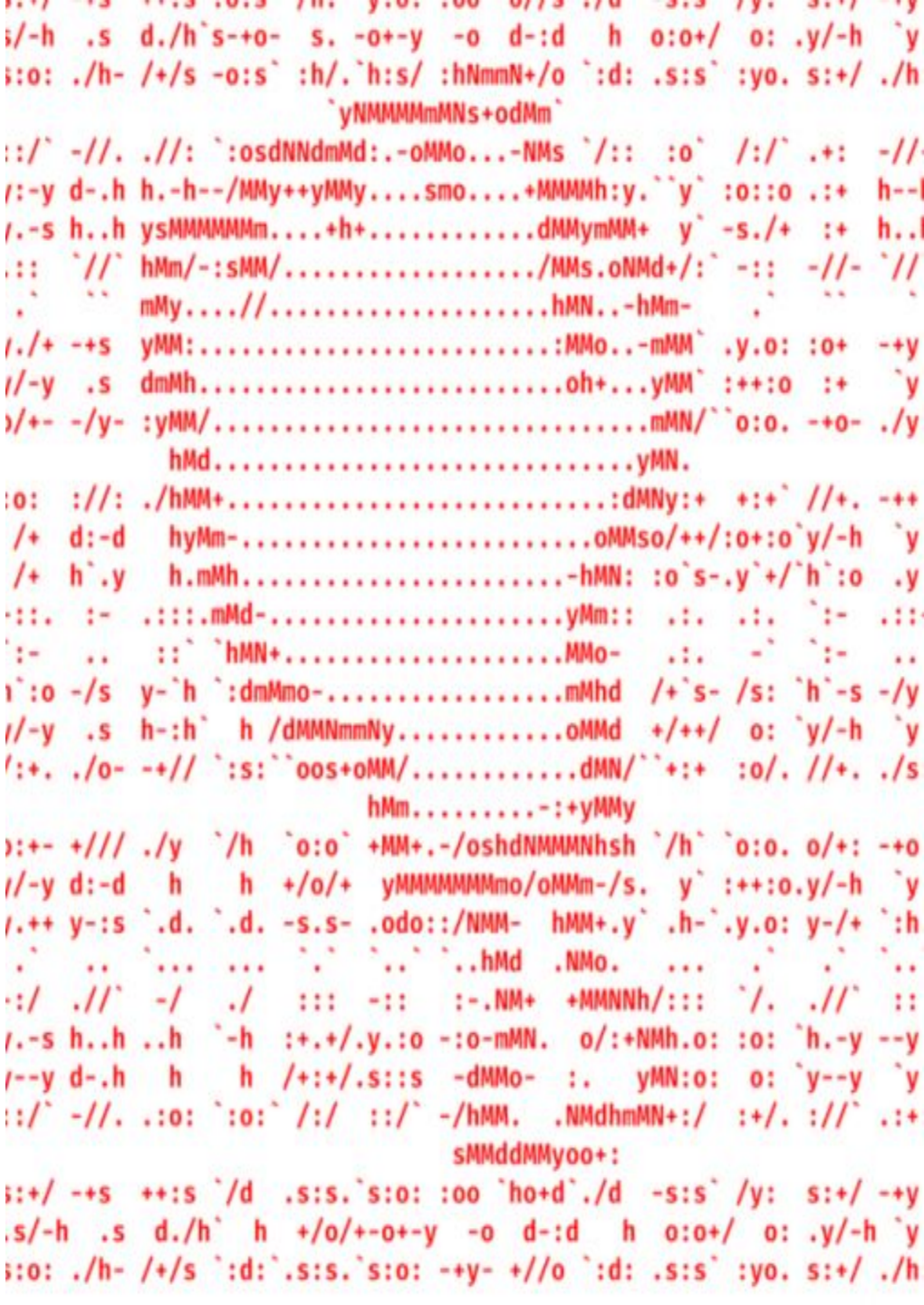
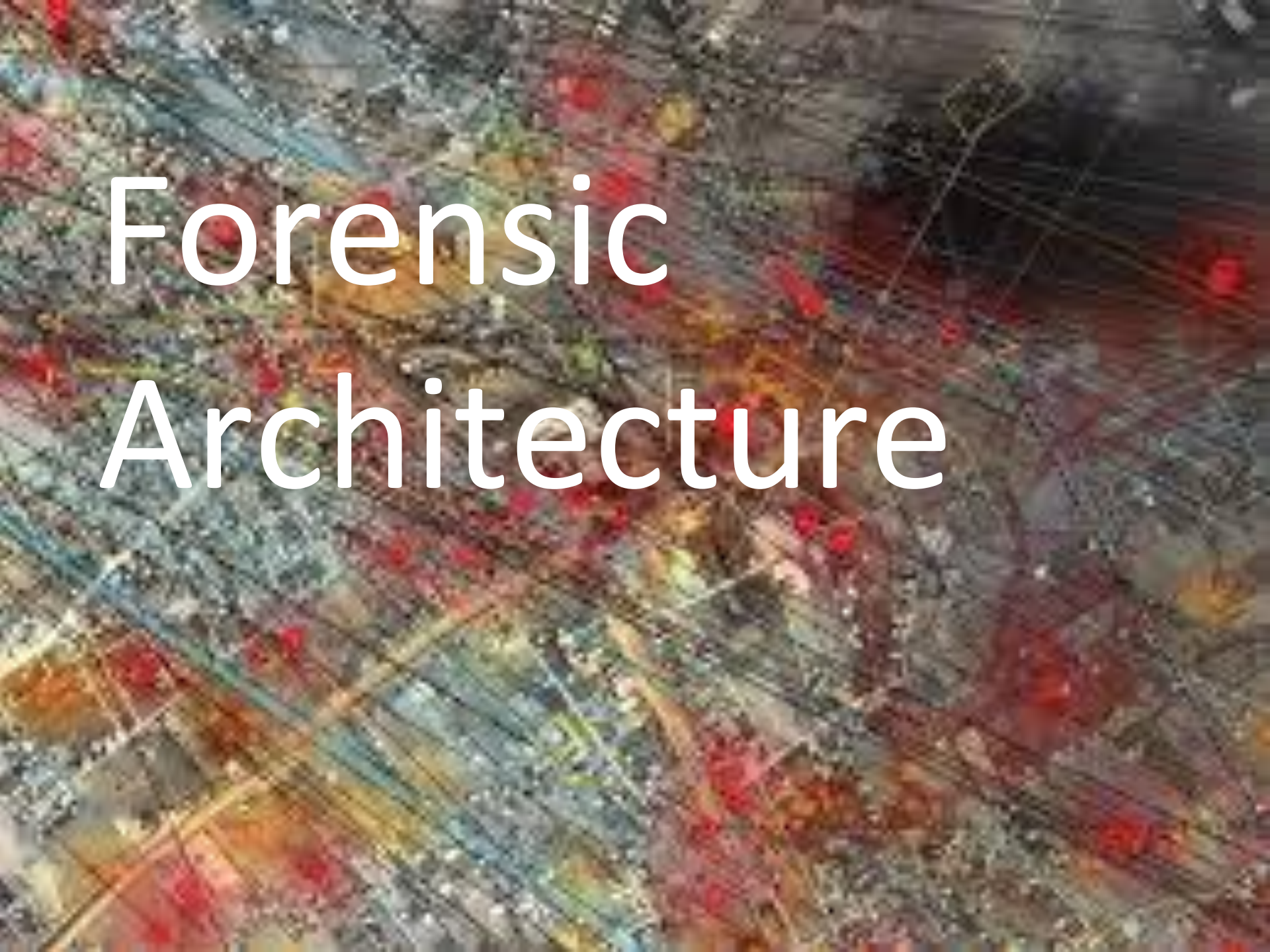
El poder de los datos

Miren Gutiérrez
Universidad de Deusto
m.gutierrez@deusto.es
Hirikilabs
SummerLab 2019




Forensic
Architecture

DOCUMENTALES
“Killing in Umm al-Hiran” (Muerte en Umm al-Hiran)
“Chemical Attacks in Al Lataminah” (Ataques químicos en Al Lataminah)
“Torture and Detention in Burundi” (Tortura y detención en Burundi)
“The Seizure of The Iuventa” (La captura del Iuventa)
“Torture in Saydnaya Prison” (Tortura en la prisión Saydnaya)
“The Bombing of Rafah” (El bombardeo de Rafah)
“The Left-To-Die Boat” (El barco de los abandonados a la muerte)

Título	Hechos	Min.	Métodos
“Killing in Umm al-Hiran”	2017: Policía israelí allana la aldea beduina Umm al-hiran (Naqab/Negev). Durante la redada, dos personas mueren: Yaqub Musa Abu al qi’an y Erez Levi.	30:05	Modelado 3D, recreación, sincronización, fotogrametría, imagen compleja
“Chemical Attacks in Al Lataminah”	2017: Posibles ataques armas químicas (sarín) en las ciudades sirias de Khan Sheikhoun y Al Lataminah.	3:07	Modelado 3D
“Torture and Detention in Burundi”	2016: Aparición de un video en redes sociales en Burundi mostrando un líquido rojo en el canal de drenaje de una casa en Bujumbura, que podría ser un centro de detención y tortura secreto.	22:59	Modelado 3D, testimonios localizados, inteligencia abierta (OSINT)
“The Seizure of the Iuventa”	2017: Acusación del poder judicial italiano a operadores del Iuventa y miembros de la ONG alemana Jugend Rettet de connivencia con contrabandistas y asistencia a la migración ilegal en el Mediterráneo.	33:45	Dinámica de fluidos, sincronización, teledetección
“Torture in Saydnaya Prison”	2016: Condiciones en la prisión secreta Saydnaya, cerca de Damasco, que no ha sido visitada por ningún/a periodista ni activista.	27:40	Modelado 3D, testimonios localizados, análisis de sonido, recreación, desarrollo de software
“The Bombing of Rafah”	2014: Cuatro días de bombardeos en los que más de dos mil hogares fueron destruidos en Rafah, Gaza.	4:30	Modelado 3D, teledetección, sincronización, análisis de patrones, geolocalización, imágenes complejas
“The Left-to-die Boat”	2011: Muerte de 63 migrantes a bordo de una barca en las aguas de Libia.	17:59	Dinámica de fluidos, teledetección

14:55 GMT

DAY 01
27.03.2011

DAY 02
28.03.2011

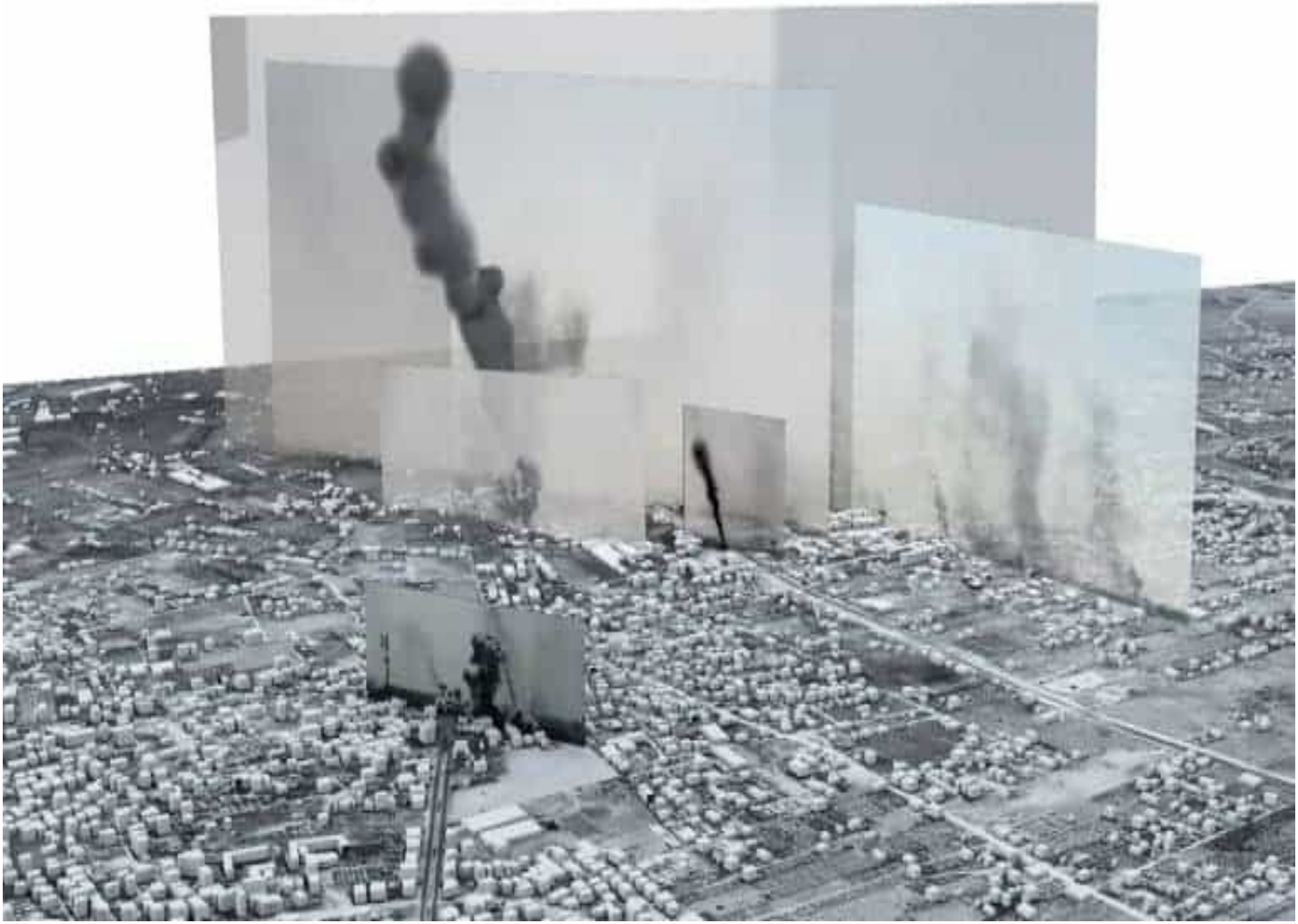
French Aircraft > Italian Coast Guard HQ-Rome

AIRCRAFT SIGHTING

- "LEFT-TO-DIE" BOAT TRAJECTORY
- MIGRATION ROUTES
- COMMERCIAL VESSEL POSITIONS (AIS DATA)
- MAIN FISHING AREAS
- FRONTEX OPERATIONAL AREAS
- SEARCH AND RESCUE ZONES
- AIRSTRIKES
- NATO SURVEILLANCE AREA
- MILITARY SHIPS
- DISTANCE OF KNOWN MILITARY SHIPS
- SATELLITE IMAGERY
- SIGNALS CIRCULATION
- GPS LOCATION
- SIGNALS COVERAGE

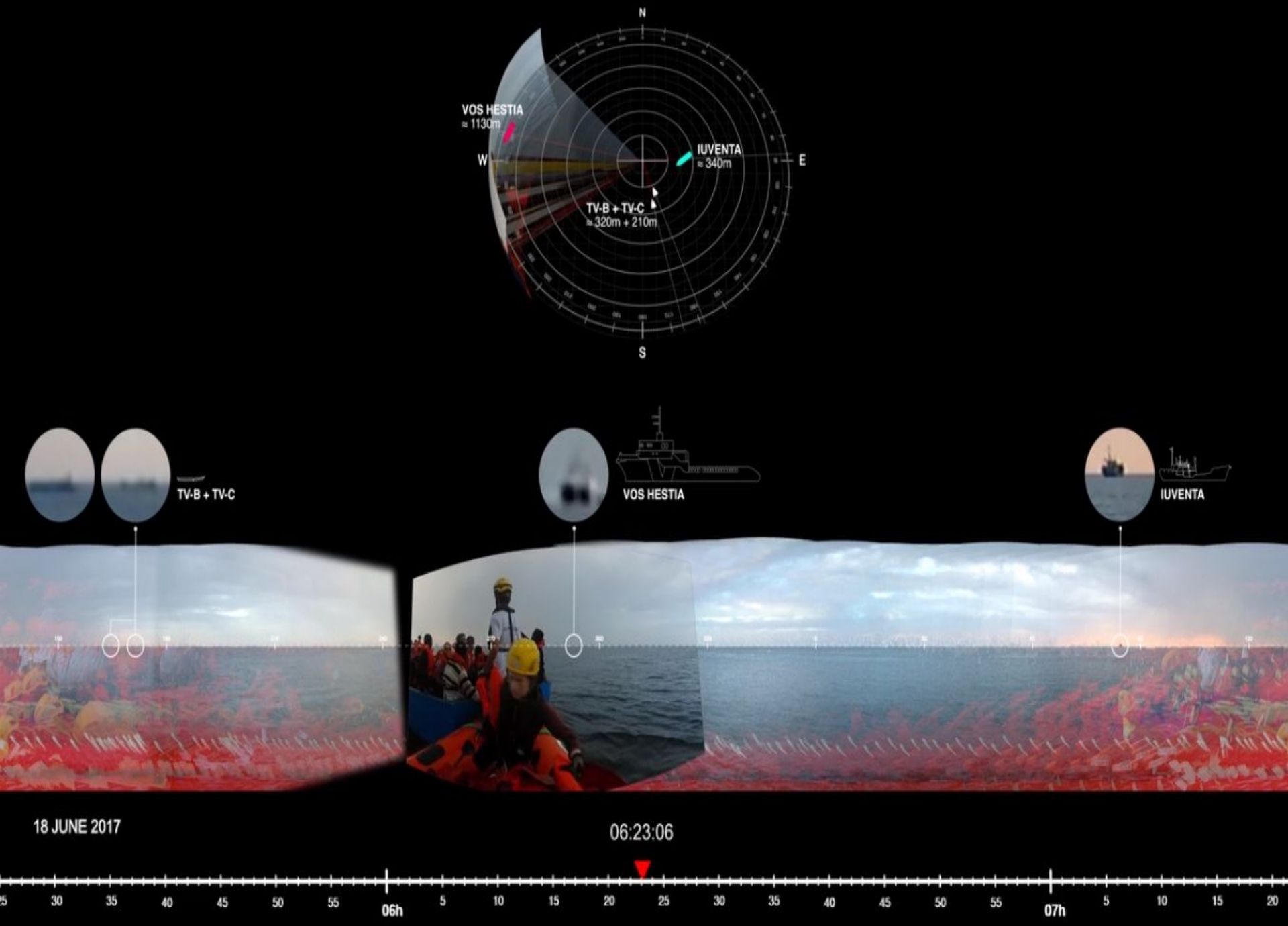
0 35 70 140 210 KM

PICTURE TAKEN BY FRENCH SURVEILLANCE AIRCRAFT AT 14:55 GMT, 27.03.2011



THERMAL CAMERA

KEREN MANOR


N
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S
VOS HESTIA
≈ 1130m
IUVENTA
≈ 340m
TV-B + TV-C
≈ 320m + 210m
TV-B + TV-C
VOS HESTIA
IUVENTA
18 JUNE 2017
06:23:06
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20

Polizia di Stato
GOMMONE DELLA IUVENTA CHE
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1°evento "SAR" del 18.06.2017

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MOLDOVA
Chisinău
RUSSIA
Odessa
Krasnodar
Elista
Maykop
Crimea
Sevastopol
Nalchik
Grozny
Caspian Sea
Black Sea
Constanța
Varna
BULGARIA
Bucharest
ROMANIA
Milan
Turin
Genoa
Florence
MONACO
SAN MARINO
Ljubljana
SLOVENIA
Zagreb
CROATIA
Belgrade
SERBIA
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Thessaloniki
Aegean Sea
Istanbul
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Pantelleria
Sousse
Valletta
MALTA
TUNISIA
Lampeduza
Constantine
Oran
Strait of Gibraltar
Alboran Sea
Rabat
Fès
Casablanca
MOROCCO
Marrakesh
Sfax
Gulf of Gabes
Crete
Aleppo
Homs
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IRAQ
Nicosia
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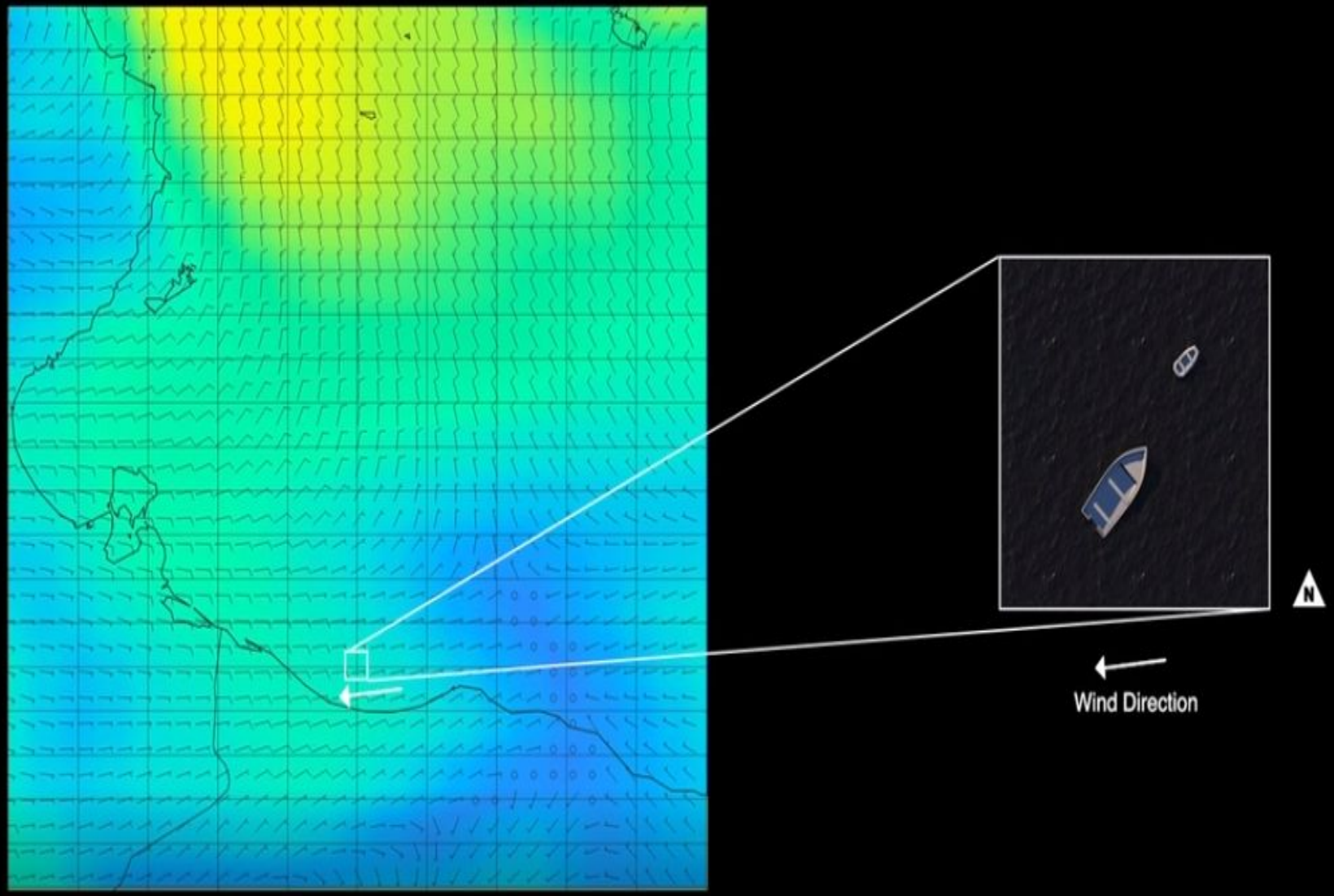
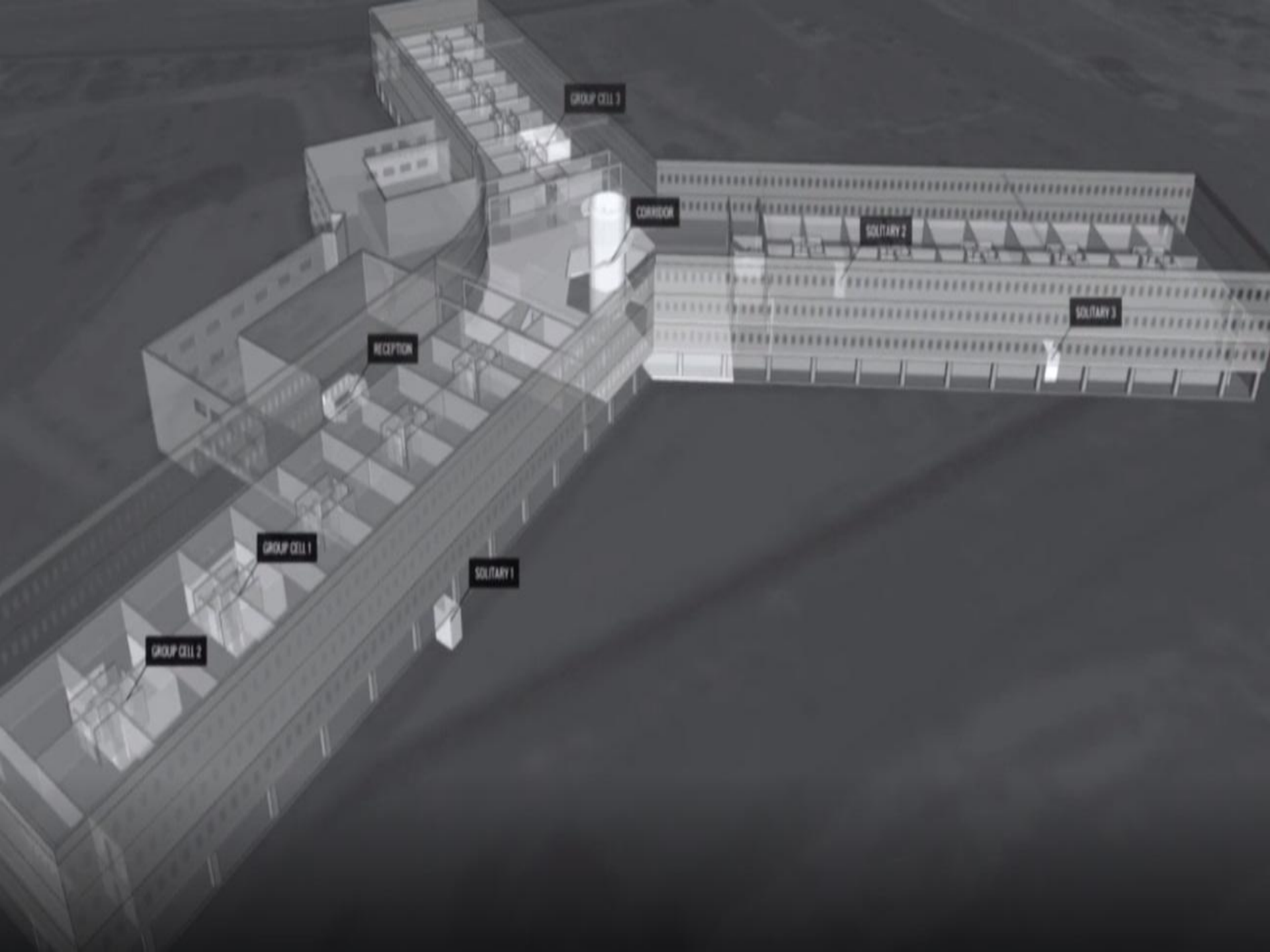
Beirut
Damascus
Levantine Sea
Tel Aviv
Jerusalem
Amman
ISRAEL
JORDAN
Suez
Cairo
Alexandria
Tripoli
Misrata
Gulf of Sidra
Benghazi
Tobruk
Sirte
ALGERIA
LIBYA
EGYPT
SAUDI ARABIA
KUWAIT
Kuwait
Persian Gulf
MEDITERRANEAN SEA
Capital city
Major city
0 400 800 1200 km
0 200 400 600 800 mi

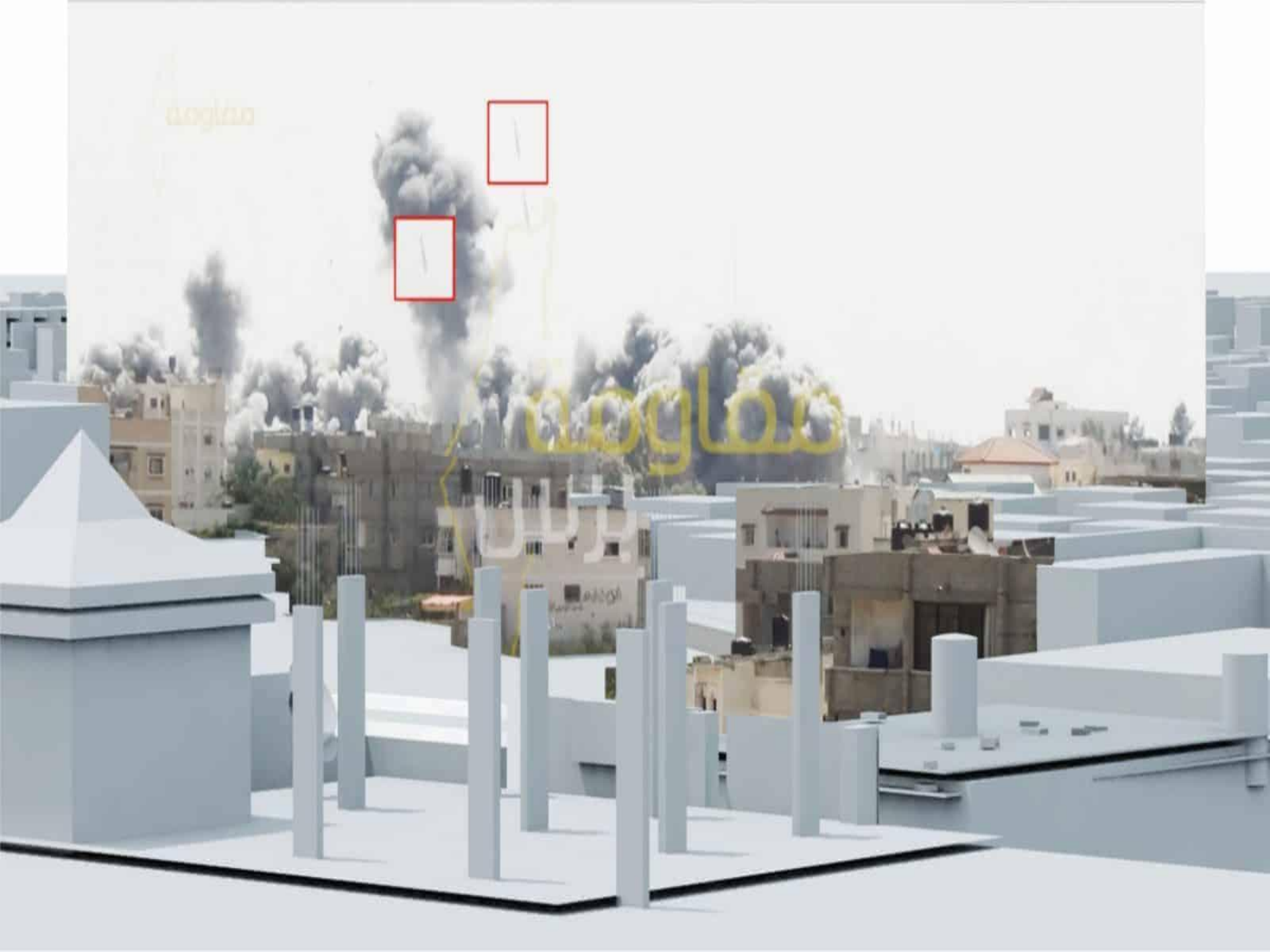


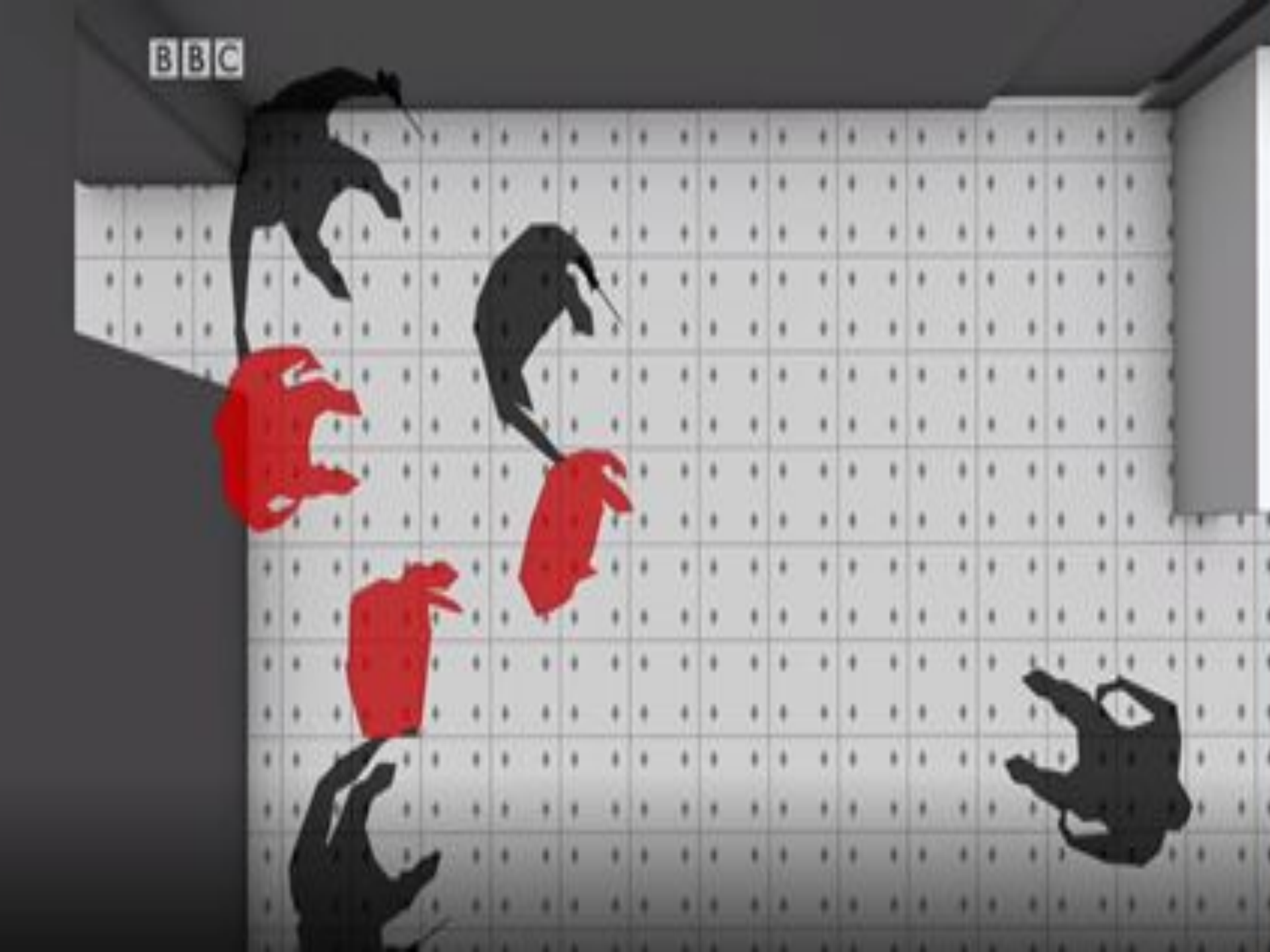
18 JUNE 2017

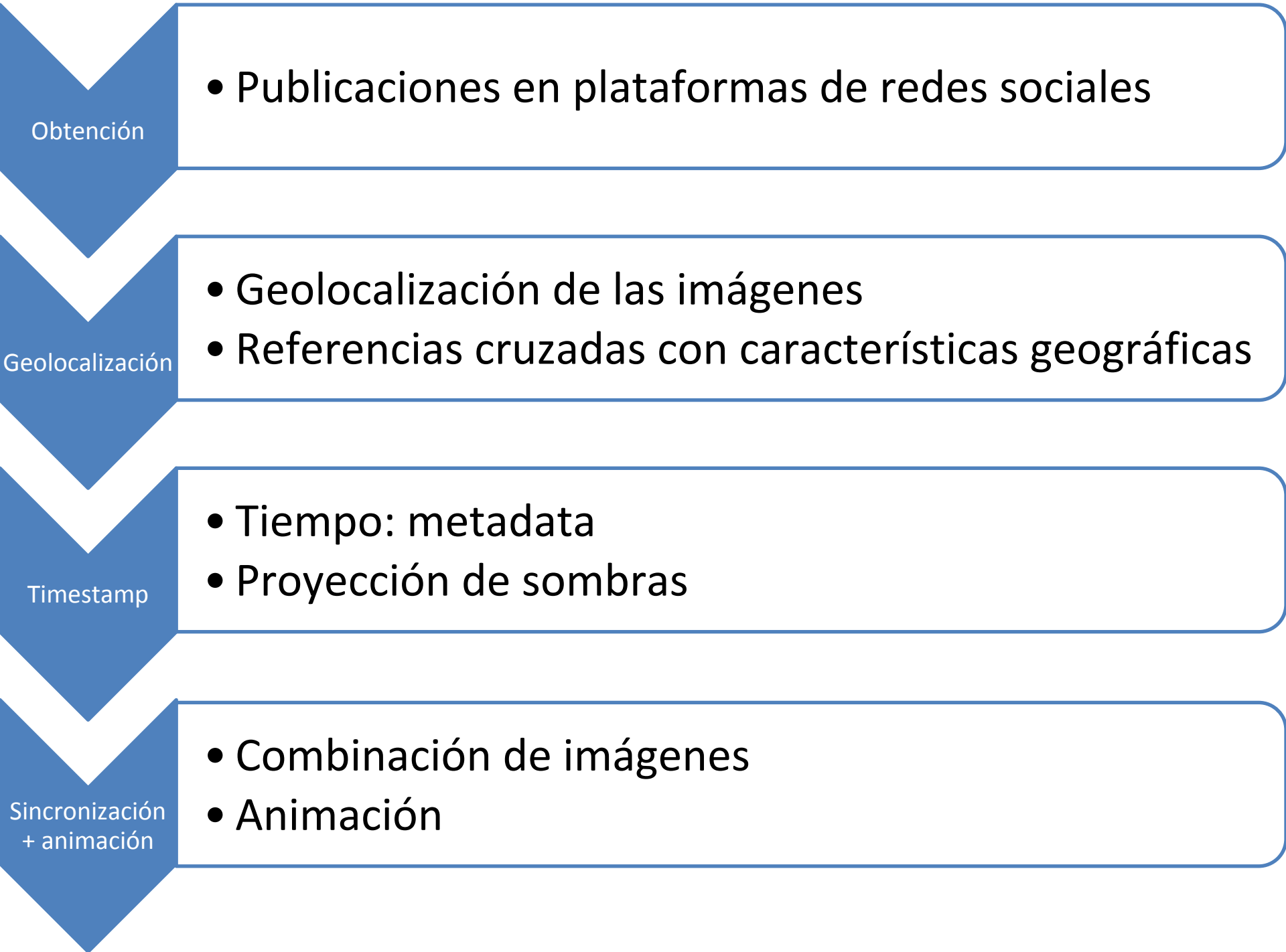
07:34:00


GROUP CELL 3
CORRIDOR
SOLITARY 2
SOLITARY 3
RECEPTION
GROUP CELL 1
SOLITARY 1
GROUP CELL 2

No preset
Param
2/6 in 2/6 out
UI
Next door
4 guest room door 1 closed 2 open
pictures
about
preferences
gated verb
positioner
snapshots
ir import
ir info
waveform
waterfall
eq-curve
reverb time
2.12 Sec
move
rotate
zoom
to head
bright
size
I/O
in
out
mix
EQ
bass
treble
DAMPING
low
mid
high
TIME
pre delay
attack
Add
Remove
0.2%/0.2% CPU 0/0 spls
MASTER
MONO
center
Faster than that, like this?


مقاومة

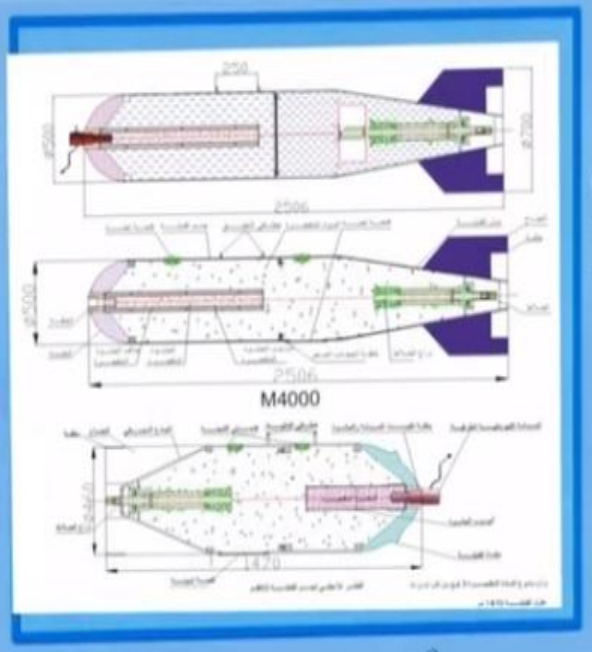

BBC


Obtención
• Publicaciones en plataformas de redes sociales
Geolocalización
• Geolocalización de las imágenes
• Referencias cruzadas con características geográficas
Timestamp
• Tiempo: metadata
• Proyección de sombras
Sincronización + animación
• Combinación de imágenes
• Animación

“La verificación abierta (que practica FA) tiene menos acceso al privilegio de las prácticas de verdad institucionalizadas, cuyos reclamos a menudo están respaldados solo por la autoridad de sus respetables fachadas que suelen ocultar el trabajo duro y desordenado de la construcción de casos”.

Weizman (2019)

Признаки бомбового удара



МУМ6000

О – 500 мм
Вес – 650 кг
TNT – 5 кг

М4000

О – 460 мм
Вес – 350 кг
TNT – 3,5 кг

Пример. Кинетическая энергия в момент встречи с преградой авиабомбы **М4000** при скорости встречи $V_{вс}$ – 277 *м/сек* равна

$$E = \frac{QV_{BC}^2}{2g}$$

$E = (350*277^2)/2*9{,}81 = 1\,368\,764{,}016$ *кГм*

E — кинетическая энергия в кГм;
$V_{вс}$ — скорость авиабомбы при встрече с преградой в м/сек;
Q — вес авиабомбы в кг;
G — ускорение силы тяжести, равное 9,81 м/сек².

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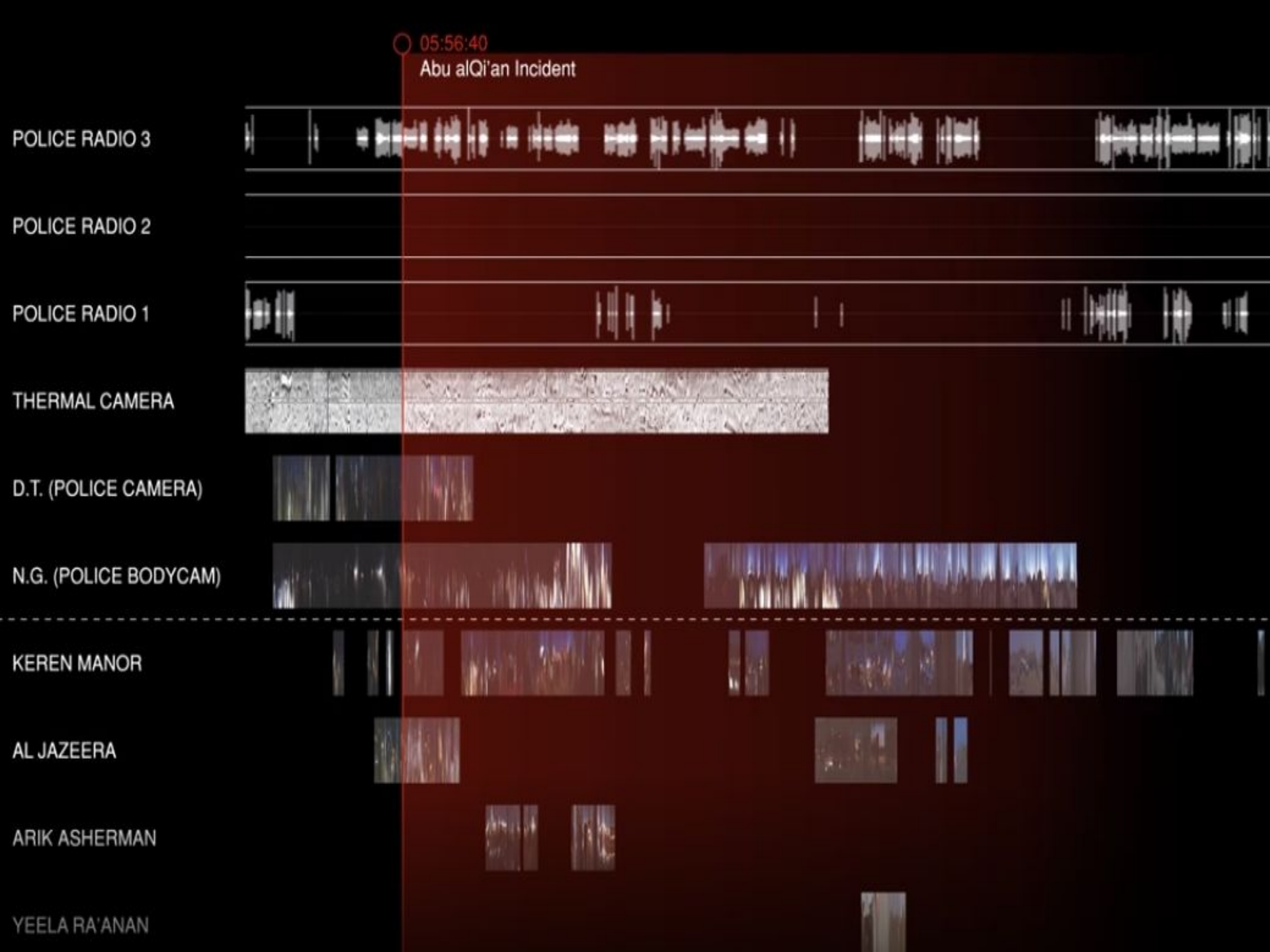
- Intermedios
- Espacios de interacción


05:56:40
Abu alQi'an Incident
POLICE RADIO 3
POLICE RADIO 2
POLICE RADIO 1
THERMAL CAMERA
D.T. (POLICE CAMERA)
N.G. (POLICE BODYCAM)
KEREN MANOR
AL JAZEERA
ARIK ASHERMAN
YEELA RA'ANAN

Home Moments Noti Tweet

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ALERT—Blood flowing out of a house suspected to be a clandestine jail used by #Burundi SNR—Kinindo Ave Ntwarante #76

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We are a group of concerned citizens who raise awareness and denounce injustices in Burundi. We are iBurundi.

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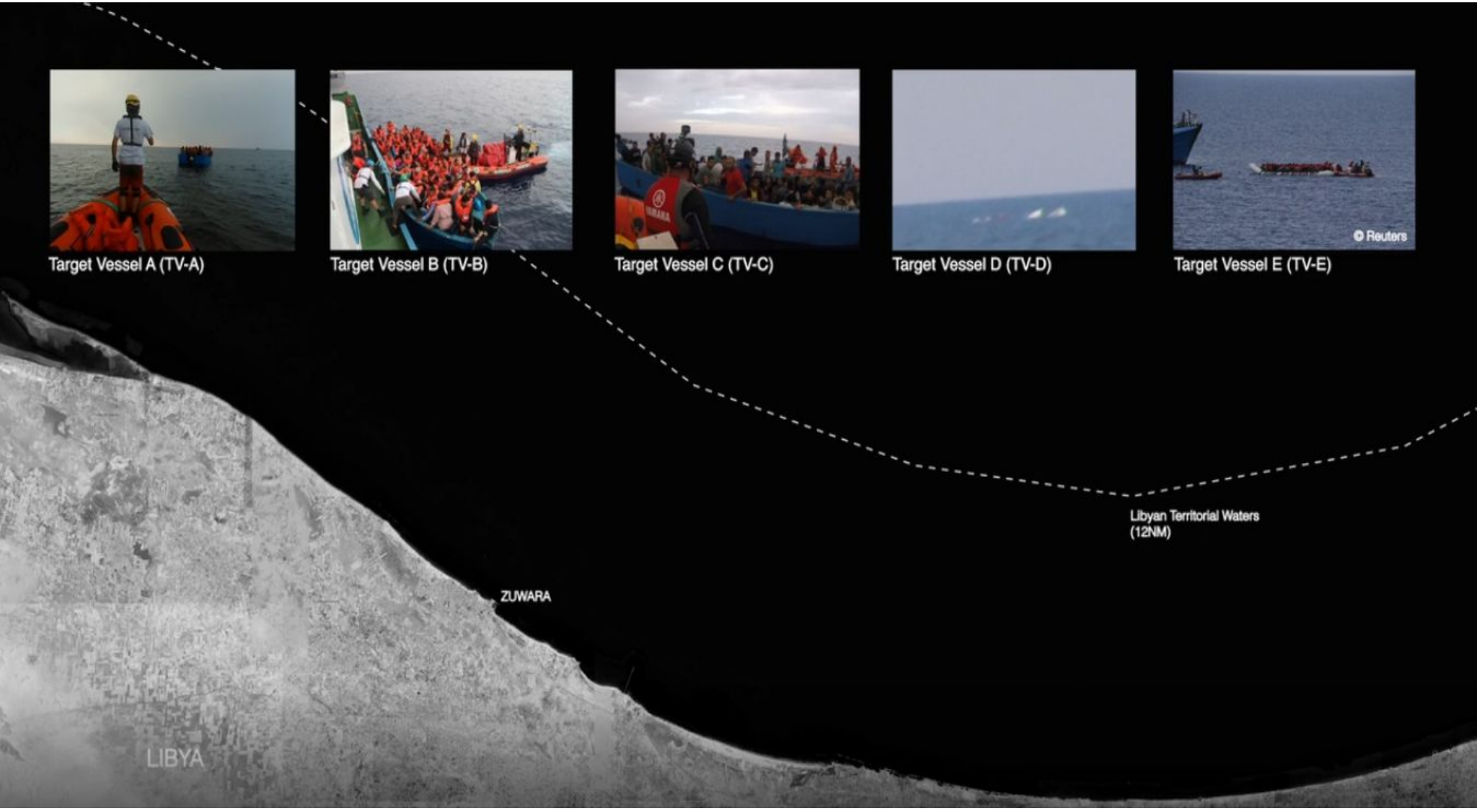
Target Vessel A (TV-A)
Target Vessel B (TV-B)
Target Vessel C (TV-C)
Target Vessel D (TV-D)
Target Vessel E (TV-E)
© Reuters
Libyan Territorial Waters
(12NM)
ZUWARA
LIBYA

Título	Multilingüismo	Intermediarios	Espacios de interacción
“Killing in Umm al-Hiran”	Árabe, inglés, hebreo	Aldea beduina, Manor	Diversas voces entretejidas en documental
“Chemical Attacks in Al Lataminah”	No	Ministerio de Asuntos Exteriores ruso	Rueda de prensa e investigación
“Torture and Detention in Burundi”	Kirundi, inglés, francés	Casa de la Avenida Ntwarante 76, Bujumbura, Kaze, Nathan, Pierre, Martin	Intercambio creado en el documental entre FA, BBC y testigos
“The Seizure of The Iuventa”	Inglés, alemán, italiano	Mar, Miguel, migrante intermediario	Diálogo entre Miguel, el migrante intermediario, naves de rescate, autoridades italianas
“Torture in Saydnaya Prison”	Árabe, inglés	Prisión Saydnaya	Testigos al unísono: “agua, agua, agua”
“The Bombing of Rafah”	Árabe, inglés	Rafah	No
“The Left-to-die Boat”	Árabe, inglés	Mar	Intercambio creado en el documental entre FA y testigos

Inside the secret killing house

04 Dec 18

BBC finds truth behind this woman's killing

24 Sep 18

Nigeria's deadly cough syrup epidemic

30 Apr 18

Cameroon's descent towards civil war

25 Jun 18

Torture exposed at Somali rehab clinic

30 Jul 18

Burundi: Inside the secret killing house

Burundi's security services are running secret torture and detention sites to silence dissent, former government intelligence agents have told BBC Africa Eye.

Using cutting-edge reconstruction techniques, BBC Africa Eye examines one house in particular, which was filmed in a video posted on social media in 2016.

A red liquid, which looked like blood, was seen pouring from its gutter. We ask if Burundi's repression of opponents has now gone underground?

The government has always denied any human rights violations, and declined to comment for this report.

A BBC Africa Eye investigation - produced and directed by Charlotte Attwood and Maud Jullien

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Italy

Captain of migrant rescue ship says Italy 'criminalising solidarity'

Pia Klemp, one of the Iuventa 10, says it is 'ridiculous' that she could face jail

Daniel Boffey *in Brussels and* **Lorenzo Tondo** *in Palermo*

Sat 15 Jun 2019 05.00 BST

2,710

▲ Pia Klemp is seeking to raise funds to cover legal costs likely to reach €500,000. Photograph: Paul Lovis Wagner

A captain of a search-and-rescue ship potentially facing up to 20 years in jail in connection with her role in saving 6,000 people from drowning in the Mediterranean has accused the EU of letting people die and the Italian authorities of "criminalising solidarity".

Pia Klemp, 35, who skippered the Iuventa, a vessel run by an NGO, stands accused with nine others of aiding and abetting illegal migration in relation to their role in seeking to rescue people in danger after fleeing the Libyan coast for Europe.

The evidence publicly produced by the Italian authorities for their claims that the rescuers collaborated with people smugglers was found wanting by academics at Goldsmith University last year. The Iuventa was seized two years ago and charges are yet to be laid.

Advertisement

Style
Pharrell Williams, Gigi Hadid celebrate Karl Lagerfeld in...

Style
A quadrillion tons of diamonds lie deep beneath the Earth's...

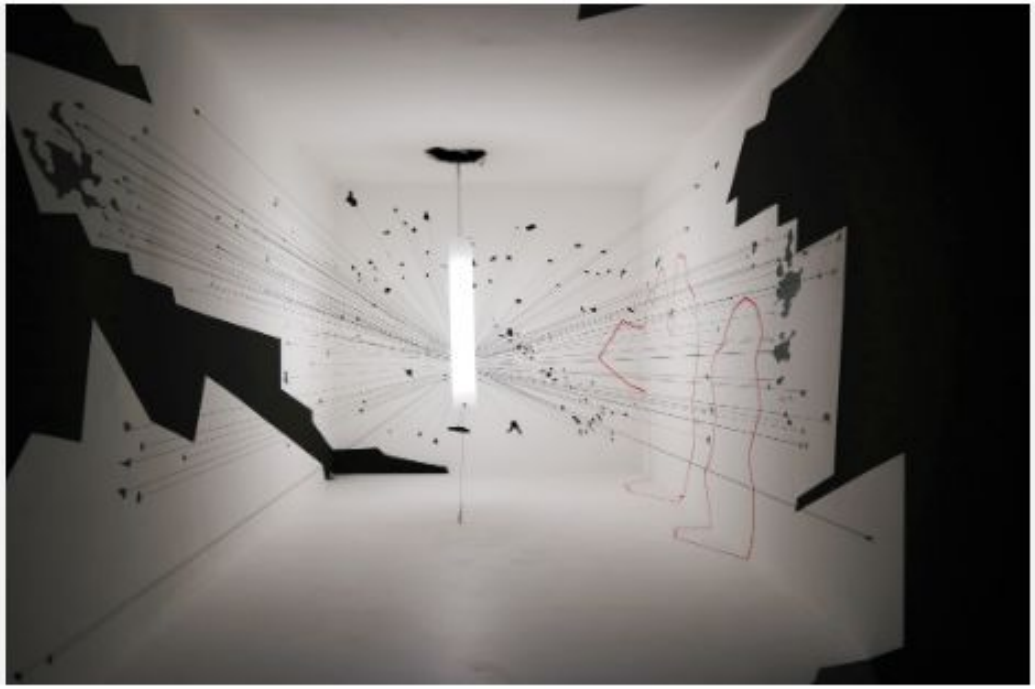
Style
McDonald's goes designer and other highlights from...

Style
'Obscene' books on display at Oxford University

Design

Forensic Architecture wins the 2018 Beazley Design of the year award

Published 15th November 2018



1 / 29 - "Counter Investigations: Forensic Architecture," an exhibition at London's Institute of Contemporary Arts, has won the 2018 Beazley Design of the Year. Design Museum

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!Gracias!