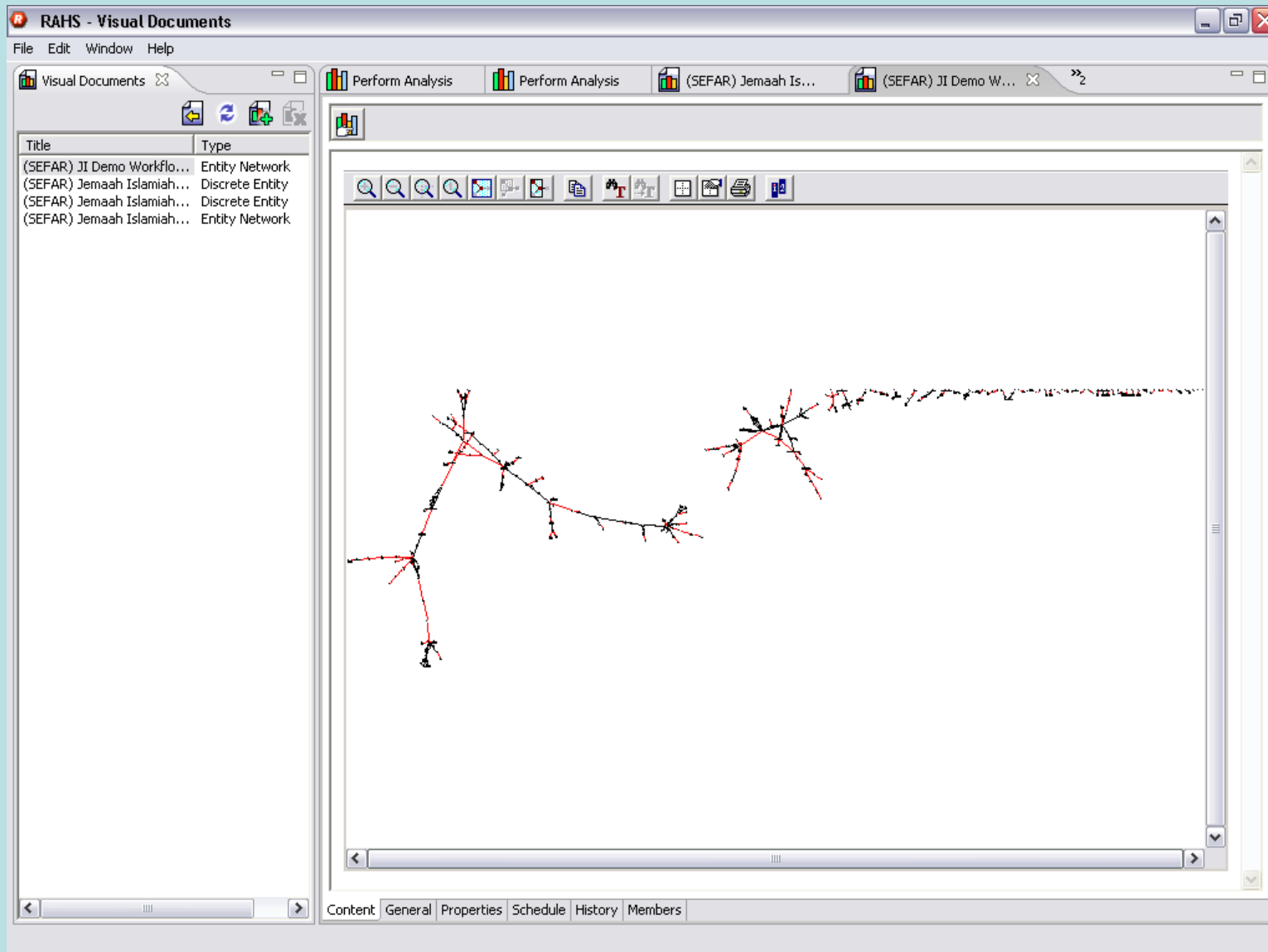
Count per Entity

Entity	Count
New York Times	1
H. Rumsfeld	1
Bush	1
Osama	1
TV E-mail	1
Science & Space	1
News Resources	1
Cable News Network	1
White House 2001	1
Ball	1
Osama	1
New York	1
2003	1
AP	1
Laden	1
Taliban	1
Massood	1
town	1

Entity Network Visualiser

Timeline Visualiser

Conducting Further Analysis – Data Analytic Service



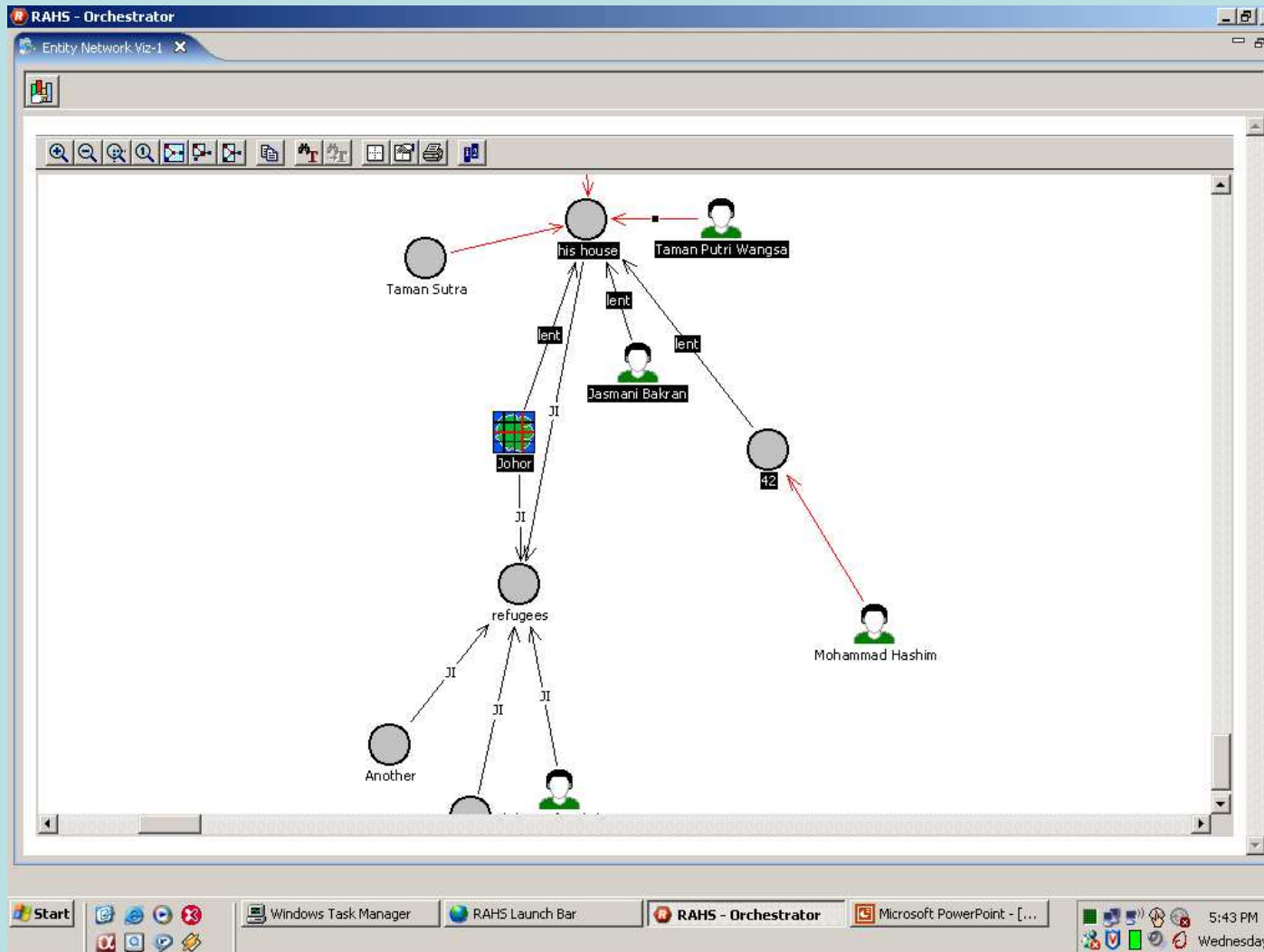
Conducting Further Analysis – Data Analytic Service

The screenshot displays the RAHS - Visual Documents application window. The title bar reads "RAHS - Visual Documents". The menu bar includes "File", "Edit", "Window", and "Help". The toolbar contains various icons for file operations and analysis. The main window is divided into several panes:

- Left Pane:** A table with columns "Title" and "Type". It lists several documents, including "(SEFAR) JI Demo Workflo..." and "(SEFAR) Jemaah Islamiah...".
- Top Pane:** A toolbar with icons for search, zoom, and other functions.
- Find Text Dialog:** A modal dialog box with the following sections:
 - Search Options:** Includes a "Find:" dropdown menu with "ibrahim maidin" selected. There are checkboxes for "Complex Searching", "Find Items Not Matching", and "Search Cards" (checked). Radio buttons for "Regular Expressions" and "Wildcards" are present.
 - Coverage:** A list of search criteria with checkboxes. "Card Description" is checked, while others like "Description of Date & Time", "Description", "Source Reference", "Source Type", "Card Summary", "Card Source Reference", "Card Source Type", and "Card Description of Date & Time" are unchecked.
 - Search Area:** Radio buttons for "Entities and Links" (selected), "Entities Only", and "Links Only". Checkboxes for "Reveal Hidden" and "Selection Only" are also present.
 - Action:** Radio buttons for "Edit First", "Select First", "Select All" (selected), "Add To Selection", "Remove From Selection", and "Select Sibling Links".
- Bottom Pane:** A navigation bar with tabs for "Content", "General", "Properties", "Schedule", "History", and "Members".



Conducting Further Analysis – Data Analytic Service



Perspective Sharing through Meta Tagging and Visualization

Data Annotation Service

Data

Meta-Tag
Agreed by
Network

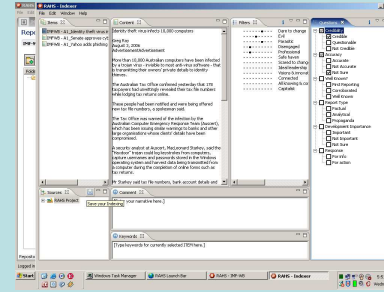
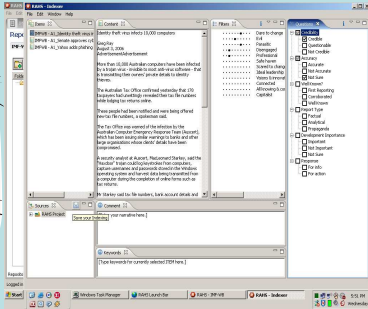
The screenshot displays the RAHS - Indexer application interface. The main window is divided into several panes:

- Items:** A list of items including "IMFWB - A1_Identity theft virus in", "IMFWB - A1_Senate approves cyb", and "IMFWB - A1_Yahoo adds phishing".
- Content:** A text pane showing a news article titled "Identity theft virus affects 10,000 computers" by Greg Ray, dated August 3, 2006. The article discusses a trojan virus that has infected over 10,000 Australian computers and the Australian Tax Office's discovery of 178 taxpayers who inadvertently revealed their tax file numbers.
- Filters:** A list of filters for assessing the content, such as "Dare to change", "Evil", "Parasitic", "Disengaged", "Professional", "Safe haven", "Scared to change", "Ideal leadership", "Visions & innovation", "Connected", "All knowing & corrupt", and "Capitalist".
- Questions:** A tree view of questions for tagging the content, including "Credibility" (with sub-items like "Credible", "Questionable", "Not Credible"), "Accuracy" (with sub-items like "Accurate", "Not Accurate", "Not Sure"), "Well Known?", "Report Type" (with sub-items like "Factual", "Analytical", "Propaganda"), "Development Importance" (with sub-items like "Important", "Not Important", "Not Sure"), and "Response" (with sub-items like "For info", "For action").
- Assessment:** A section with a "Comment" field containing the text "Save your indexing" and a "Keywords" field with the instruction "[Type keywords for currently selected ITEM here.]".
- Free Form Tag:** A section for entering free-form tags.

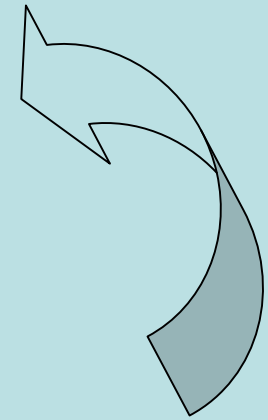
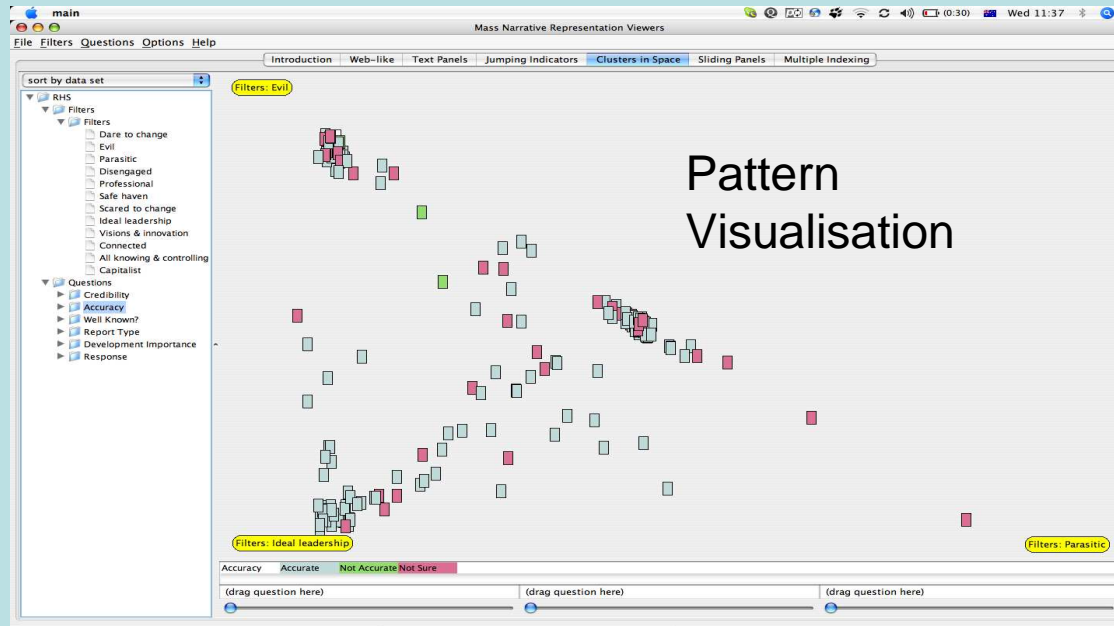
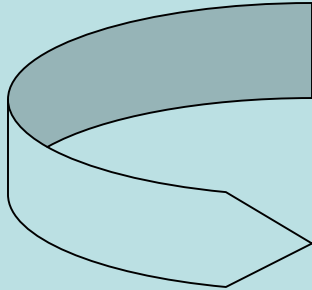
The Windows taskbar at the bottom shows the Start button, Windows Task Manager, RAHS Launch Bar, and RAHS - Indexer application. The system tray indicates the time is 5:51 PM on Wednesday.



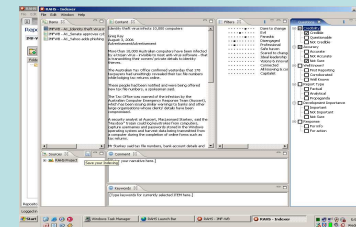
Collaborative Annotations



Automated
Meta-
Tagger



“We tend to perceive what we expect to perceive”
Psychology of Intelligence Analysis
Richards J.Heuer, Jr



Model Building and Matching

Data and Model

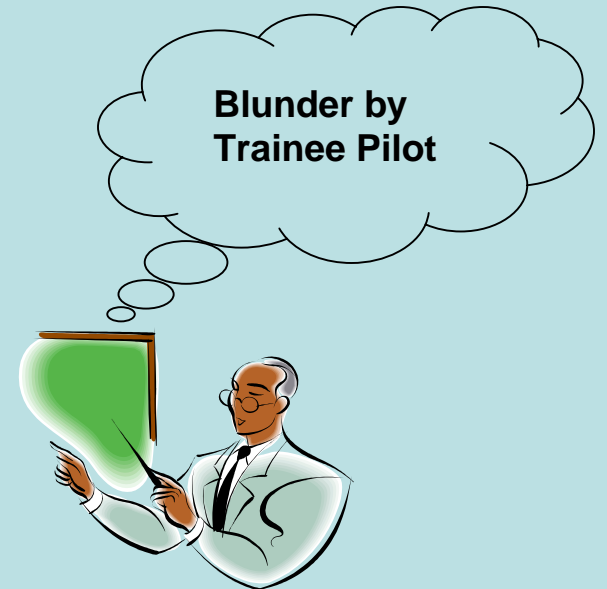
**Terrorist
Attack
Imminent**



Overflight
Activities
Around Nuclear
Power Plant

Incidents
immediately
after 911

**Blunder by
Trainee Pilot**



Why the Different Hypothesis ?

- Experience Level

Data Structuring allows analyst team to generate model of past events and that of plausible future

Building and Exploiting System Map Service

Properties x

General Options Attachments Query Monitor Results

Add Option

Hizb Military Hostility (against Isr)

	Extreme	High	Minimal	Moderate
None	-1	-1	-1	-1
Minimal	-1	-1	1	-1
Moderate	-1	-1	1	1
High	-1	1	1	1

Apply



Morphological Analysis

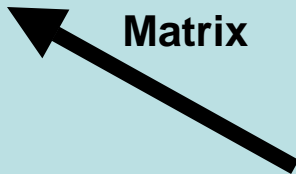
RAHS - Scenario Builder

Scenario Option Space

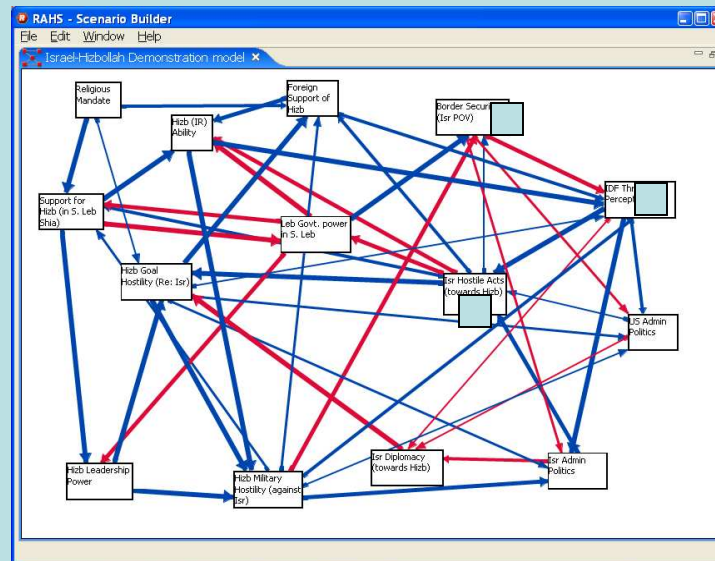
Influence Map Feedback Loops

High Military	High Goal Hostility	EDF Threat Perception	Religious Mandate	High (IR) Ability	Isr Diplomacy	Isr Admin Politics	US Admin Politics	Border Security	High Leadership	Isr Hostile Acts	Leb Govt. power in S.	Support for Hizb (in S. Leb)	Value	Color	Name
None	None	Minimal	None	Cleared	None	High-Dovish	High-Dovish	Chaos	Non-existent	None	Non-existent	None	0.4303	Green	Lebanese g
Minimal	Minimal	Moderate	Anti-Israel	Partially disarmed	Minimal	Min. Dovish	Min. Dovish	Minimal	Ineffectual	Minimal	Ineffectual	Minimal	0.4303		
Moderate	Moderate	High	Moderate	Moderate	Moderate	Min. Hawkish	Min. Hawkish	Moderate	Respected	Moderate	Respected	Moderate	0.4303		
High	High		High	High	High	High Hawkish	High	Complete control	High-Circle	High	Complete control	High	0.4303		
Extreme	Extreme		Fully equipped			Extremely Safe		Extreme Invasion	Extreme Invasion	Extreme	Extreme	Extreme	0.4303		

Consistency Matrix

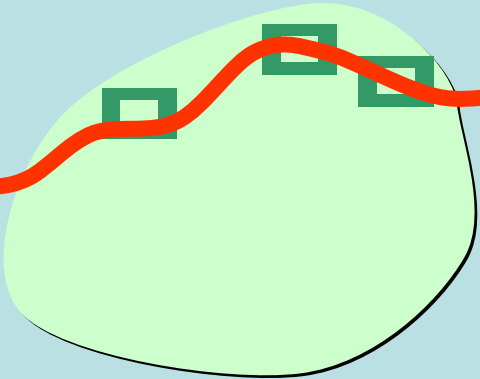
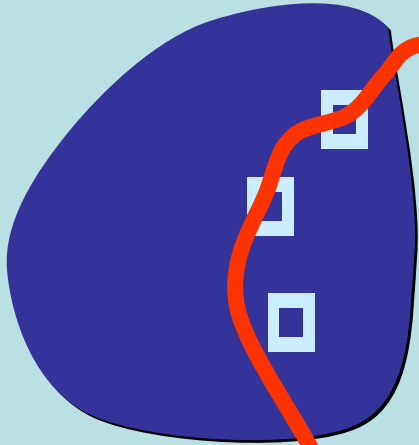


Lock Cell with Current Data



RAHS is a network:

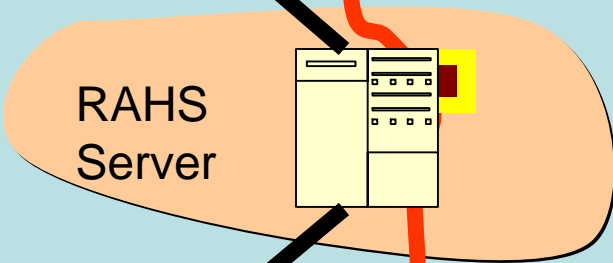
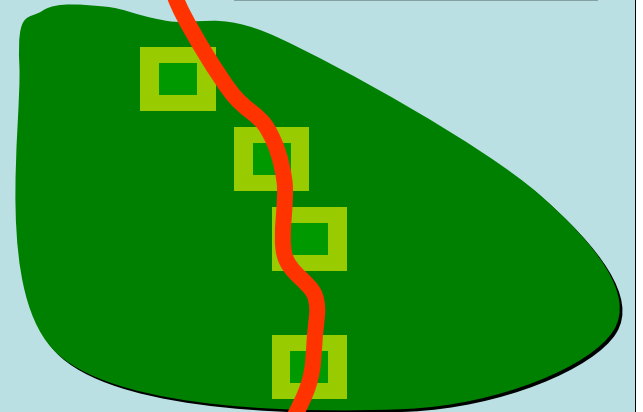
- Agencies
 - People
 - Tools
 - Data



RAHS Architecture

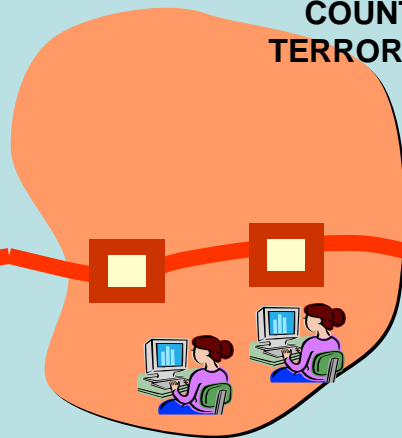
Service Oriented Architecture
Collaboration Services
One-Stop Service LaunchBar

Perspective
Sharing
Capability



**RAHS
Server**

**Data Analytic and
Structuring
Capability**



**COUNTER
TERRORISM**



**STRATEGIC
PLANNING**

**RAHS
Clients**

Thank You