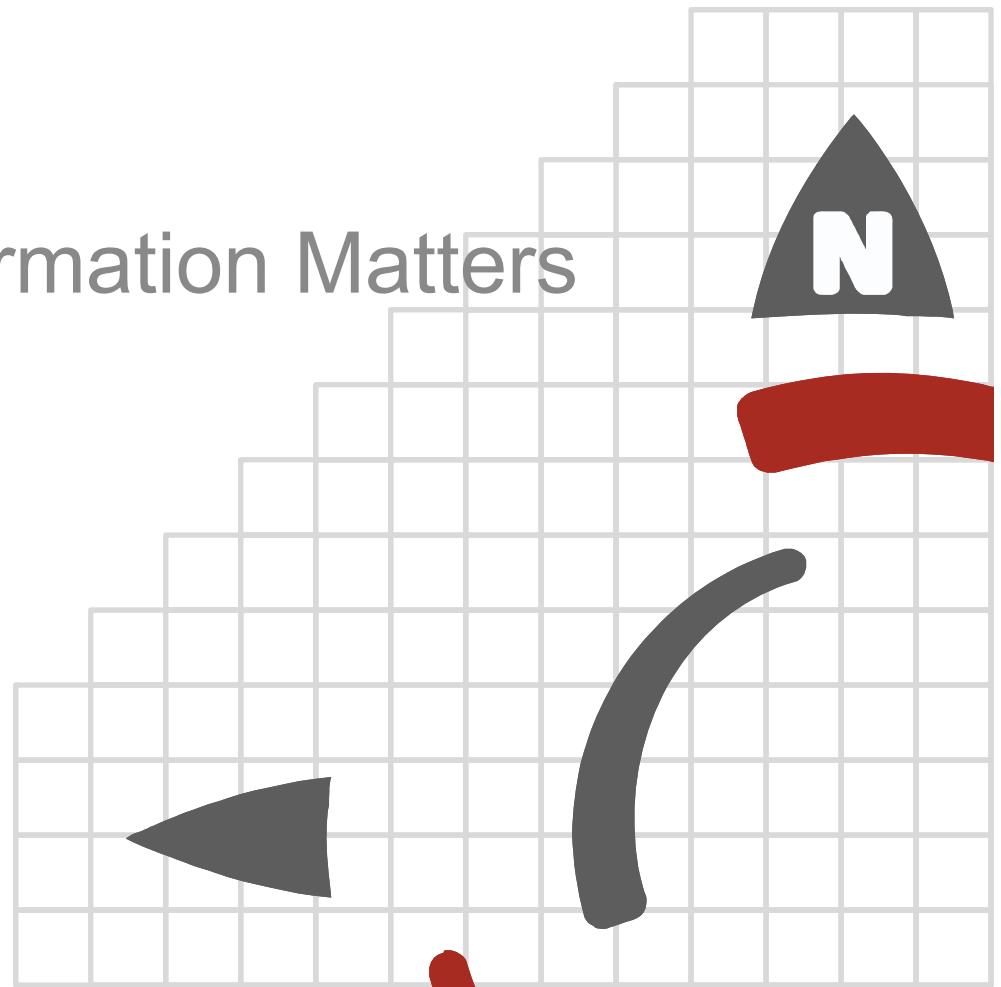


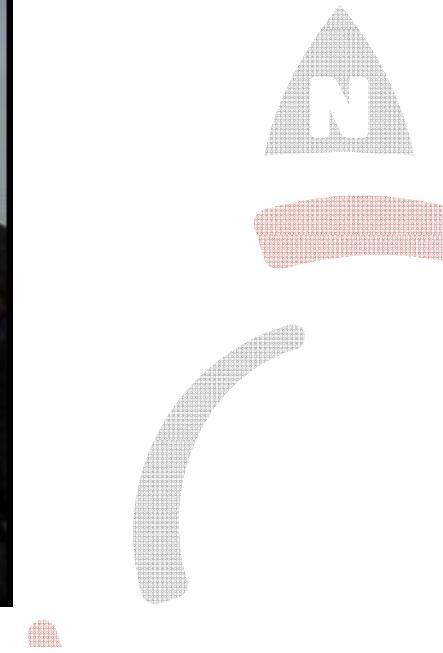
iMMAP

Because Information Matters



Vision

For iMMAP to be an international resource, for relief and host government agencies, that successfully integrates data into practical humanitarian plans through information management and supporting services.



Mission

iMMAP's mission is to alleviate the pain and suffering of those in need. iMMAP accomplishes this important mission by providing decision makers at all levels with reliable, relevant, and timely information upon which to act.



Core Competencies

- Humanitarian Information Management Support;
- Landmine/UXO Surveys and Information Management;
- Public Health, Refugee Surveys and Rapid Humanitarian Assessments;
- Technical Assistance;
- Technical Advisory Support;
- Software Development
- Training



Partnerships

- WFP Stand-By Partner
- IMSMA Global Implementing Partner
- Geographic Information Support Team (GIST)
- InterAgency Standing Committee (IASC) Information Management Task Force
- InterAction
- Microsoft
- GeoDecisions



Donors



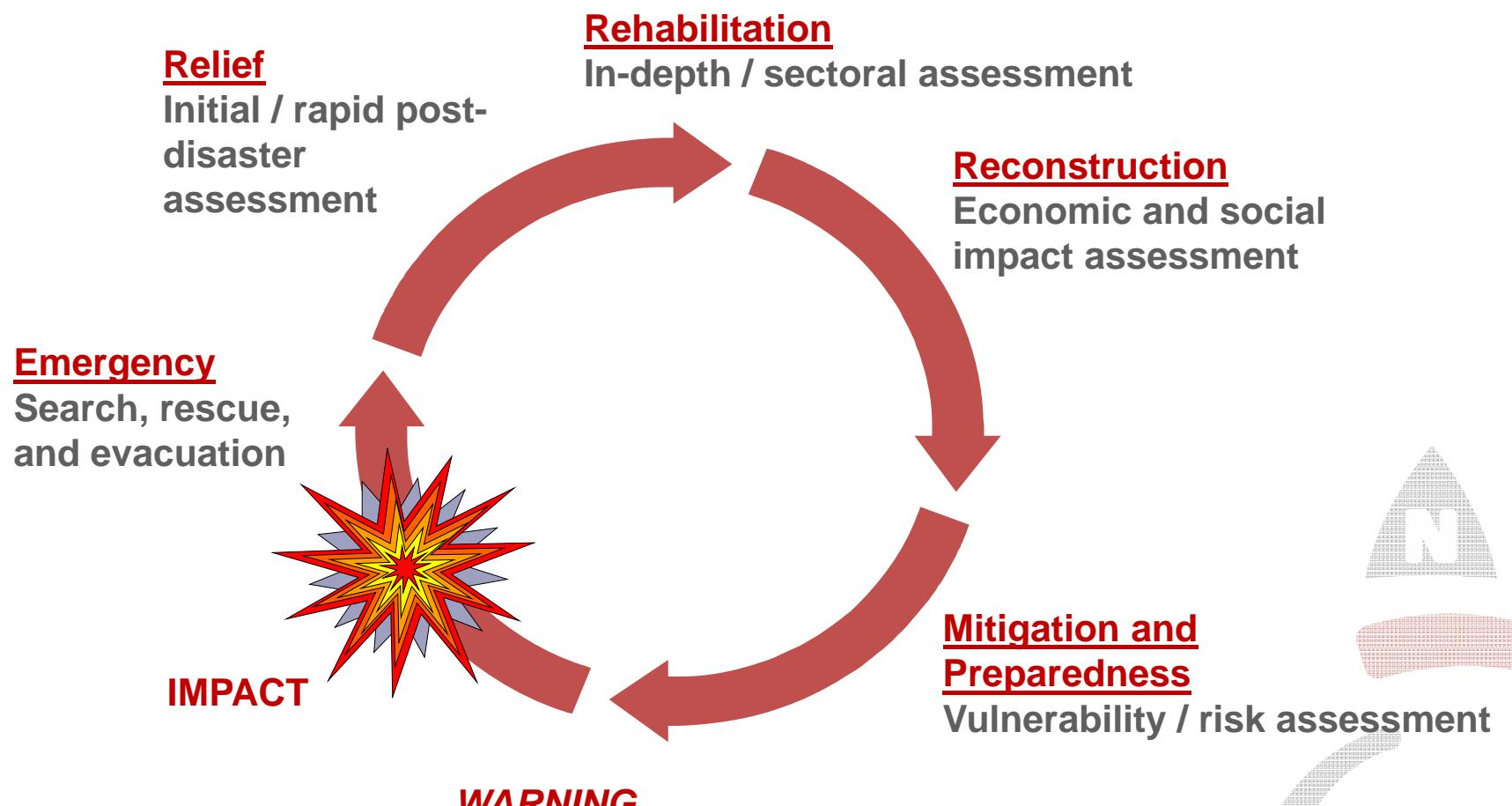
USAID
FROM THE AMERICAN PEOPLE



UNHCR
The UN Refugee Agency

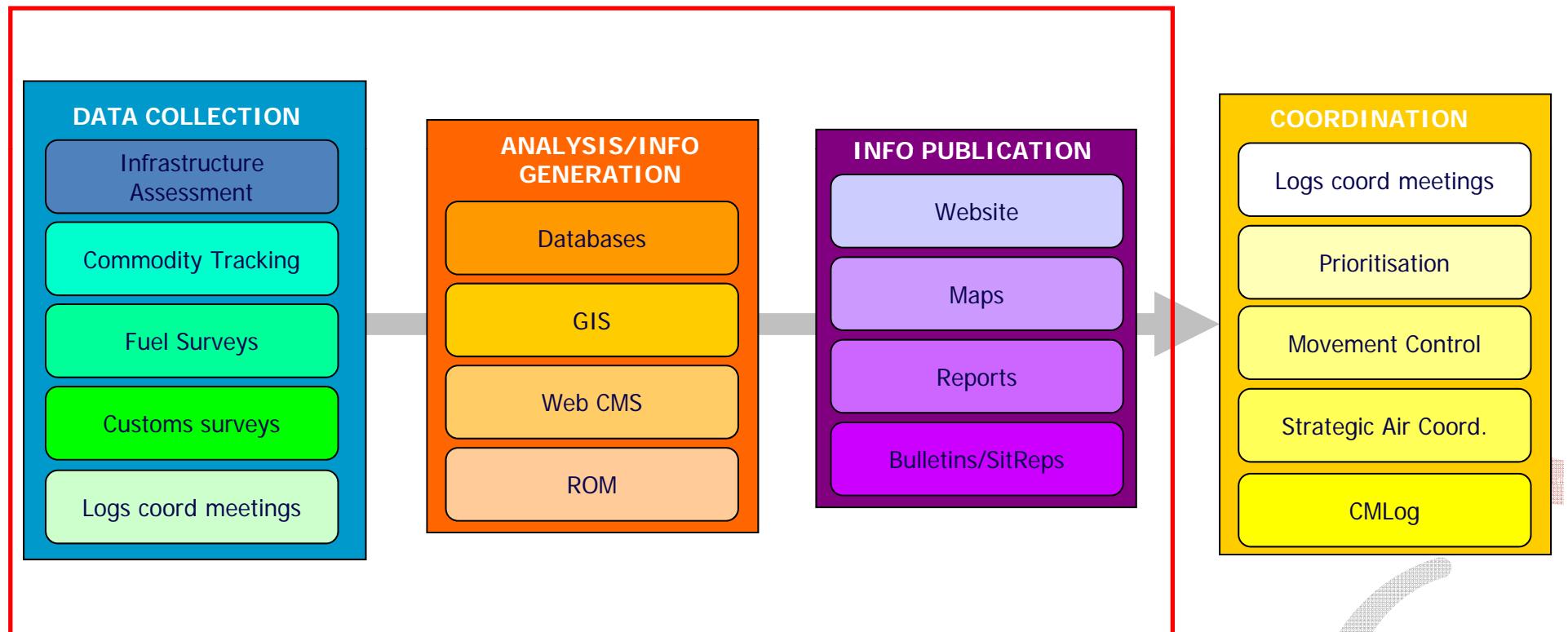


Foreign Affairs and
International Trade Canada

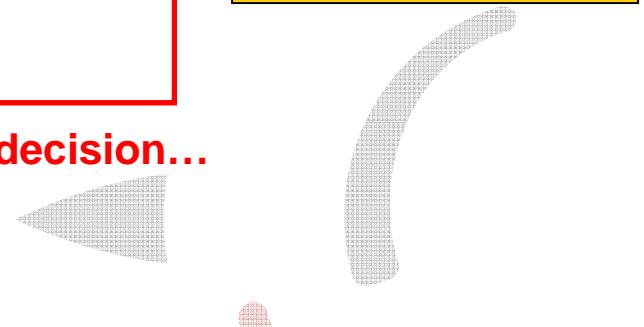


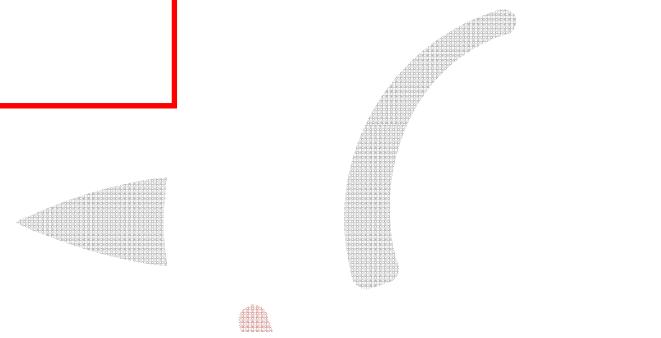
- 
- Need to set up distribution system quickly
 - Need to take account of existing structures
 - Wide variety of goods to transport
 - Conflicting agendas within humanitarian community
 - Poor/inaccurate information
 - Chaos/Political factors/security
 - Terrain
 - Climate
 - Damaged infrastructure
 - Dynamic theatre of operations
 - Storage availability

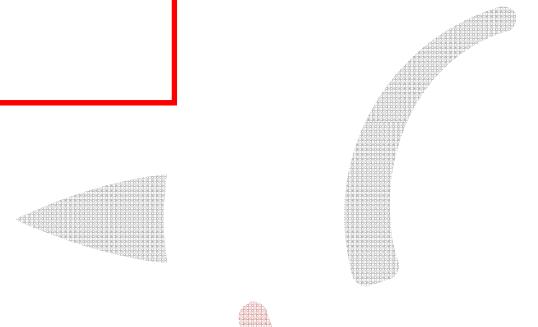
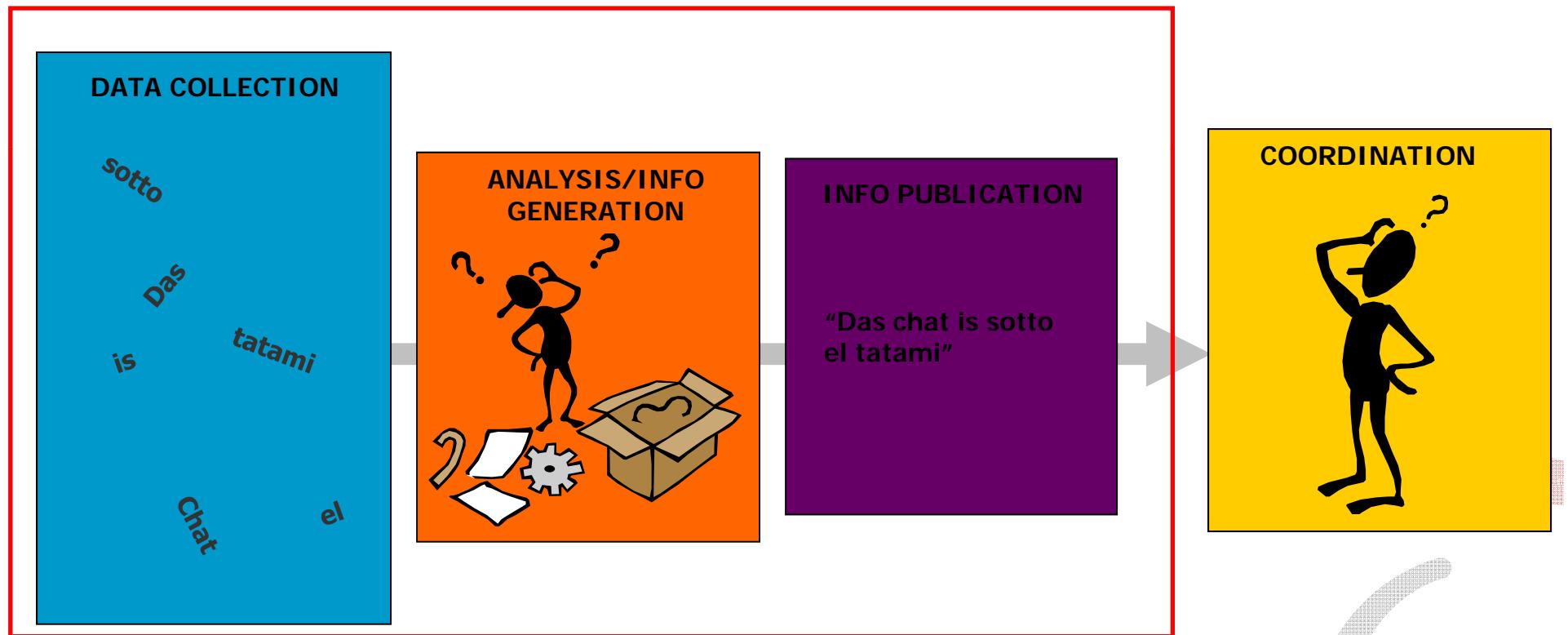
Photo: WFP

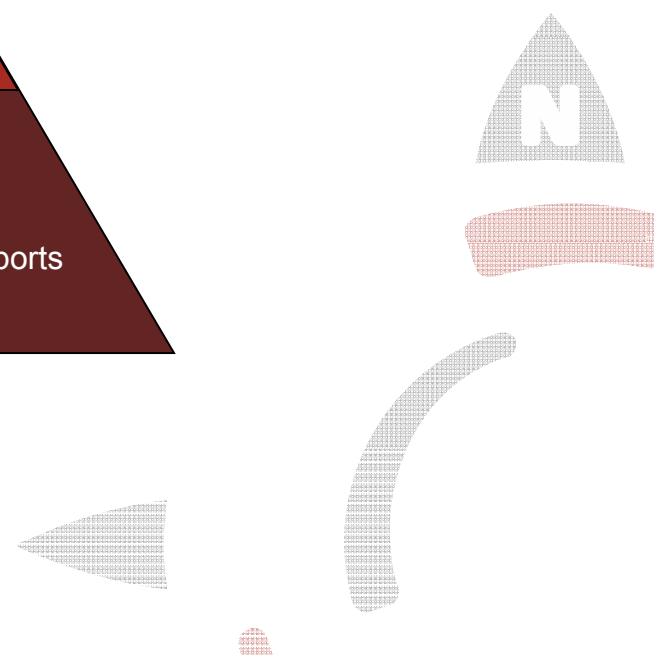
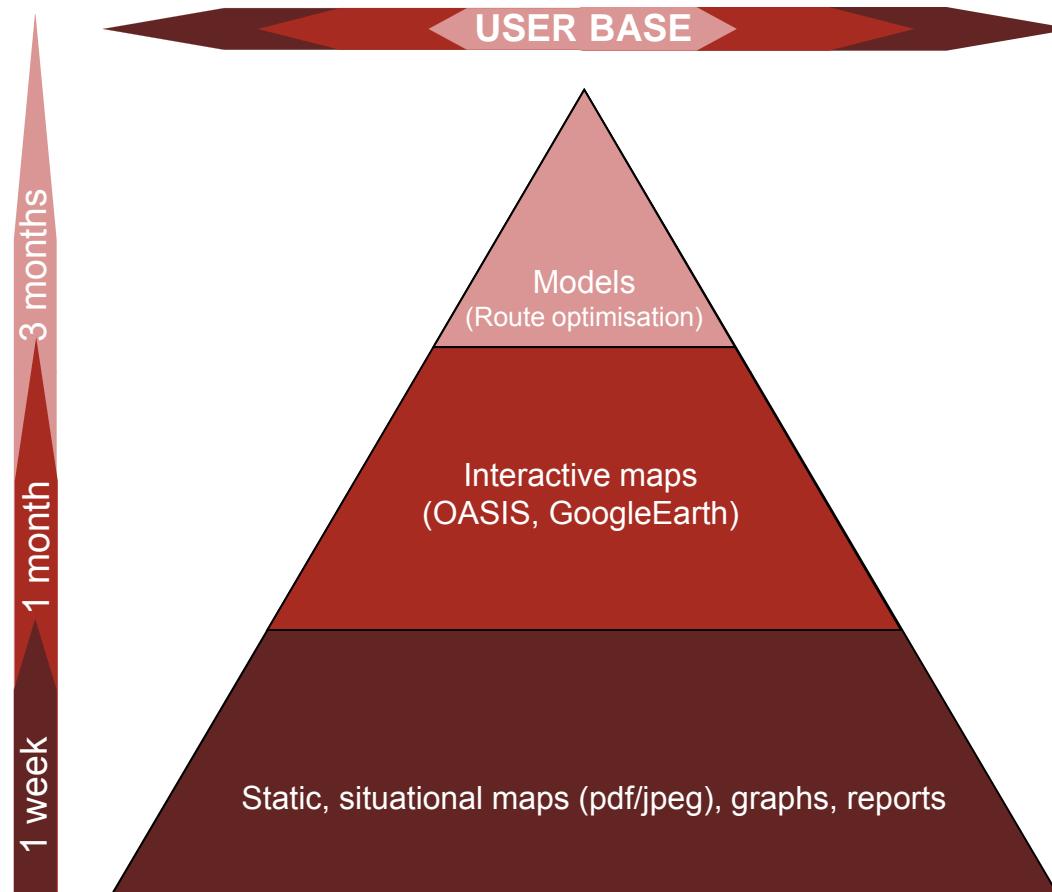


We support the decision-making process, we don't make the decision...

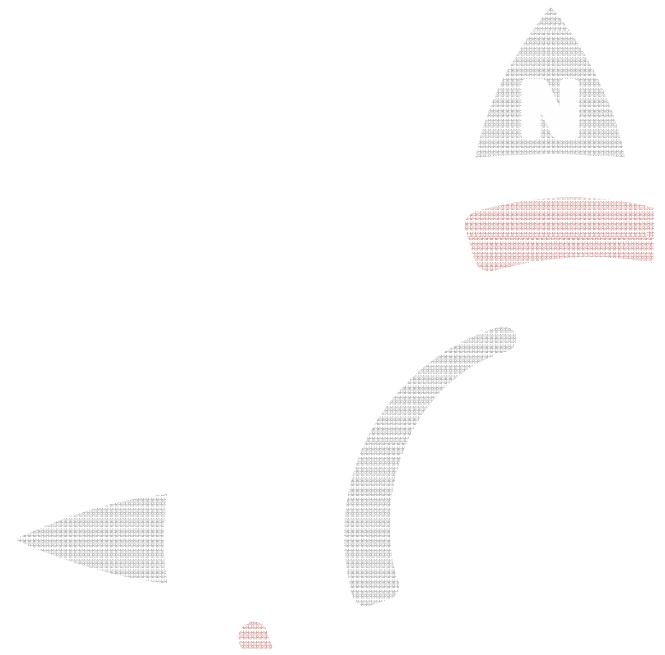






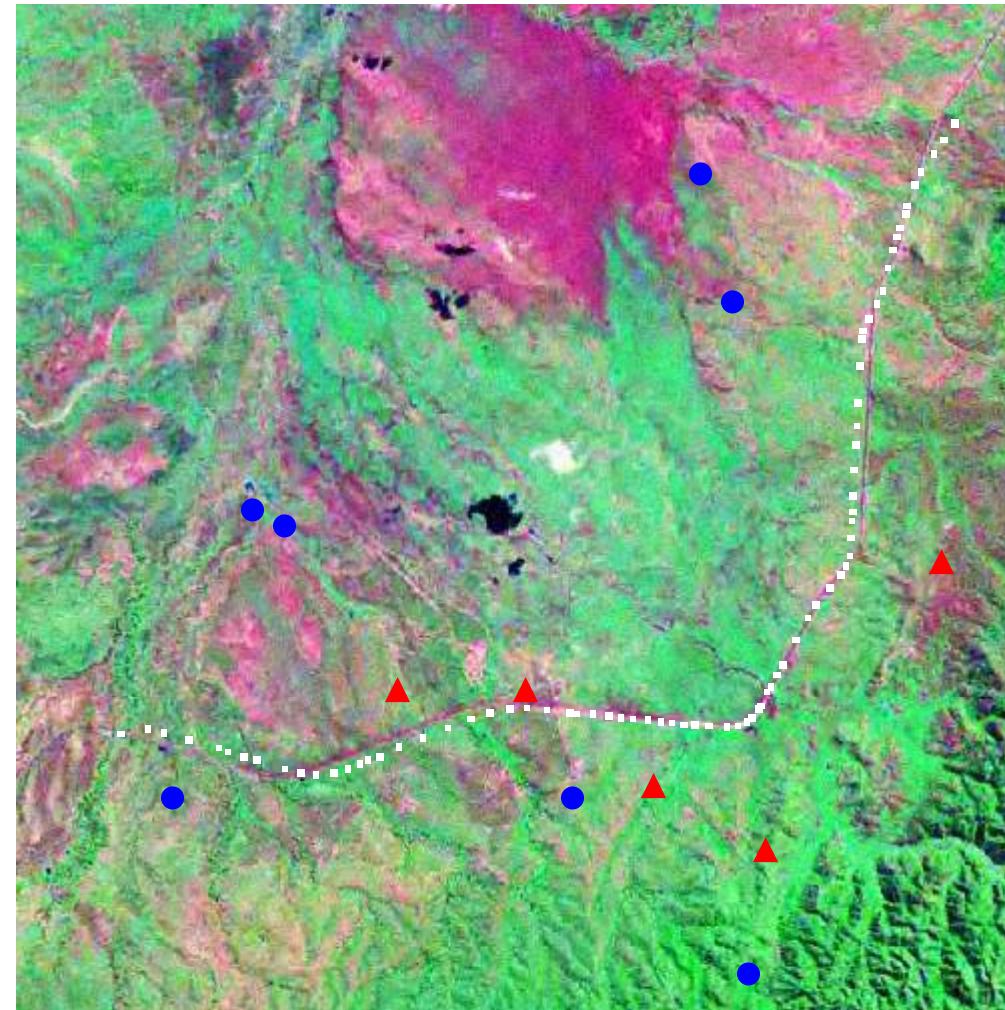


- Poor/Incomplete information
- Chaos/Political factors/security
- Terrain
- Climate
- Damaged infrastructure
- Dynamic theatre of operations
- Storage availability



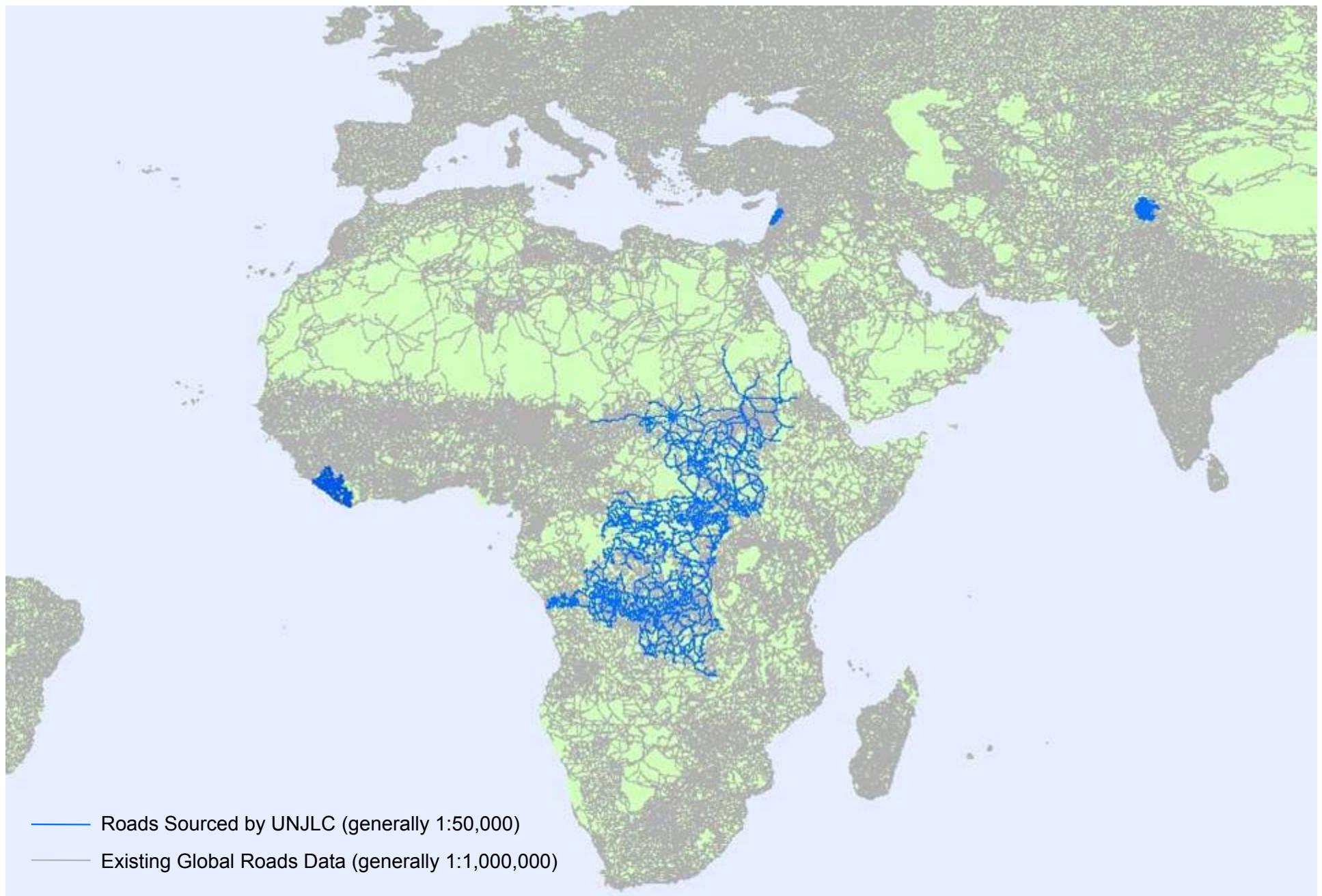


- water sources
- ▲ camp sites

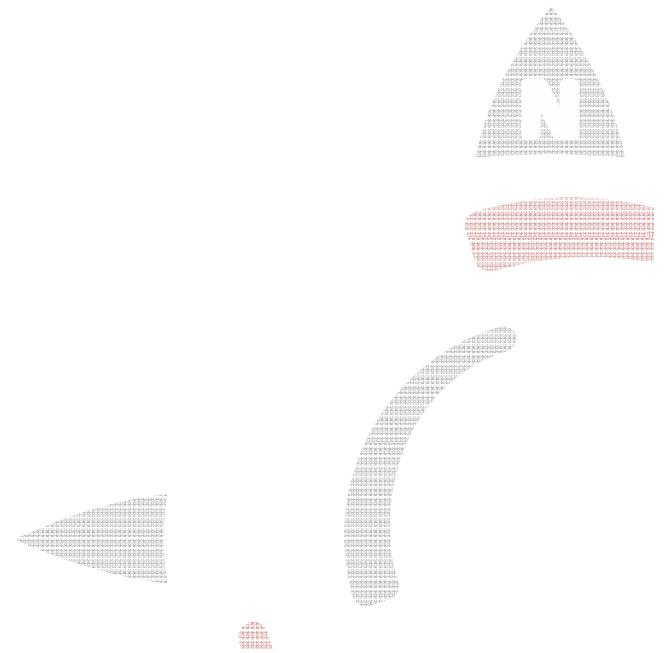


UNSDI-T v1.2 Emergency Assessment Form - Roads

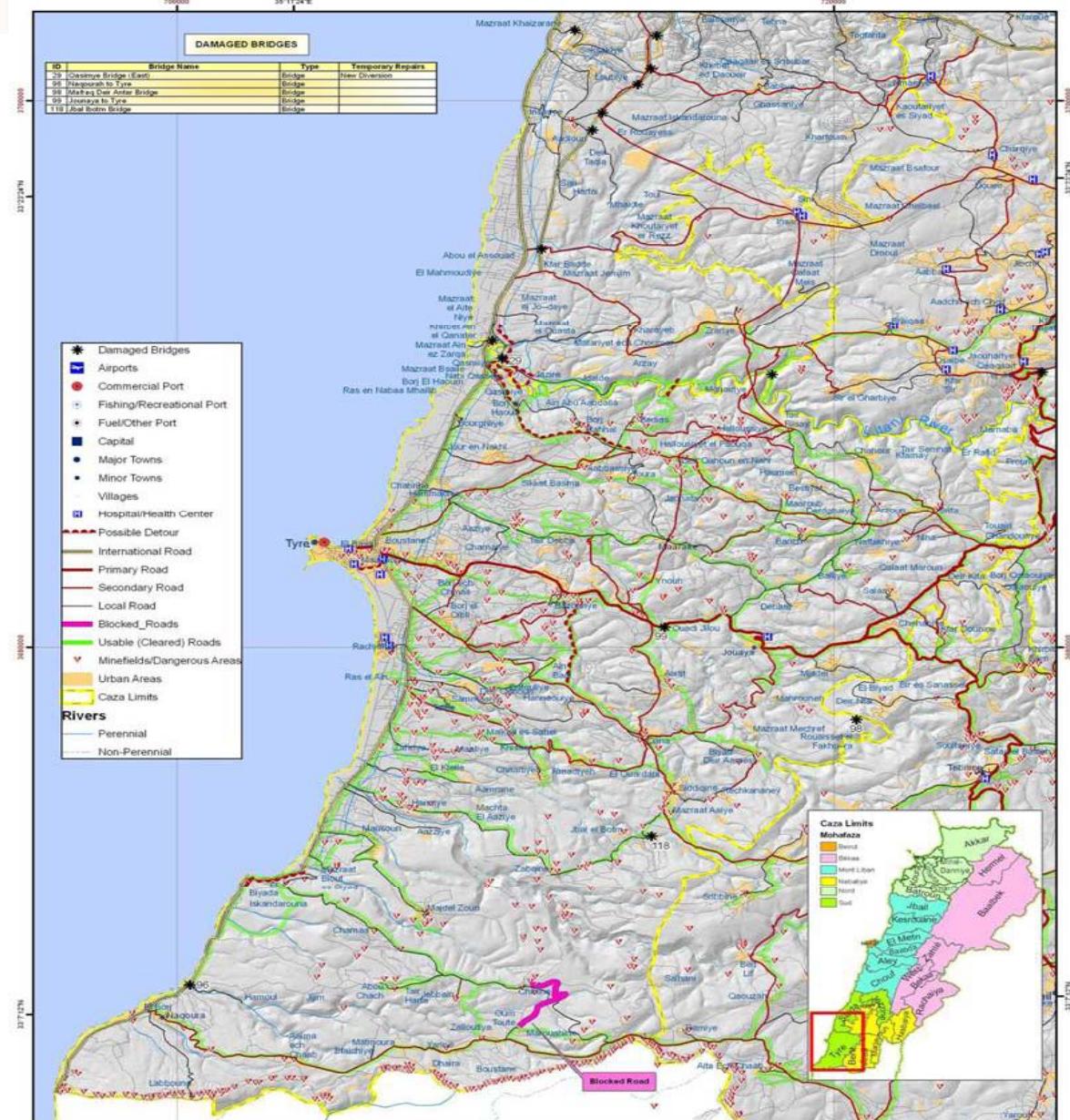
Obstacles



- Poor/Incomplete information
- Chaos/Political factors/security
- Terrain
- Climate
- Damaged infrastructure
- Dynamic theatre of operations
- Storage availability







Produced By:
UN Joint Logistics Centre, Lebanon
With kind support from the Vietnam Veterans of America Foundation

Data Source: VVAP, GIST, SDATL, WFP, MACCSL, UNPIL, WHO & MOPW.

Date Created	4-10-2006	Datum	WGS84
UNJLC Map Num:	UNJLC-LBN-052_A3	GLIDE Num:	
The boundaries and names and the designations used on this map do not imply official endorsement or acceptance by the United Nations.			
WGS 84 Grid	UTM 38N Grid		

UN Joint Logistics Centre, Lebanon, Email: lebanon.maps@unjlc.org, Website: www.unjlc.org/lebanon

OASIS MODULES

- OASIS GIS Module**
OASIS GIS module, tools for geographical security analysis and reports
- OASIS Weather Satellite Viewer**
VVAF's weather satellite imagery viewer
- OASIS Dynamic Content Update**
Latest feeds from OASIS server

Reported Incident

Type	Count
Distribution_of_Small_Arms_Fire	18
Distribution_ofIEDs	9
Distribution_of_Ambushes	1
Distribution_of_ArmedAttacks	1
Distribution_of_Bombings	1
Distribution_of_MortarAttacks	1
Distribution_of_RPGAttacks	1
Distribution_of_Snippings	1
Distribution_of_Uncertain	1

Reported Incident by Distribution_of_Incidents

Range	Count
4 to 18 (11)	11
3 to 4 (5)	5
2 to 3 (3)	3
1 to 2 (3)	3
0 to 1 (80)	80

OASIS by Incident Target

Target	Count
Int. Contractor (1)	1
Int. Sec. Force (6)	6
Loc. Gov. Officials (2)	2
Unknown (119)	119

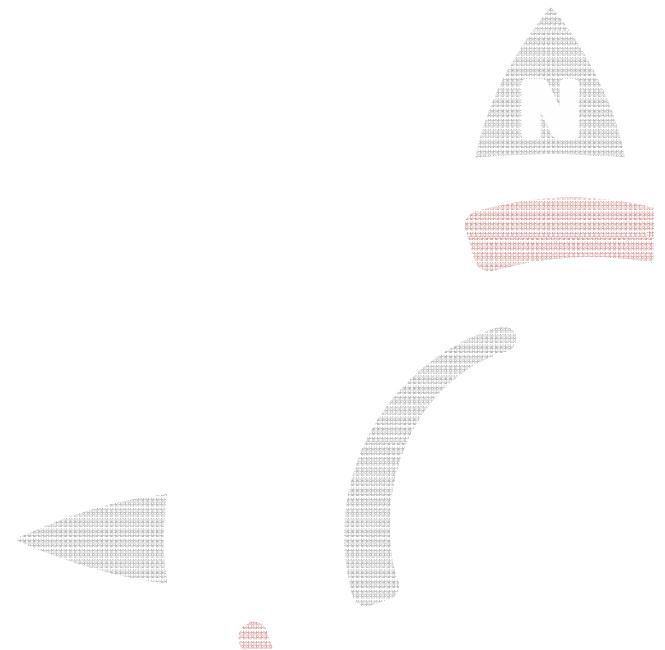
Zoom In Tool Zoom: 180000 m. X:44.84067 Y:32.691

Show incidents categorized by: Target Zoom 180000 m

Type

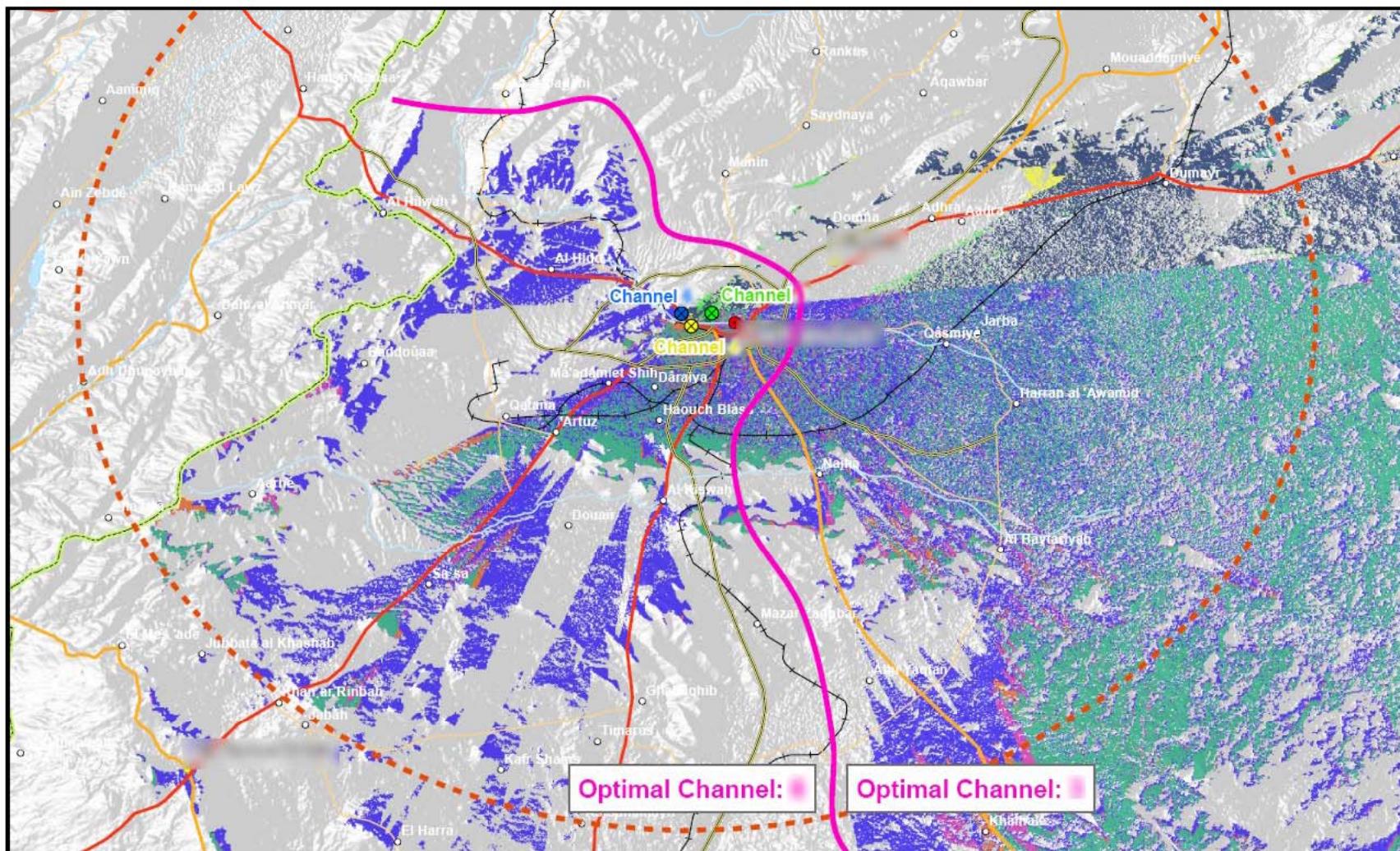
ID	Date of Inci...	Time of Inci...	Incident Target	Province	District	Town	Description
+ Type : Ambush							
+ Type : ArmedAttack							
- Type : Bombing	(A60B493F-E836-4803)	/ /	Null	Int. Sec. Force	Baghdad		No description available
+ Type : IED							
- Type : Mortar							
7	09.03.2005		Unknown				No description available
20	09.03.2005		Unknown	Salah al-Din	Baqq	Baqq	No description available
22	09.03.2005		Unknown				No description available
48	11.03.2005		Unknown	Ninewa	Tikrit	Qaim	No description available
59	09.03.2005		Unknown				No description available
129							

- Poor/Incomplete information
- Chaos/Political factors/security
- Terrain
- Climate
- Damaged infrastructure
- Dynamic theatre of operations
- Storage availability





VHF line of sight analysis



VHF Coverage - Channels 3, 4 and 6

Produced By:
UN Joint Logistics Centre, Core Unit

Data Source: SRTM, VMAP0, ADC, WFP

A horizontal scale bar representing distance in kilometers. The bar is divided into five equal segments by tick marks. The first segment is explicitly labeled 'Kilometers' above the tick mark. Below the bar, numerical labels indicate the distance for each segment: 0, 5, 10, 15, and 20.

• 10 •

— 50 km radius around repeater

Repeaters

Channel

Channel *

Channel

Dato: 09/06/2023 | Retorno: MWS2024

1

LIN II C Map Num:

1

The boundaries and names and the designations used on this map do not imply

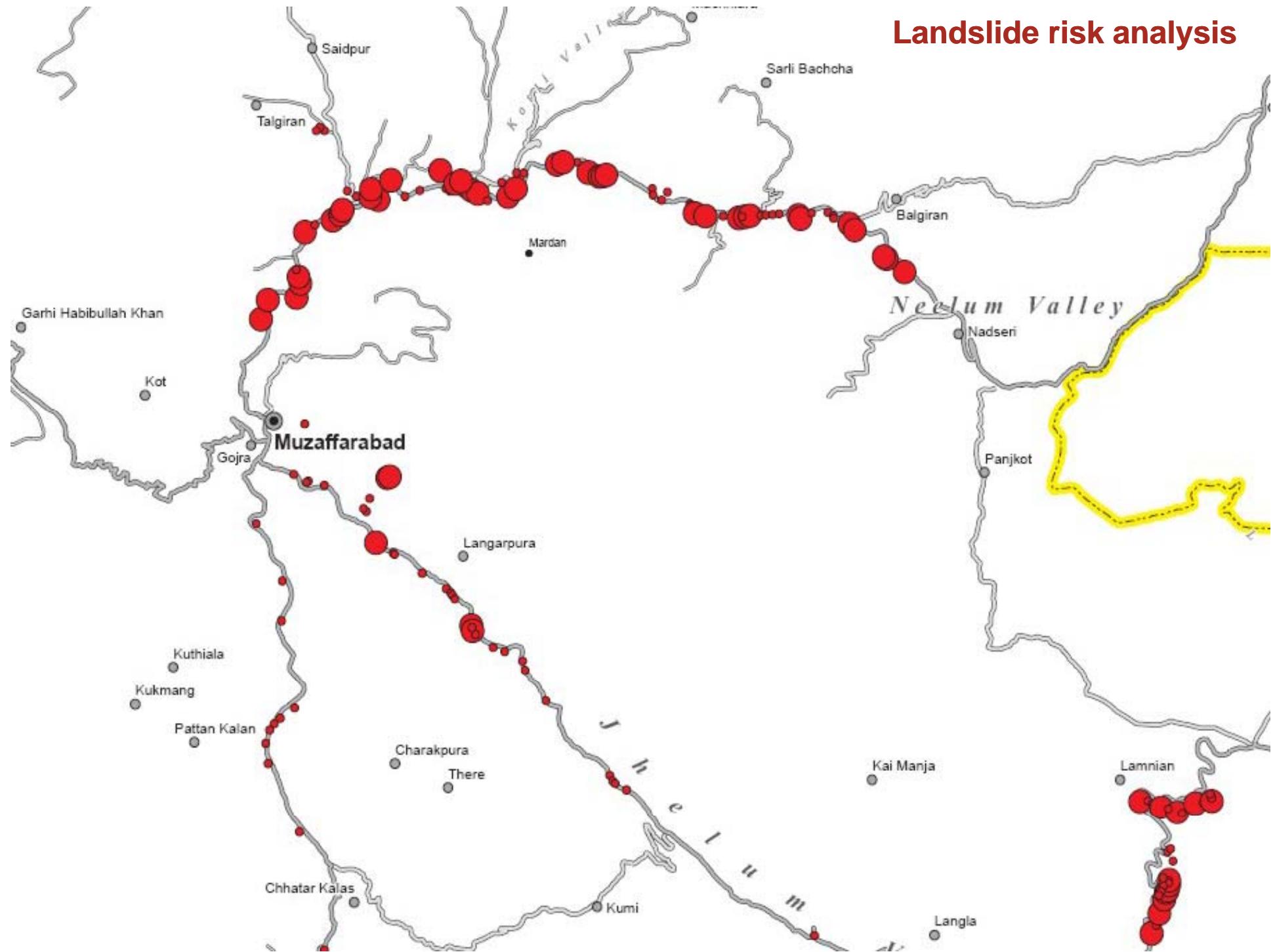
The boundaries and names and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

Caution: Viewshed analysis does not take into account reflection, refraction specific to the frequency, signal attenuation, interference, and other atmospheric effects on VHF signal range.

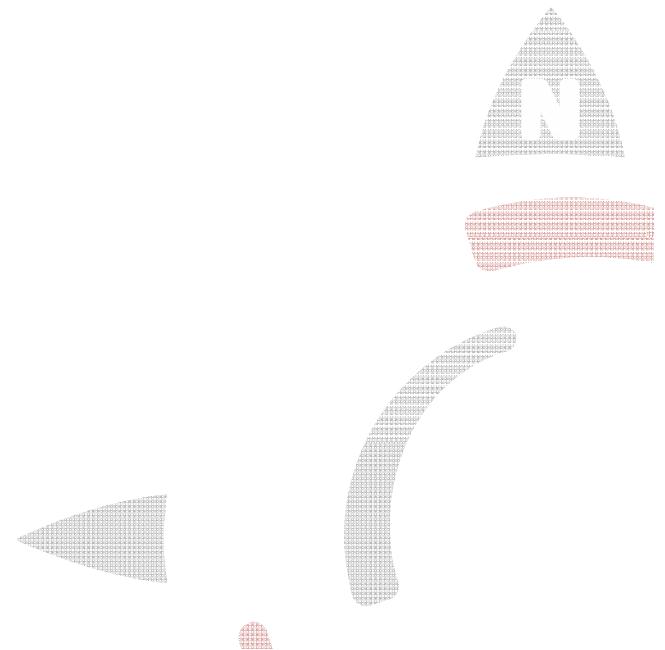
UN Joint Logistics Centre, Rome, Italy. Email: maap@unlc.org. Website: www.unlc.org/maapcenter

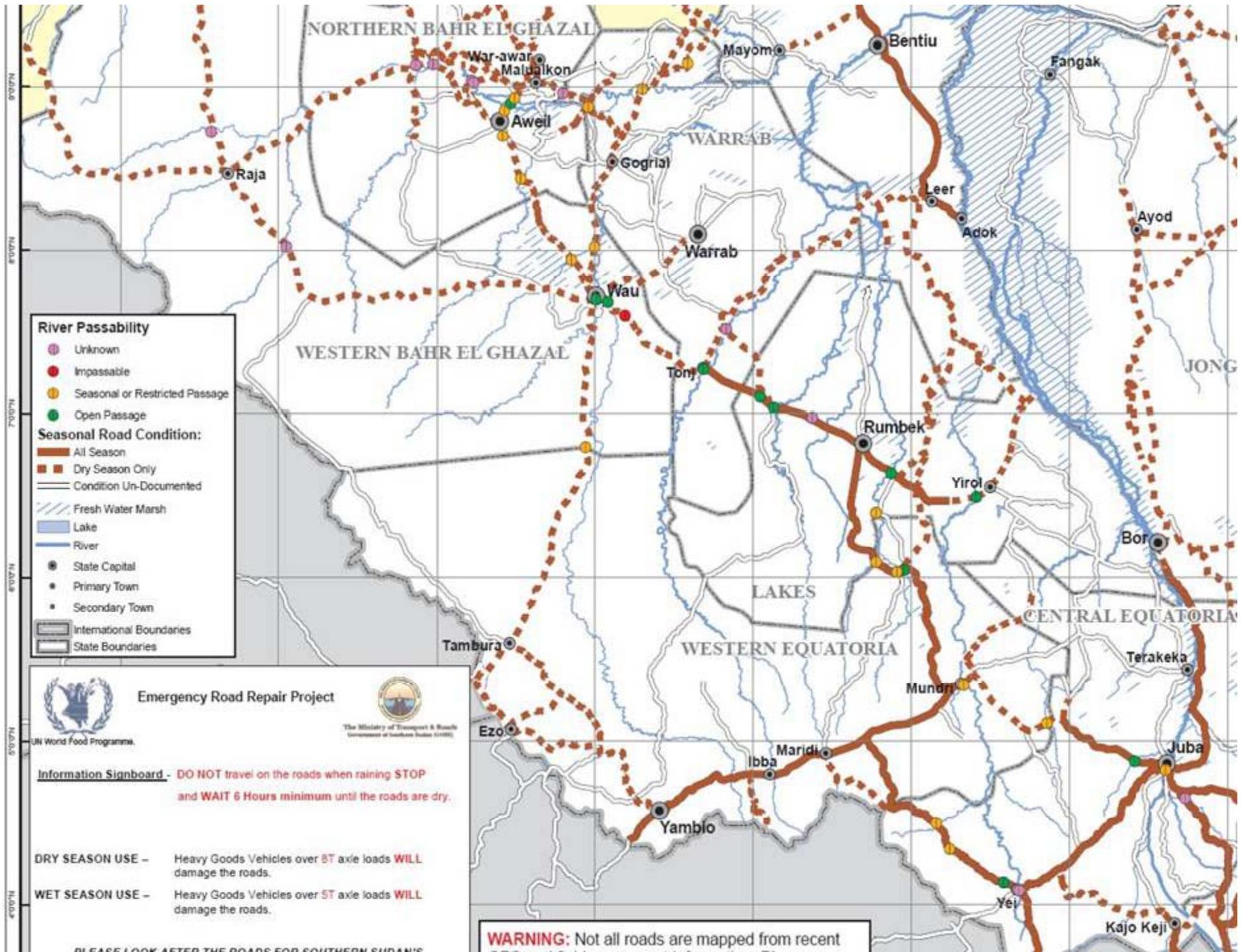


Landslide risk analysis



- Poor/Incomplete information
- Chaos/Political factors/security
- Terrain
- Climate
- Damaged infrastructure
- Dynamic theatre of operations
- Storage availability







Google Earth Plus

File Edit View Add Tools Help

Fly To Local Search Directions

e.g. 1600 Pennsylvania Ave, 20006

Places

- ITIMBIRI
Source Semantique: RVF
Source Geometrique: SPIAF / UNJLC
- KWANGO
Source Semantique: RVF
Source Geometrique: SPIAF / UNJLC
- KWANGO
Source Semantique: RVF
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Source Semantique: RVF
Source Geometrique: SPIAF / UNJLC

ITIMBIRI

Source Semantique: RVF
Source Geometrique: SPIAF / UNJLC
Axe: ITIMBIRI
Categorie: 1.00 - 1.50
Longueur: 41

Directions: [To here](#) - [From here](#)

Yaounde

Bang

Guinea

Democratic Republic of the Congo

Brazzaville

Kinshasa

Luanda

Abyei

Bentiu

Malakal

Wau

Rumbek

Maridi

Juba

Yei

Torit

Kampala

Kigali

Bujumbura

Image © 2007 TerraMetrics
© 2007 Europa Technologies

Pointer 0°55'02.67" N 21°45'17.91" E elev 376 m

Streaming 100%

Eye alt 2091.19 km

Layers

- Community Services
- US Government
- Digital Globe Coverage

Lodging Dining

Roads Borders

Terrain Buildings

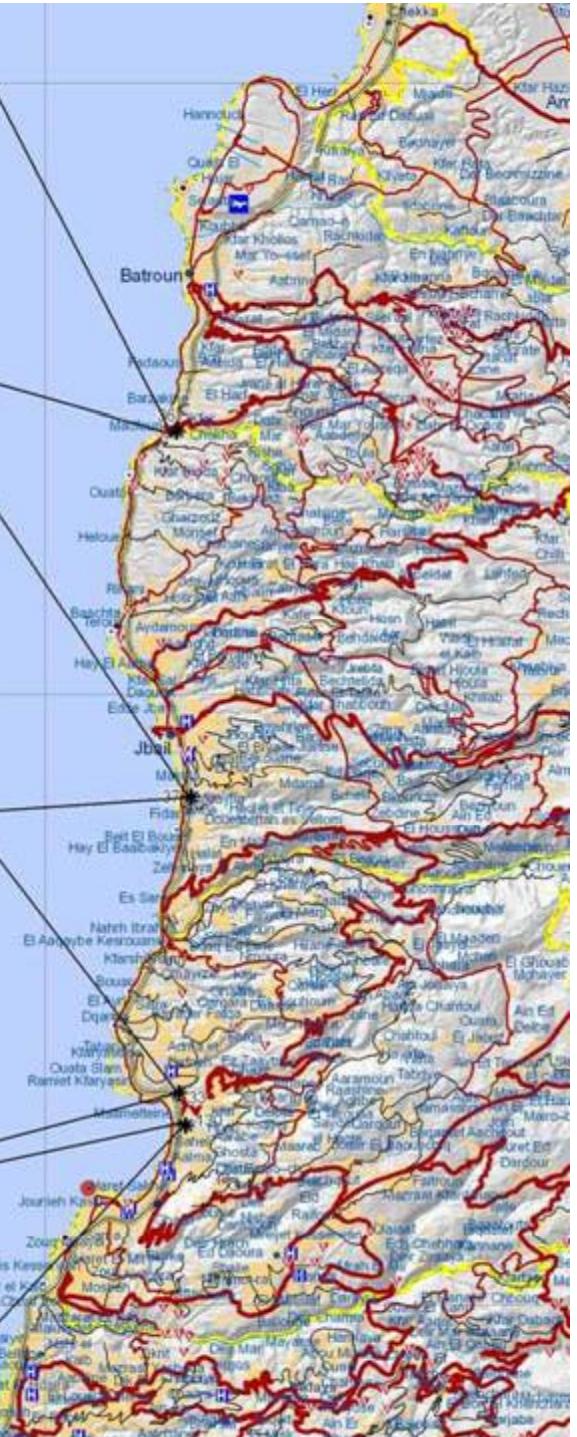
Navigation controls: zoom in, zoom out, pan, orientation, and other map controls.

- Poor/Incomplete information
- Chaos/Political factors/security
- Terrain
- Climate
- Damaged infrastructure
- Dynamic theatre of operations
- Storage availability

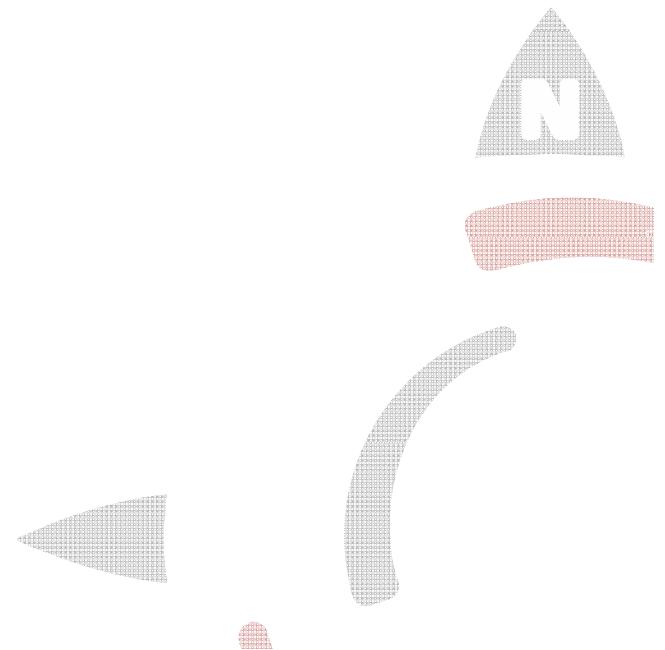
AWMKU

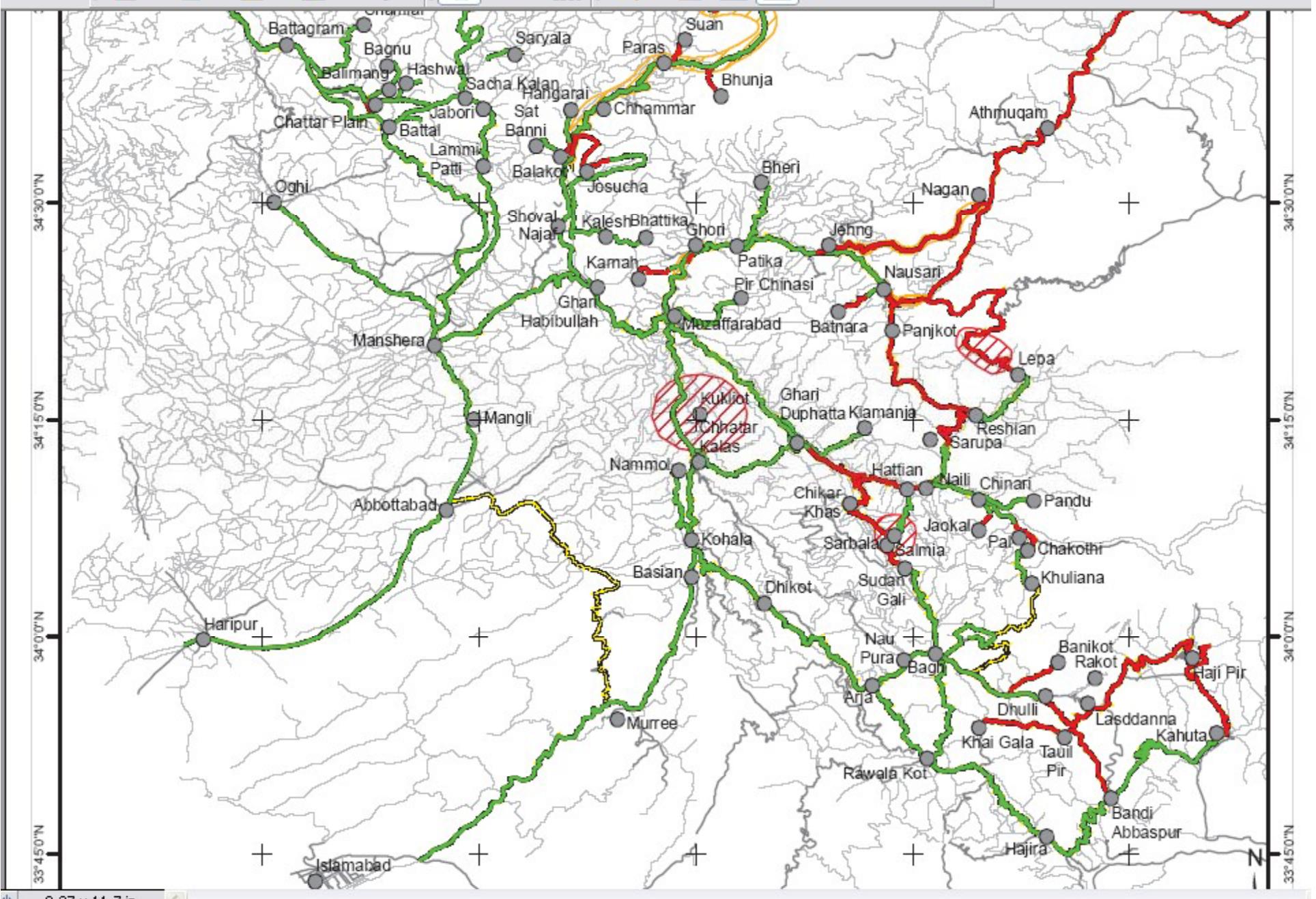


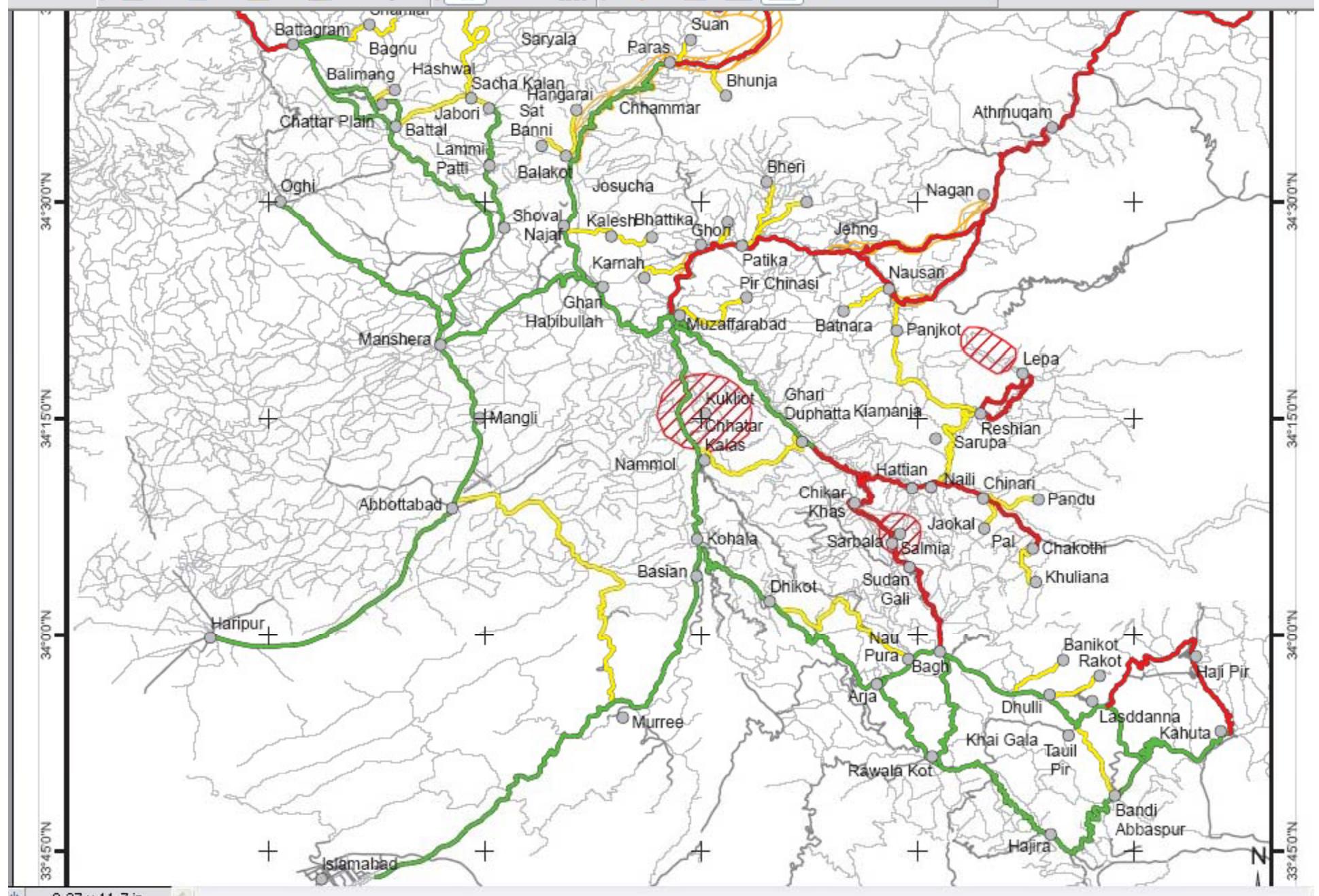
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99	Jounaya to Tyre	Bridge
103	ES SARAFAND HWY BR OV NAHR KHAIZARANE	Bridge
104	AL KHIDR HIGHWAY BRIDGE OVER HIGHWAY	Bridge
105	Zifta Road bridge over the Beirut to Tyre Highway	Bridge
106	Sinniq	Bridge
107	AL AWALI	Bridge
108	SAYDA HWY BR NE OV RD	Bridge
109	Al Masna Customs Crossing	Bridge
113	Bridge between Tirbil & Firzil	Bridge
114	Riyaq Rail road bridge over Nahr al Litani	Bridge
115	BEIRUT VIADUCT OV HWY - Bir El Abed	Overpass
116	BEIRUT ASHIYAH HWY OVER Hadi Nasrallah HWY	Overpass
117	AIRPORT Bridge	Bridge
118	Jbal ibotm Bridge	Bridge
119	qaagaeft aljlsr	Bridge
120	Wazani Bridge	Bridge
121	El Mari Bridge	Bridge
122	Fardis Bridge	Bridge
123	Zaghla Bridge	Bridge
124	Salhab	Bridge
125	Tahrir	Bridge
126	Qaa Culvert (Gov. Hospital)	Culvert
127	Arga Bridge	Bridge
128	zaarourieh -allek	Culvert
129	saaydeh - majdaloun	Culvert
130	haret sakher - Ghazir	Bridge
131	Bednayel bridge	Bridge
133	Taanayel Taalbaya Bridge	Bridge
134	Wadi elakhdar/Arbsalim/Kfar Remman	Bridge
135	Ansariyeh Deir Takla	Overpass
136	Ansariyeh	Overpass
137	Abou El Aswad	Overpass
138	Babliyeh interchange	Interchange
139	Zahrani bridge over the river	Bridge
140	ROUMINE - Deir Ezzahrani	Bridge
141	Saoufar-Charon	Bridge
142	Adweh	Bridge
		Temporary Steel Bridge
		New Diversion
		Temporary Steel Bridge
		New Diversion
		New Diversion
		New Diversion
		Temporary Steel Bridge
		Temporary Steel Bridge
		Overpass
		Overpass
		Overpass
		Interchange
		Bridge
		Temporary Steel Bridge
		Bridge
		New Diversion

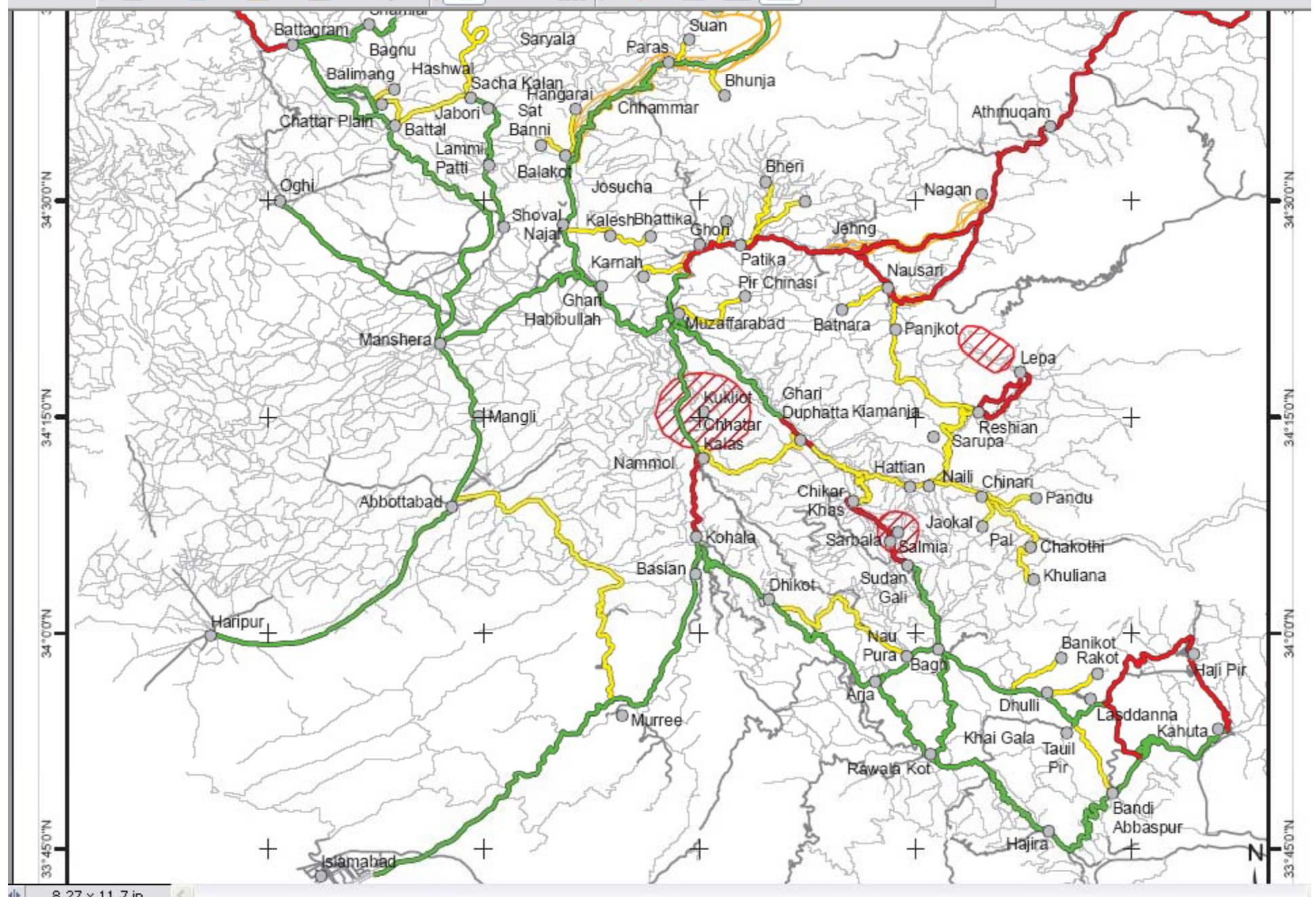


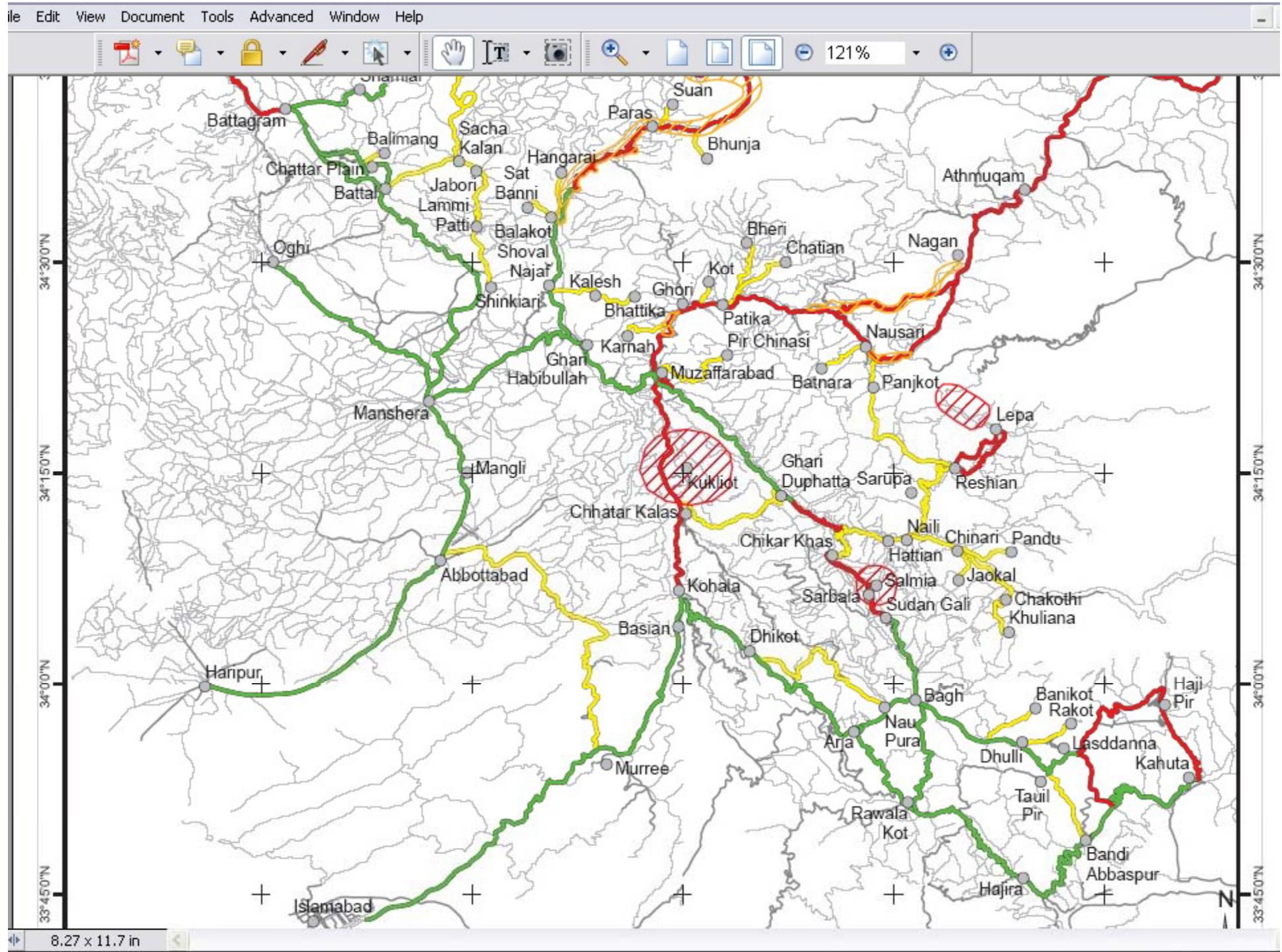
- Poor/Incomplete information
- Chaos/Political factors/security
- Terrain
- Climate
- Damaged infrastructure
- Dynamic theatre of operations
- Storage availability

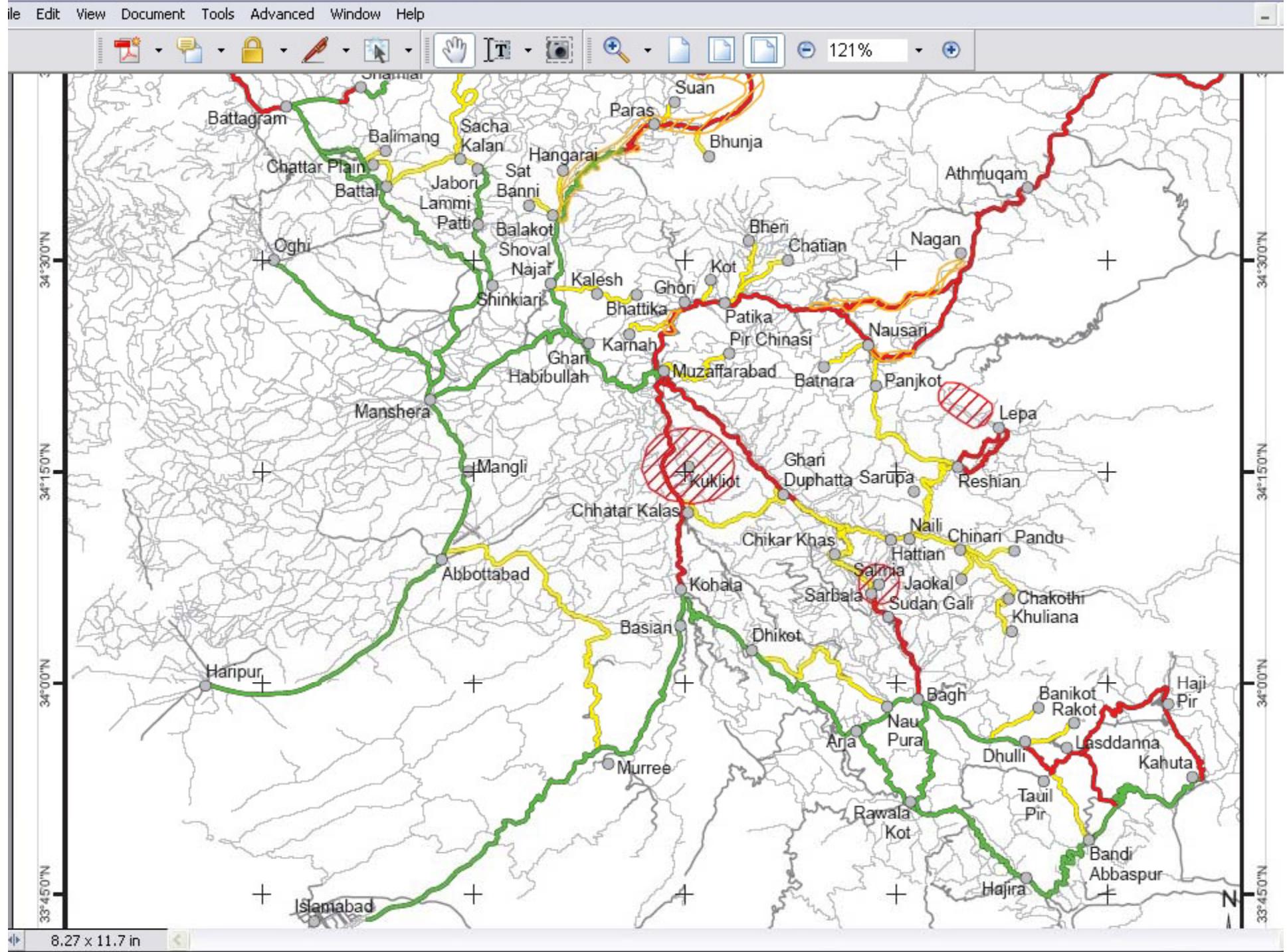




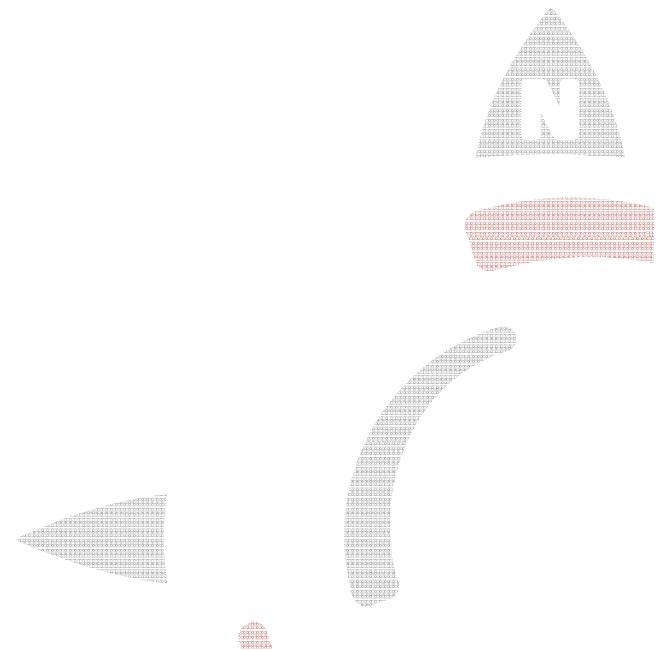




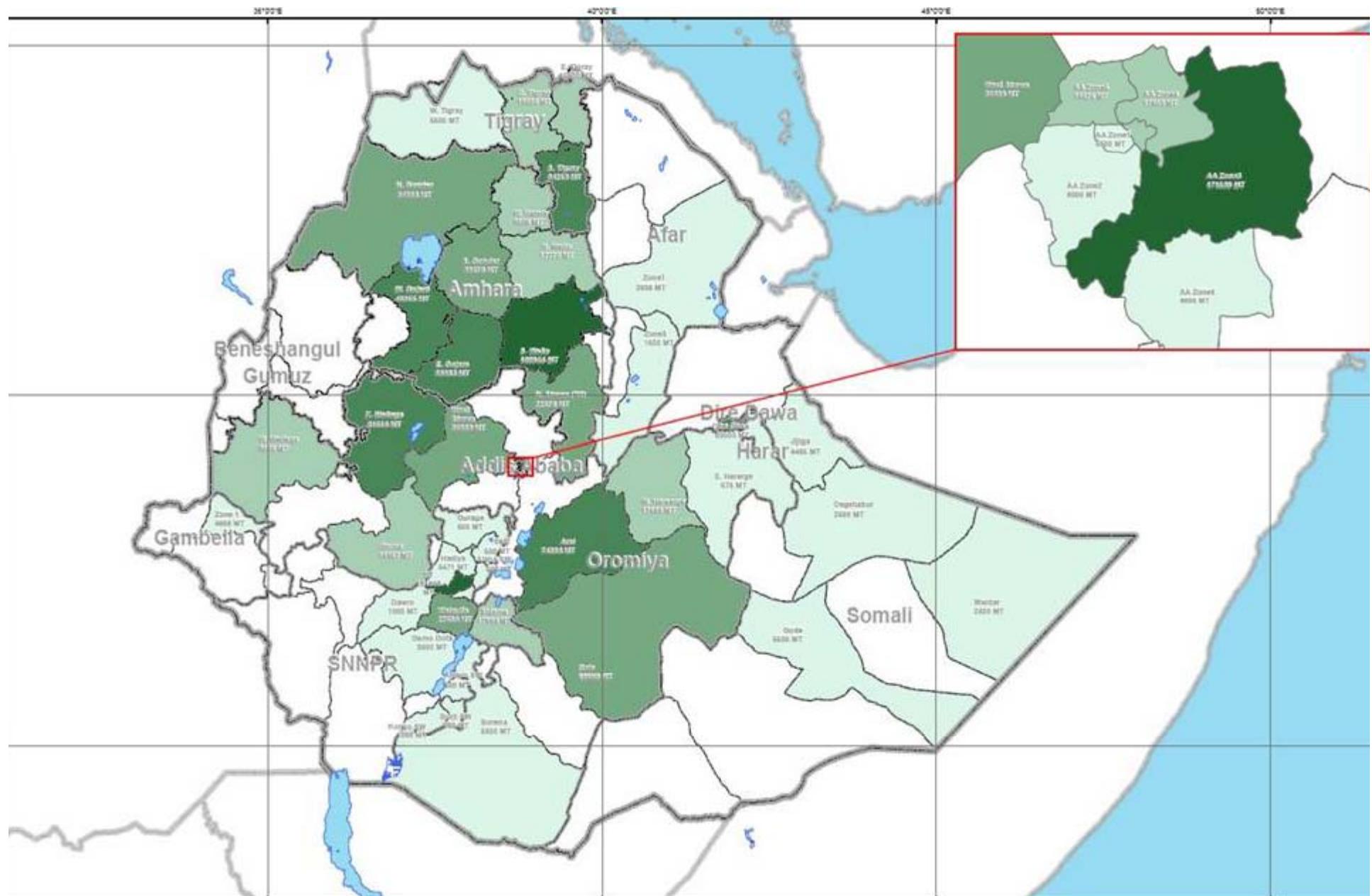


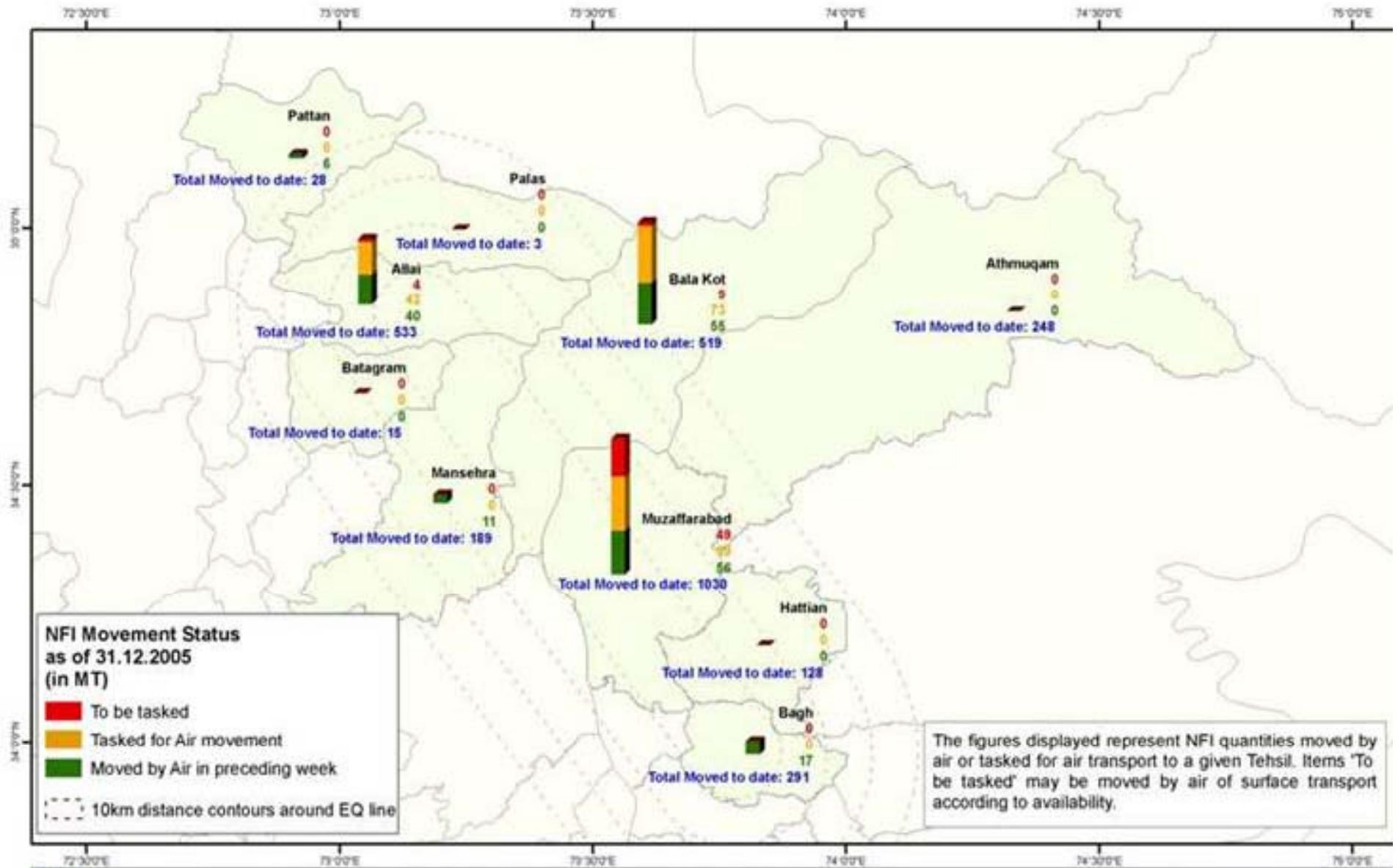


- Poor/Incomplete information
- Chaos/Political factors/security
- Terrain
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- Damaged infrastructure
- Dynamic theatre of operations
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NFI AIR CARGO MOVEMENT BY TEHSIL As of 31.12.2005



Produced By:
UN Joint Logistics Centre, Pakistan



Data Source: UNJLC Air Cargo Movement Requests

Date Created:	25.12.2005	Column:	Version:
UNJLC Map Name:	UNJLC-204-A12	GLIDE Num:	EG-2005-09174-PAK
The boundaries and names and the designations used on this map do not imply official endorsement or acceptance by the United Nations.			

UN Joint Logistics Centre, House 3, Street 2, PAK, Islamabad, Email: nfmapping@gmail.com, Website: www.unjlc.org/Pakistan

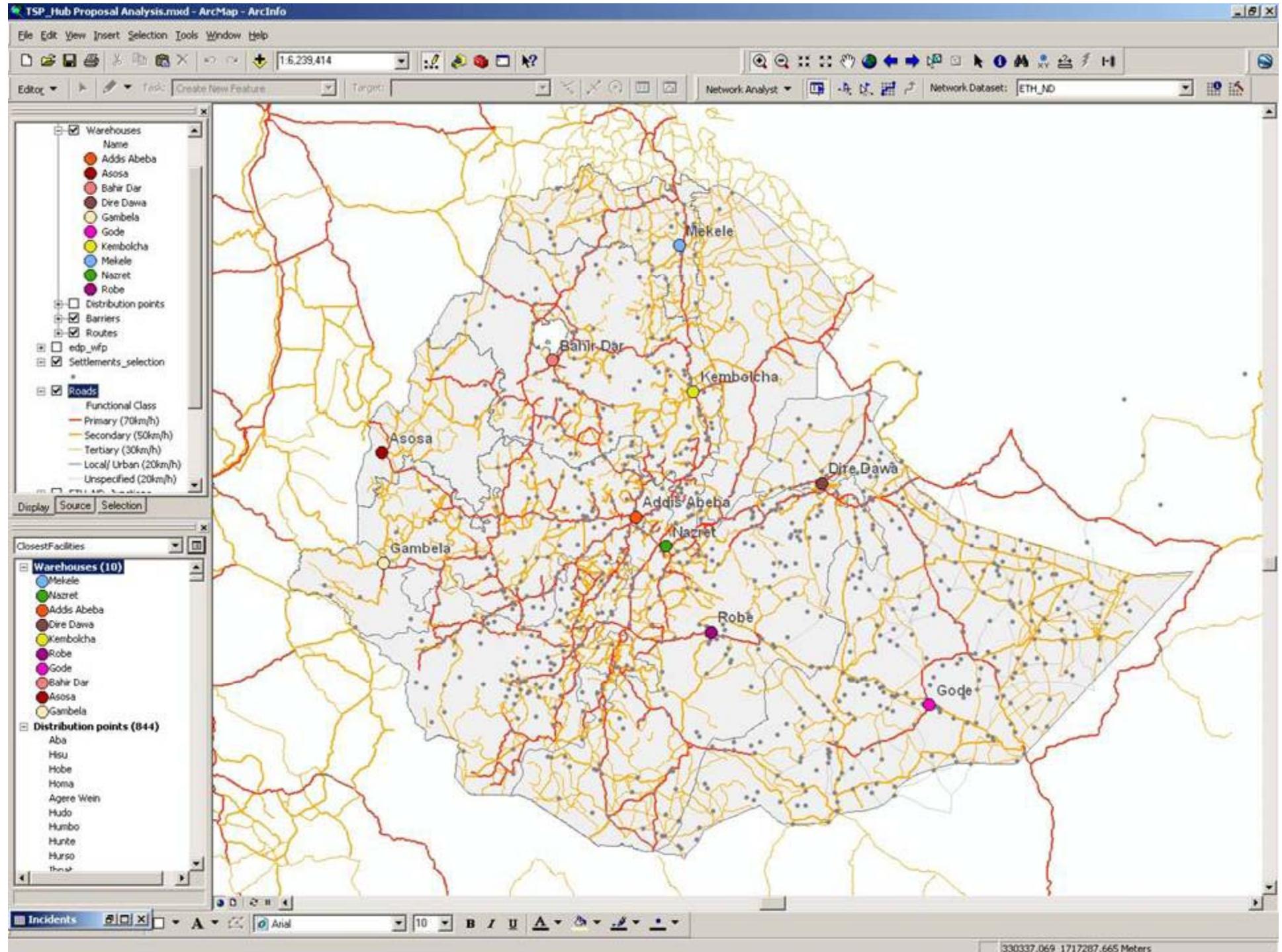
- *What is the optimal route between A and B?*
- *What is the next best alternative if this route is blocked?*
- *What is the level of accessibility of population X?*
- *What is the optimal configuration of pre-positioning warehouses?*

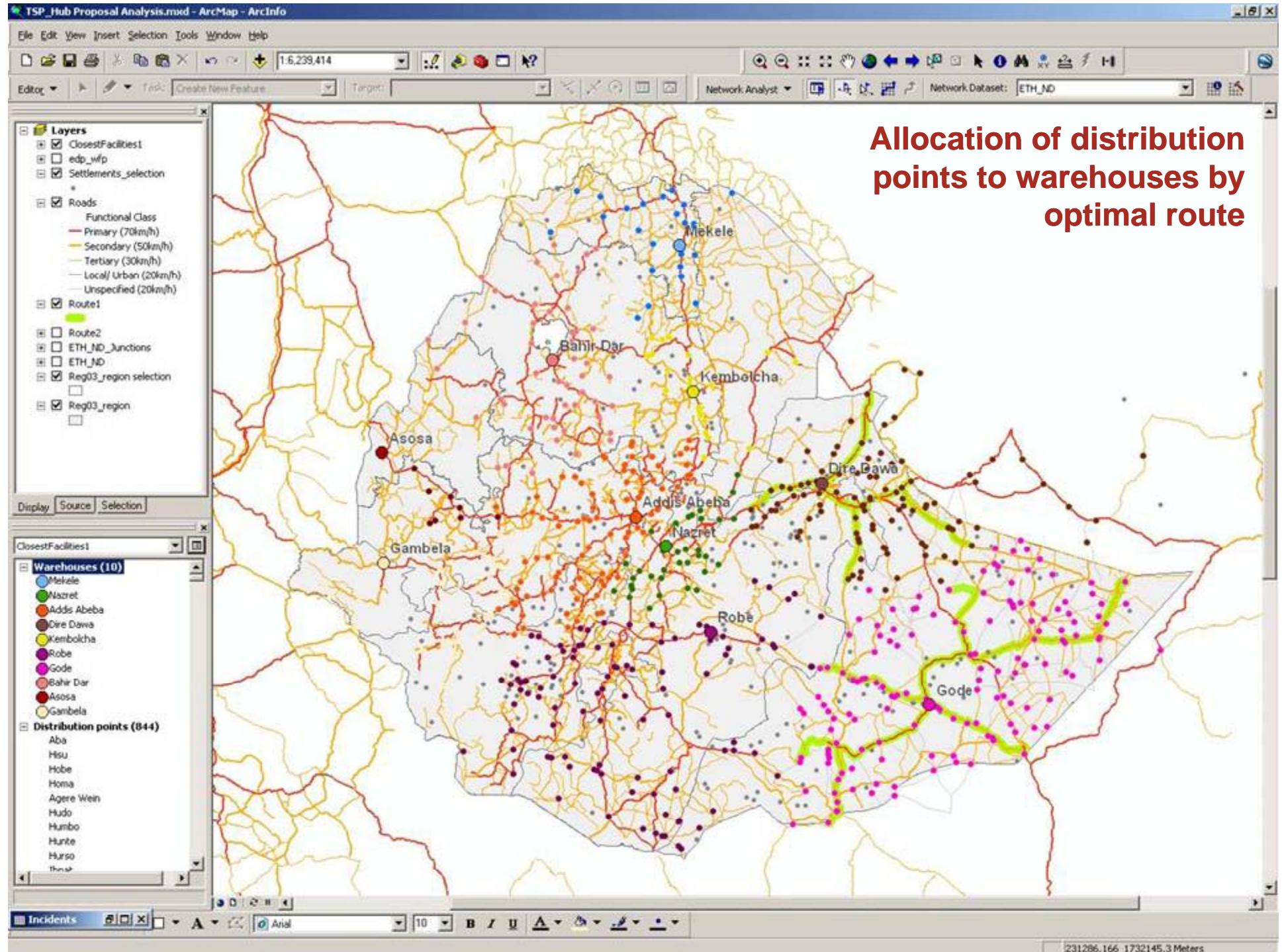
Origin-Destination matrix

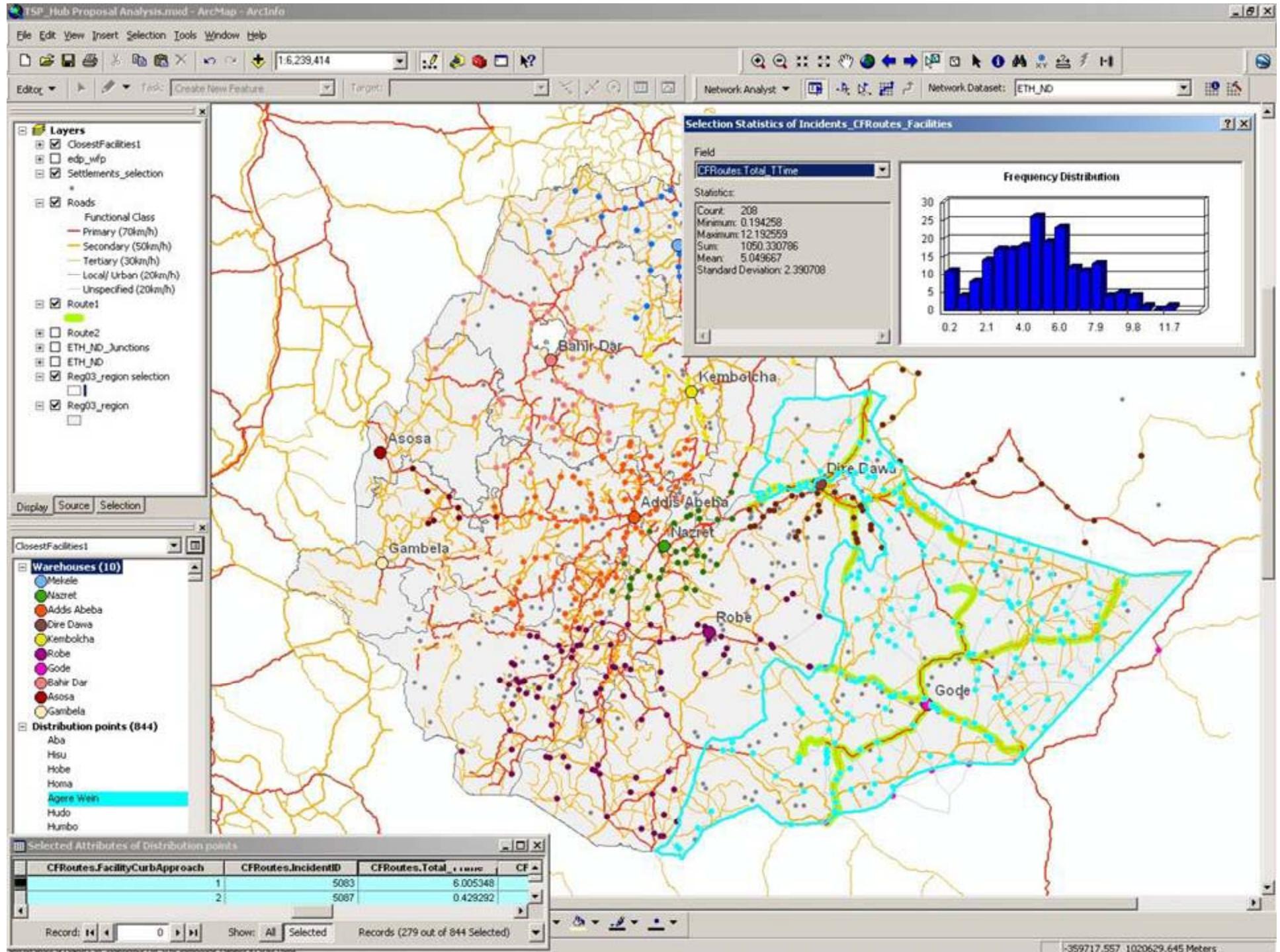
e.g: Origin-Destination matrix for Mozambique

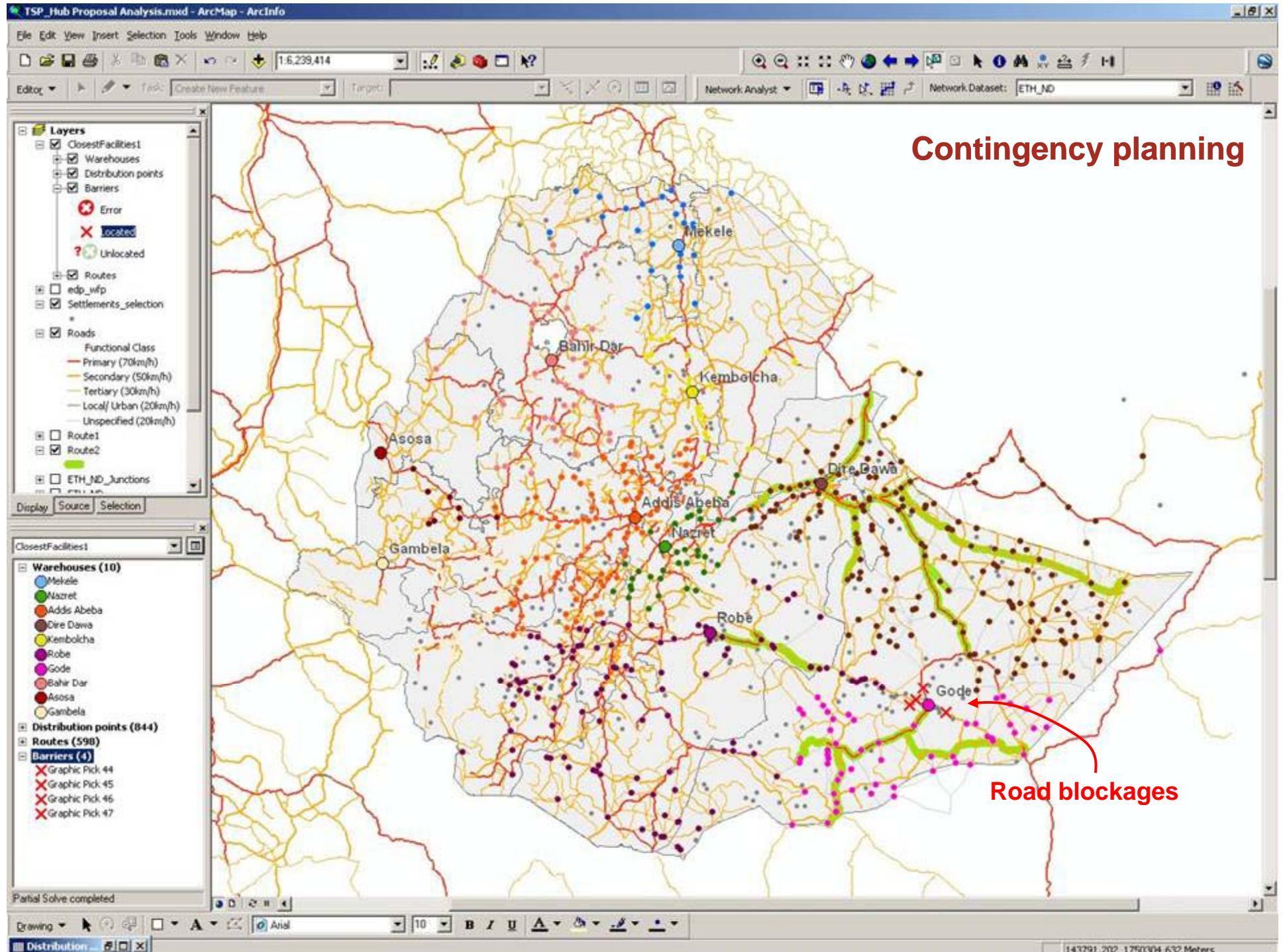
	Distance (Km)	TravelTime	Beira	Blantyre	Caia	Charre	Chemba	Chiramba	Chupanga	Guro	Lilongwe	Luabo	Manica	Maputo
Beira		12h2'	4h28'	6h13'	7h43'	9h49'	6h26'	6h42'	15h18'	16h34'	4h12'	19h49'	8h42'	
Blantyre	567		7h41'	5h48'	8h14'	10h20'	10h50'	6h43'	5h10'	14h1'	10h36'	29h1'	13h42'	
Caia	268	307		1h53'	3h22'	5h29'	3h16'	10h7'	12h37'	12h13'	7h37'	23h14'	5h30'	
Charre	337	230	77		2h26'	4h32'	5h2'	11h53'	10h44'	11h3'	9h23'	24h59'	7h12'	
Chemba	358	288	97	58		2h6'	6h31'	10h51'	13h10'	12h46'	10h52'	26h29'	8h42'	
Chiramba	400	330	139	100	42		8h38'	8h46'	15h16'	14h52'	12h38'	28h35'	10h50'	
Chupanga	265	346	47	116	136	179		12h6'	15h46'	15h22'	9h35'	25h12'	2h12'	
Guro	403	369	608	677	232	190	604		8h36'	20h30'	3h52'	22h17'	14h42'	
Lilongwe	919	306	608	531	589	631	647	516		18h57'	12h28'	30h53'	18h42'	
Luabo	534	628	273	226	255	297	312	993	929		19h43'	35h20'	17h42'	
Manica	252	601	458	527	547	422	454	232	748	723		19h47'	11h42'	
Maputo	1189	1707	1395	1463	1484	1526	1391	1338	1854	1660	1188		27h42'	
Marromeu	310	391	92	161	182	224	45	650	692	358	499	1436		
Massenguza	364	445	146	215	236	278	99	704	746	412	554	1490		
Mopeia Velha	467	561	206	159	188	230	245	926	862	67	656	1593		
Morrumbala	392	314	131	84	113	155	171	732	615	158	581	1518		
Mutarara	324	245	63	15	44	87	102	663	546	212	513	1450		
Nampula	1010	647	749	654	731	773	789	1011	948	684	1244	2349		
Quelimane	587	440	326	278	307	349	365	804	741	261	776	1713		
Sena	321	251	60	21	37	79	99	660	552	218	510	1447		
Tambara	811	456	757	681	739	554	797	408	480	1079	640	1746		
Tete	561	211	513	436	494	305	552	158	358	834	391	1496		

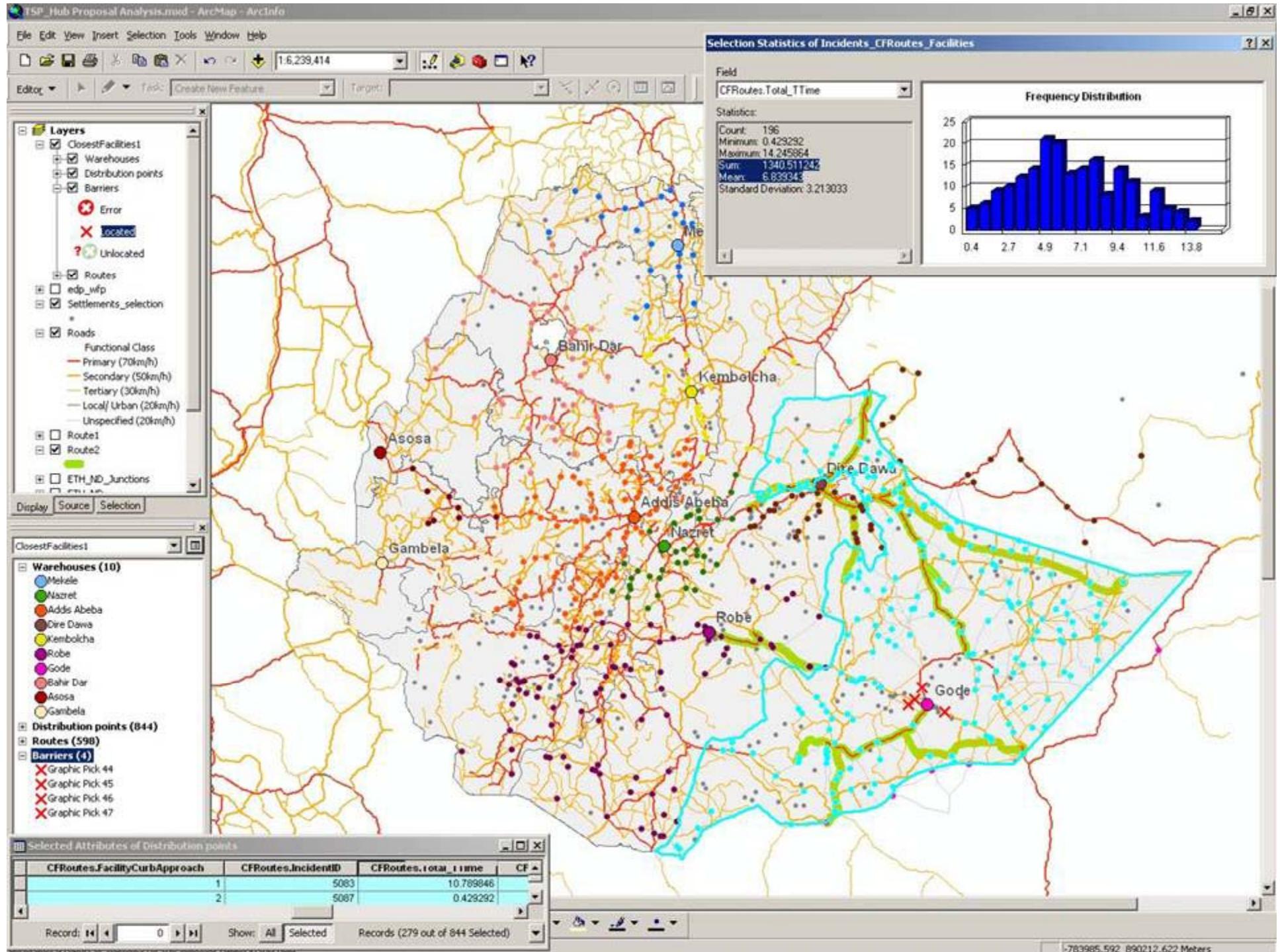








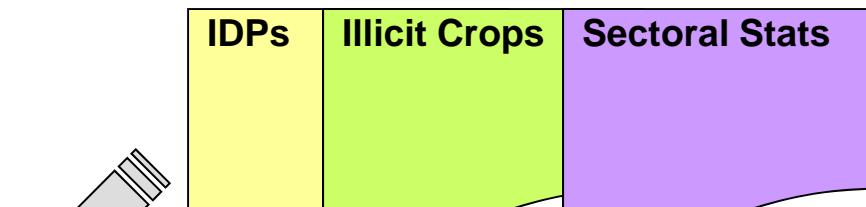
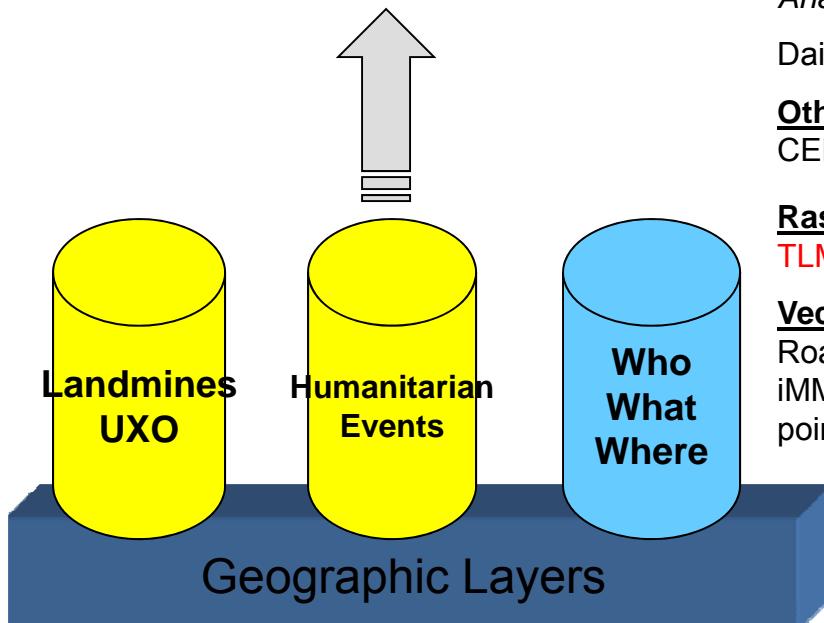




Setting iMMAP IM process

C O P

iMMAP



OCHA: (*Humanitarian Analysis*)

Period: 2007 – 2008: ~7,000 records

Without X,Y

UNDSS: (*Security/Conflict Analysis*)

Daily Security Report

Other sources: CINEP, CERAC, P.Obs.

Raster: TLM 100K, DEM 90m, **TLM50K?**, Ikonos?

Vector: Admin, Hydrology, Roads, Ppl, infrastructure, iMMAP is vectorizing ppl and point of interest from TLM100

OCHA:

More than 400 variables available.

OCHA:

4,000 Orgs registered

200 Orgs program/project registered

ACCION SOCIAL:

Int'l. Coop. Map

Humanitarian Offer

ACCION SOCIAL:

Period: 1997 – 2008

Methodology: IDP Exp/Rec. by Record

CODHES:

Period: 1995 – 2007

Methodology: IDP Reception Estimated

Other sources: Caritas Colombia

UNODC:

SIMCI project. Coca Census 2000 - 2007

PAICMA:

12,900 records (landmines & UXO)

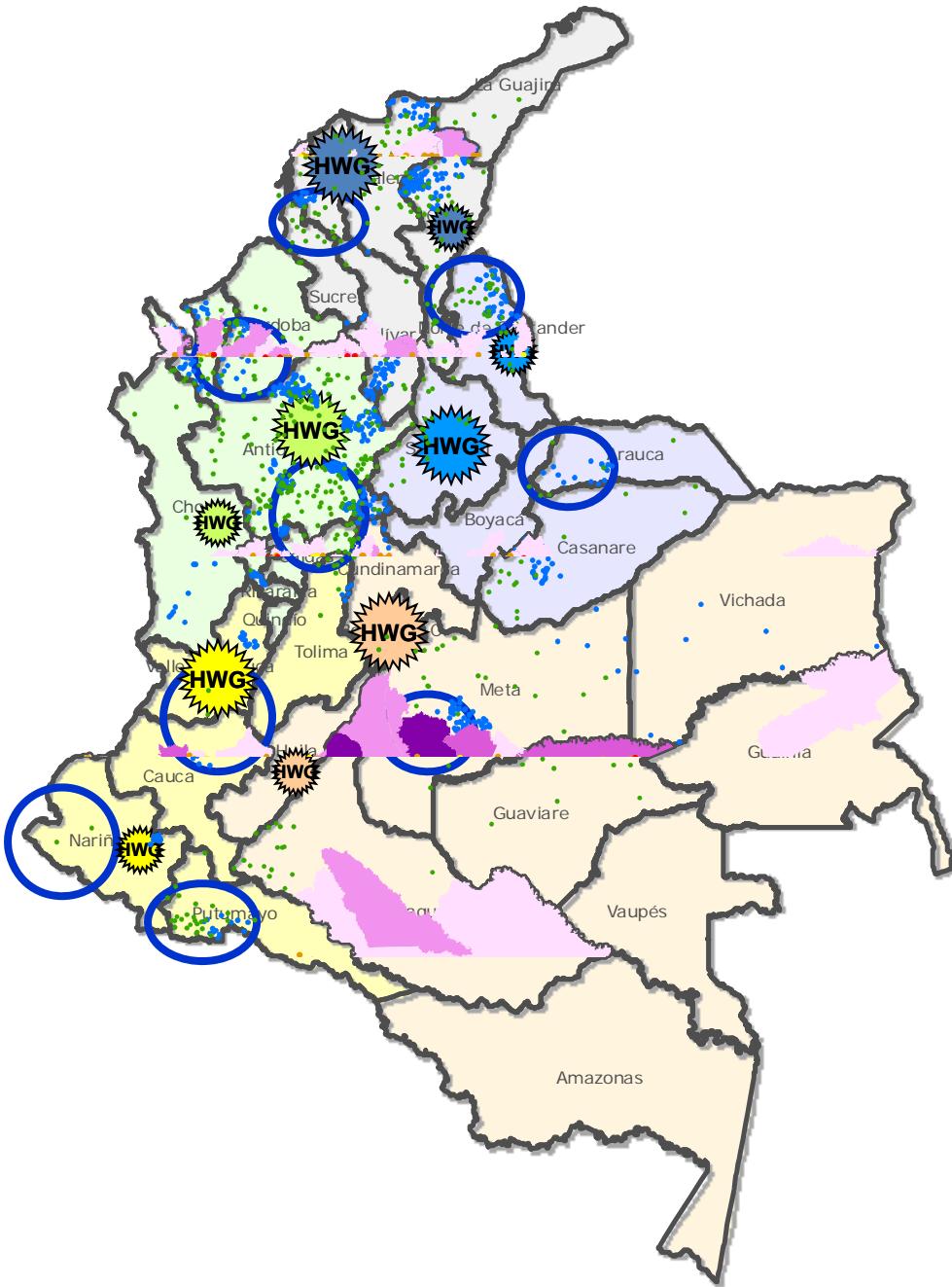
35% with X,Y
7,200 Victims (65% Army, 35% civilians)

Other Sources:

Colombian Campaign To Ban Landmines, Caritas Colombia, Field

Source: Colombian Government and State Organizations

Humanitarian Context



Landmines

HWG: UNS, iNGO, nNGO, Gov
IDP: Expelled

Armed Confrontations

Homicides: Protected Person

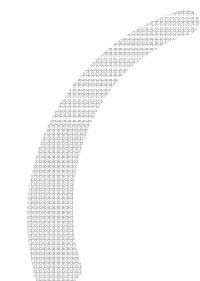
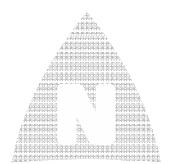
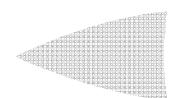
Demobilizations

Forced Disappearance

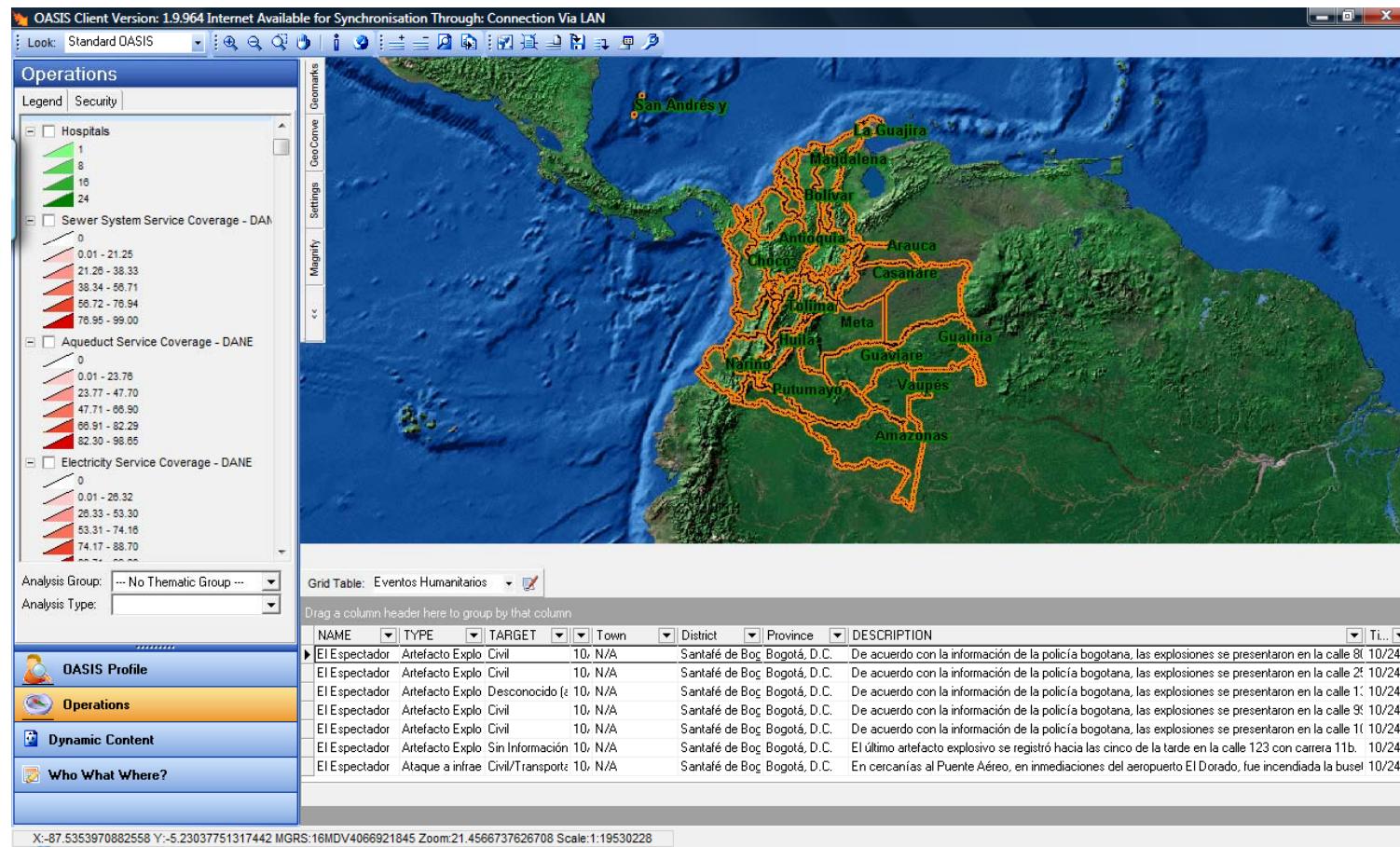
Legend

Landmines

1 - 16
17 - 49
50 - 124
125 - 214



OASIS Colombia



Landmine: PAICMA (Jan 1990 – Sep 2008)

Infrastructure:

Hospitals: Health Ministry (Dec 2007)

Utilities Coverage: National Department of Statistics (Jan 2008)

Road Network: National Institute of Roads (Dec 2007)

Conflict:

Coca Crops: UNODC Census (2000 – 2007)

Humanitarian Events: OCHA (Jan 2007 – Sep 2008)

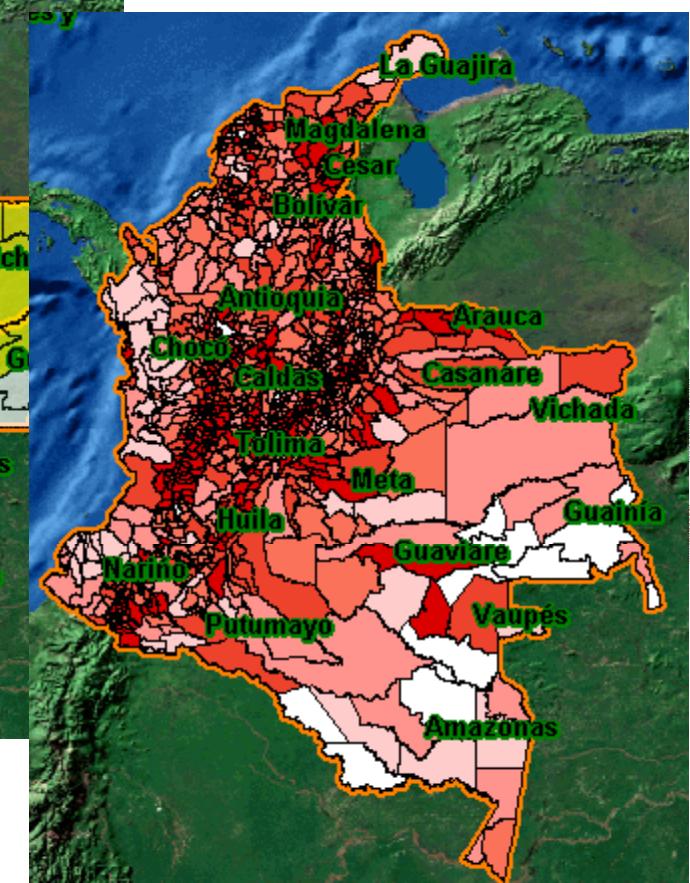
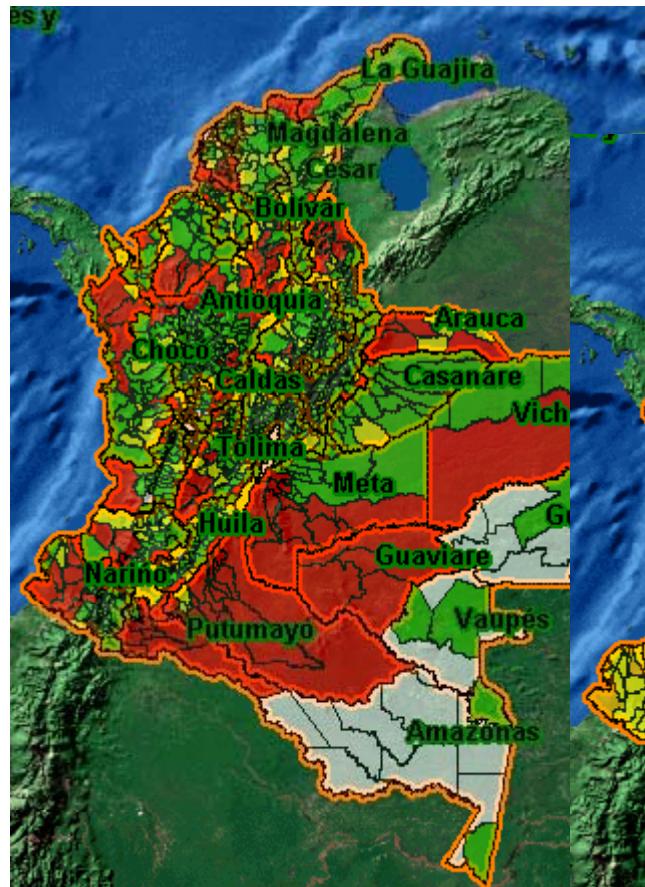
IDP: Agency for Social Action and Int. Coop. (1997-2008)

Hum. Risk Index: OCHA-Santo Tomas Univ. (May 2008)

Demography: by Ethnic Groups, Area – National

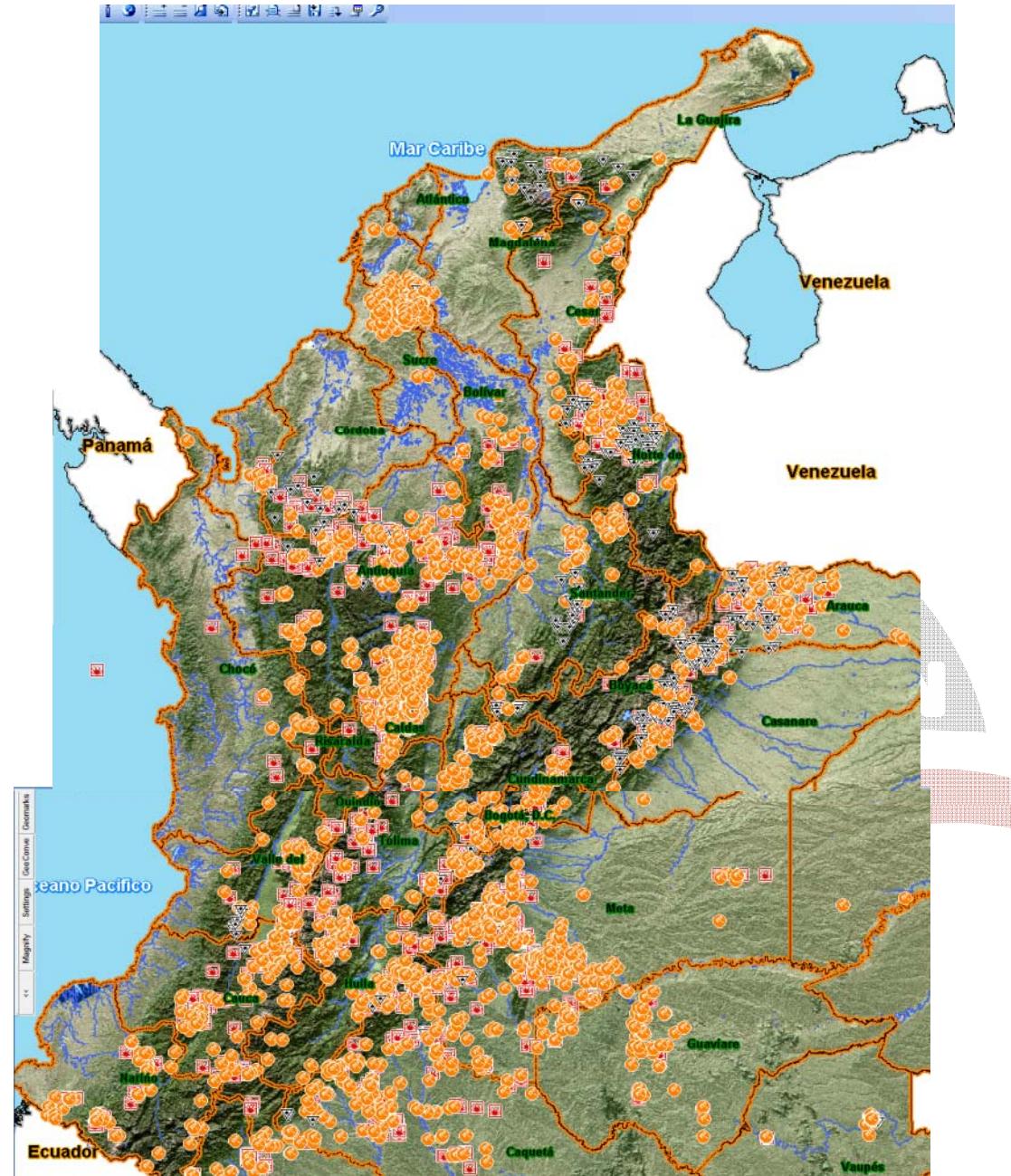
Department of Statistics(2008)

Displaying Sectoral Data

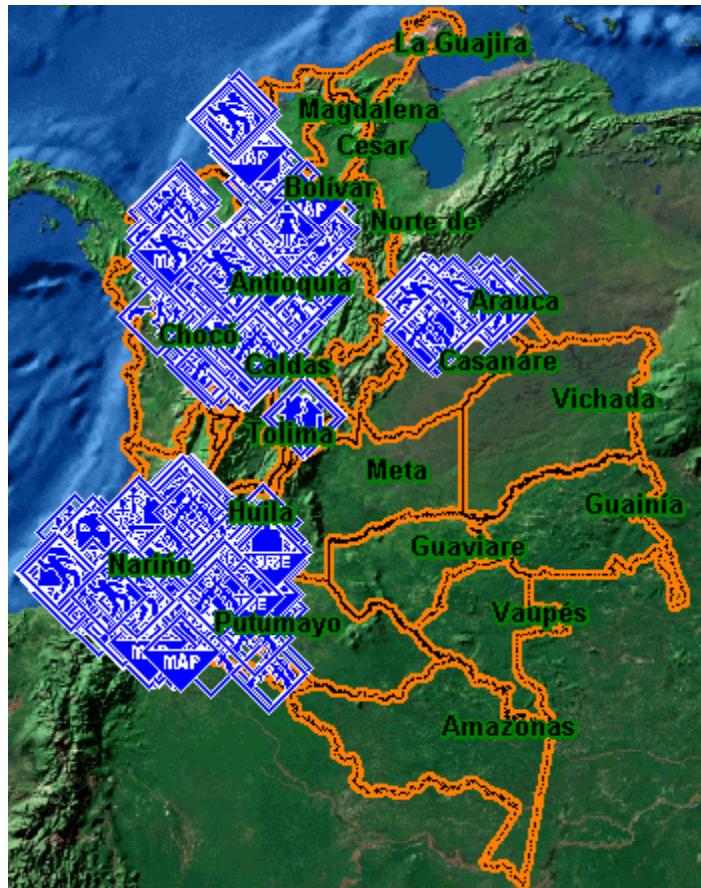


Landmine Events in Colombia

- Landmine Information - Colombian Gov
 - Mine Accident
 - Military Demining
 - Suspicious Infected Area



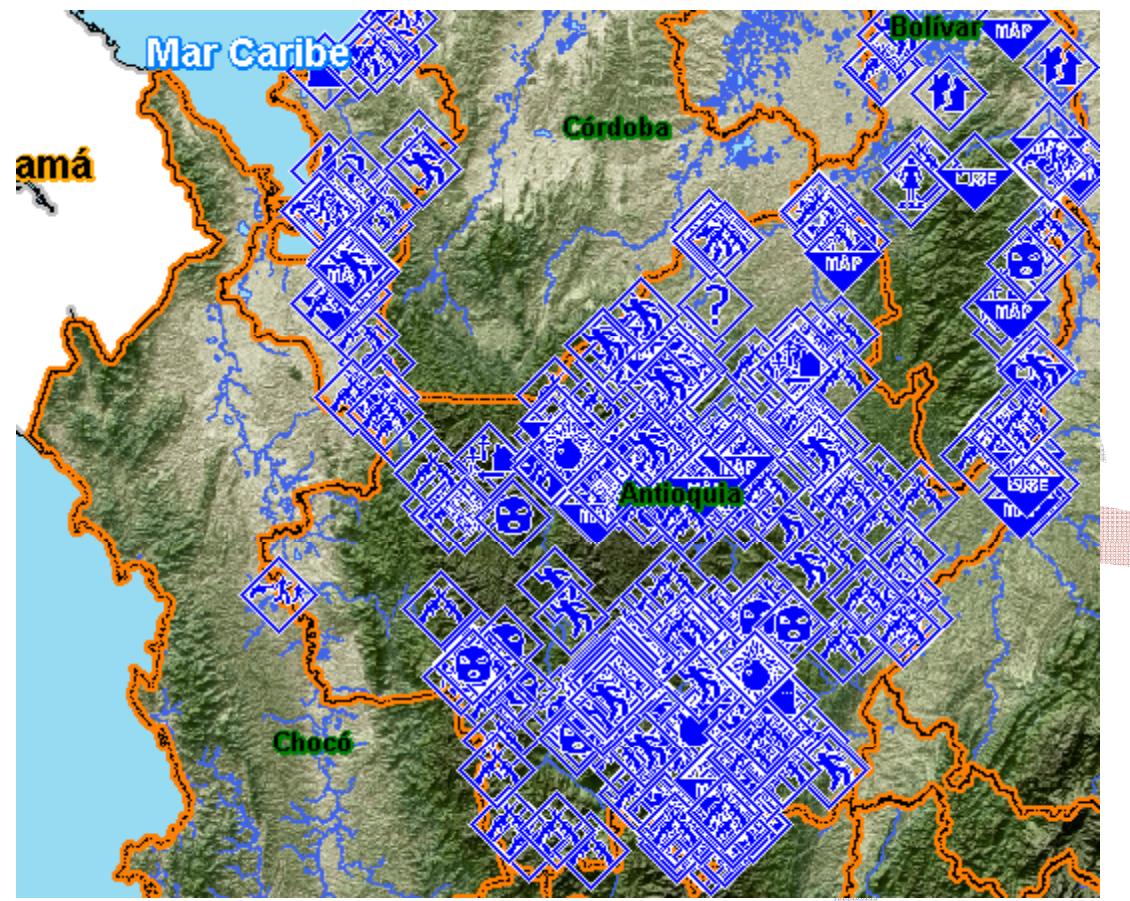
Humanitarian Events



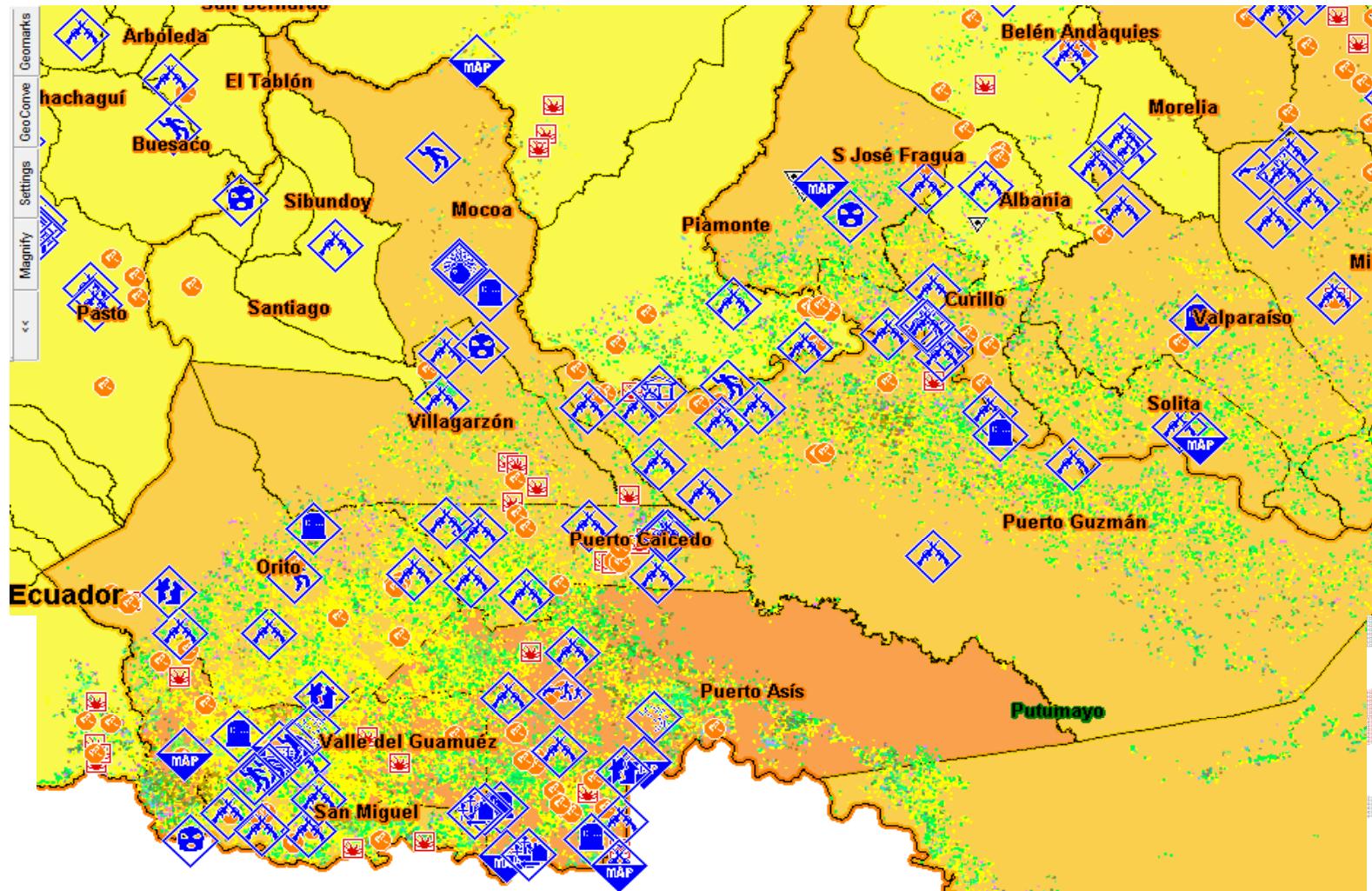
iMMAP is purging OCHA Hum. Events Database to get more accurate geographic position.

Source: OCHA Database (Jan 2007 – Sep 2008).

Primary Source: Ombudsman office, Human Rights Vice-Presidential Observatory, Military Forces, National Security Department, Media.

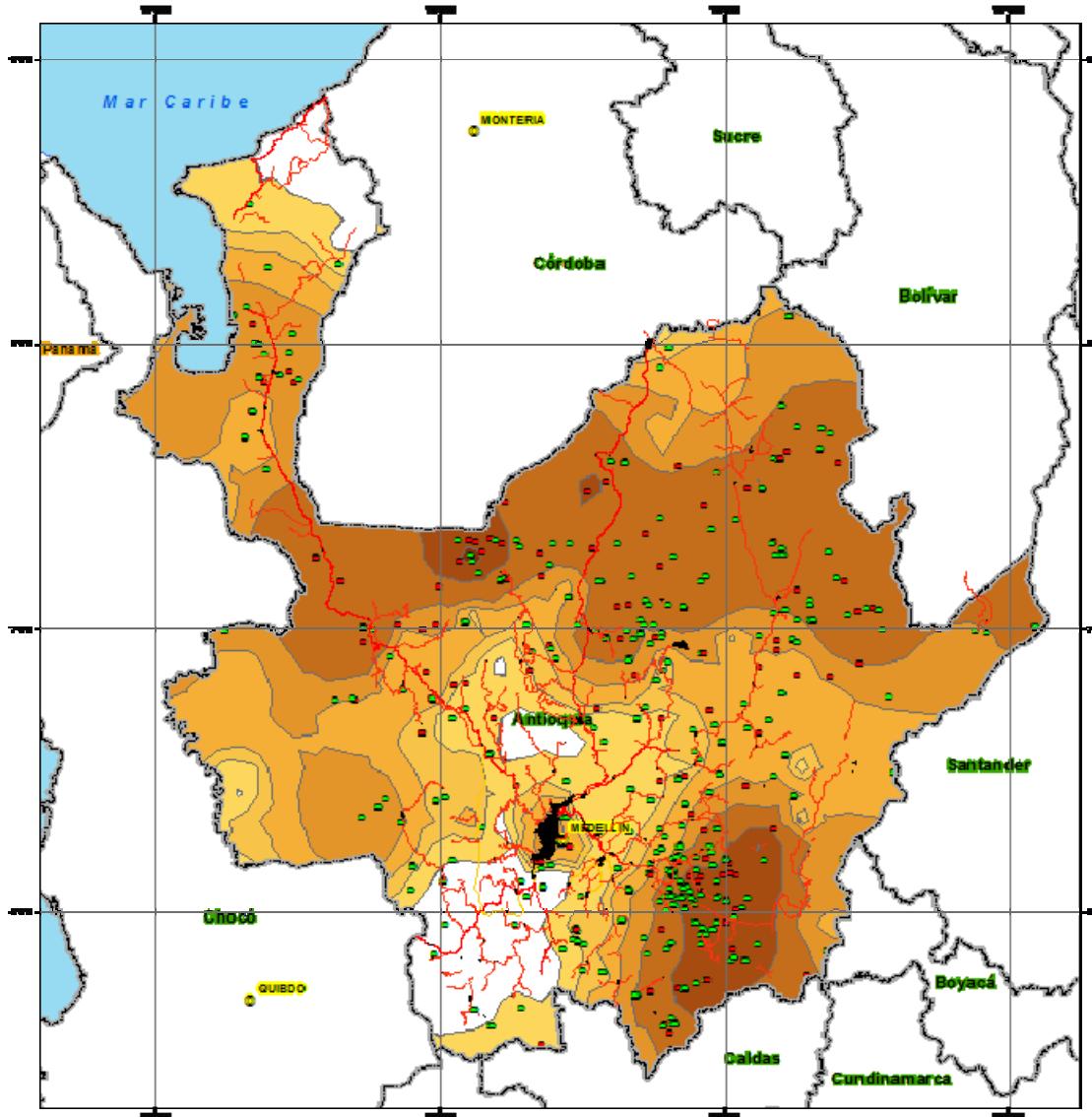


Data Fusion (Putumayo Department)



Landmine Events, Humanitarian Events, IDPs and Coca Crops

Data Analysis Sample: Antioquia

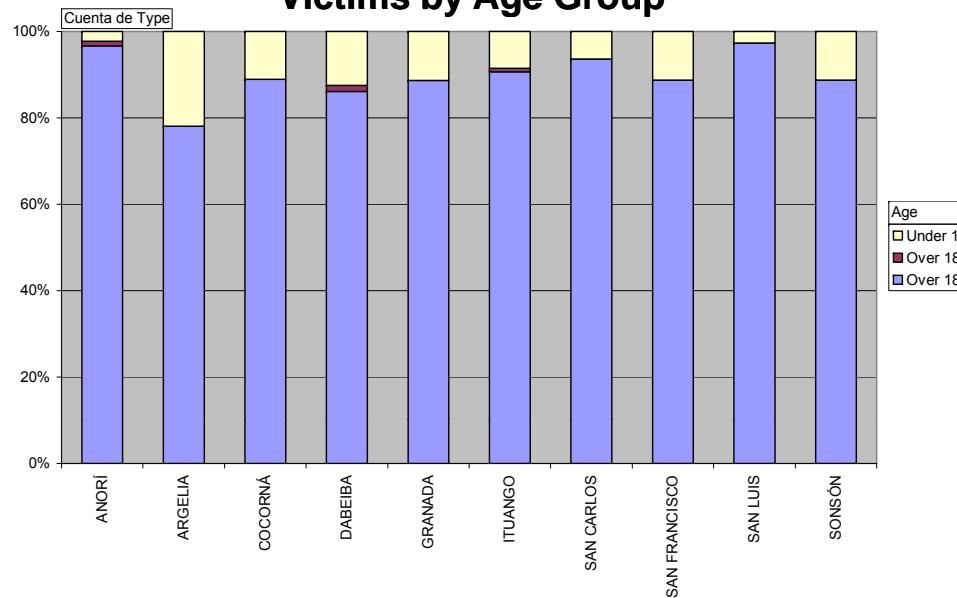


Victim Prediction Map (based on historic victims data: Jan 1990 – Sep 2008)

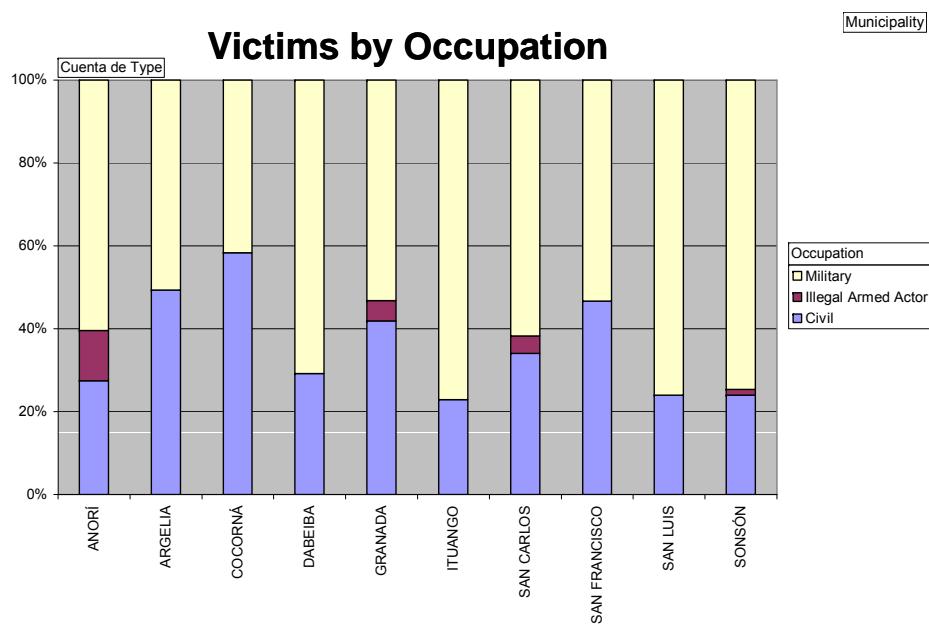
10 most Municipalities affected

Municipality	Qnty Accidents
ANORÍ	91
ARGELIA	73
COCORNÁ	72
DABEIBA	72
GRANADA	62
ITUANGO	118
SAN CARLOS	141
SAN FRANCISCO	107
SAN LUIS	75
SONSÓN	71

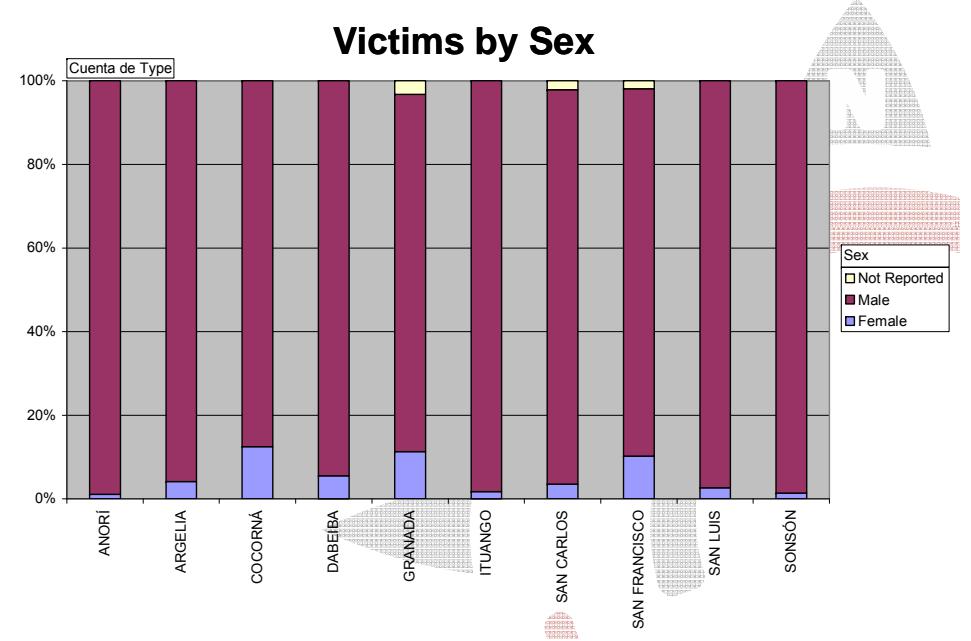
Victims by Age Group



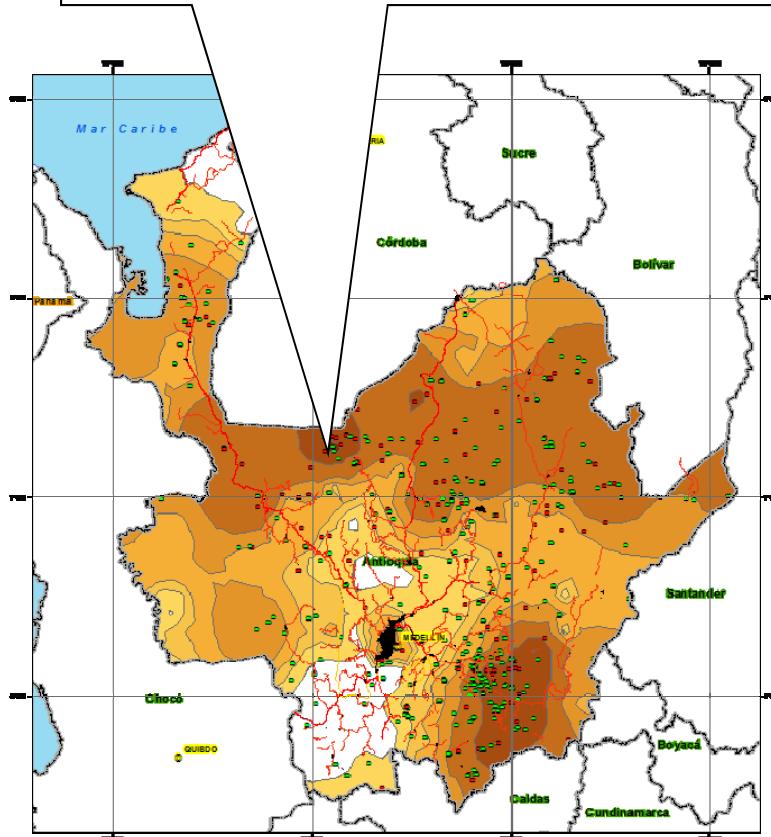
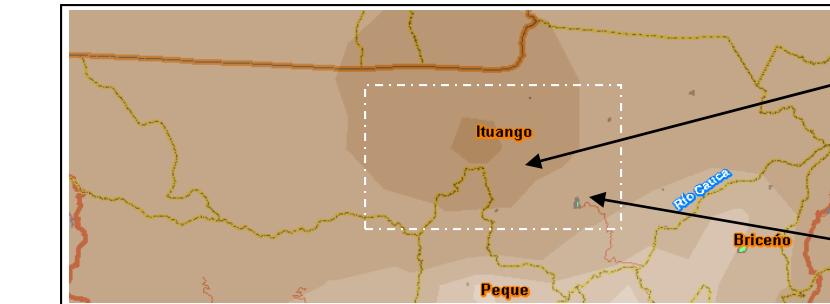
Victims by Occupation



Victims by Sex



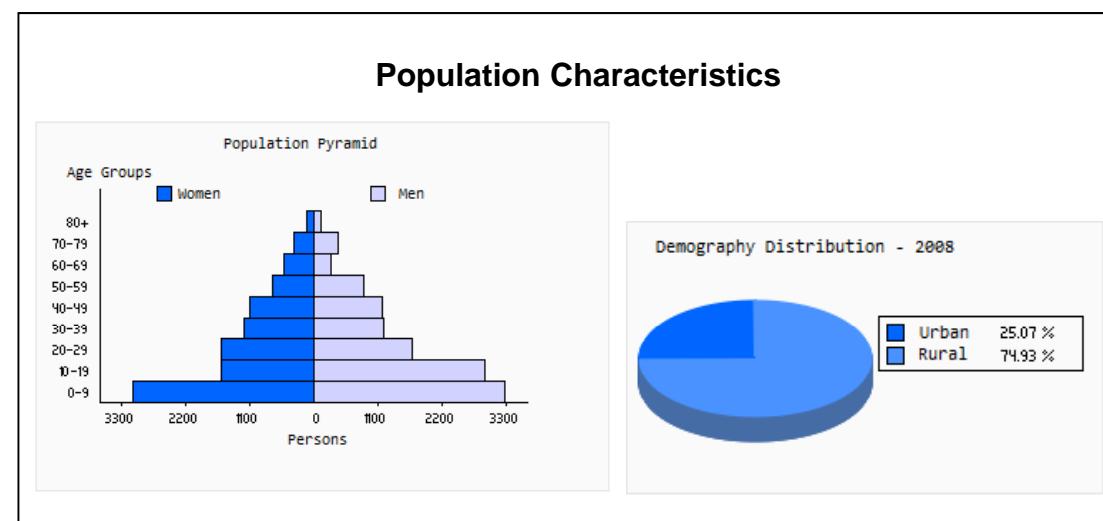
Data Analysis: Ituango Municipality, Antioquia Department



1 Hospital: Level 1

Victims Characteristics (Registered on IMSMA)

Occupation	Civil	22.88%
	Military	77.12%
Sex	Male	98.31%
	Female	1.69%
Condition	Dead	24.58%
	Injured	75.42%
Area	Rural	100.00%
	Urban	0.00%
Age Group	Under 18	8.47%
	Over 18	90.68%

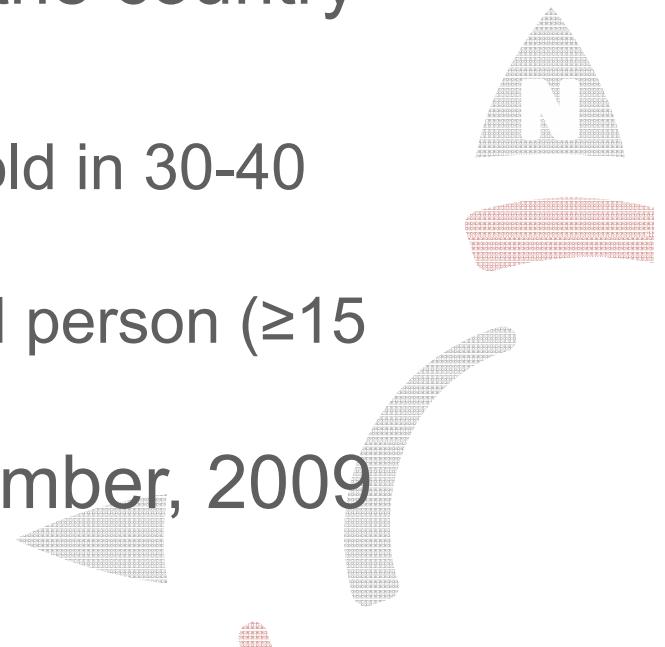




Reported By:	El Espectador	Record date:	10/24/2008
Entry Date:	10/24/2008	Violent Incident:	Yes
Incident Type:	Artefacto Explosivo Improvisado - AEI	Incident Target:	Civil
Casualties injured:	2	Casualties Affected:	0
Casualties Dead:	0	Known Casualties:	No
Incident Description:	De acuerdo con la información de la policía bogotana, las explosiones se presentaron en la calle 80 con carrera sexta donde hubo dos personas lesionadas que fueron trasladadas a la clínica El Country. http://www.elespectador.com/noticias/bogota/articulo85643-frente-51-de-farc-sera-responsable-de-seis-explosiones		
Latitude	4.6616188	Longitude	-74.0496040
Department:	Bogotá, D.C.	Municipality:	Santafé de Bogota
Nearest Town:	Bogotá, D.C.		
Incident Date:	10/23/2008		
Incident Exact Time:	Unknown	Incident Time:	12:00
Verify When published:	No	Allow Other Users To Contact me:	No

CDC Projects in Mine Action

- KAP Survey
 - Survey to assess knowledge, attitudes and practices (behaviors) related to landmines and UXO in affected areas of the country
 - Multi-stage cluster design
 - Randomly select 30-40 household in 30-40 affected villages/towns
 - Interview one randomly selected person (≥ 15 years) in each household
 - Data collection to begin September, 2009



CDC Projects in Mine Action

- Injury Surveillance Support
 - Provided support to ICRC and CCCM for landmine/UXO injury surveillance
 - Training on injury surveillance
 - EpiInfo database and analysis tools

