The Response Group

Emergency Response | Pre-Planning & Support

Common Operating Picture

IAP Software - Developed for Responders by Responders

Your ability to respond is our shared responsibility™

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Common Operating Picture

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What is a Common Operating Picture?

The Common Operating Picture (COP) is a command and control tool that provides situational awareness enabling users to make accurate, informed decisions based on current or planned activities under the Incident Command System (ICS). Data and real time sources are used to support all functions a response using a single spatial data platform. The TRG COP will provide the acting incident management team with **a comprehensive picture to make adjustments to current activities and plan for the next operational period.**

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Data Administration

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Security Access

- Secure access to users that limit available data and services
- Map services and user access over secure connection (SSL)
- Restricting ability to print or share maps

Network Infrastructure

- Scalability
- Durability

Interoperability

- Ability to share and consume data
- Flexible for any situational needs

Archiving Data

- Archive data for historical purposes

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COP Data Components

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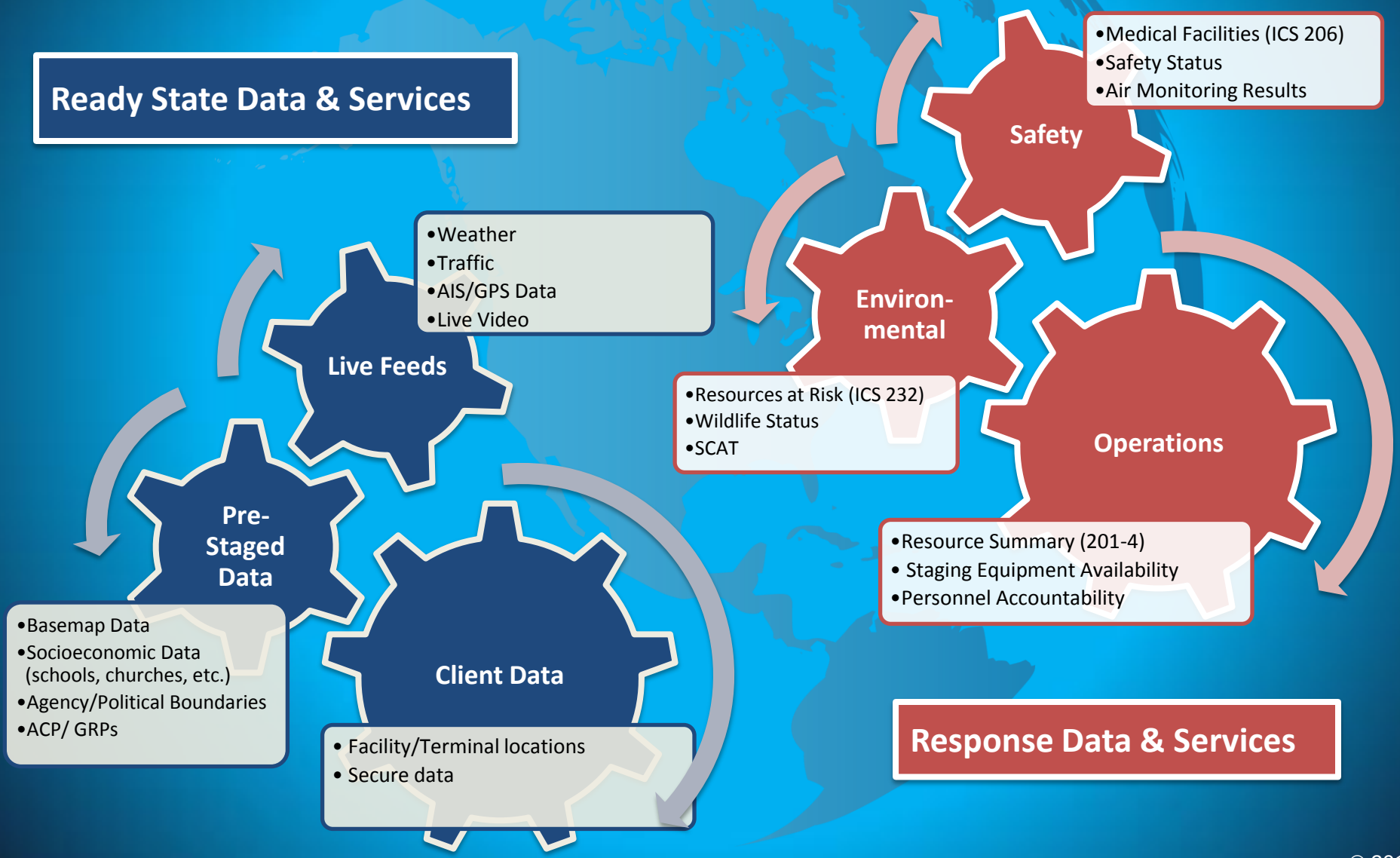

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IAP Software

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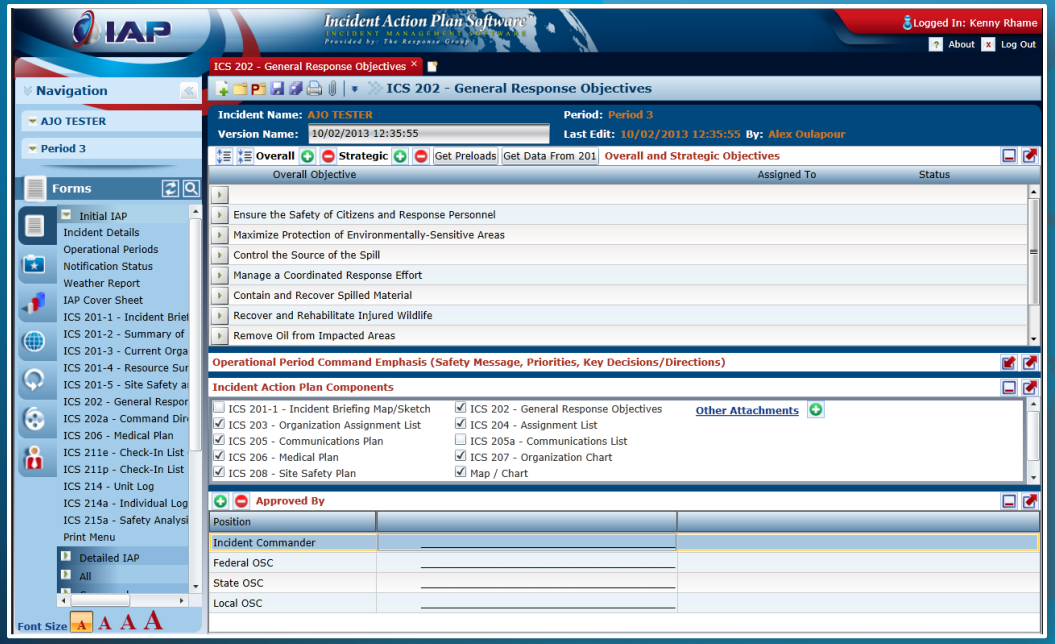
Key Features :

- Mapping component with direct interface to Common Operating Picture
- Crisis Management Module
- Mobile device functionality with offline capability
- New automated Situation Status Display
- Operational Situation Awareness with mobile device data collection in the field
- Create Incident Wizard



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Common Operating Picture

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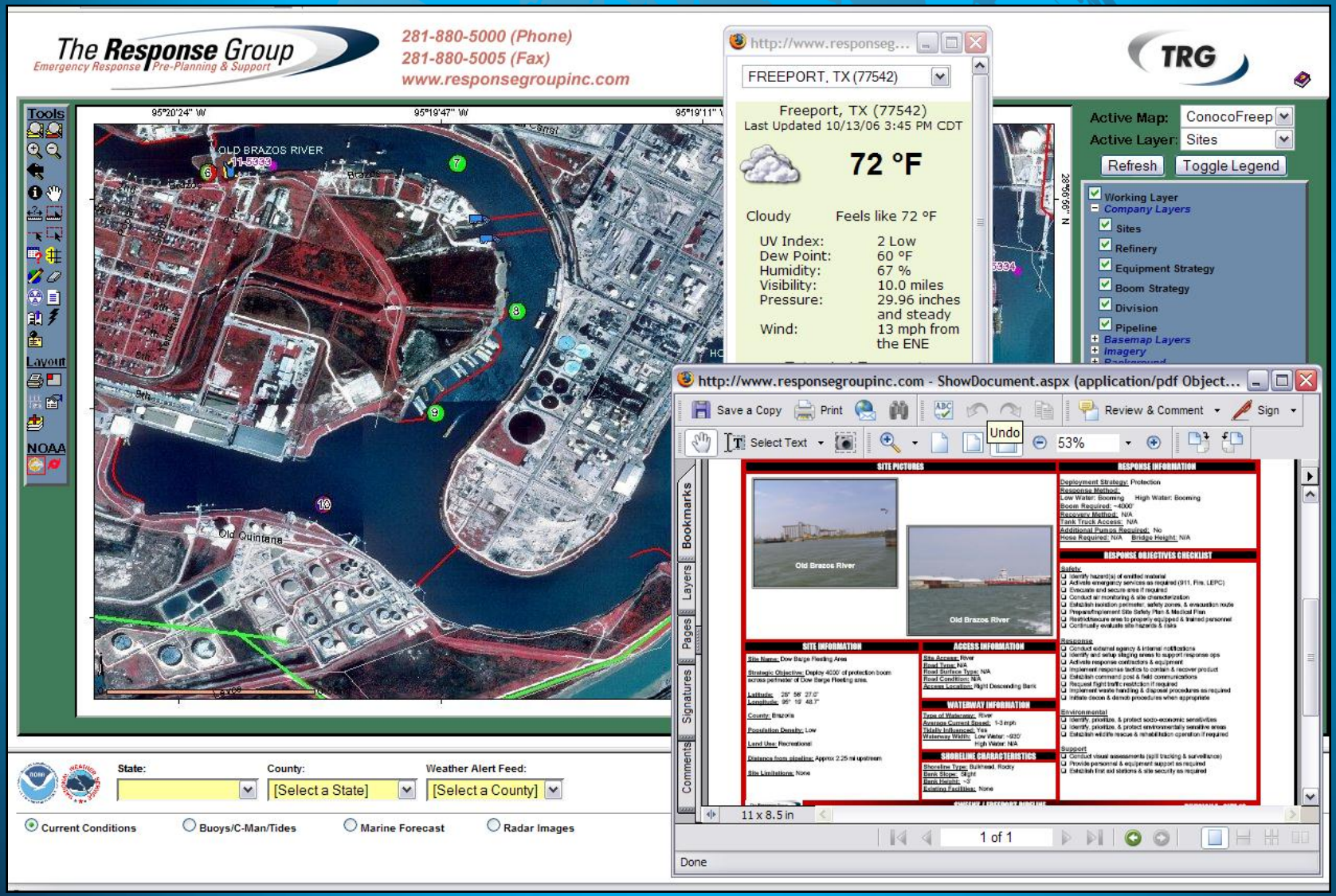

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Common Operating Picture

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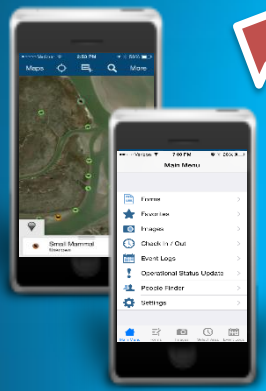
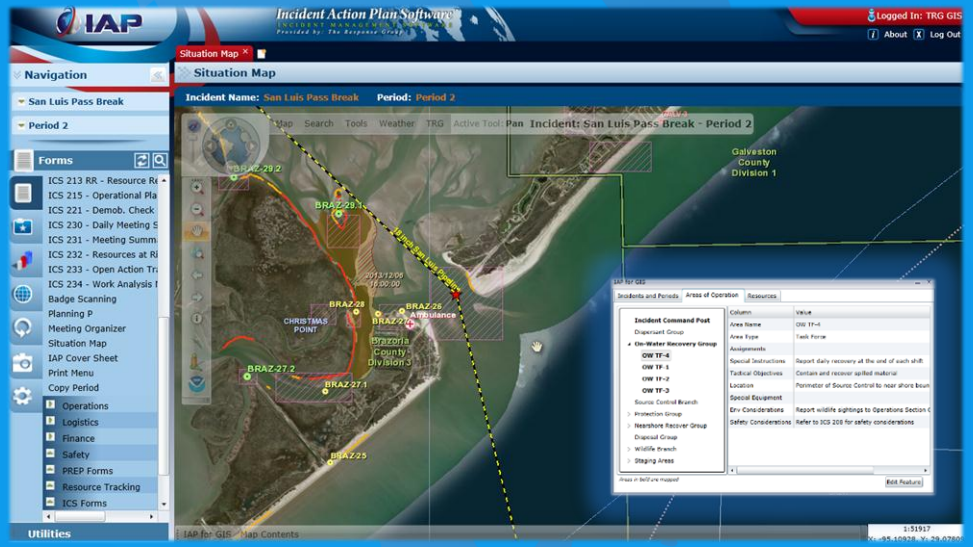
Mobile Data Collection

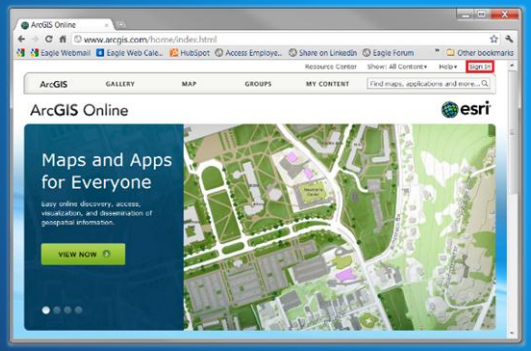
- Displays real-time updates
- Data collection from the field

GIS Specialists

- Create and Edit data from Command Post
- QA/QC field data collected







Integration

- Fully integrated with other TRG products including IAP

Compatibility

- ArcGIS Online
- Uses Standard Web Map Service (WMS)

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Enhanced IAP Integration

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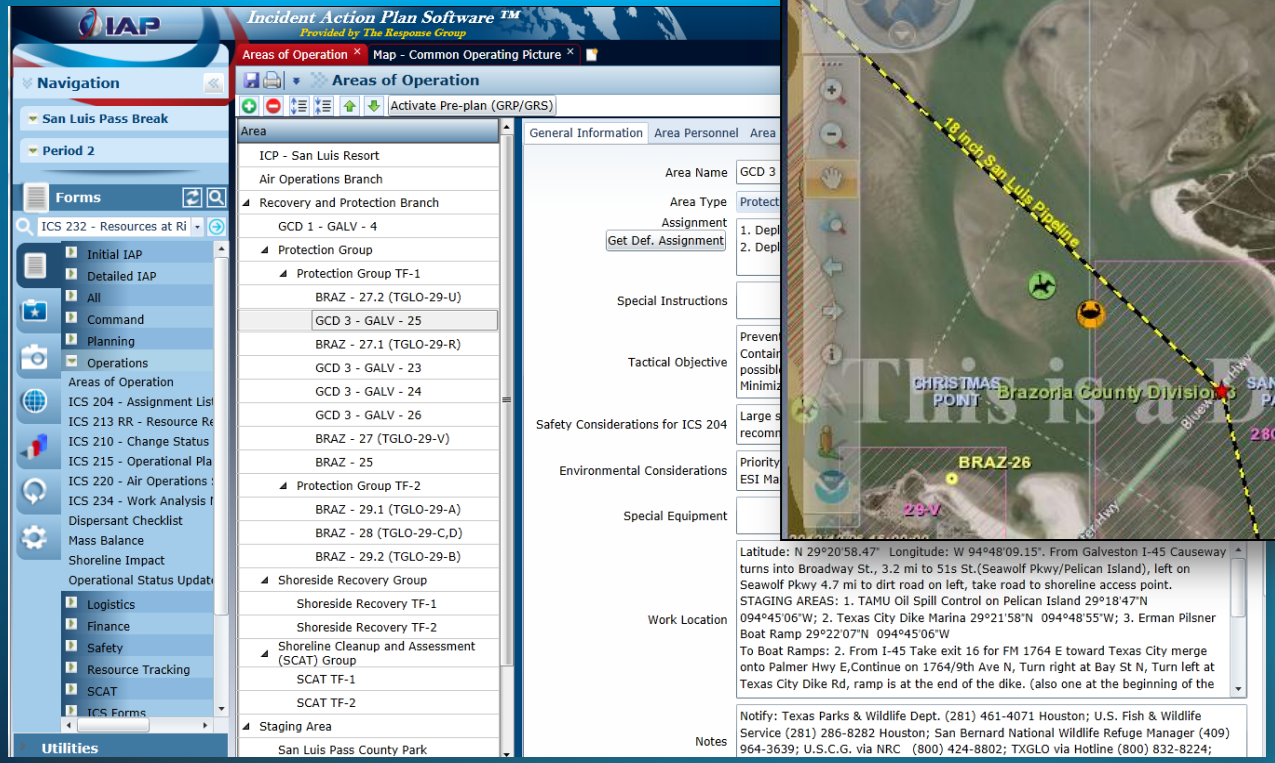
IAP

Build map features for ICS forms and data

- Areas of Operation
- Tactical Resources
- Resources at Risk
- Medical Facilities
- Geographic Response Plans



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Enhanced IAP Integration

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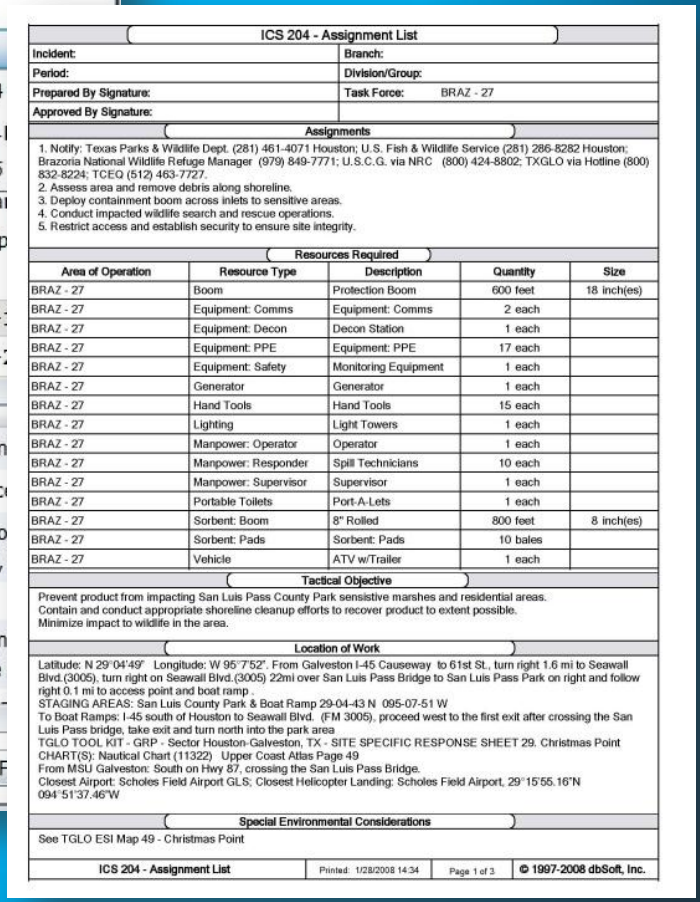
IAP

Retrieve IAP forms and reports from the COP



ICS 204 - Assignment List

Incident:	Branch:
Period:	Division/Group:
Prepared By Signature:	Task Force: BRAZ - 27
Approved By Signature:	

Assignments

1. Notify: Texas Parks & Wildlife Dept. (281) 461-4071 Houston; U.S. Fish & Wildlife Service (281) 286-8282 Houston; Brazoria National Wildlife Refuge Manager (979) 849-7771; U.S.C.G. via NRC (800) 424-8802; TXGLO via Hotline (800) 832-8224; TCEQ (512) 463-7727.
2. Assess area and remove debris along shoreline.
3. Deploy containment boom across inlets to sensitive areas.
4. Conduct impacted wildlife search and rescue operations.
5. Restrict access and establish security to ensure site integrity.

Resources Required

Area of Operation	Resource Type	Description	Quantity	Size
BRAZ - 27	Boom	Protection Boom	600 feet	18 inch(es)
BRAZ - 27	Equipment: Comms	Equipment: Comms	2 each	
BRAZ - 27	Equipment: Decon	Decon Station	1 each	
BRAZ - 27	Equipment: PPE	Equipment: PPE	17 each	
BRAZ - 27	Equipment: Safety	Monitoring Equipment	1 each	
BRAZ - 27	Generator	Generator	1 each	
BRAZ - 27	Hand Tools	Hand Tools	15 each	
BRAZ - 27	Lighting	Light Towers	1 each	
BRAZ - 27	Manpower: Operator	Operator	1 each	
BRAZ - 27	Manpower: Responder	Spill Technicians	10 each	
BRAZ - 27	Manpower: Supervisor	Supervisor	1 each	
BRAZ - 27	Portable Toilets	Port-A-Lets	1 each	
BRAZ - 27	Sorbent: Boom	8" Rolled	800 feet	8 inch(es)
BRAZ - 27	Sorbent: Pads	Sorbent: Pads	10 bales	
BRAZ - 27	Vehicle	ATV w/Trailer	1 each	

Tactical Objective

Prevent product from impacting San Luis Pass County Park sensitive marshes and residential areas.
Contain and conduct appropriate shoreline cleanup efforts to recover product to extent possible.
Minimize impact to wildlife in the area.

Location of Work

Latitude: N 29°04'49" Longitude: W 95°7'52". From Galveston I-45 Causeway to 61st St., turn right 1.6 mi to Seawall Blvd.(3005), turn right on Seawall Blvd.(3005) 22mi over San Luis Pass Bridge to San Luis Pass Park on right and follow right 0.1 mi to access point and boat ramp.
STAGING AREAS: San Luis County Park & Boat Ramp 29-04-43 N 095-07-51 W
To Boat Ramps: I-45 south of Houston to Seawall Blvd. (FM 3005), proceed west to the first exit after crossing the San Luis Pass bridge, take exit and turn north into the park area
TGLO TOOL KIT - GRP - Sector Houston-Galveston, TX - SITE SPECIFIC RESPONSE SHEET 29. Christmas Point
CHART(S): Nautical Chart (11322) Upper Coast Atlas Page 49
From MSU Galveston: South on Hwy 87, crossing the San Luis Pass Bridge.
Closest Airport: Scholes Field Airport GLS; Closest Helicopter Landing: Scholes Field Airport, 29°15'55.16"N 094°51'37.46"W

Special Environmental Considerations

See TGLO ESI Map 49 - Christmas Point

ICS 204 - Assignment List | Printed: 1/28/2008 14:34 | Page 1 of 3 | © 1997-2008 dbSoft, Inc.

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Advanced COP Integration

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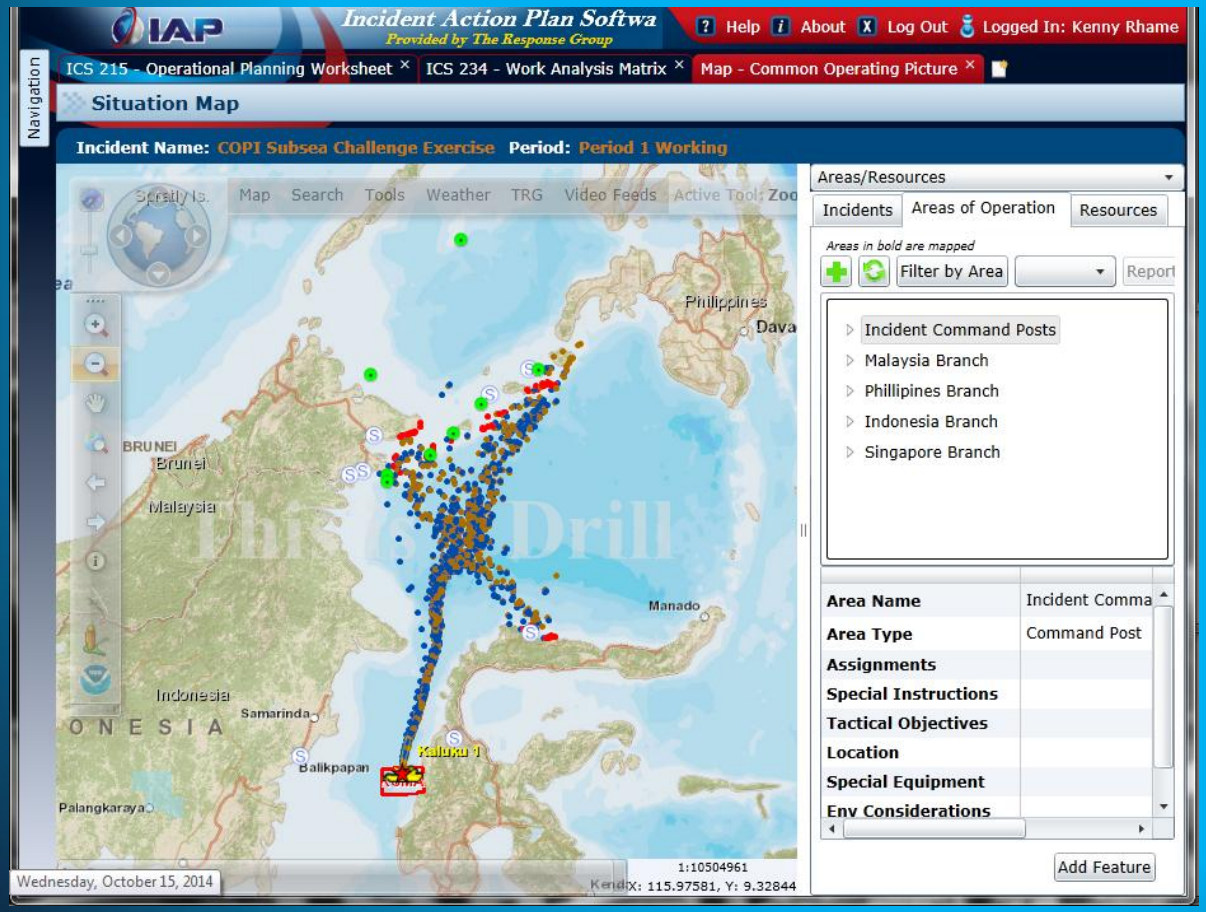
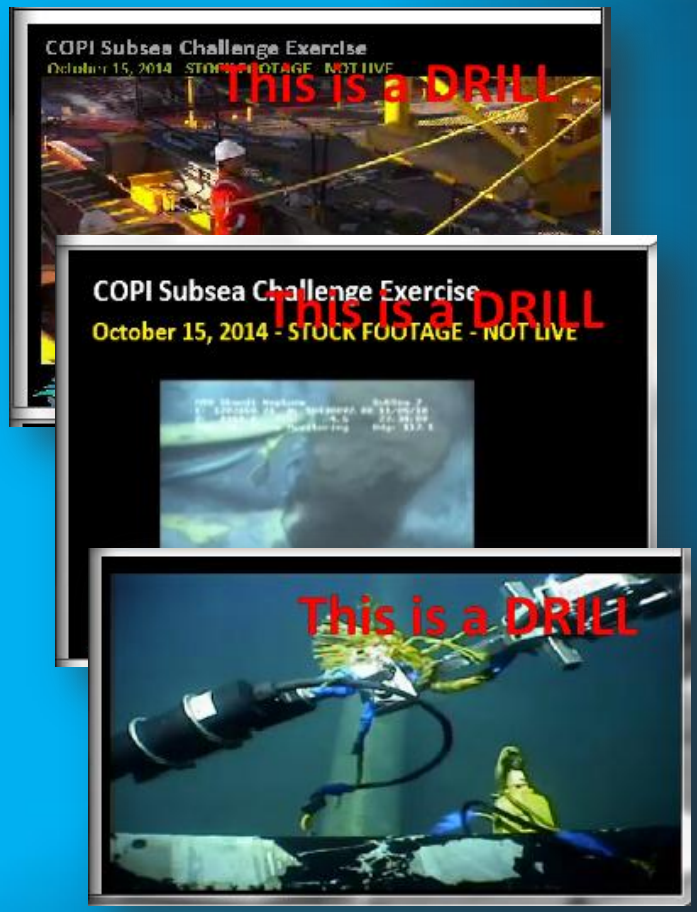
Live Feeds

- GPS tracking of resources
- AIS vessel tracking
- Traffic and road closures
- Weather data
- Video feeds
- Social Monitoring





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TRG Recon - SCAT

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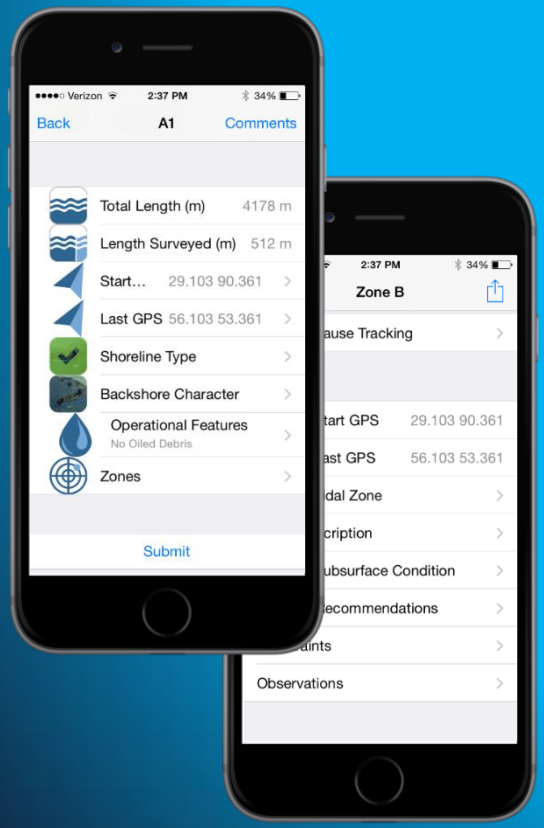
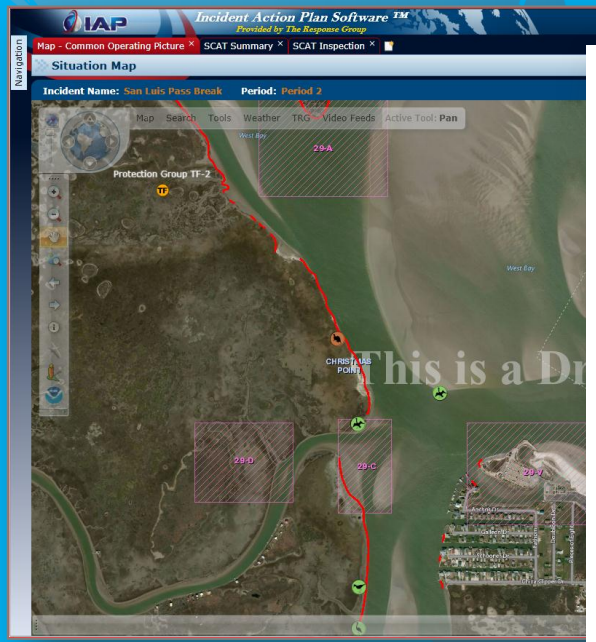
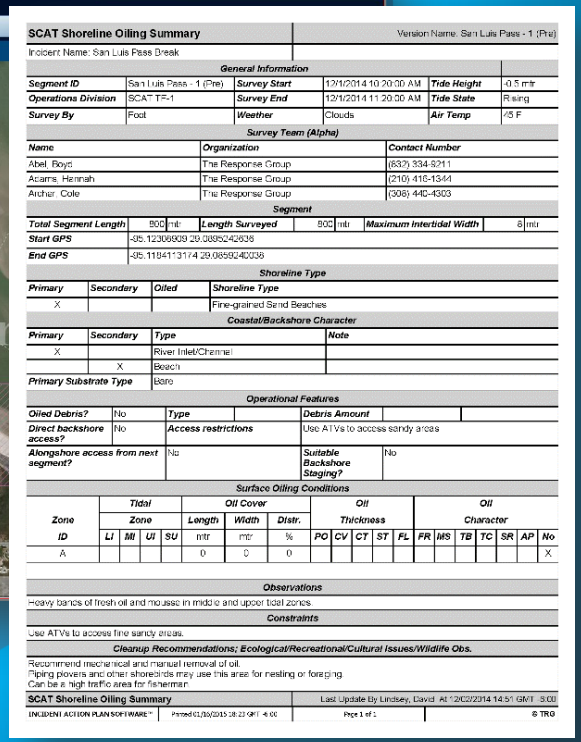
- Create NOAA Shoreline Oiling Summary forms in the field using mobile devices
- Create SCAT Segments tracing footsteps using “breadcrumbs”
- Direct integration with IAP Software
  - NOAA Shoreline Oiling Summary (SOS) Form
  - Common Operating Picture (COP)







SCAT Shoreline Oiling Summary

Version Name: San Luis Pass - 1 (Pre)

Incident Name: San Luis Pass Break

General Information

Segment ID	San Luis Pass - 1 (Pre)	Survey Start	12/1/2014 10:20:00 AM	Tide Height	-0.5 mtr
Operations Division	SCAT TF-1	Survey End	12/1/2014 11:20:00 AM	Tide State	Rising
Survey By	Foot	Weather	Clouds	Air Temp	75 F

Survey Team (Alpha)

Name	Organization	Contact Number
Abel, Boyd	The Response Group	(832) 334-8211
Adams, Hannah	The Response Group	(210) 416-1344
Archer, Cole	The Response Group	(308) 440-4303

Segment

Total Segment Length	800 mtr	Length Surveyed	800 mtr	Maximum Intertidal Width	6 mtr
Start GPS	-95.12306909 29.0885242638				
End GPS	-95.11941131714 29.0859240038				

Shoreline Type

Primary	Secondary	Oiled	Shoreline Type
X			Fine-grained Sand Beaches

Coastal/Backshore Character

Primary	Secondary	Type	Note
X		River Inlet/Channel	
	X	Beach	

Primary Substrate Type: Bare

Operational Features

Oiled Debris?	No	Type		Debris Amount	
Direct backshore access?	No	Access restrictions	Use ATVs to access sandy areas		
Alongshore access from next segment?	No	Suitable Backshore Staging?	No		

Surface Oiling Conditions

Zone ID	Tidal Zone Li	Mi	Ui	Su	Oil Cover Length mtr	Width mtr	Distr. %	Oil Thickness PO	CV	CT	ST	FL	Oil Character FR	MS	TB	TC	SR	AP	No
A					0	0	0												X

Observations

Heavy bands of fresh oil and mousse in middle and upper tidal zones.

Constraints

Use ATVs to access fine sandy areas.

Cleanup Recommendations; Ecological/Recreational/Cultural Issues/Wildlife Obs.

Recommend mechanical and manual removal of oil.
Piping plovers and other shorebirds may use this area for nesting or foraging.
Can be a high traffic area for fishermen.

SCAT Shoreline Oiling Summary — Last Update By Lindsey, David At 12/2/2014 14:51 GMT -5:00

INCIDENT ACTION PLAN SOFTWARE™ — Printed 01/30/2015 18:23 GMT -6:00 — Page 1 of 1 — © TRG

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Situation Status Display

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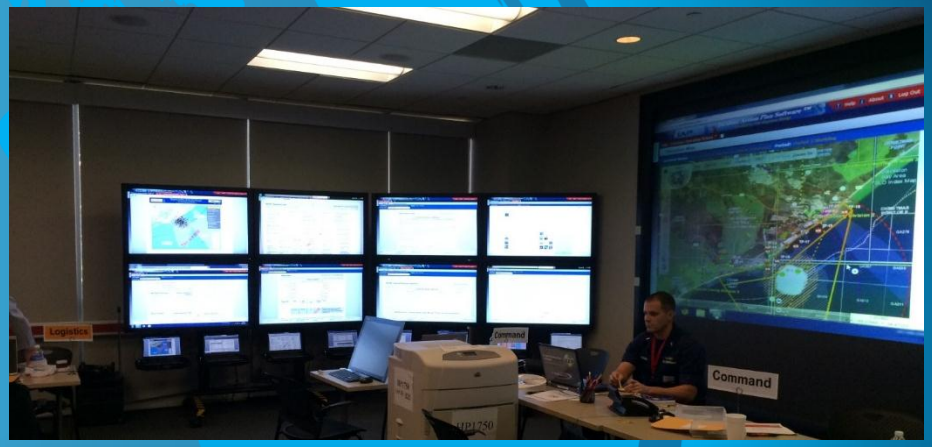
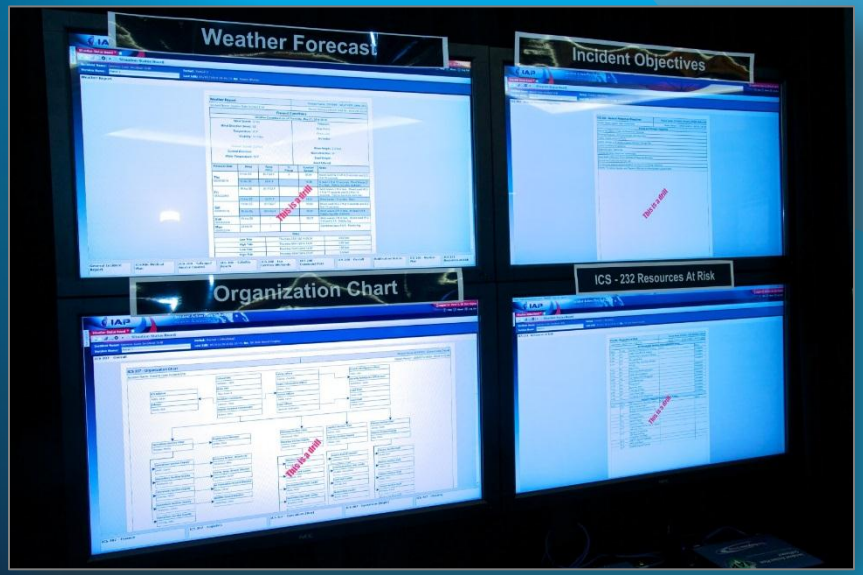
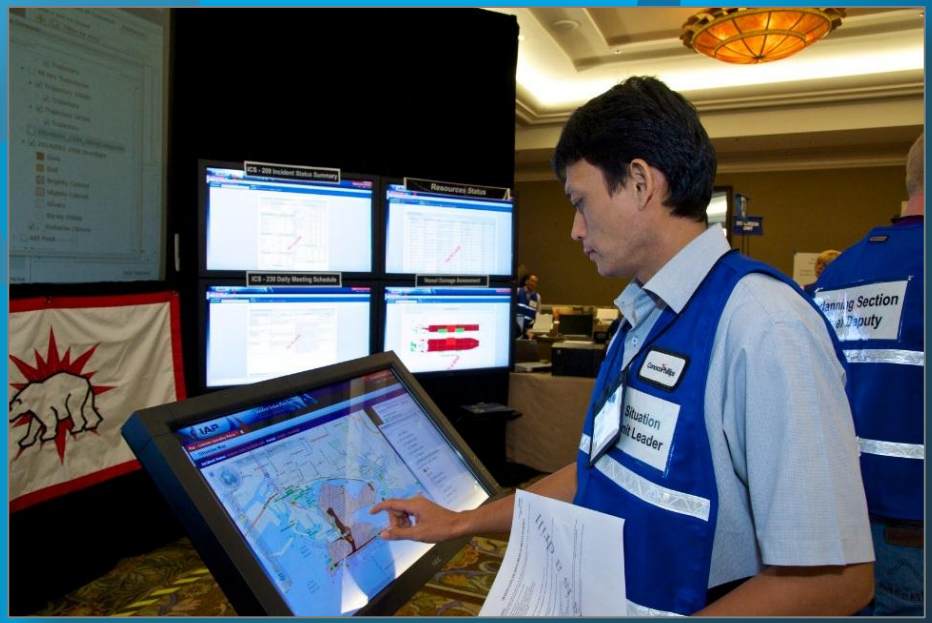
Electronic Situation Status Display Kit

- Multi-touch LCD Monitors
- 32” Multi-touch console for COP
- Large screen for center display
- Easy setup with motorized cases







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Examples

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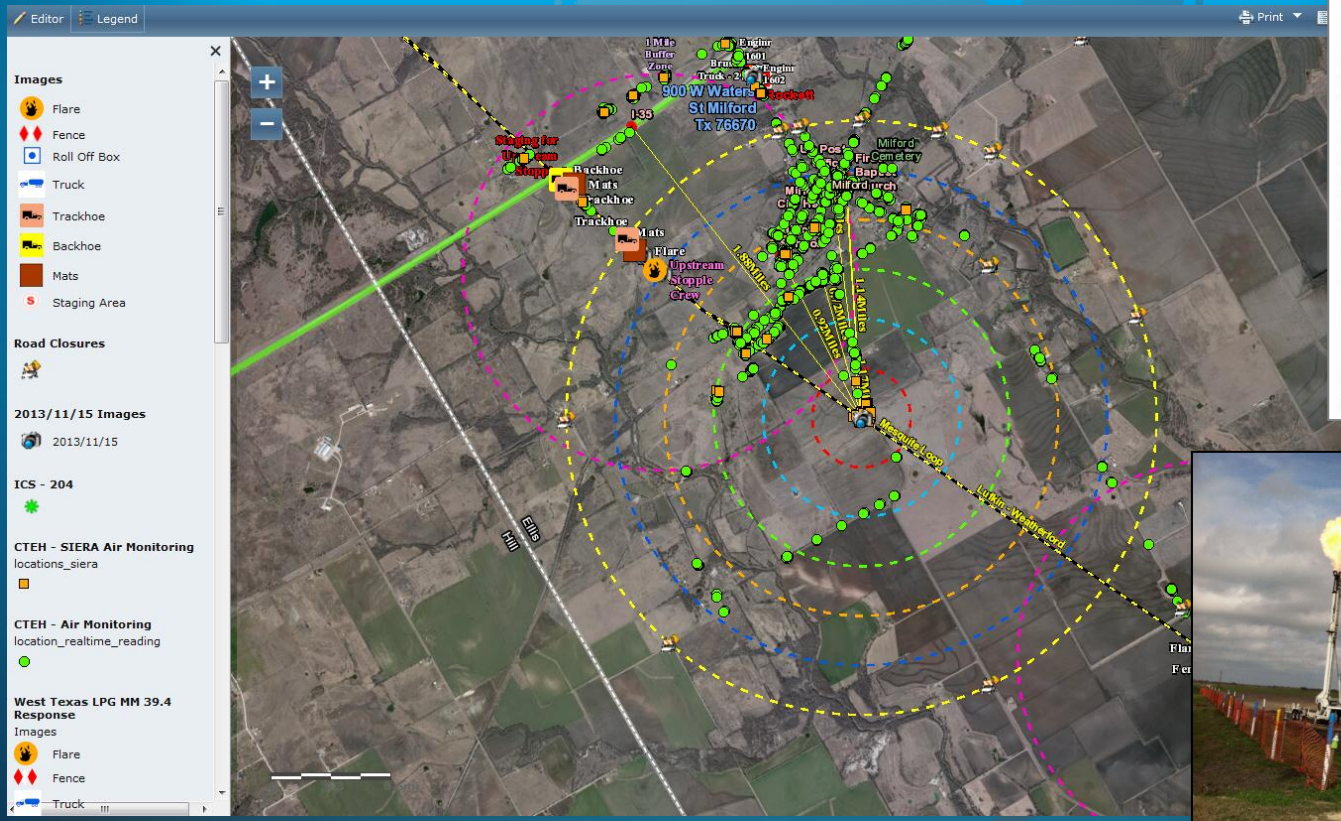
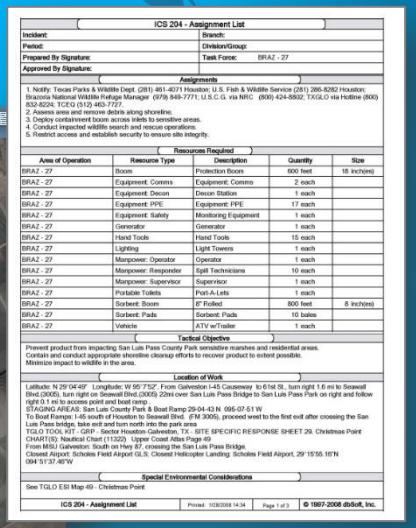
Pipeline Response

- Integrated with client ArcGIS Online accounts
- Air monitoring provided by CTEH
- ICS 204 access from map on mobile devices





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Special Environmental Considerations

See TGLO ESI Map 49 - Christmas Point

ICS 204 - Assignment List | Printed: 10/28/2014 14:34 | Page 1 of 3 | © 1997-2008 dbSoft, Inc.

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Examples

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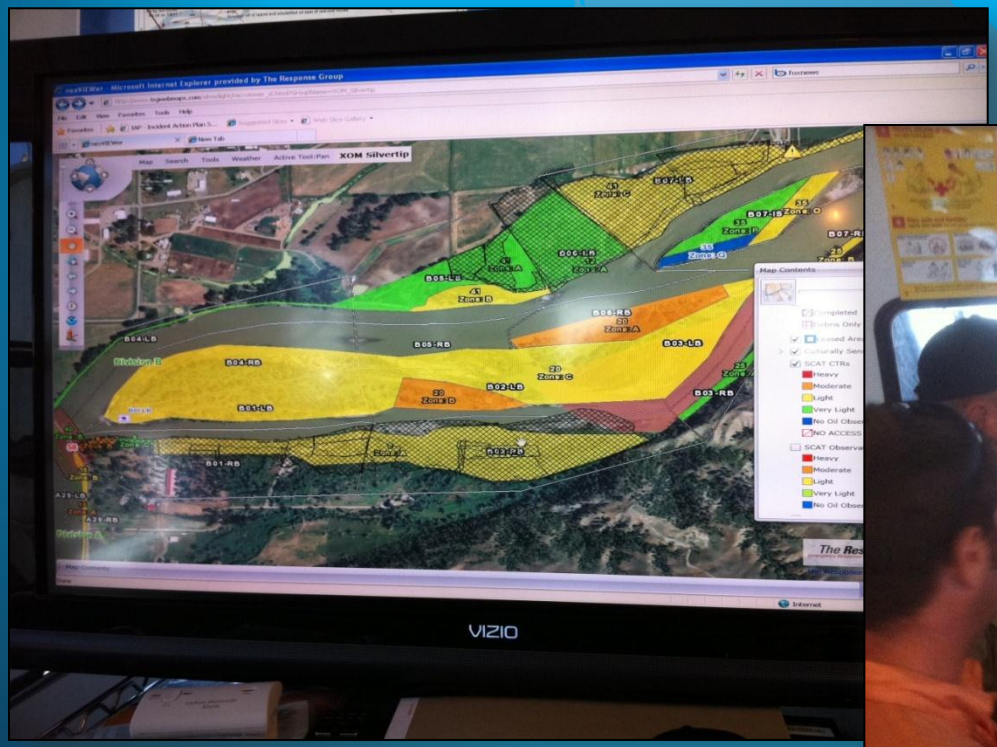
Yellowstone River Response

- Operational status updates from the field using mobile devices
- COP display with operational field updates



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Examples

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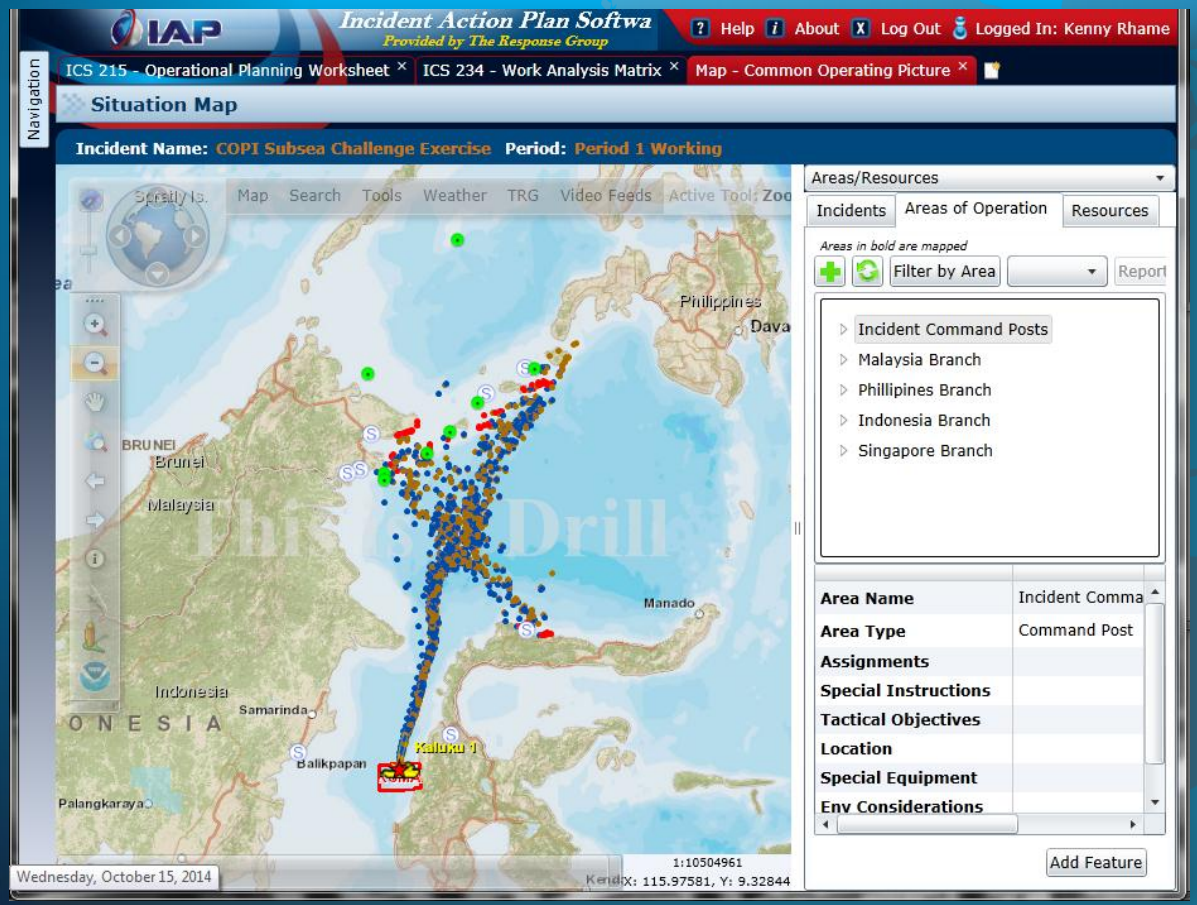
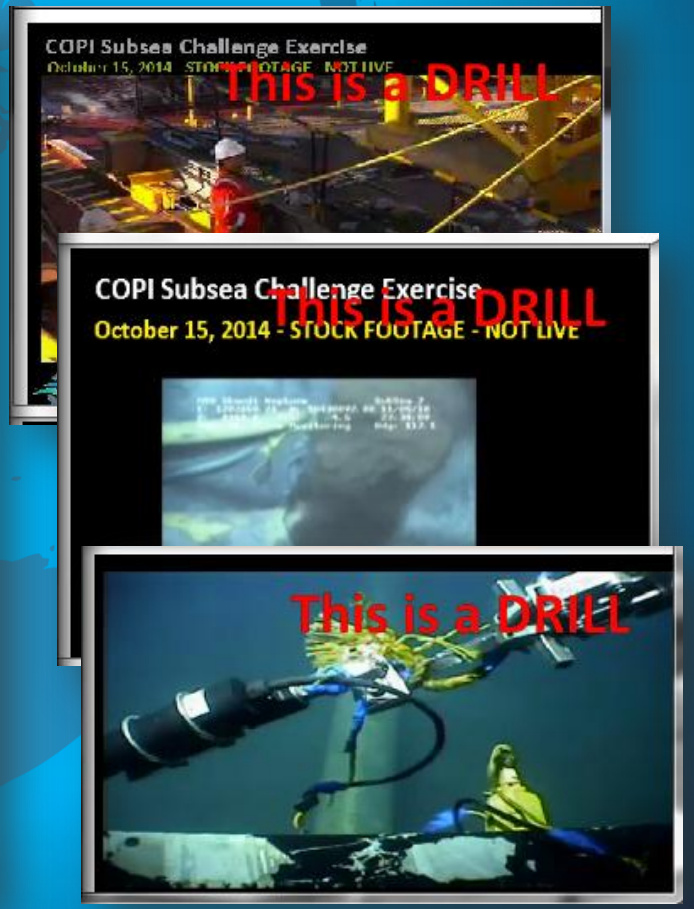
Indonesia Exercise

- COP display in Indonesia, Singapore and Houston EOC
- Streaming videos (both live and stock footage)
- COP used for Executive Team briefings





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Questions/Comments?

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