



# Achieving Information Dominance: Unleashing the Ozone Widget Framework

**19<sup>th</sup> International Command and Control Research Symposium  
“C2 Agility: Lessons Learned from Research and Operations”  
Track: 3**

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Co-Authors: Mr. Brent Brockman, Ms. Amanda George

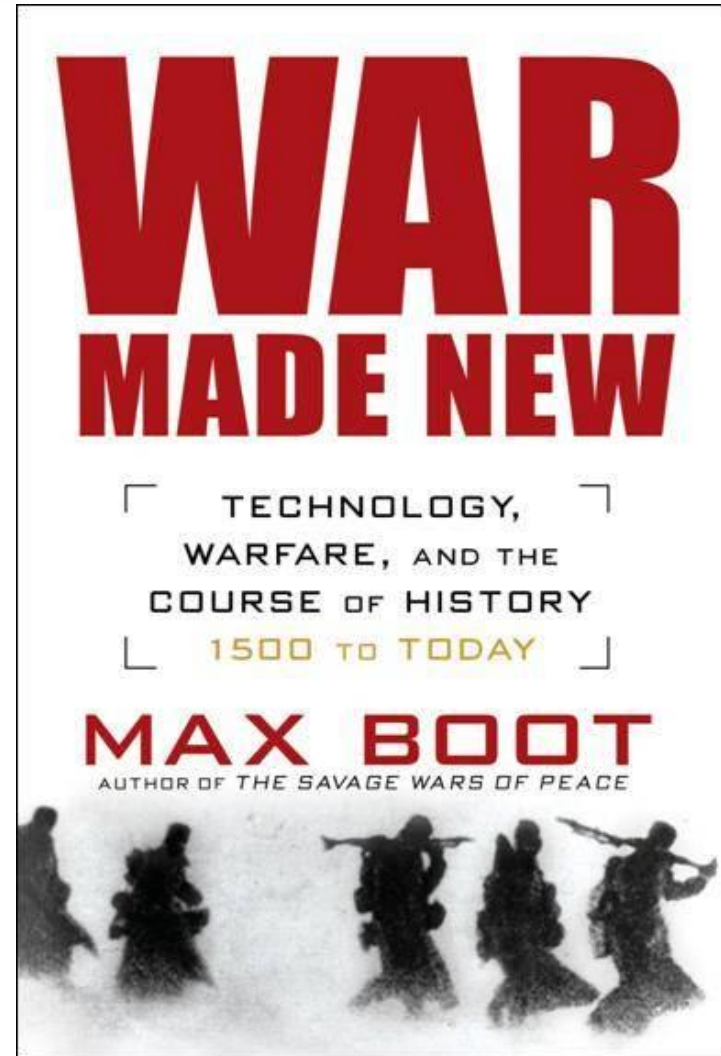
Ms. Wanda Lam, Ms. Analiza Lozano

Ms. Rita Painter, Mr. Glenn Tolentino

SPAWAR Systems Center Pacific

“My view is that technology sets the parameters of the possible; it creates the potential for a military revolution.”

Max Boot  
*War Made New*



# Overview

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- ▼ Information as a Weapon
- ▼ Data Flow Issues
- ▼ SWIF Design
- ▼ SWIF Governance Process
- ▼ SWIF Widgets Demonstration
- ▼ Way Forward

# Information as a Weapon

“The JIE is essential to bringing to bear the power of the Enterprise across the strategic, operational, and tactical levels. A standard, unified information environment is necessary to meet the operational and security requirements of modern joint military operations.”

Enabling the Joint Information Environment (JIE)  
Defense Information Systems Agency  
March 6, 2014

# The Importance of the Joint Information Environment

- ▼ From GIG...to....to...to the Joint Information Environment (JIE)
- ▼ DISA is the lead agency for JIE development
- ▼ The JCS chairman and each of the service chiefs have endorsed JIE as a military imperative
- ▼ In execution, there are three lines of operation: governance, operations, and technical synchronization
- ▼ The first increment of JIE is being implemented in Europe, the next increment to be deployed will be in the Pacific region

“Information Dominance is about warfighting. It is about warfighting in the information age.”

Vice Admiral Ted Branch  
Deputy Chief of Naval Operations  
for Information Dominance  
March 6, 2014

# The U.S. Navy's Strategy for Information Dominance

- ▼ As the 1990's concept of Network Centric Warfare expanded and as technology advanced, we now have a ubiquitous network and EM spectrum from which to launch information as a weapon
- ▼ In 2009 the Navy consolidated information-related programs, resources, and manpower in order to organize, unify and concentrate its information capabilities
- ▼ Information Dominance is the operational advantage gained from integrating the Navy's information functions, capabilities & resources to optimize decision making and maximize warfighting effects
- ▼ The strategy focuses on the three fundamental Information Dominance capabilities of Assured Command and Control, Battlespace Awareness, and Integrated Fires



# Navy Strategy for Achieving Information Dominance

2013-2017

Optimizing Navy's Primacy in the  
Maritime and Information Domains

# U.S. NAVY Information Dominance Roadmap 2013-2028



This all Sounds Great in Theory – but What  
Warfighting Challenge Does it Help Me Solve?

“In reality, the key to the pivot strategy will not be found in the redeployment of U.S. forces in the region or the acquisition of any particular weapons system....The heart of a successful defense strategy for the Asia-Pacific will be in the network.”

Dr. Daniel Goure

“The Asia-Pacific Pivot Must Be About the Networks”

Lexington Institute

April 10, 2013

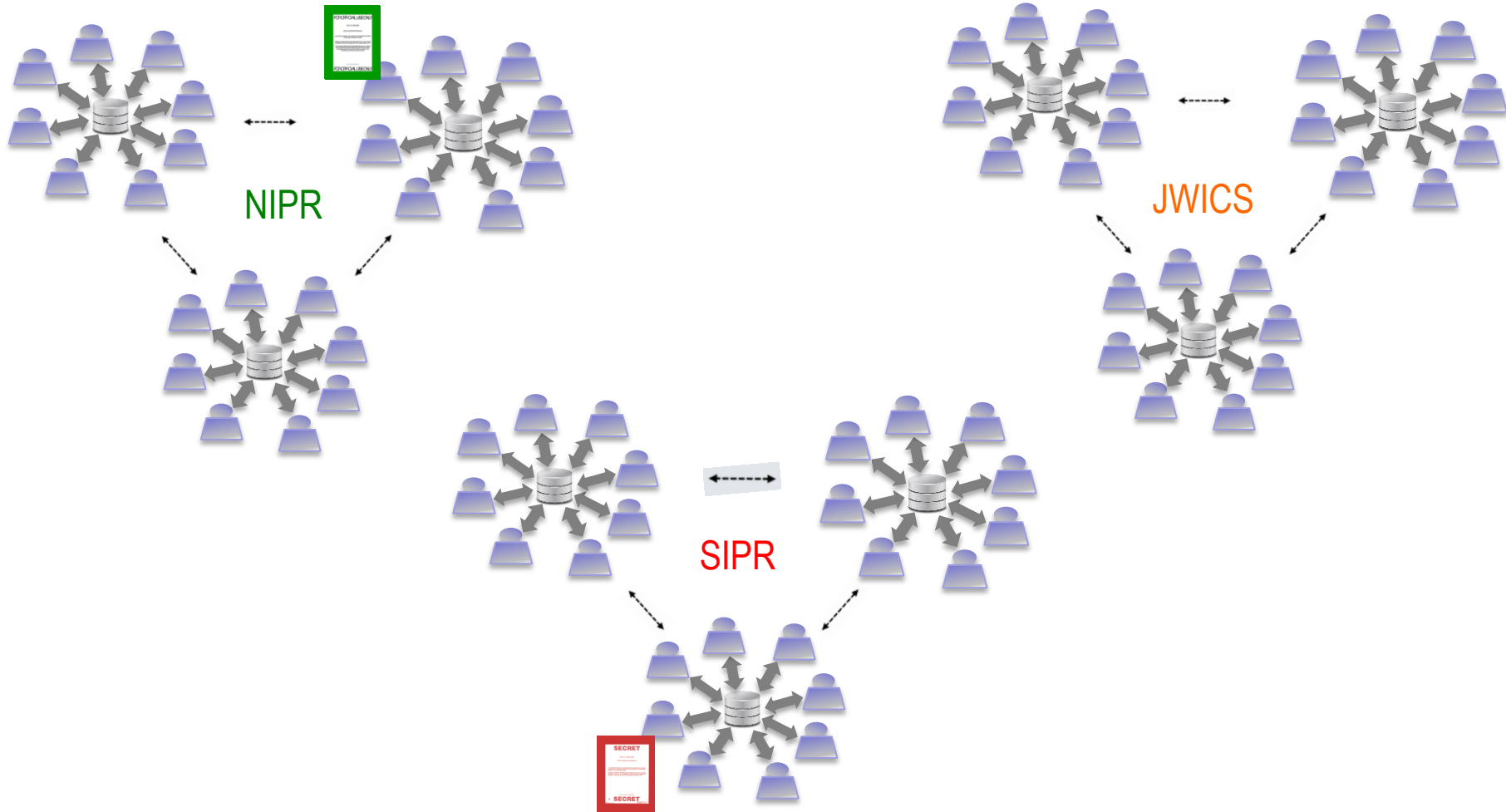
“Commanders at all levels will require the ability to rapidly discover and access key relevant intelligence and operational data to maintain decision superiority in contested or denied C2 environments. Such advanced capabilities involve advanced decision support aids that can provide real-time sharing and collaboration of authoritative intelligence and operational data across all levels of wars.”

U.S. Navy Information Dominance Roadmap  
United States Navy, Information Dominance Corps  
March 2013

# Data Flow Issues



# Data Flow Issues – Disparate Networks



# Data Flow Issues – What if...

UNCLASSIFIED – CLASSIFICATION MARKINGS FOR ILLUSTRATION PURPOSES ONLY



# Secure Web Integration Framework (SWIF) Design



# Secure Web Integration Framework

## Goal:

- ▼ Provide essential information residing in multiple classification enclaves discoverable, accessible, widely shared, and understandable by the DoD community and ultimately the interagency community on both the high and low side.

## Scope:

- ▼ Space and Naval Warfare Systems Center Pacific (SSC Pacific) was tasked by the Joint Staff to design an open architecture framework that allows for rapid deployment of analytical, collaborative applications in a secure and protected multi-level security environment to support a planning community.

# System Design Considerations

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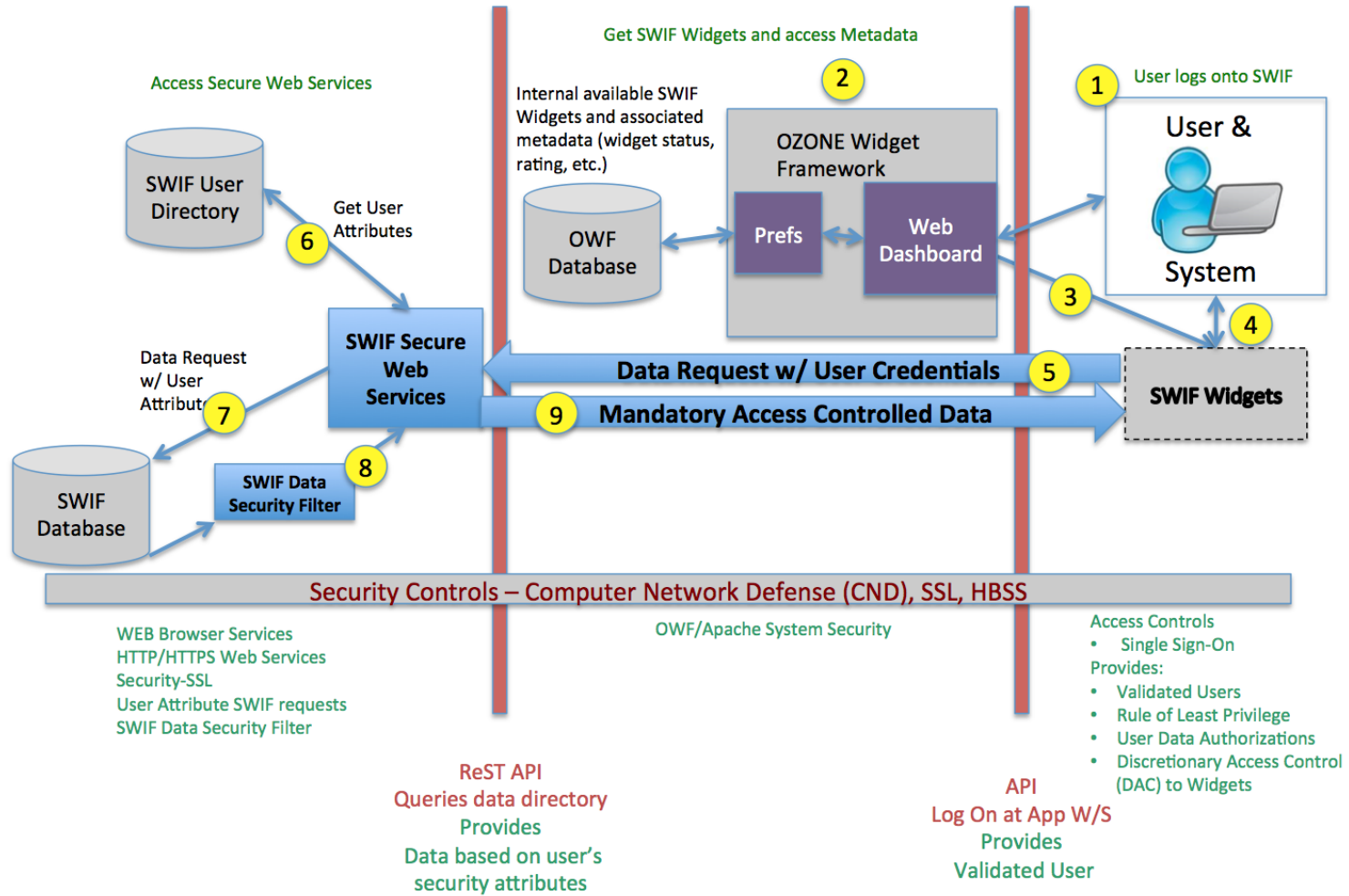
- ▼ Enforcement of Mandatory Access Control (MAC)
- ▼ Data sharing via Common Data Model (CDM)
- ▼ Common User Interface (UI)
- ▼ Short application deployment time
- ▼ Web-based and lightweight client applications
- ▼ Using open source COTS/GOTS
- ▼ Application Programming Interface (API) to create MAC-enabled widgets

# SWIF Components

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- ▼ Presentation Framework – Ozone Widget Framework by NSA
- ▼ Custom Widgets – by SSC Pacific
- ▼ SWIF Security Service – by SSC Pacific
- ▼ Common Data Model – by SSC Pacific
- ▼ Data Source – NoSQL MongoDB

# SWIF System



**Applying APIs and Multiple Layered Security Provides DEFENSE IN DEPTH**

# **Secure Web Integration Framework (SWIF) Governance Process**

# System Governance Process

- ▼ Complete Certification & Accreditation review of SWIF Infrastructure
- ▼ Streamline the deployment process of widgets
- ▼ Accreditation criteria based upon capabilities, complexity, and security boundaries and whether it is characterized as Simple or Medium
- ▼ Simple Widget:
  - Displays data, saves data to database, but does not communicate with other widgets
  - Limited functional & integration testing required
- ▼ Medium Widget:
  - Displays data, saves data to database, and communicates with other widgets
  - Full functional & integration testing required

# **Secure Web Integration Framework (SWIF) Widgets Demonstration**

# Secure Web Integration Framework (SWIF) Way Forward



# Way Forward

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- ▼ Integration of SWIF on high and low networks
- ▼ Certify & Accredite SWIF
- ▼ Increase functionality
- ▼ Increase data access by retrieving row- and cell-level data
- ▼ Increase data sources (e.g., file system, SQL databases)
- ▼ Explore other networks to share MAC-enabled data



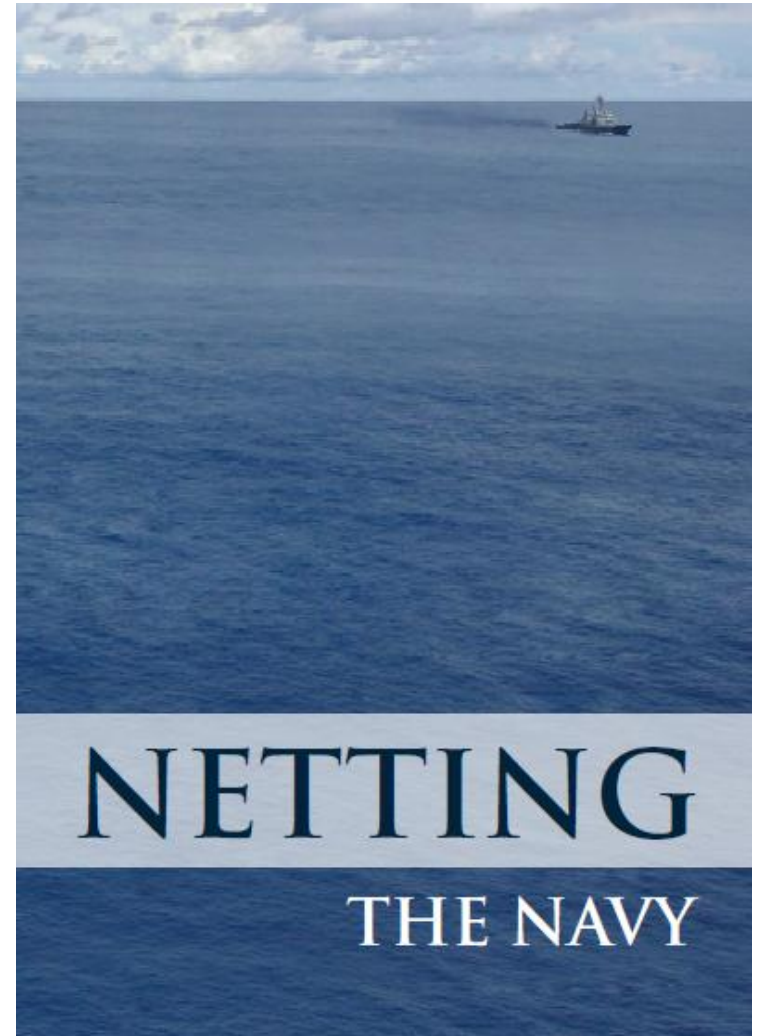
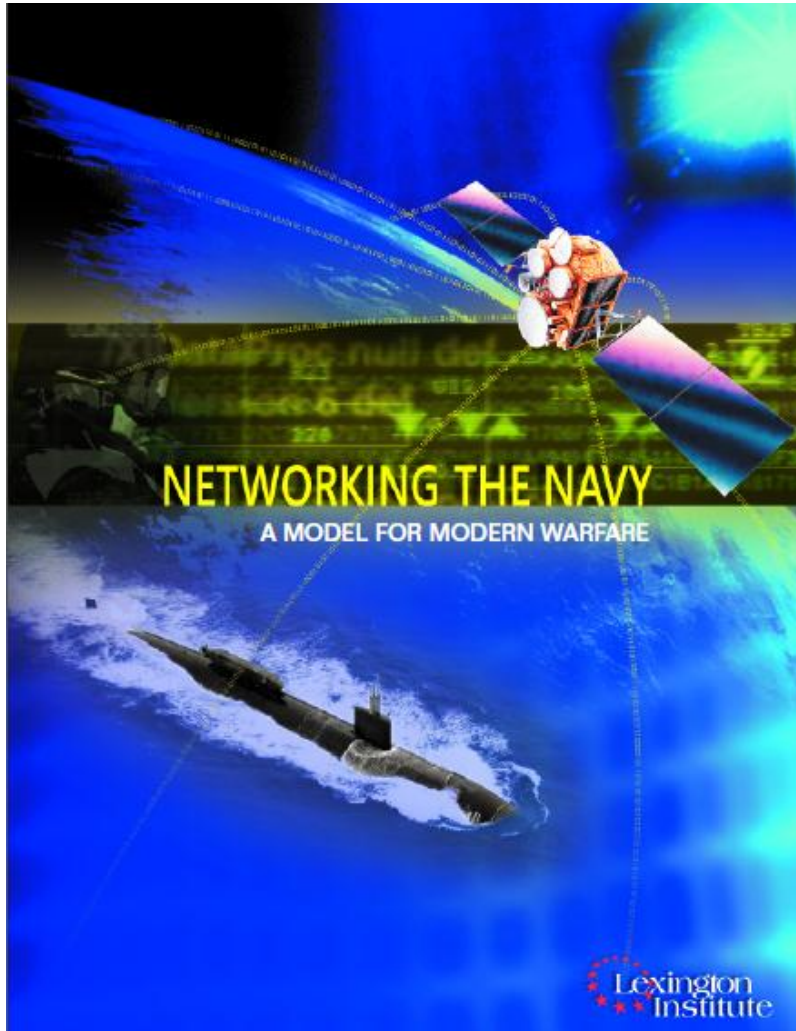
## Contact Information

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Email: [george.galdorisi@navy.mil](mailto:george.galdorisi@navy.mil)

# Back Up Slides



# SWIF Widgets Demonstration

- ▼ Planning Widgets
  - Plan
  - Target Search
  - Capability Search
  - Match targets to capabilities
- ▼ Conceptual Model Visualization Widget
  - Model Search
  - Model Card
  - Data Card

# Launching SWIF (in case demo doesn't work)



# Plan Edit Widget (in case demo doesn't work)

UNCLASSIFIED

Secure Web Integration Framework

UNCLASSIFIED

Enter Plan Name..
Option: Option 1 v

Target System: <input type="text" value="Northland Power System"/>	Mission Statement: <div style="border: 1px solid gray; padding: 5px; min-height: 40px;">             The mission is to neutralize Northland nuclear armament capabilities.           </div>
Start: <input type="text" value="160000zJun14"/>	Desired System Effect: <div style="border: 1px solid gray; padding: 5px; min-height: 40px;">             The desired system effect is to neutralize Northland's nuclear enrichment plant by disabling power to the plant.           </div>
End: <input type="text" value="200000zJun14"/>	
Created: <input type="text"/>	
Modified: <input type="text"/>	

**Nominated Targets**

Target Name	BE Number	Primary Type	Function
<input type="checkbox"/> Springfield Nuclear Power Plant	1	Facility	112233
<input type="checkbox"/> Northland Power Generating Station	1234AA5678	Facility	81121
<input type="checkbox"/> Switching Station #1	1234AB6789	Power Switch	81350
<input type="checkbox"/> Switching Station #2	1234AB6790	Power Switch	81350

**Capability Options** + -

Name	Target Type	Description	Available	FOC

Load Save Clear

# Widgets

LEVEL 2//REL TO USA

Secure Web Integration Framework PlanAll

**Target Search** UNCLASSIFIED//REL TO USA

Search... Search

Target Name	BENUM	Target Prin	Target Sub	Function	OSUFFIX	Location
Northland Power G...	1234A...	Facility		81121	AB1234	123685...
Switching Station #1	1234A...	Power ...		81350	CD4567	123686...
Switching Station #2	1234A...	Power ...		81350	CD4567	123686...

**Capability Search** LEVEL 2

Search... Search

Name	Capability	Target Type	Expected Effects	Status	Number Available
Video Share	The video share ...	Friendly Force UAV	Enhance Friendly...	MR	25
Tactical Operatio...	Autonomous co...	Humans, Vehicle...	Intel gathering, ...	Non-MR	15
Tactical Jammer ...	Tactical level co...	All enemy comm...	Loss of battelfiel...	Non-MR	2
Lighthouse infor...	Allows users to c...	social network a...	Disrupt adversar...	MR	9999
DeLorme inReac...	high performing,...	FFT	Detect, Commun...	MR	500
VestLyte Land to...	assist security pe...				
Nighttime image...	Ability to detect ...	Various	Intel, high-value ...	Non-MR	50
Advanced groun...	Ability to leverag...	Various	Intel	MR	9999
Crowd Sourcing ...	Expedited surge...	Friendly Force e...	Inform	Non-MR	0
Small team Pow...	JP-8 powered m...	Friendly Force E...	N/A	Pre-production	0
NPV MAD Ultrai...	Ability to "throw"...	Any human	Disrupt	MR	1
Extreme Terrain ...	Recon of denied ...	Enemy Infrastru...	Enhanced Intelli...	MR	50
Tactical Long En...	Long duration IS...	austere flight are...	Enhanced ISR	MR	10

**Plan Editor** LEVEL 1

**Northland Power Disruption** Option: Short Term

Target System: Northland Power System Mission Statement:

Start: 300000zNov19

End: 300000zNov19

Created: Test User 1 - 181459zSep13

Modified: Test User 1 - 181504zSep13

Desired System Effect:

Nominated Targets

Target Name	BE Number	Primary Type	Function
<input type="checkbox"/> Northland Power Generating Station	1234AA5678	Facility	81121
<input checked="" type="checkbox"/> Cooling Tower	4523BV4567	Facility	92298
<input checked="" type="checkbox"/> Switching Station #1	1234AB6789	Power Switch	81350
<input checked="" type="checkbox"/> Switching Station #2	1234AB6790	Power Switch	81350

Capability Options

Name	Target Type	Description	Available	FOC
<input checked="" type="checkbox"/> Tactical Jammer Employment by a Small Unmanned...	All enemy communicati...	UAS based frequency jammer	2	1
<input checked="" type="checkbox"/> Tactical Operations for Multiple networked UAVs	Humans, Vehicles, Ship...	Networked UAV systems	15	0
<input type="checkbox"/> Nighttime image acquisition and recognition system	Various	Nighttime camera integrated with object/person de...	50	45
<input checked="" type="checkbox"/> NPV MAD Ultralight	Any human	HPV MAD Ultralight. Long Throw Planar Magnetic S...	1	1

Load Save Clear

**Capability Details** LEVEL 1

**Capability: NPV MAD Ultralight**

Name: NPV MAD Ultralight

Description: HPV MAD Ultralight. Long Throw Planar Magnetic System

Capability: Ability to "throw" or project in a targetted manner soundwaves

Target Type: Any human

Target Sub Type:

Expected Effects: Disrupt

Status: MR

Number Available: 1

Number Fully Operational Capable: 1

Location: Camp Roberts CA: 1

Field 1:

Point of Contact: org: Aardvark, name: Robert Stratton, phone: 432-543-7654, email: stratton@aardvark.com

Operational: prototype only



# Widgets

LEVEL 2//REL TO USA

Secure Web Integration Framework PlanAll

**Target Search**

UNCLASSIFIED//REL TO USA

Search...

Target Name	BENUM	Target Prin	Target Sub	Function	OSUFFIX	Location
Northland Power G...	1234A...	Facility		81121	AB1234	123685...
Switching Station #1	1234A...	Power ...		81350	CD4567	123686...
Switching Station #2	1234A...	Power ...		81350	CD4568	123687...

**Capability Search**

LEVEL 2

Search...

Name	Capability	Target Type	Expected Effects	Status	Number Available
Video Share	The video share ...	Friendly Force UAV	Enhance Friendly...	MR	25
Tactical Operatio...	Autonomous co...	Humans, Vehicle...	Intel gathering, ...	Non-MR	15
Tactical Jammer ...	Tactical level co...	All enemy comm...	Loss of battlefiel...	Non-MR	2
Lighthouse infor...	Allows users to c...	social network a...	Disrupt adversar...	MR	9999
DeLorme inReac...	high performing...	FFT	Detect, Commun...	MR	500
VestLyte Land to...	assist security pe...				
Nighttime image...	Ability to detect ...	Various	Intel, high-value ...	Non-MR	50
Advanced groun...	Ability to leverag...	Various	Intel	MR	9999
Crowd Sourcing ...	Expedited surge...	Friendly Force e...	Inform	Non-MR	0
Small team Pow...	JP-8 powered m...	Friendly Force E...	N/A	Pre-production	0
NPV MAD Ultra...	Ability to "throw"...	Any human	Disrupt	MR	1
Extreme Terrain ...	Recon of denied ...	Enemy Infrastru...	Enhanced Intelli...	MR	50
Tactical Long En...	Long duration IS...	austere flight are...	Enhanced ISR	MR	10

**Plan Editor**

LEVEL 1

Northland Power Disruption Option: Short Term

Targets			
Transformer #2	X		
Switching Station #2		X	
Switching Station #1			X
Cooling Tower			

Unsequenced Match...

**Switching Station #2**

[Tactical Operations for Multiple networked UAVs]

**Transformer #2**

[Tactical Jammer Employment by a Small Unmanned Aerial System]

300000zNov19 300000zNov19

Load Save Clear

**Capability Details**

LEVEL 1

Capability: NPV MAD Ultralight

Name: NPV MAD Ultralight

Description: HPV MAD Ultralight. Long Throw Planar Magnetic System

Capability: Ability to "throw" or project in a targetted manner soundwaves

Target Type: Any human

Target Sub Type:

Expected Effects: Disrupt

Status: MR

Number Available: 1

Number Fully Operational Capable: 1

Location: Camp Roberts CA: 1

Field 1:

Point of Contact: org: Aardvark, name: Robert Stratton, phone: 432-543-7654, email: stratton@aardvark.com

# Widgets

LEVEL 3//REL TO USA,ZMB,ABW  
Secure Web Integration Framework

Model UNCLASSIFIED

### Immediate Impact and Response

```

    graph LR
      Flood[Flood] --> Shelter[Shelter]
      Flood --> WaterSanit[Water/Sanit]
      Flood --> RouteTraff[Route Traff.]
      Flood --> Comm[Comm.]
      Flood --> EF[E & F]
      Flood --> IDPRef[IDP/Ref.]
      Flood --> Insects[Insects]
      Flood --> EpiPan[Epi/Pan.]
      Shelter --> SR[S & R]
      WaterSanit --> SR
      WaterSanit --> IDPRef
      RouteTraff --> SR
      RouteTraff --> IDPRef
      Comm --> SR
      Comm --> IDPRef
      EF --> SR
      EF --> IDPRef
      IDPRef --> Policing[Policing]
      IDPRef --> HCP[H.C.P.]
      Insects --> HoestER[Hoest. & ER]
      EpiPan --> HoestER
      HoestER --> MedSup[Med. Sup.]
      HoestER --> Mortuary[Mortuary]
    
```

Model Card UNCLASSIFIED

Properties | Explanation/Notes | Source Materials | Images

Name: Immediate Impact and Response  
 Creator: ExecAll  
 Locked By: PlanAll  
 lastModified: 5/21/2014  
 Highlight Direction: forward  
 Highlight Depth: 3

Add Edit Remove

LEVEL 3//REL TO USA,ZMB,ABW

Search...

Name	Creator	Last Modified	Locked
Abi Model Test	ExecAll	3/11/2014	
ExecAll Model	ExecAll	2/6/2014	
Immediate Impact and Response	ExecAll	5/21/2014	PlanAll
Recovery and Reconstruction	ExecAll	4/11/2014	Desjardins, Abigail
SWIF asof 04FEB	PlanAll	4/28/2014	
Disaster Response Responsibilities	PlanAll	4/17/2014	Desjardins, Abigail
Intrastate Violence	PlanAll	2/10/2014	
Test Model 1	PlanAll	3/11/2014	
JJFX Exercise	Plan3	2/26/2014	
JJFX Exercise	Plan3	4/30/2014	
Abi Model Test - Backup26feb14		2/26/2014	
Recovery and Reconstruction - Backup26feb14	Scotty	3/12/2014	
Intrastate Violence - Backup26feb14	Scotty	4/23/2014	
Disaster Response Responsibilities - Backup26...	Scotty	2/26/2014	
SWIF Conceptual Plan		2/27/2014	
Intrastate Violence v3		3/17/2014	
SCA Full	Desjardins, Abigail	3/20/2014	
Immediate Impact and Response (Color Coded)	Desjardins, Abigail	4/11/2014	Desjardins, Abigail
Intrastate Violence v4		4/11/2014	Desjardins, Abigail

Data Card UNCLASSIFIED

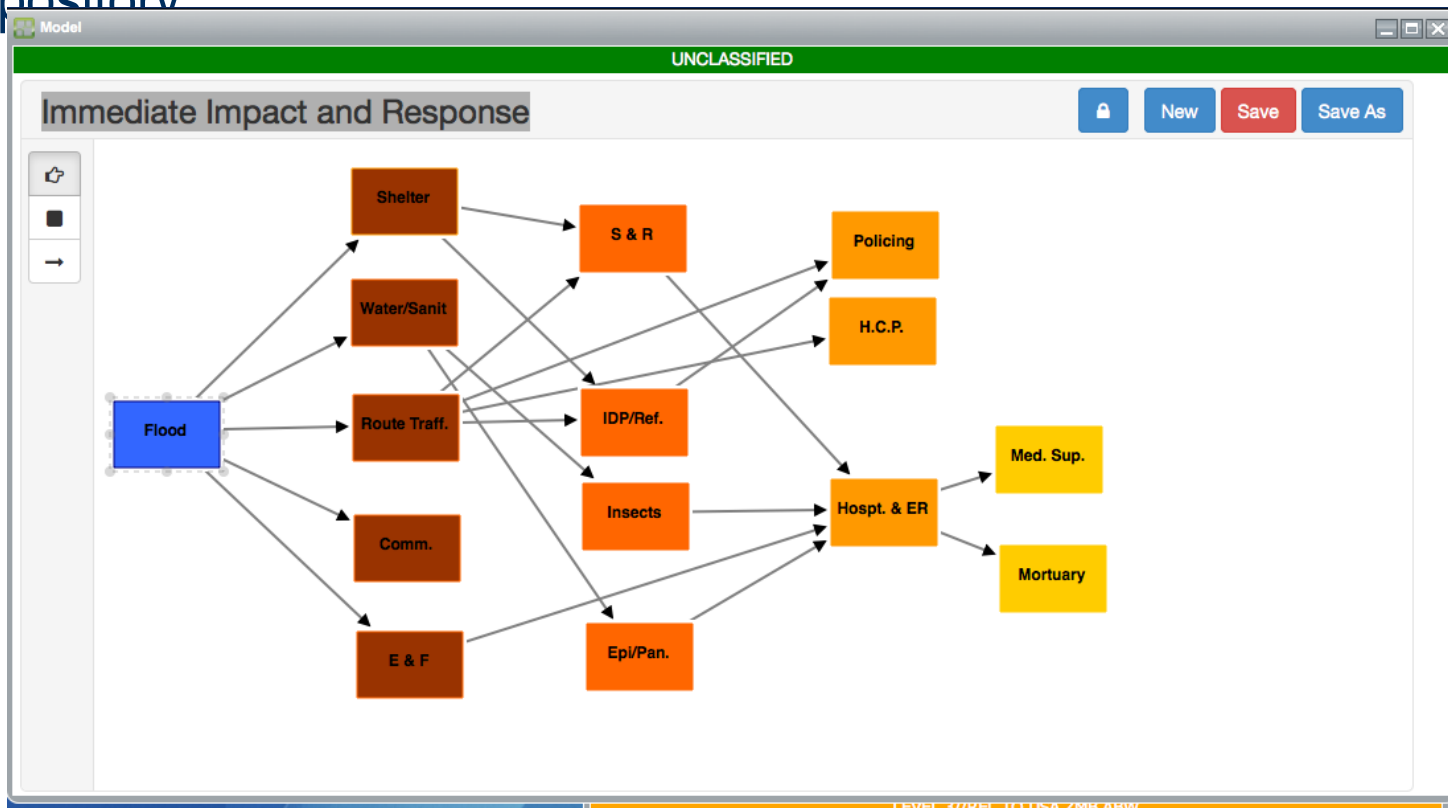
Properties | Explanation/Notes | Source Materials | Images

Name - Value

Add Edit Remove

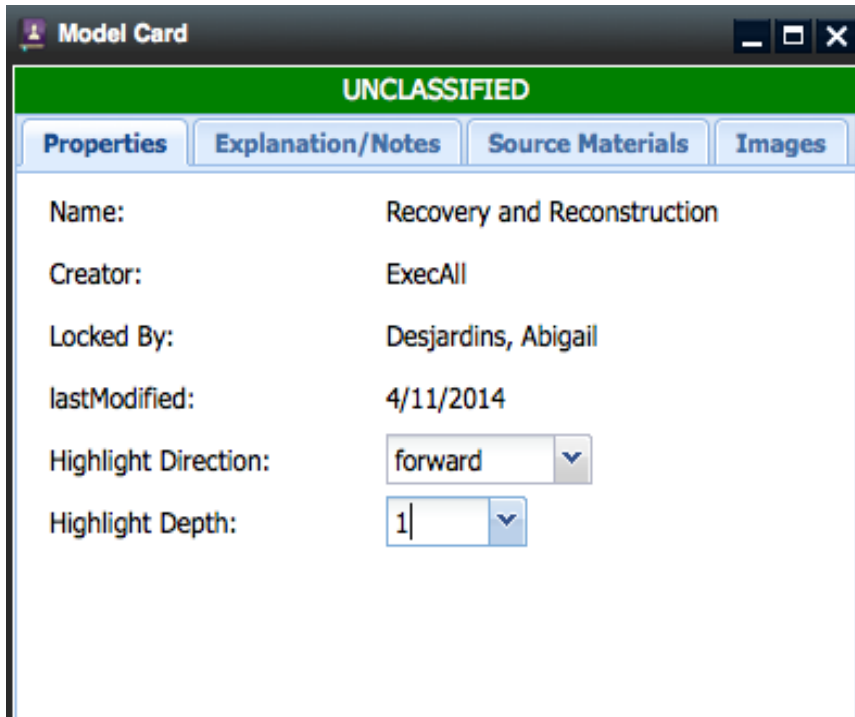
# Conceptual Model Visualization (CVM) Widget

- ▼ Allows analysts to diagram relationships between Megacity infrastructures, as links and nodes, annotate nodes, attach supporting documents, and provide a security label on data saved to repository



# Model Card Widget – 2 Views

- ▼ View model's supporting information & configure display
  - Forwards, backwards, bidirectional, depth



Model Card

UNCLASSIFIED

Properties Explanation/Notes Source Materials Images

Name: Recovery and Reconstruction

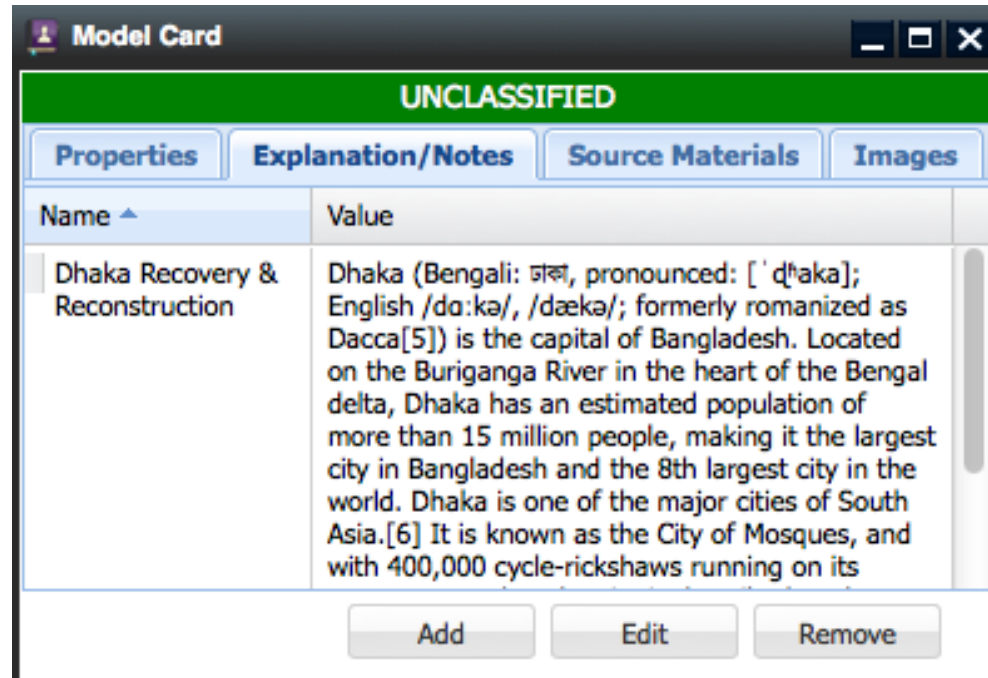
Creator: ExecAll

Locked By: Desjardins, Abigail

lastModified: 4/11/2014

Highlight Direction: forward

Highlight Depth: 1



Model Card

UNCLASSIFIED

Properties Explanation/Notes Source Materials Images

Name ^	Value
Dhaka Recovery & Reconstruction	Dhaka (Bengali: ঢাকা, pronounced: [ˈdʱaka]; English /dɑːkə/, /dækə/; formerly romanized as Dacca[5]) is the capital of Bangladesh. Located on the Buriganga River in the heart of the Bengal delta, Dhaka has an estimated population of more than 15 million people, making it the largest city in Bangladesh and the 8th largest city in the world. Dhaka is one of the major cities of South Asia.[6] It is known as the City of Mosques, and with 400,000 cycle-rickshaws running on its

Add Edit Remove

# Model & Model Card Widgets

The image displays two windows from a software application. The left window, titled 'Model', shows a flowchart under the heading 'Immediate Impact and Response'. The flowchart starts with a blue box labeled 'Flood' on the left. Five arrows point from 'Flood' to five brown boxes: 'Shelter', 'Water/Sanit', 'Route Traff.', 'Comm.', and 'E & F'. From these brown boxes, arrows point to a second level of light orange boxes: 'S & R', 'IDP/Ref.', 'Insects', and 'Epi/Pan'. From 'S & R', arrows point to 'Policing' and 'H.C.R.'. From 'IDP/Ref.', an arrow points to 'Hospit. & ER'. From 'Insects', an arrow points to 'Hospit. & ER'. From 'Epi/Pan', an arrow points to 'Hospit. & ER'. From 'Hospit. & ER', arrows point to 'Med. Sup.' and 'Mortuary'. The right window, titled 'Model Card', shows the properties for the 'Immediate Impact and Response' model. It includes fields for Name, Creator, Locked By, lastModified, Highlight Direction, and Highlight Depth, along with 'Add', 'Edit', and 'Remove' buttons.

**Model Window:**

- Title: Model
- Status: UNCLASSIFIED
- Heading: Immediate Impact and Response
- Buttons: Lock, New
- Diagram: Flowchart showing the flow from 'Flood' to various response categories.

**Model Card Window:**

- Title: Model Card
- Status: UNCLASSIFIED
- Tabs: Properties, Explanation/Notes, Source Materials
- Properties:
  - Name: Immediate Impact and Response
  - Creator: ExecAll
  - Locked By: PlanAll
  - lastModified: 5/21/2014
  - Highlight Direction: forward
  - Highlight Depth: 1
- Buttons: Add, Edit, Remove

# Data Card Widget – 2 Views

- ▼ Configuring Node Properties
- ▼ Adding Name-Value Pairs

**Data Card** [Close] [Maximize] [Minimize]

**UNCLASSIFIED**

← **Properties** Explanation/Notes Source Materials In →

Full Name:

Display Name:

Fill:

Line Color:

Thickness:  ▼

Add Edit Remove

**Data Card** [Close] [Maximize] [Minimize]

**UNCLASSIFIED**

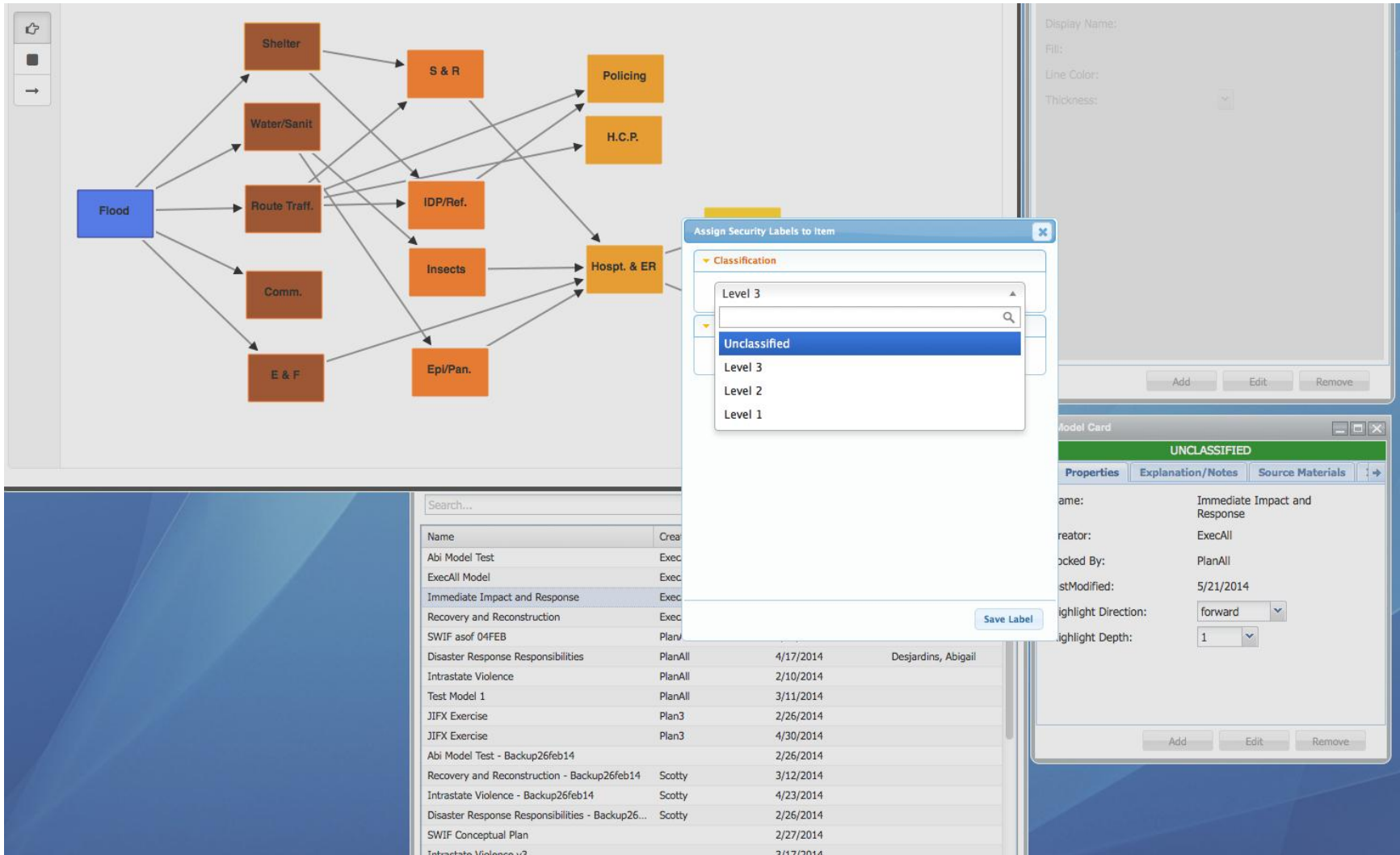
← **Properties** **Explanation/Notes** Source Materials Images →

Name ▲	Value
Final Write-up	Dhaka, a rapidly expanding MegaCity, is situated on the flat deltaic plain of three large rivers in Bangladesh. Given the physical topography of the city the low-lying areas are prone to flooding due to prolonged rainfall and/or river flow changes due to sea level changes (Haque, 2010). Compounding the naturally occurring problem are issues pertaining to poor urban planning, insufficient infrastructure, and lack of governing capacity. Dhaka has experienced several severe floods in recent history due to the surrounding rivers overflowing, impediments to the natural drainage, and the development of the low-lying areas to meet housing needs of the growing population. In addition to the severe floods, Dhaka routinely suffers from issues of water logging, related to flooding, but is specific to the city's inadequate drainage and related infrastructure. According to experts, Dhaka East faces the most severe risk of flooding due to the simple fact that that land mass serves as a natural repository for excess water resulting from rainfall (Haque, 2010). However, given the chaotic urban development the natural drainage has been obstructed forcing the water to collect without a natural egress point.
Information (1)	"By virtue of being surrounded by the distributaries of several major rivers, the city has been subjected to periodic flooding since its early days. Major floods in the Greater Dhaka area have occurred in 1954, 1955, 1970, 1974, 1980, 1987, 1988, and 1998 due to spillover from surrounding rivers. Among these, the 1988 and 1998 floods were catastrophic. In the 1988 flood, it was estimated that about 85 percent of the city was inundated at depths ranging from 0.3 to over 4.5 meters, and about 60 percent of city dwellers were affected. It also disrupted city life, air travel, and communication from the capital city to the outside world. The 1998 flood was most severe in terms of extent and duration. It was estimated that about 56 percent of the city was inundated, including most of the eastern and 23 percent of the western parts of the city. The flood protection embankment and floodwalls along the Turag and the Buriganga rivers protect the western part of the city from river flooding." (Huq & Alam, 2004, p 121)

Add Edit Remove



# Security Label



The screenshot displays a software interface for managing security labels. It features a dependency diagram, a dialog for assigning security labels, and a model card for the selected item.

**Dependency Diagram:** A central blue box labeled "Flood" has arrows pointing to several other boxes: Shelter, Water/Sanit, Route Traff., Comm., E & F, S & R, IDP/Ref., Insects, Epi/Pan., Policing, H.C.P., and Hospt. & ER. Further arrows connect these boxes, such as Shelter to S & R, Water/Sanit to S & R and IDP/Ref., and Route Traff. to IDP/Ref., Insects, and Epi/Pan.

**Assign Security Labels to Item Dialog:** A dialog box is open, showing a search field and a list of classification levels. "Unclassified" is selected and highlighted in blue.

- Classification
- Level 3
- Unclassified**
- Level 3
- Level 2
- Level 1

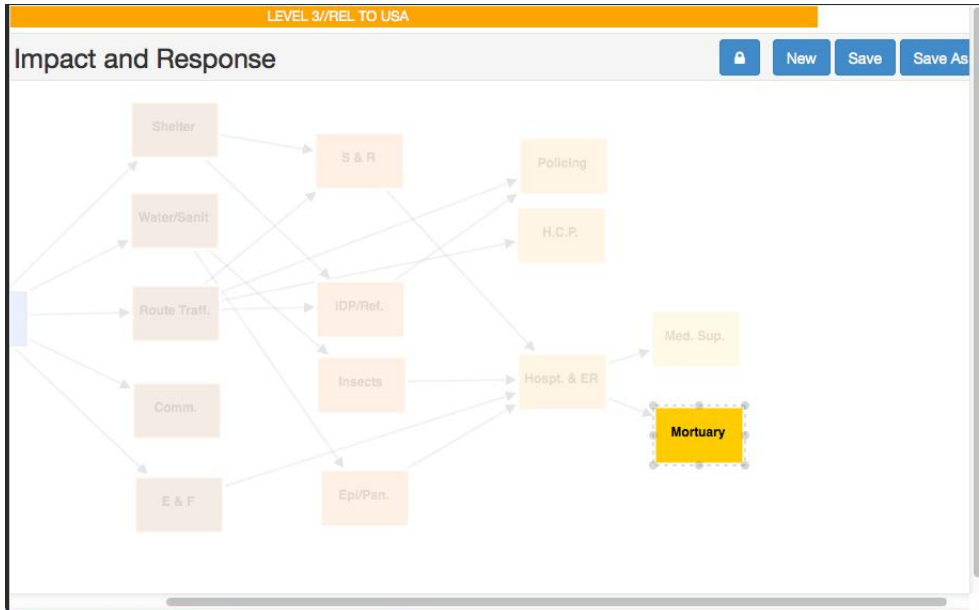
**Model Card:** The model card for the selected item is displayed, showing the following details:

- Model Card:** UNCLASSIFIED
- Properties:** Immediate Impact and Response
- Creator:** ExecAll
- Locked By:** PlanAll
- Last Modified:** 5/21/2014
- Highlight Direction:** forward
- Highlight Depth:** 1

**Table:** A table is visible at the bottom of the interface, listing various models and their properties.

Name	Created By	Created	Modified	Modified By
Abi Model Test	ExecAll			
ExecAll Model	ExecAll			
Immediate Impact and Response	ExecAll			
Recovery and Reconstruction	ExecAll			
SWIF asof 04FEB	PlanAll			
Disaster Response Responsibilities	PlanAll	4/17/2014		Desjardins, Abigail
Intrastate Violence	PlanAll	2/10/2014		
Test Model 1	PlanAll	3/11/2014		
JIFX Exercise	Plan3	2/26/2014		
JIFX Exercise	Plan3	4/30/2014		
Abi Model Test - Backup26feb14		2/26/2014		
Recovery and Reconstruction - Backup26feb14	Scotty	3/12/2014		
Intrastate Violence - Backup26feb14	Scotty	4/23/2014		
Disaster Response Responsibilities - Backup26...	Scotty	2/26/2014		
SWIF Conceptual Plan		2/27/2014		
Intrastate Violence v3		3/17/2014		

# Security Label



Data Card

LEVEL 3//REL TO USA

Properties Explanation/Notes Source Materials In →

Name	Value
Classified Material	This is an example of security labeling.
Final Write Up	Information about how bodies and recovered and interred in Bangladesh is sparse. Information about how the residents of Dhaka recover and inter the dead following a flood is sparse. However, mortuary services exist in Dhaka. It is not clear whether these services are public or private or whether Dhaka's poorest citizens (who are most affected by floods) can access these services. Mortuary workers come from the lowest socio-economic class as working with the dead is considered taboo. The Dhaka City Corporation only plays a role in that it issues death certificates. Following Cyclone Sidr in 2007 the Ministry of Food and Disaster Management identified the provision of burial services and disposal of bodies as an essential part of relief services. Outside of Dhaka, families are responsible for the interment of deceased family members as there are few morgues or funeral home-like institutions. After Cyclone Alla, individuals recovered and interred the bodies of family members and neighbors. The government (even the local police) had very little to do with this process. After a flood, one significant problem is finding high enough ground to bury the dead, which becomes a pressing need as there are no cold storage facilities for the dead.

Add Edit Remove

Model Card

LEVEL 3//REL TO USA

Properties Explanation/Notes Source Materials →

Name:	Immediate Impact and Response
Creator:	ExecAll
Locked By:	PlanAll
lastModified:	5/22/2014
Highlight Direction:	forward
Highlight Depth:	3

Model Search

LEVEL 3//REL TO USA,ZMB,ABW

Search...

Name	Creator	Last Modified	Locked
Abi Model Test	ExecAll	3/11/2014	
ExecAll Model	ExecAll	2/6/2014	
Immediate Impact and Response	ExecAll	5/22/2014	PlanAll
Recovery and Reconstruction	ExecAll	4/11/2014	Desjardins, Abigail
SWIF asof 04FEB	PlanAll	4/28/2014	
Disaster Response Responsibilities	PlanAll	4/17/2014	Desjardins, Abigail
Intrastate Violence	PlanAll	2/10/2014	
Test Model 1	PlanAll	3/11/2014	
JIFX Exercise	Plan3	2/26/2014	
JIFX Exercise	Plan3	4/30/2014	
Abi Model Test - Backup26feb14		2/26/2014	
Recovery and Reconstruction - Backup26feb14	Scotty	3/12/2014	
Intrastate Violence - Backup26feb14	Scotty	4/23/2014	
Disaster Response Responsibilities - Backup26...	Scotty	2/26/2014	
SWIF Conceptual Plan		2/27/2014	
Intrastate Violence v3		3/17/2014	
SCA Full	Desjardins, Abigail	3/20/2014	