



European Union Satellite Centre

Ab Astris Veritas

Support to the Common Security and Defence Policy of the European Union: The Case of EUSC

17 May 2010

Tomaž Lovrenčič
Director
t.lovencic@eusc.eurc.pa.eu



Joint Action Art. 2: Mission

“The Satellite Centre shall, in coherence with the European Security Strategy, support the decision-making of the European Union in the field of the CFSP, in particular of the ESDP, including European Union crisis management operations, by providing, as appropriate, products resulting from the analysis of satellite imagery and collateral data, including aerial imagery, and related services.”



Hijacked Merchant Ships off the Coast of Somalia EUFOR ATALANTA

Three merchant ships are observed off the coast of Somalia, SE of the pirate base at Hobyo Town. The ships are identified as the general cargo ship 'Charele', the bulk carrier MV Ariana and bulk carrier 'Xin Hai'.

IA Assessment:
Hobyo town is ideally suited to support pirate activities and continues to provide basic accommodation for pirates, shelter for pirate vessels and access to the Indian Ocean. The presence of three hijacked vessels off the coast of Hobyo indicates that the town and its adjacent coastline is a major holding area for hijacked vessels and crews.



RP: 05°21'00" N 048°31'36" E

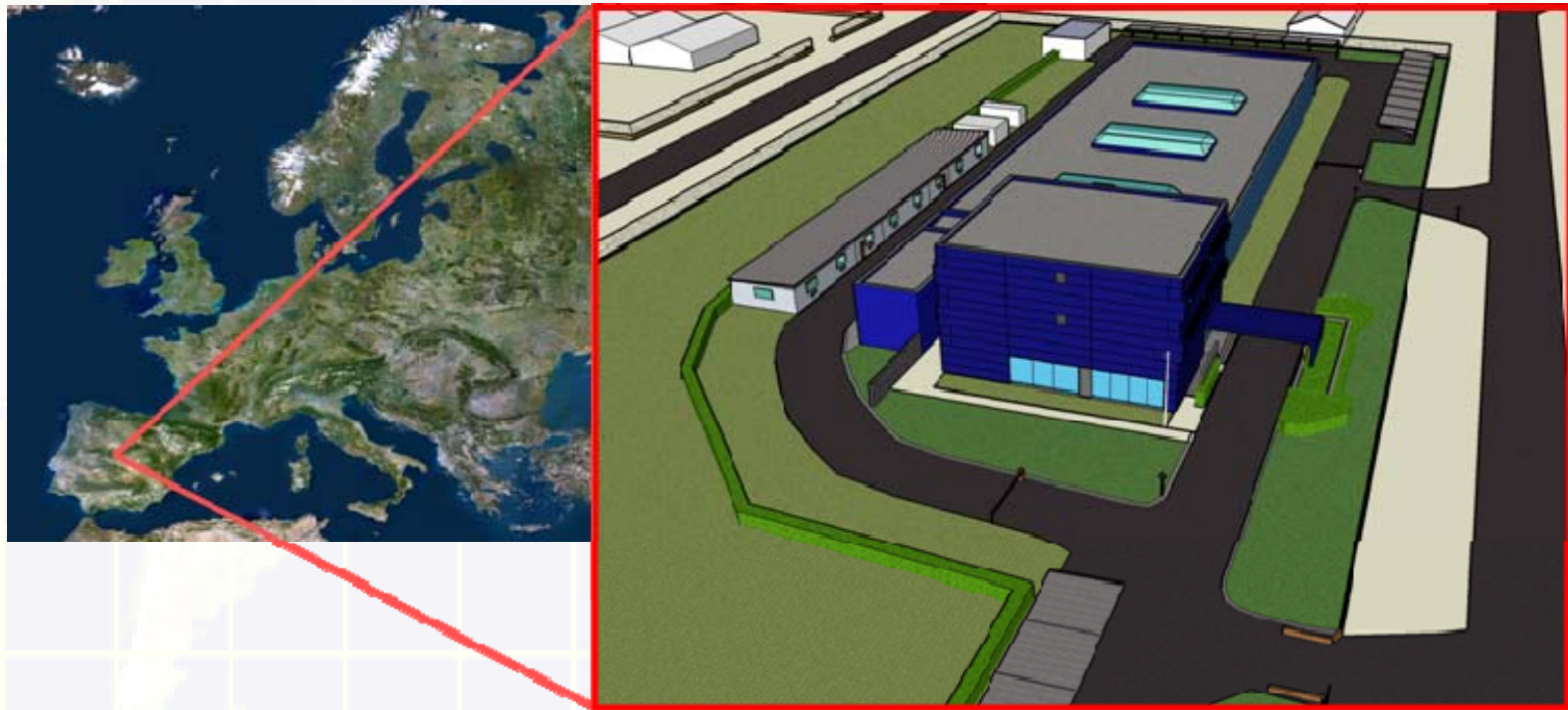
Image: QuickBird M/Pan Merged
Date: 30 Oct 2009

This product is covered by the EU Security Regulation 2001/254/EC.
Copyright © European Union Satellite Centre 2009. All rights reserved. Copyright of original imagery remains with the provider; however, EU institutions or bodies, EU Member States or Associated Third States, within the meaning of the annex to Council Joint Action of 20 July 2001, may reproduce this product for official use only. This product remains the property of the European Union Satellite Centre. The Satellite Centre accepts no legal responsibility or liability whatsoever with regard to the use of this product.
European Union Satellite Centre, Apartado de Correos No 511 28510 Torreón de Ardoz Madrid, España 911 34 91 879 8000 Fax: (+34) 91 879 8008



EUSC – An Autonomous European Capability

An **agency** working for the **Common Security and Defence Policy** of the **European Union** under the operational direction of the HR/VP.



- 98 People (84 Staff, 12 Temporary, 2 SNEs)
- Budget 12.2 M € (2009)



Operational Direction, Political Supervision

JA Art. 3: Political Supervision

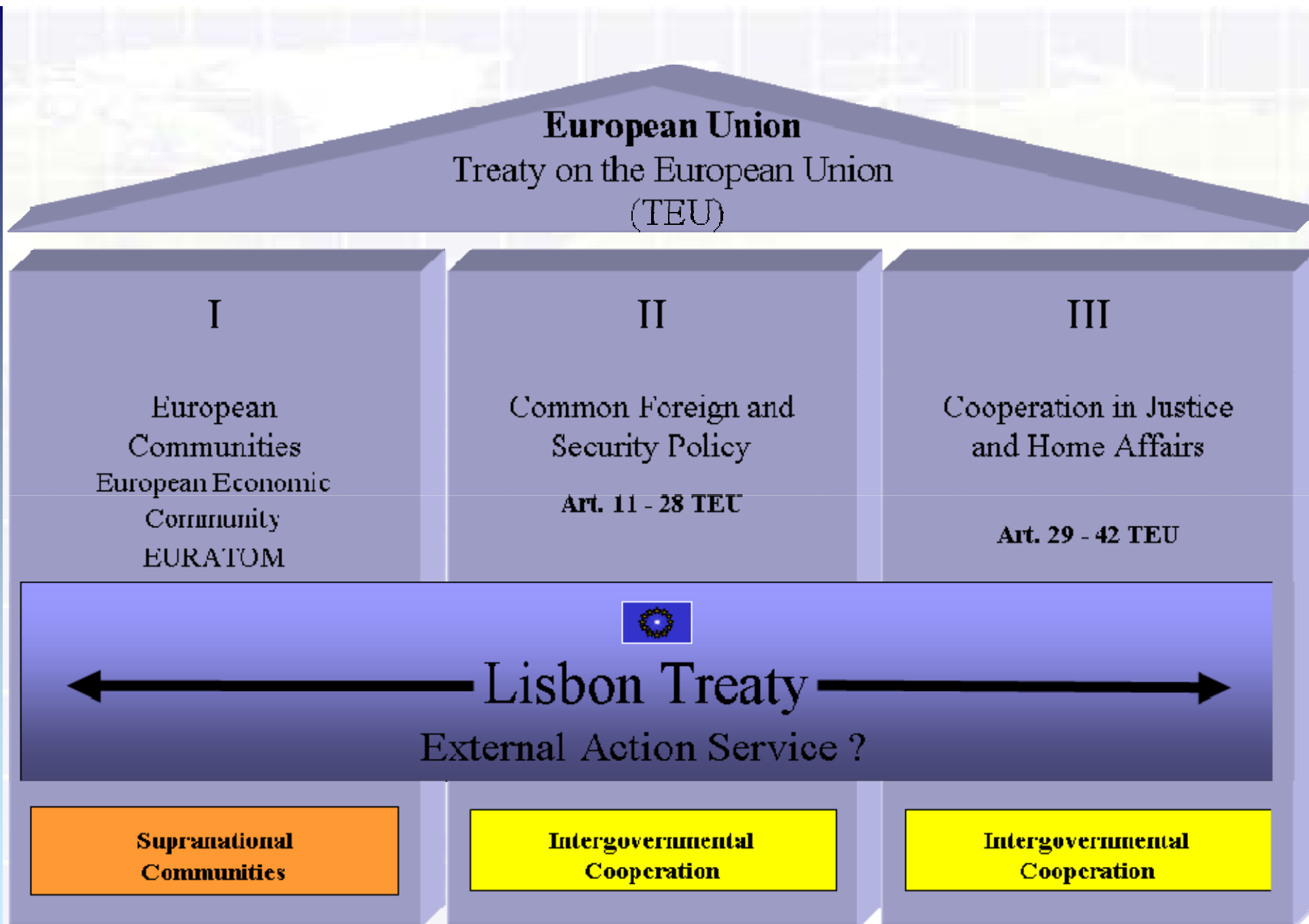
The **Political and Security Committee (PSC)** will, in accordance with its responsibilities for CFSP and in particular for the ESDP, **exercise political supervision** over the activities of the Centre and issue **guidance** to the **Secretary-General / High Representative** on the Centre's priorities.



JA Art. 4: Operational direction

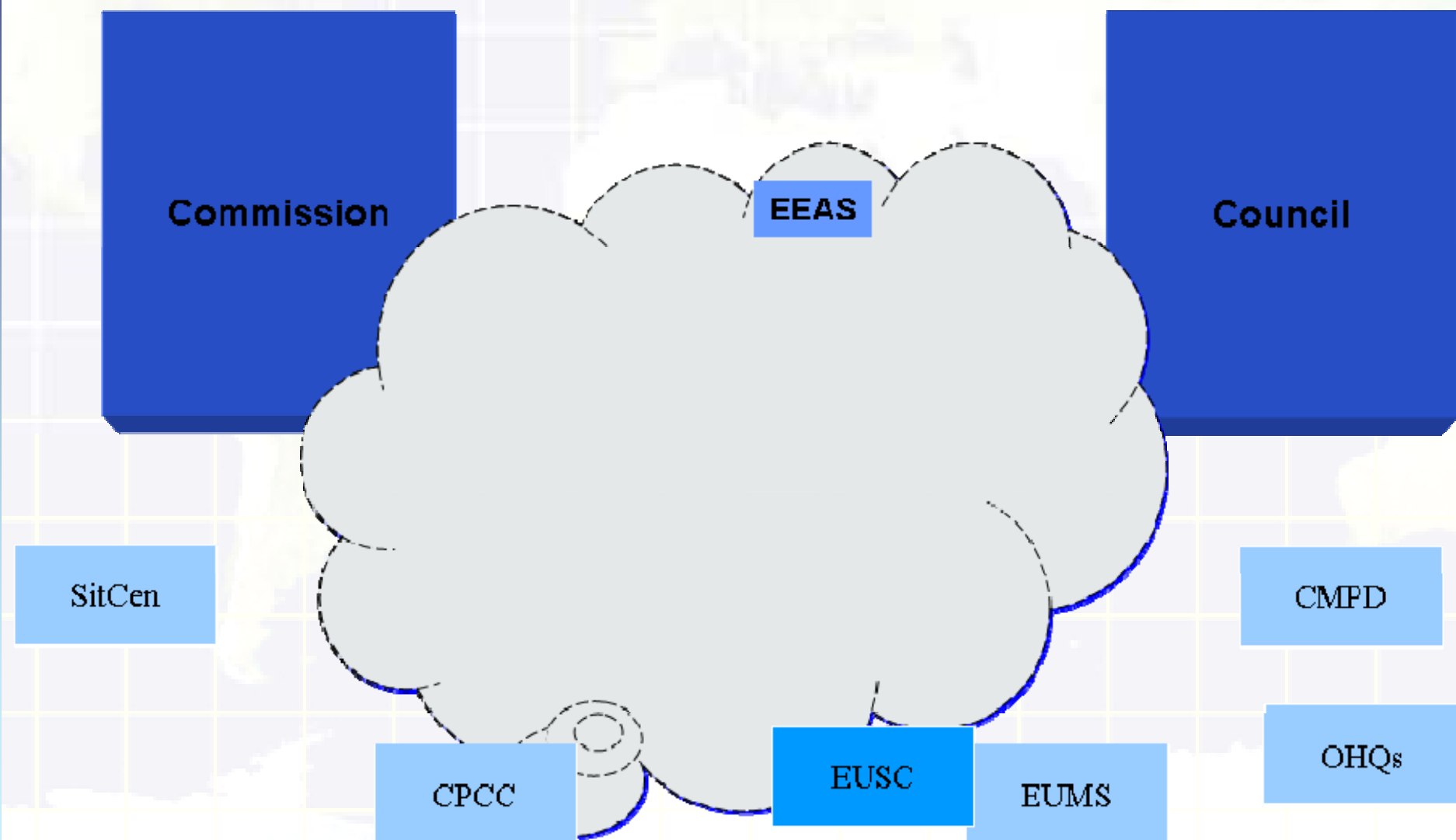
1. The **Secretary-General/High Representative** shall give **operational direction** to the Centre, without prejudice to the responsibilities of the Board and of the Director of the Centre, respectively, as set out in this Joint Action.
2. In the execution of his tasks as set out in this Article, the Secretary General/High Representative shall report as appropriate and at least once every six months to the Political and Security Committee.







EUSC and the European External Action Service





Data Sources used by the EUSC





LandSat

EOS ASTER

ENVISAT

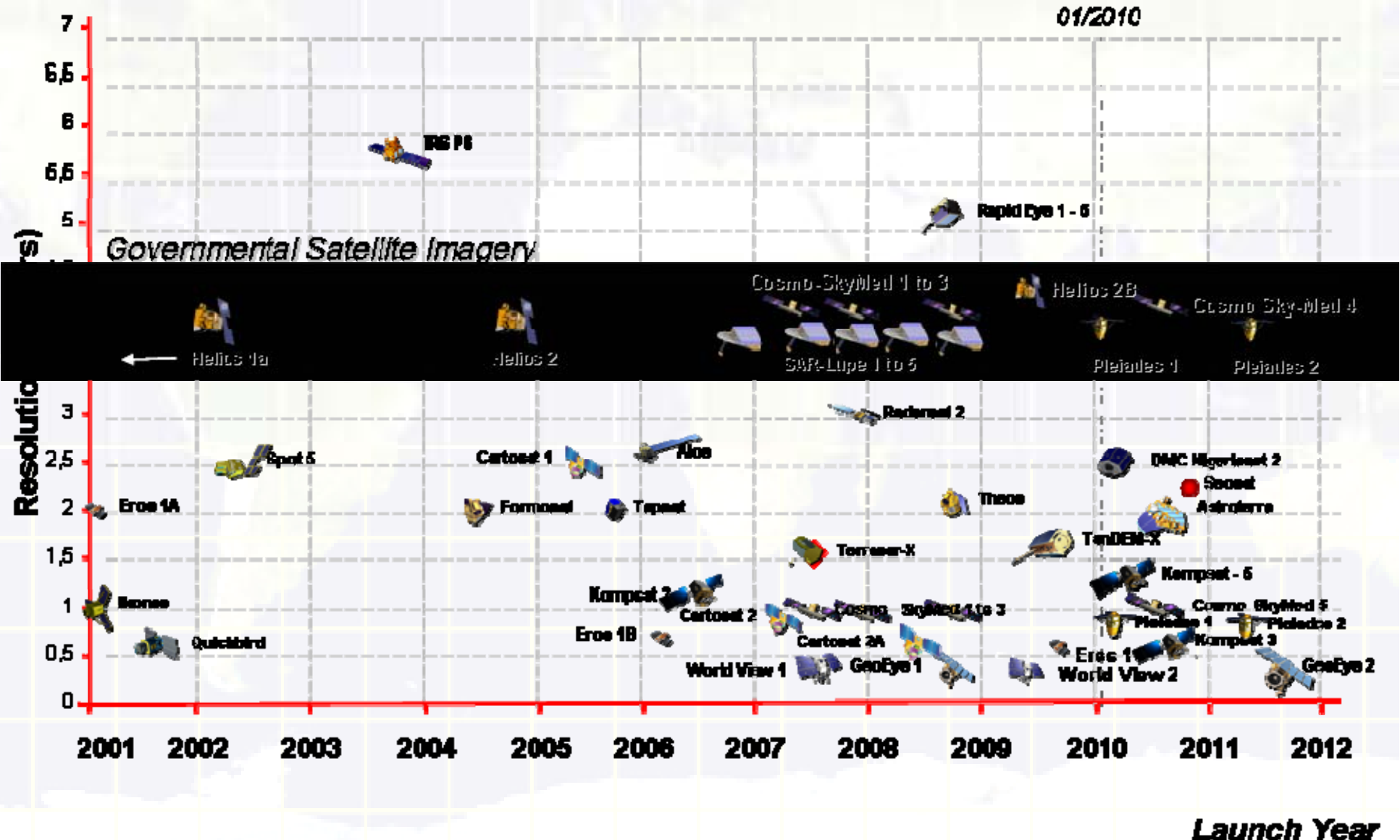
Satellite Sensors

Resolution and Availability

GME8
(Sentinel 1)



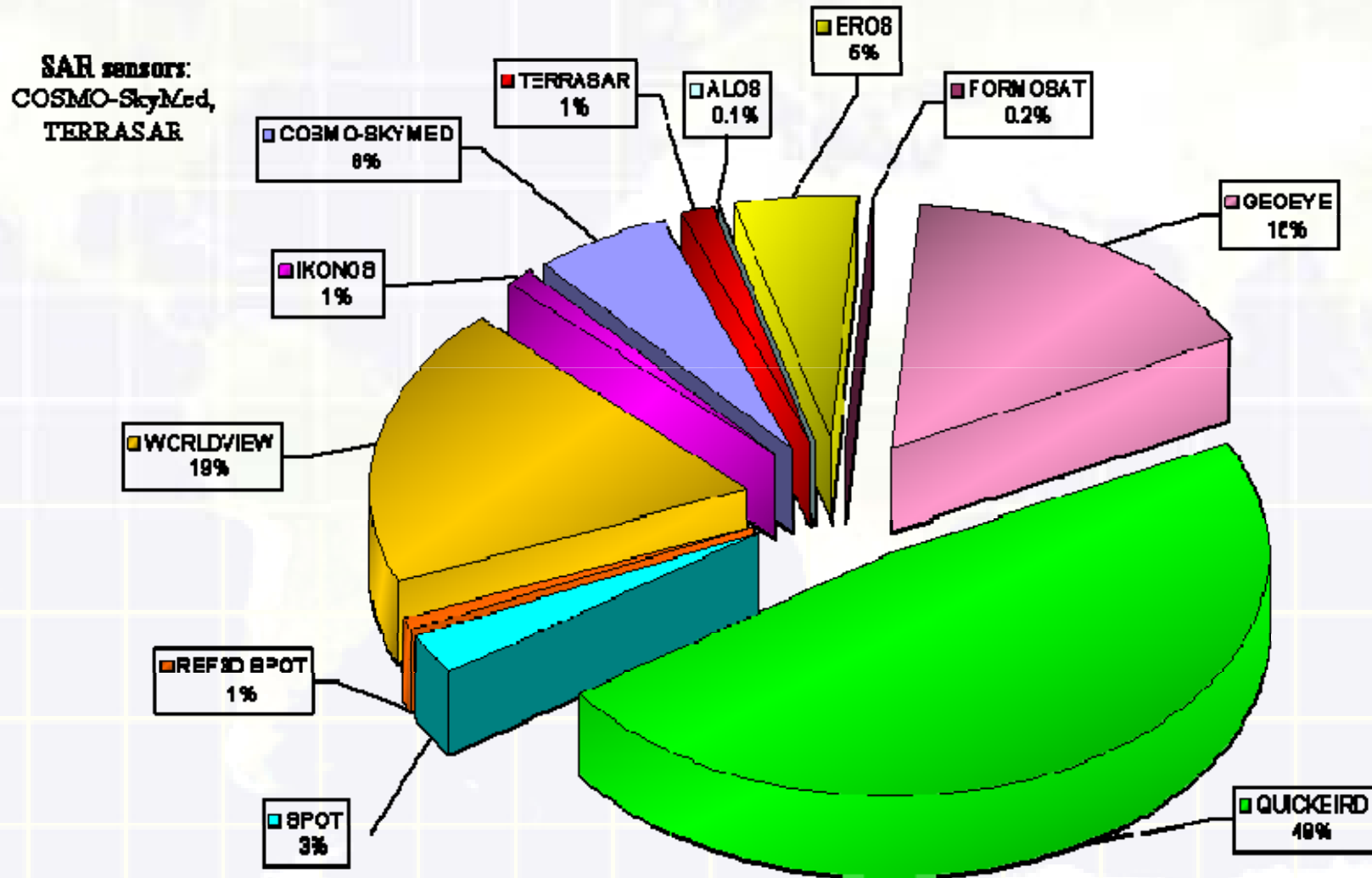
01/2010





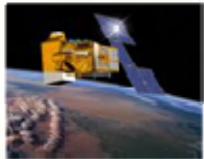
Commercial Imagery Sources

Share of 885 Images (EUSC, 2009)





Governmental Imagery Status

System	Legal Status	Technical connection	Operational status	Classification
Héllos 	MoU signed and Implemented	Data transfer via Spanish Héllos centre near EUSC	Operational Imagery received and processed; products distributed	CONFIDENTIEL UE
COSMO-SkyMed 	MoU signed; application agreement close to signature	Separate data link to be established	Operational (3) Dual use: commercial imagery already in use, military Imagery expected soon	CONFIDENTIEL UE
SAR-Lupe 	Letter of Intent signed; MoU close to signature	Separate data link to be established	Operational (5) Nearing first EUSC use	SECRET UE
Pleiades 	Discussions forthcoming	Data transfer via Spanish Héllos centre (?)	Awaiting launch (2) end-2010	CONFIDENTIEL UE (?)



- Civil Missions
- Military operations
- Achieved Missions/Operations
- Planned Missions/Operations

EUSF Border Teams Moldova/Ukraine and Georgia/South
Caucasus

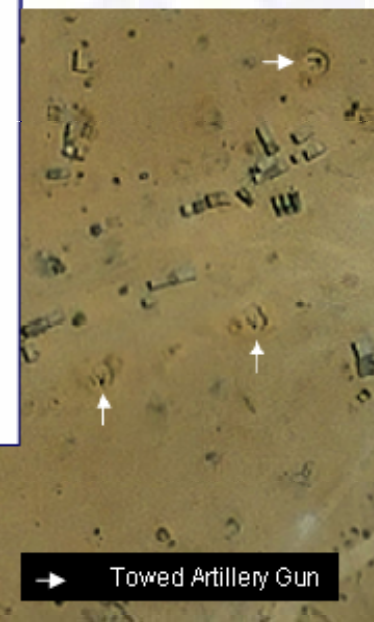


An aerial photograph of a large refugee camp in a dry, arid landscape. The camp is densely packed with numerous small, brown, conical tents. Interspersed among these are several larger, green, rectangular structures, likely temporary shelters or administrative buildings. In the background, a long, low wall or fence runs across the horizon, and beyond that, rolling hills and a small, prominent hill are visible under a hazy sky. The foreground shows some sparse, dry vegetation and a few trees.

Support for
EU Operations:
Chad

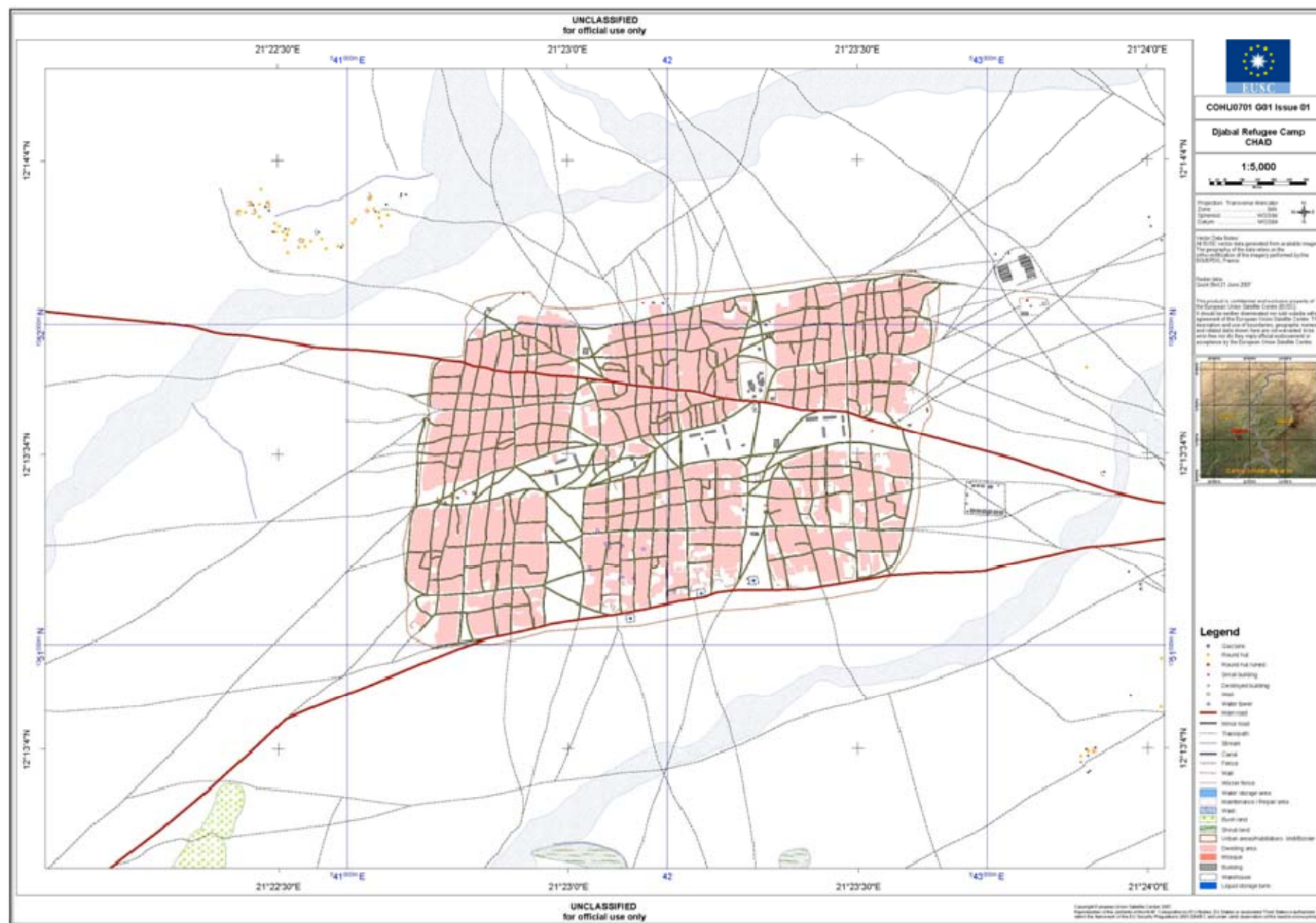
[illegible]

- [illegible]



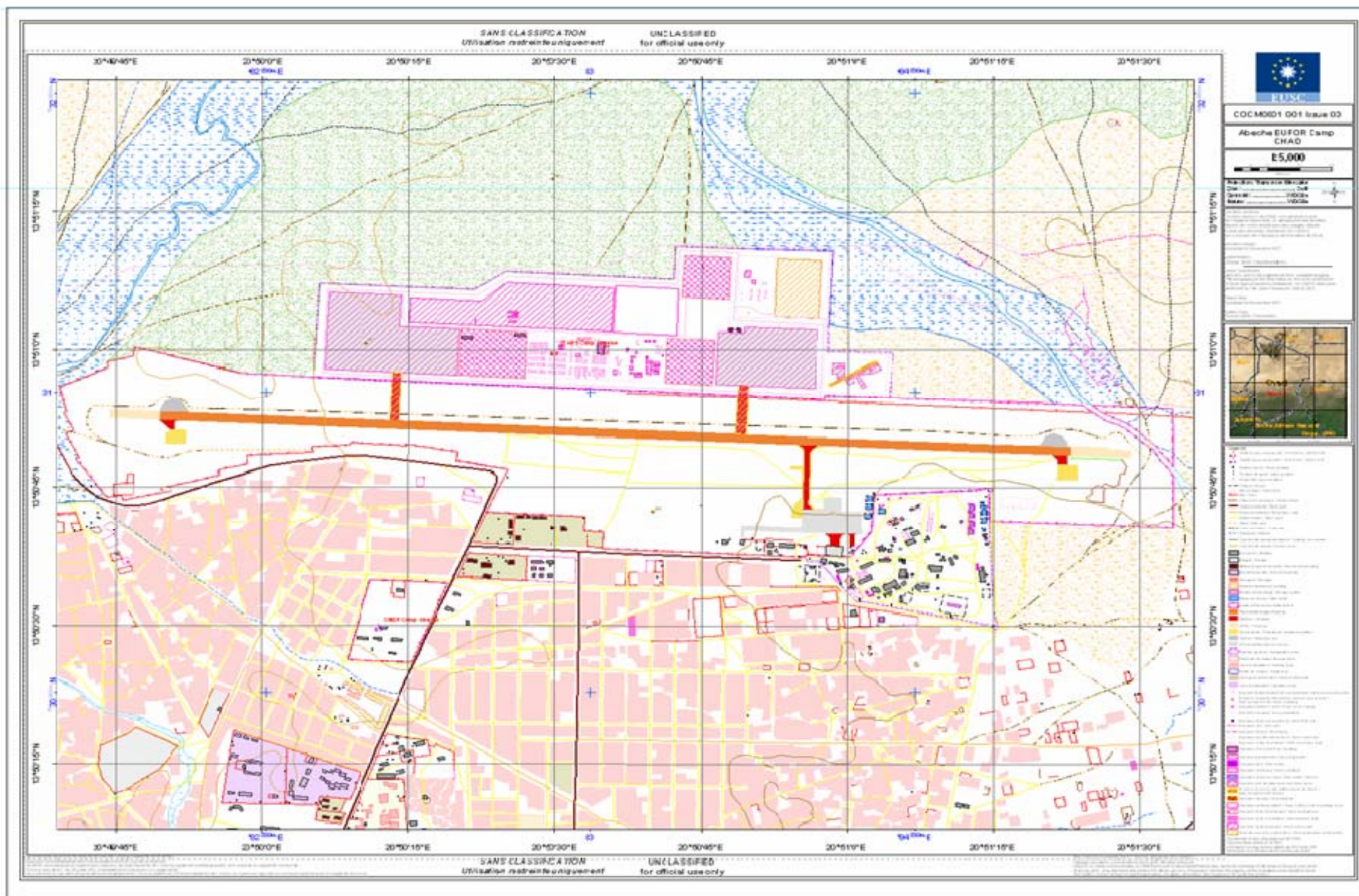
Towed Artillery Gun

[illegible]





Support to EUFOR TCHAD - Example of product



Support for EU Operations: EU NAVFOR Somalia



The Problem!

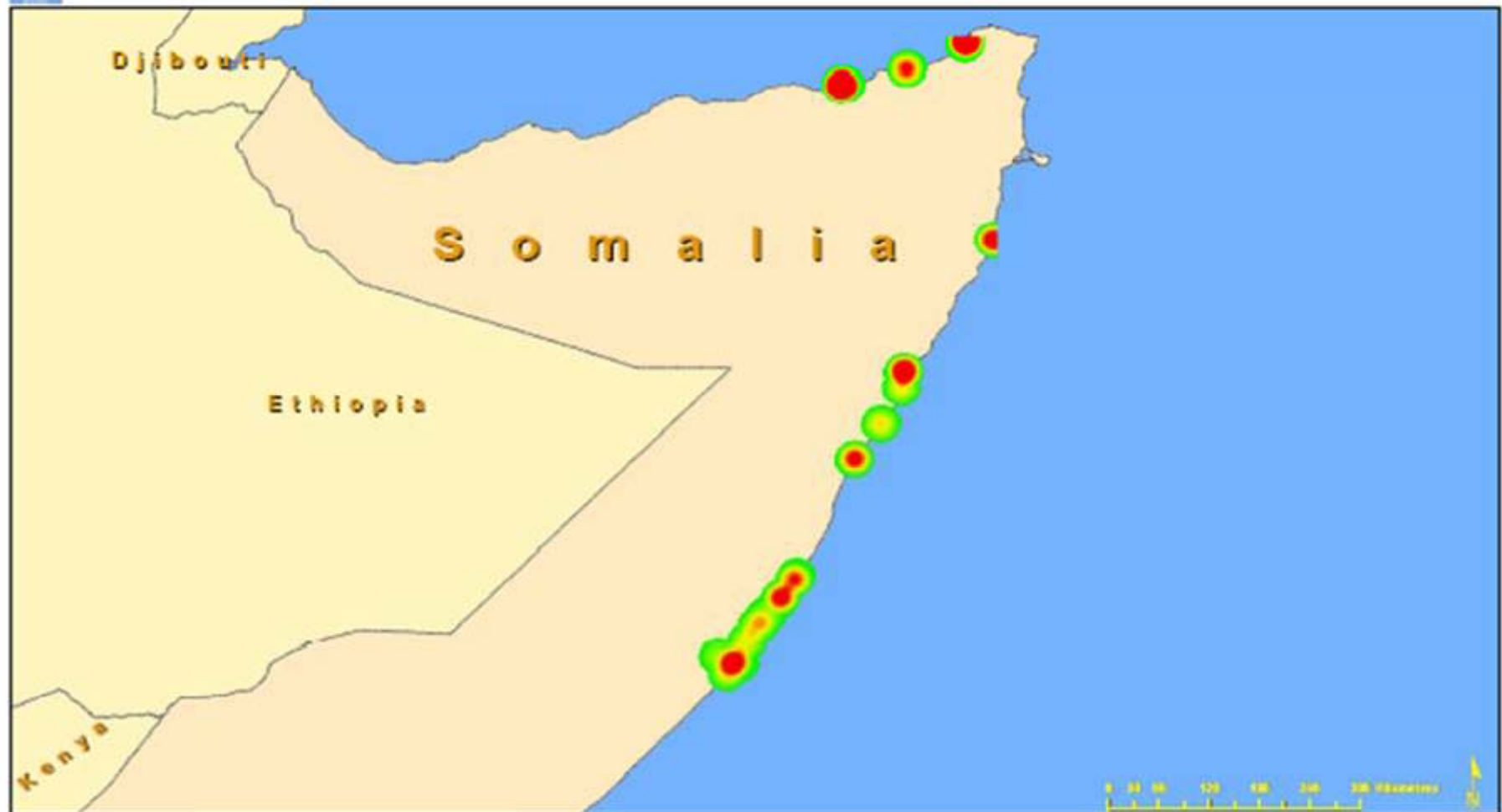
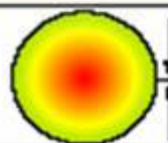




Total Skiff Density Study - Somalia

UNCLASSIFIED UE

Total Skiff Density Study - Somalia



Less dense area of skiffs

More dense area of skiffs

Less dense area of skiffs

All Skiff data vectorised from available imagery by EUSC.
for June 2009 – December 2009.

UNCLASSIFIED UE

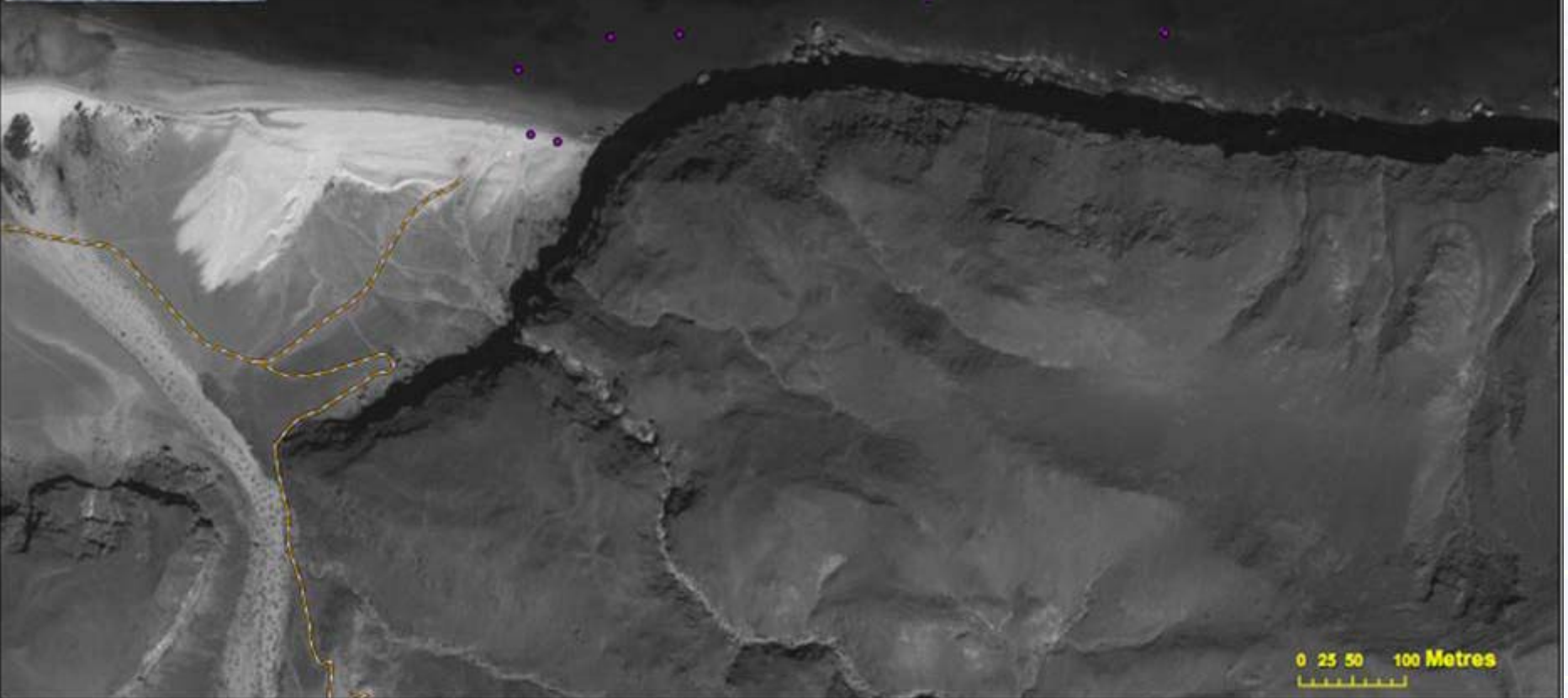
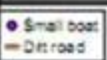


Support to Atalanta - Example of harbours





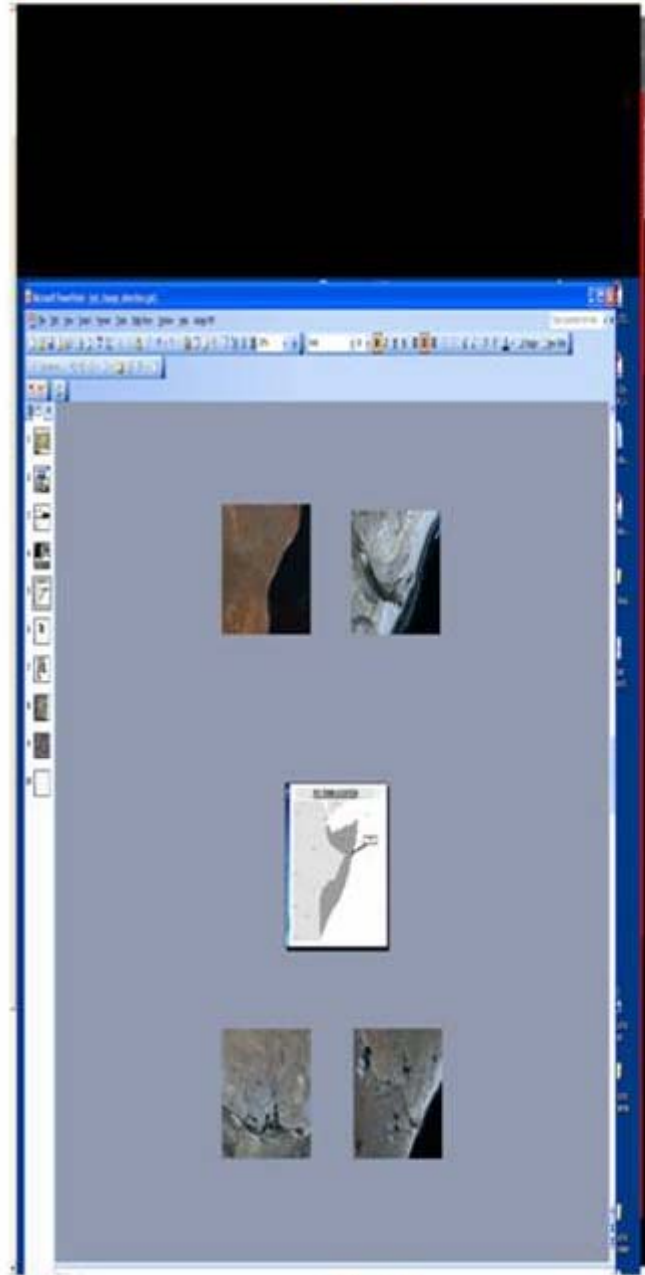
Support to Atalanta - Example of product



IA Comment: The sandy cove is situated in an area far from normal habitation such as villages. Also, the boats observed on imagery are small craft, not fishing skiffs that are usually seen along the AOI coastline. The existence of a basic dirt approach road on imagery and the possibility of access to possible caves would make the sandy cove a good location to carry out covert activities.

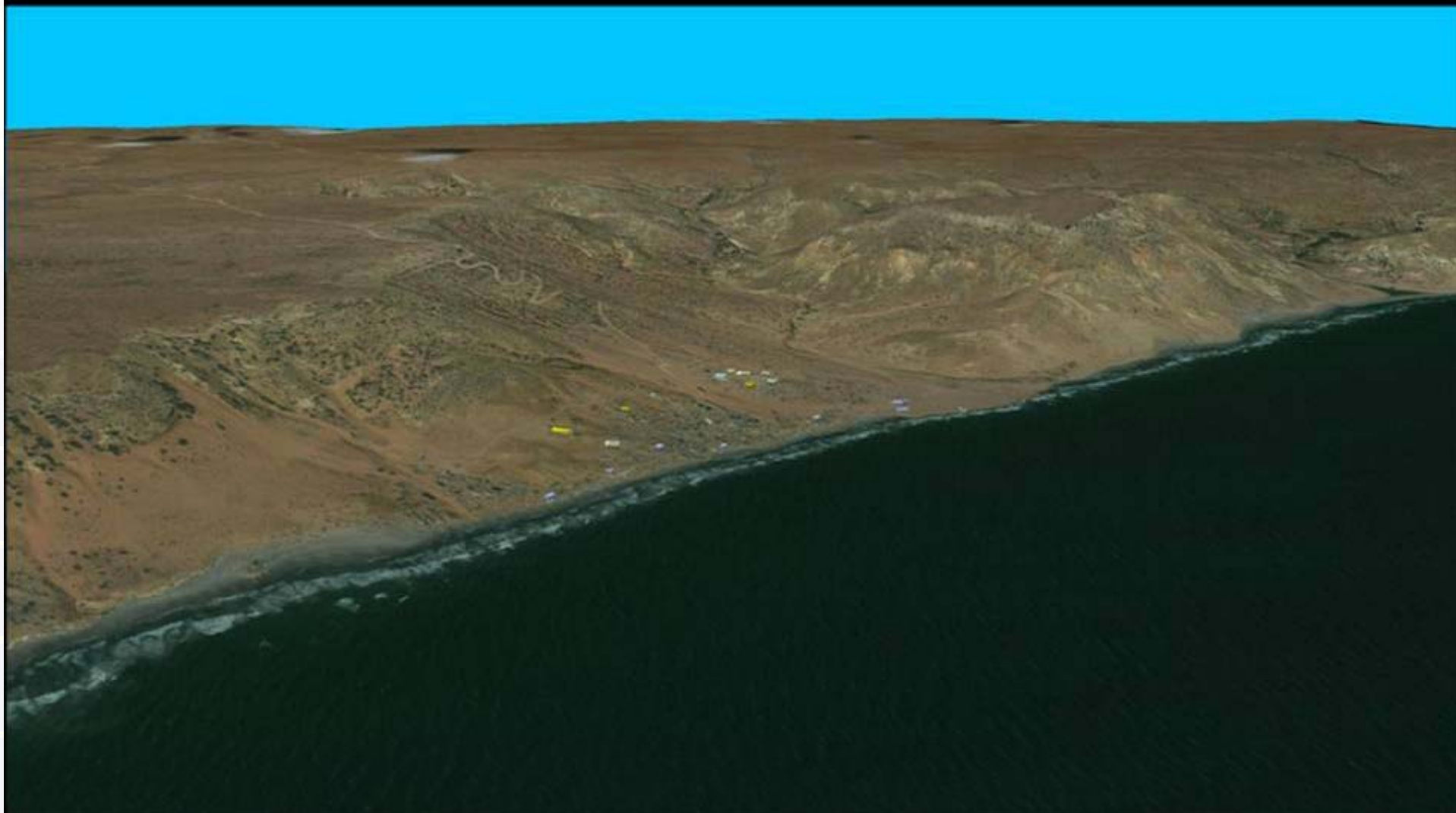


DIGITAL GEOGRAPHIC INFORMATION PRODUCT (DGI)





Search for Potential Pirate Camps – 3D Views of the Coastline





Haiti earthquake – EUSC Cooperation with GMES

GMES (G-MOSAIC Project) activated by United Nations, Spanish Red Cross and other National users.

EUSC tasked by Dutch MoD.

Both GMES & EUSC worked in coordination to provide Rapid Mapping including damage assessment, road trafficability, airport and port analysis.



Good example of synergies between EUSC and GMES.

Operational experience of the EUSC for the benefit of GMES.

More products available for a larger community of users.

-> BUT STILL R&D ACTIVITIES





Thank you for your attention!

Tomaž Lovrenčič

Director

European Union Satellite Centre
Apdo. de Correos, 511
E-28850 Torrejón de Ardoz/Madrid,
Spain

e: t.lovrencic@eusc.europa.eu

t: +34 91 678 6001, f: +34 91 678 6006