

Teledetection related to waste crimes

11:00-12:00 21/11/2019

Guardia Civil Officer's Academy

Aranjuez (Madrid)

Manuel Salgado Blanco

Inspección ambiental . Xunta de Galicia

Welcome !!!

Teledetection related to waste crimes



2019 GALICIAN INSPECTION PLAN		Planned	N.
DIRECTIVE 2010/75/EU on industrial emissions (integrated pollution prevention and control)	P	33	
	NP	92	
Non IPPC activities (VOCs, Atmosphere polluting, WEEEs, End of Life Vehicles, Technosoils, Landfills, CDWaste, environmental liability,...)	P	157	
	NP	170	
Regulation (EC) No. 1013/2006 on Shipments of Waste. In collaboration with Guardia Civil de Tráfico, Seprona, and Portugueses authorities and Guarda Nacional		58	
Authonomous Police Environmental Inspections (Uncontrolled waste disposal points, sealed dumps, RCD Producers, car workshops)		1160	



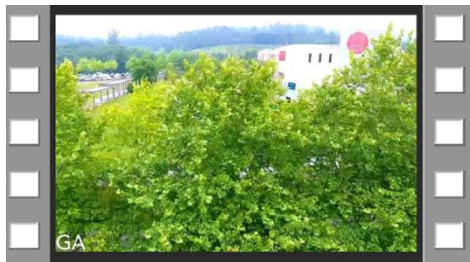
Informe 02 (xunio/2018)



VALENÇA DO MINHO



Cooperation with Galician Emmergencies Agency (AMXEGA)



AXEGA HEADQUARTERS 12-1:59

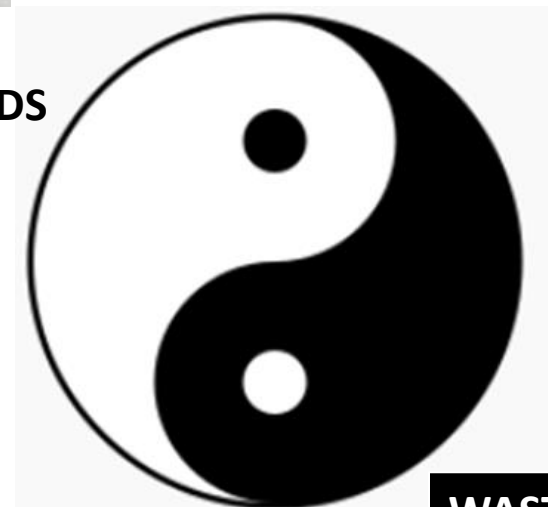


Waste crimes



BUT...

GOODS



WASTE



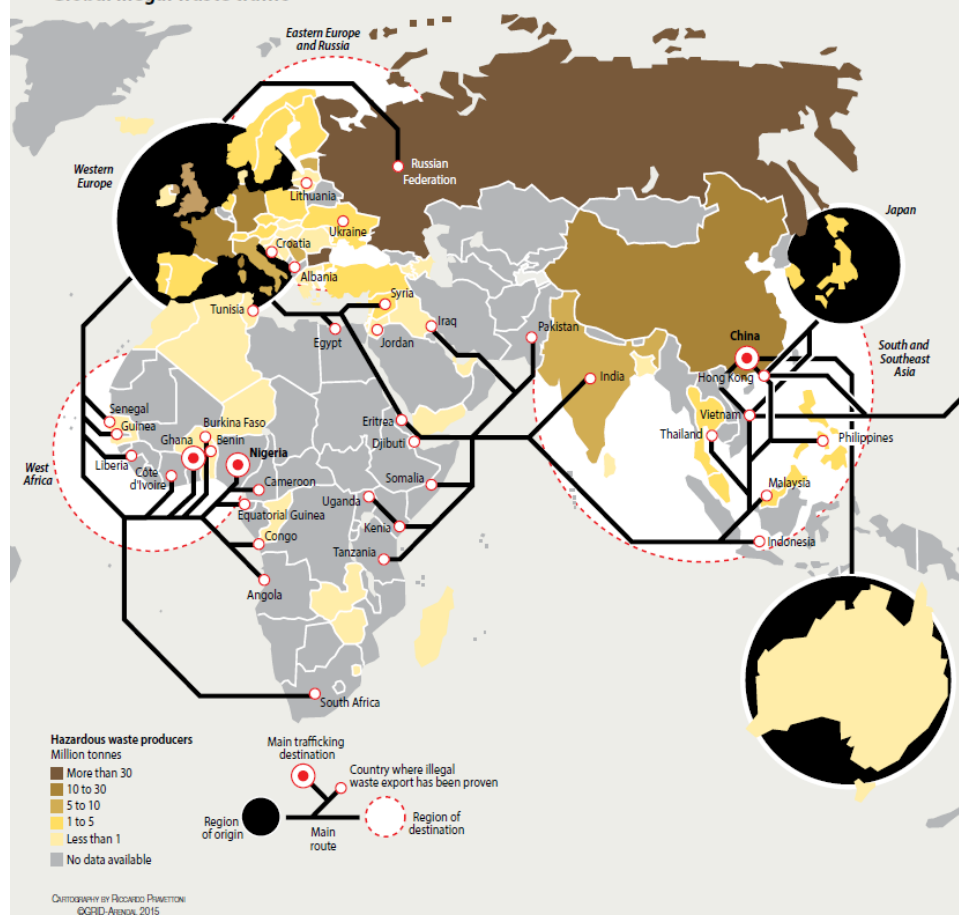
WASTE topics :

1. Waste treatment **BAT Conclusions** and BREF 2018 on waste treatment:
2. **BAT Conclusions of Waste incineration:**
3. **Odours** in waste management facilities.
4. **End of Waste and by-products**
5. Recovery of **problematic waste**: (e.g. rare earth from WEEE, lithium batteries, photovoltaic and solar panels).
6. **Industrial symbiosis** and chain approach
7. **waste management plans** and waste prevention plans
8. Economical tools to boost **circular economy**.

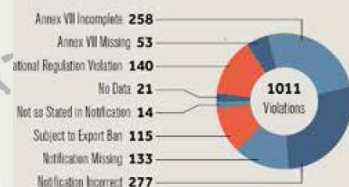
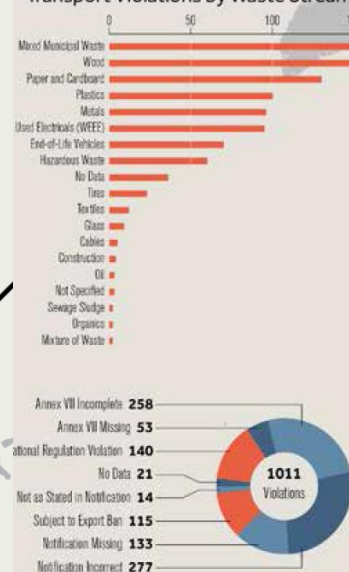
EU waste legislation (some)

- **Waste Framework Directive**, or [Directive 2008/98/EC](#) of the European Parliament and of the Council of 19 November. It provides for a general framework of waste management requirements and sets the basic waste management definitions for the EU.
- [Regulation \(EC\) No 1013/2006 of the European Parliament and of the Council](#) of 14 June 2006 on **shipments of waste**. This Regulation specifies under which conditions waste can be shipped between countries.
- [Decision 2000/532/E](#) establishing a **list of wastes**. This Decision establishes the classification system for wastes.
- **DIRECTIVE 2012/19/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL** of 4 July 2012 on waste electrical and electronic equipment (**WEEE**)
- **COMMISSION REGULATION (EU) No 1342/2014** of 17 December 2014 amending Regulation (EC) No 850/2004 of the European Parliament and of the Council on persistent organic pollutants as regards Annexes IV and V (**POP**)

Global illegal waste traffic

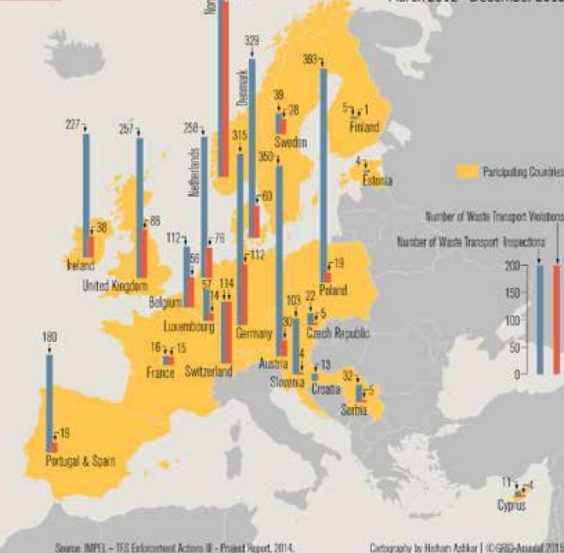


Transport Violations by Waste Stream



Types of Transport Violations

IMPEL – TFS Enforcement Actions III Enforcement of the European Waste Shipment Regulation March 2012 – December 2013



Waste crime is a serious and persistent issue that is widely recognised as a major threat to our ambitions of a circular economy in Europe.



This project is funded by
the European Union



IPA 2009 "Strengthening the capacities for control of transboundary movement of waste"

Waste Catalogue

Guidelines on how to apply Annexes III – V of the Waste Shipment Regulation (EC) No 1013/2006 on shipments of waste



Zagreb, September 2013



XUNTA DE GALICIA

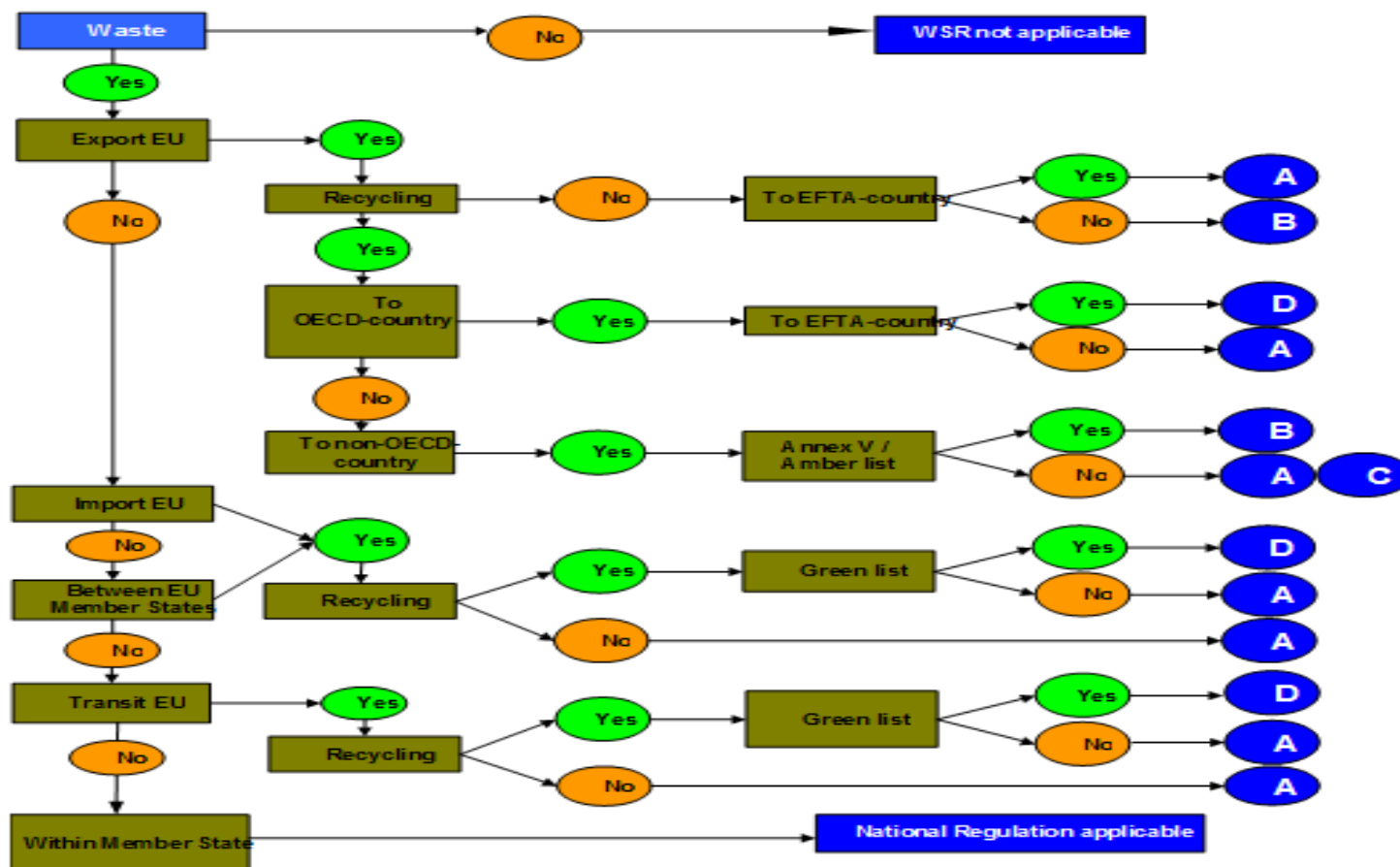
CONSELLERÍA DE MEDIO AMBIENTE,
TERRITORIO E VIVENDA

Environmental Inspection

ENGLISH	DUTCH	GERMAN	FRENCH	SPANISH
Waste	Afval	Der Abfall	Les déchets	Residuos
Ashes	As	Die Asche	Les cendres	Ceniza
Filtercake	Filterresten	Filterskuchen	Les restes des filters	Restos de filtros
Used	Gebruikte	Gebrauchte	Servi/usé/consumé	Usado
Old	Oude	Alt	Vieux/vieille	Viejo/vieja
Paste	Pasta	Paste	La pâte	Pasta
Powder	Poeder	Pulver	La poudre	Polvo
Rubbish/debris/ruins/ rubble	Puin	Schutt	Les décom bres/les gravats	Es combros
Residues	Residuen	Rückstand	Les résidues	Residuos
Rest off	Restanten	Reste	Les restants	Restos
Scrap	Schroot	Schrott/das Alteisen	Les rognures de metal/la ferraille/ les déchets/les rebion	Chatarra
Slag	Slakken	Schlacke	Le laitier/la scories/le machefier	Es coria
Sludge/slurry	Slib/slobs	Schlamm	La vase/la boue/les alluvions	Fango/lodo/barro/limo/cie
Dust	Stof	Staub	Le poussier	Polvo
Polluted/Soiled	Veront reinigd	Verunreinigt	Pollue/Sali/contaminé/souille/ impureté	Contaminado
Polluted/filthy/dirty	Vervuilde	Schmutzig	Encrasse/croupi/pollue/ souille	Ensuciado/contaminado
Rejects	Afgekeurde materialen	Ausgemusterte Ware	Matériaux désapprouvés/refusés	Materiales desaprobados
Faulty materials	Defecte materialen	Schadhafte Ware	Matériaux détraqués	Materiales defectuosos
Spent off	Uitgeputte materialen	Verbrauchte/ abgewirtschaftete Ware	Matériaux épuisés	Materiales desgastados
Sweepings	Veegsel	Kehricht	Balayures	Barreduras
Flakes	Vlokken/schiffers	Flocken	Flacons/écaillage	Copos/pedacitos/trochos
Chips	Chips	Späne	Puces	Chips

Flow scheme waste shipments according to WSR 1013/2006

The flow scheme is aimed to assist inspectors to find the appropriate procedure for the relevant waste shipment.



Smarter Regulation of Waste in Europe LIFE SMART Waste Project

Three common **barriers to joint working** were noted:

- i. Data exchange and sharing of intelligence;
- ii. Lack of understanding of partner organisations
- iii. Organisational priorities and their fluidity

illegal practises are ever-changing and are not easily visible



3 - Horizon Scanning Toolkit '9-step model'



Figure 2 - LIFE SMART Waste Competitive Behaviours Toolkit (draft)

Competitive Intelligence commonly used by businesses to identify and analyse actionable information about competitors and the marketplace, in turn informing strategic decision-making.

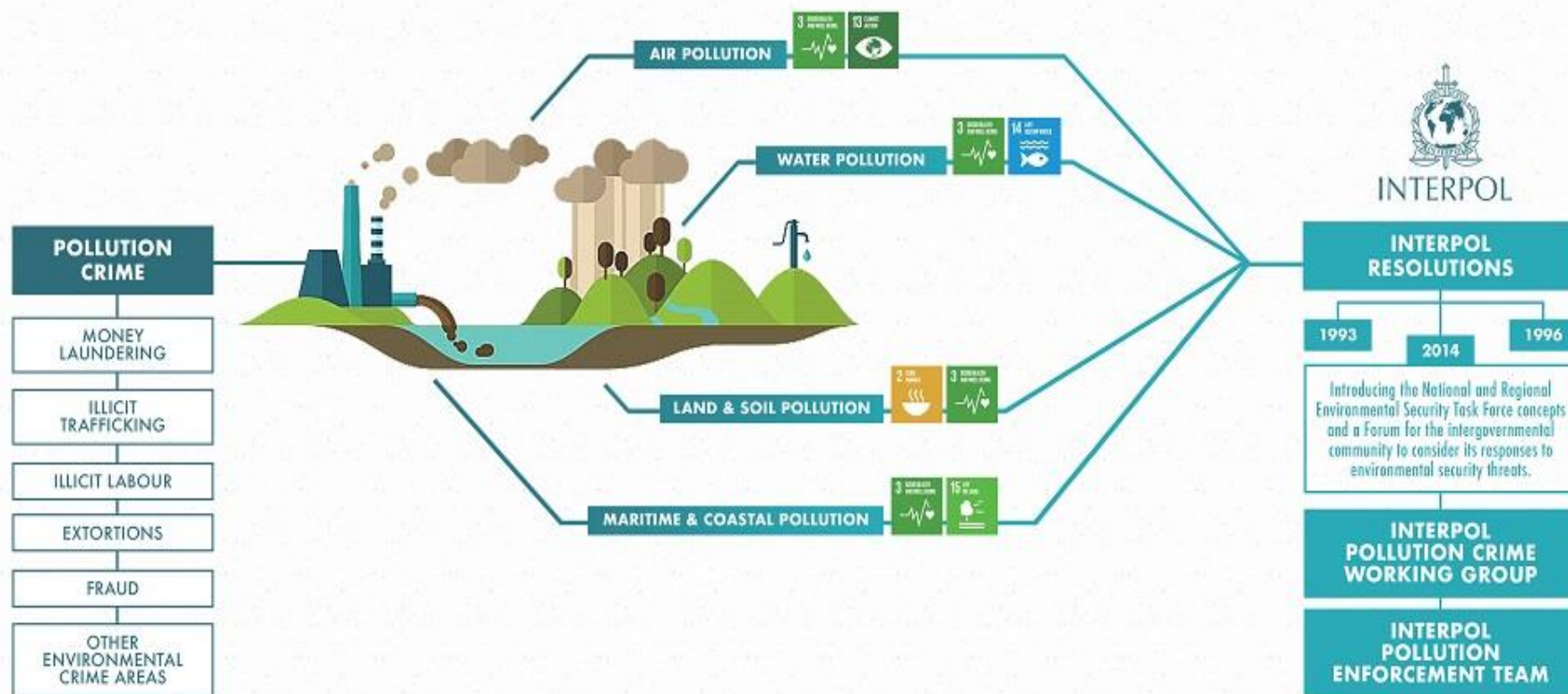
Remote Sensing system for detecting waste

INTERPOL Pollution Enforcement team

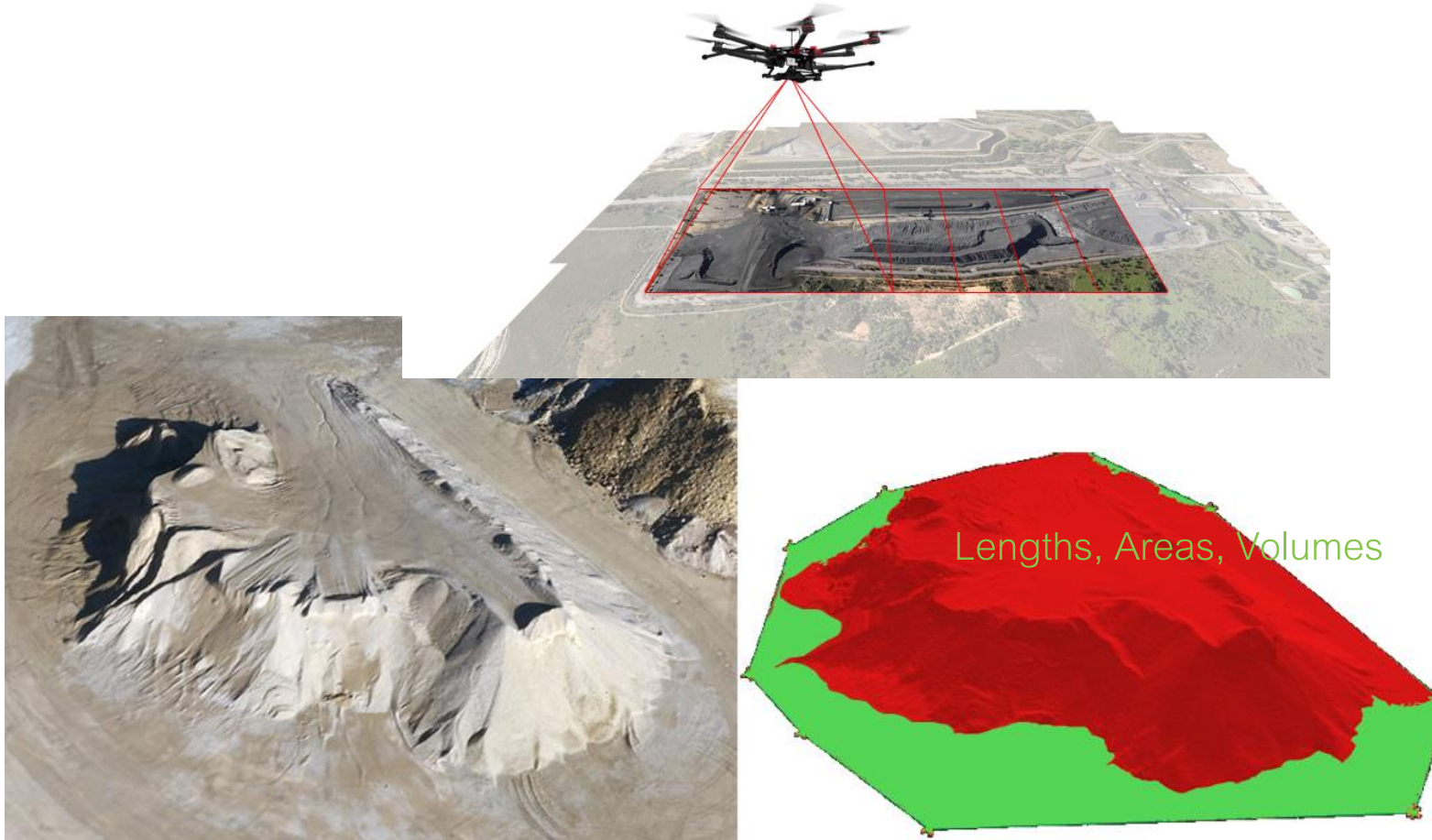
THE CRIMES

THE CONSEQUENCES

INTERPOL RESPONSE



Aerial photogrammetry with UAVs

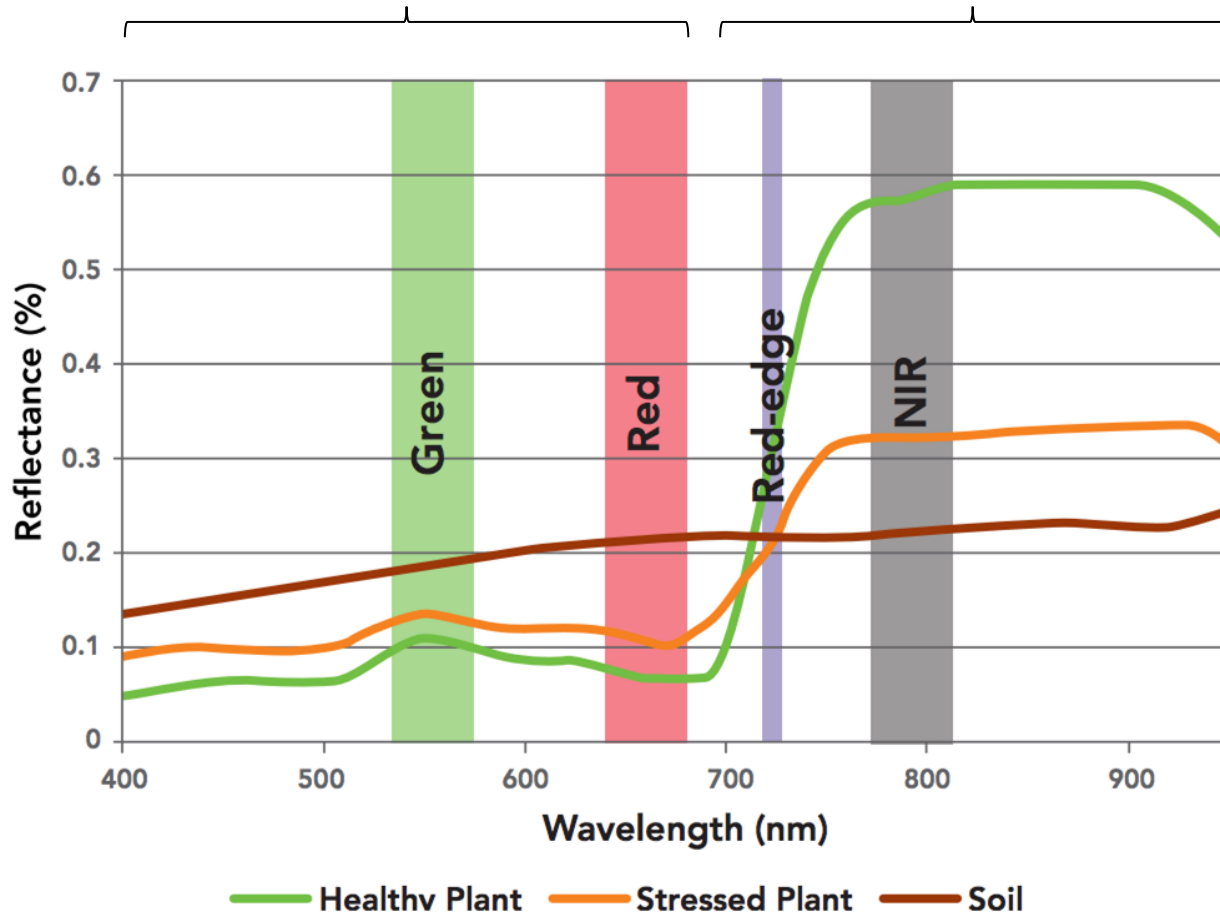


Based on Landsat TM, ETM satellite remote sensing data can help to rapidly assess the dimension of mining waste risk and therefore better manage such a geohazard as well as for remediation programs

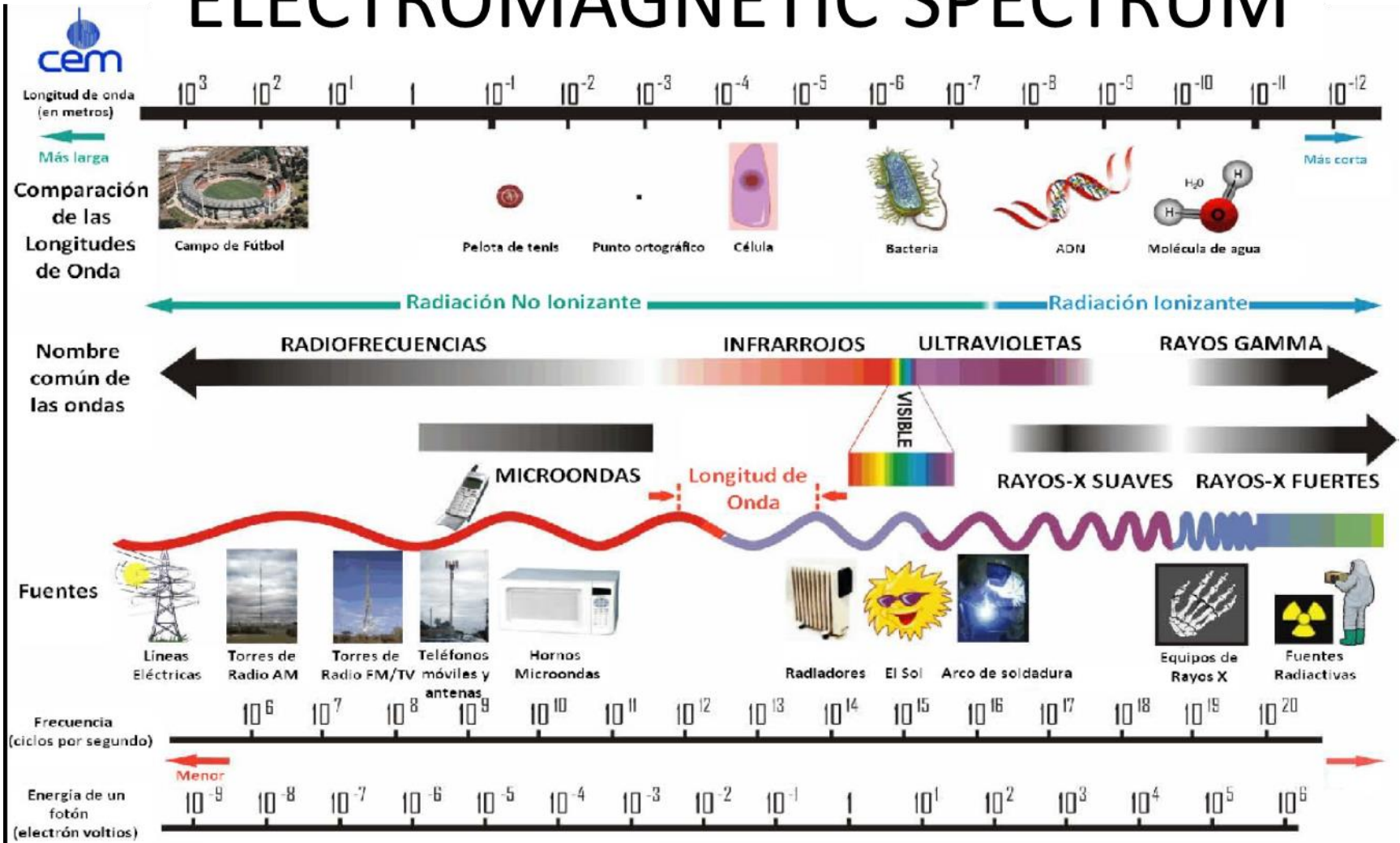
Teledetección

Visible range: small differences

Beyond visible range: big differences



ELECTROMAGNETIC SPECTRUM



Drons, Satellites and new technologies to come

Dron or UAV (Unmanned Aerial Vehicles), also RPAS (Remotely Piloted Aircraft System)

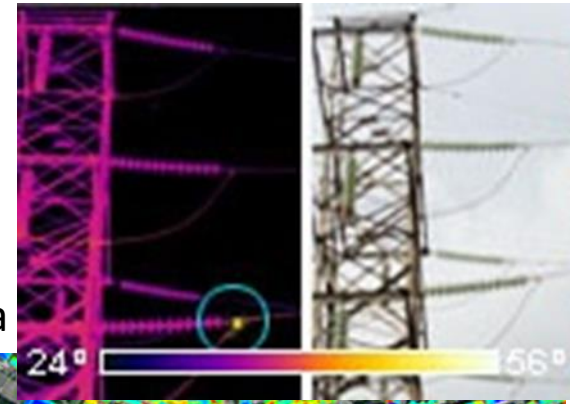
NAV -
Nano Air
Vehicles



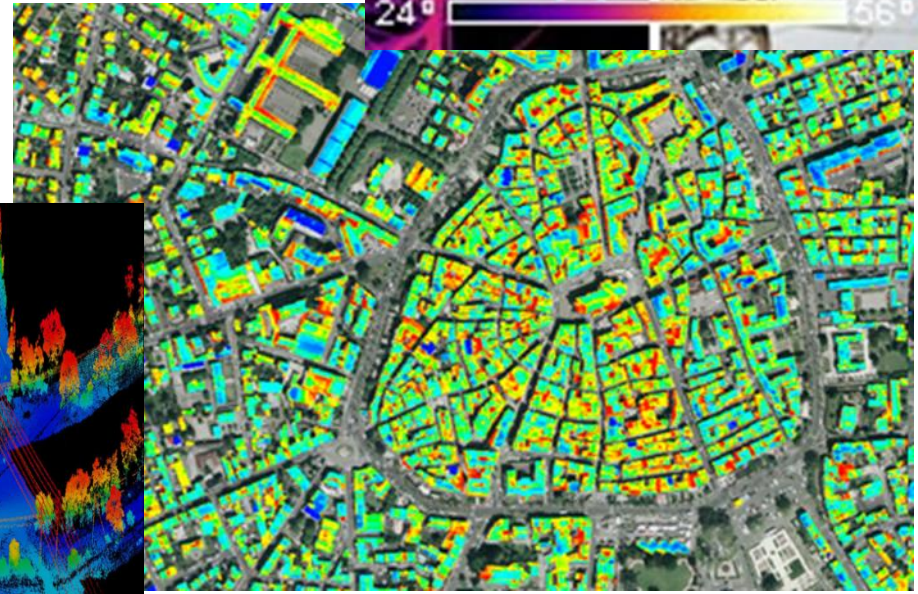
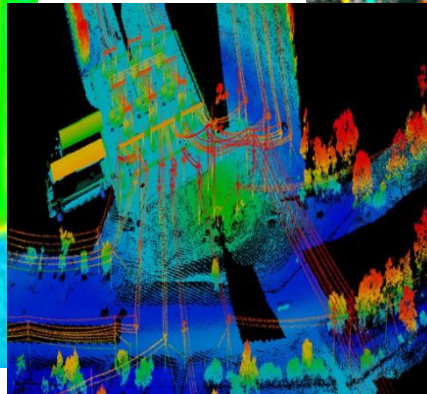
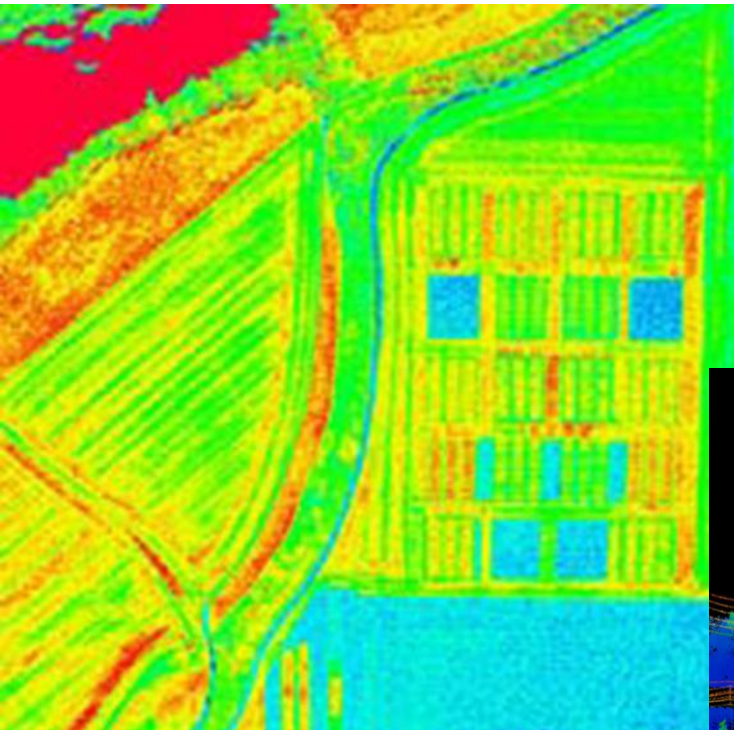
night
camera



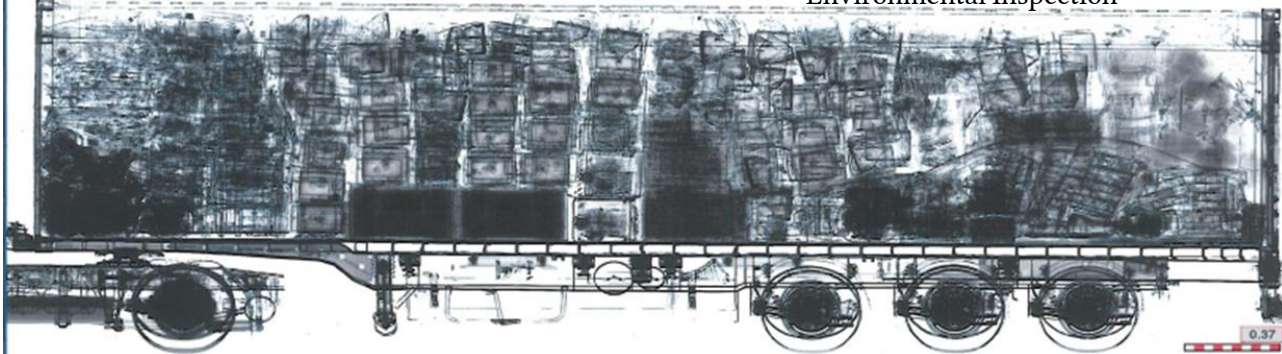
Thermic camera



Lidar
camera



**Rotterdam:
Container
SEAU8662943**



Manfred Reithmayer
Schiffmühlenstrasse 61
1220 Wien

MOBIL +43 699 11 700 253
Email : office@mr-elektrogrosshandel.at

FA RAYAN SALISU
House No B202/21
Darkuman Road
Darkuman /Accra
Ghana
Tel +233/244282097

Commercial -Invoice

UID Number :	ATU 16503308
GLN Number :	9008390504710
EORI-Number	ATEOS1000001254
Invoice - Number:	AR14416
Kassenbeleg Nr:	1116
Date of Invoice :	21.10.2016
Delivery :	21.10.2016

SPECIFICATION	BEZEICHNUNG	PICES STK	PRICE per unit € EINZELPREIS in €	TOTAL EURO
CRT TV small			3,00	0,00
CRT TV 50cm +			5,00	0,00
TFT Monitor 15 inch			2,30	0,00
TFT Monitor 17 inch			3,50	0,00
TFT Monitor 19 inch +			6,00	0,00
LCD TV until 25 cm diagon		8	10,00	80,00
LCD TV until 60 cm diagon		14	15,00	210,00
LCD TV 60cm + diagon		12	25,00	300,00
LCD Rep			8,00	0,00
LCD TV Spare Part			3,00	0,00
used Lap Top			15,00	0,00
used PC				
Pieces TOTAL		34		
The customer notes that all goods mentioned are used and sold without any guarantee. The customer ensures a reselling of all goods trust-less inside			ZWS	590,00
			TOTAL	590,00

INCOTERMS 2000 : ex works Vienna
Final Dest.
All prices are quoted in Euro
Shipment arranged by the customer.
Netto weight :
Payment : cash by delivery
Time of delivery : .21.10.2016

MR Elektrogrosshandel
Manfred Reithmayer
Schiffmühlenstr. 61/20
1220 Wien
Tel. +43 699 11700 253

VAT – free export

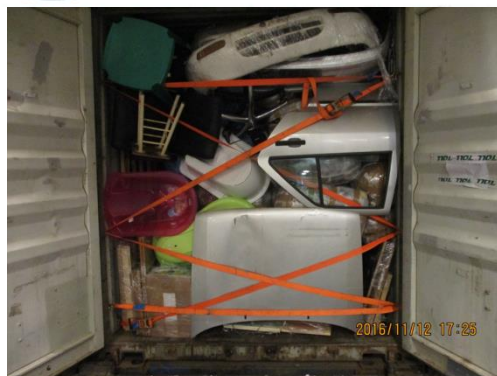
The appliances are exclusively determined

For re-utilization.

Reithmayer Manfred

BANKVERBINDUNG : RAIFFEISENBANK KORNEUBURG
BLZ 32395 KONTO NR 122.085
IBAN AT913239500000122085 BIC/SWIFT RLNWATWWKOR

STÜCK	Prüf Dat	Prüf Nr	Pal	TV SERIENNUMMER	GERÄTE NAME
1	21.Okt	TV16417	682	LE11073005614	Medion
2	21.Okt	TV16418	682	805195.75282	AEG
3	21.Okt	TV16419	682	10627812012525	Grundig
4	21.Okt	TV16420	682	2PFL3403D/10	Phillips
5	21.Okt	TV16421	682	2465AZA001916	NOC
6	21.Okt	TV16422	682	8437576	Grand prix
7	21.Okt	TV16423	682	9301046	Sony
8	21.Okt	TV16424	682	21523	Xelos
9	21.Okt	TV16425	682	Keine Nummer	Sony
10	21.Okt	TV16426	682	PC295PB04G00570	Qucom
11	21.Okt	TV16427	682	Keine Nummer	apple
12	21.Okt	TV16428	682	Keine Nummer	Phillips
13	21.Okt	TV16429	682	VN1C0741042783	Phillips
14	21.Okt	TV16430	682	nk3510473	Panasonic
15	21.Okt	TV16431	682	E4488KA002196	NOC
16	21.Okt	TV16432	682	Keine Nummer	Hantarex
17	21.Okt	TV16433	682	4302306	Sony
18	21.Okt	TV16434	682	Z9GN3SJC803854L	Samsung
19	21.Okt	TV16435	682	Keine Nummer	Sony
20	21.Okt	TV16436	682	%NH-6261319	Panasonic
21	21.Okt	TV16437	682	42PF5320/10	Phillips
22	21.Okt	TV16438	682	JEFA-9541170	Panasonic
23	21.Okt	TV16439	682	AE32 U0219 00009	Sky
24	21.Okt	TV16440	682	05312502022783	Focus

[illegible]

Video on of application of sewage sludge from
waste water treatment plant. Sobrado Monxes 2019



5'



30"



20190622 15LodosSobrado.mp4
30"

waste “manager” in Betanzos

2'50"



Video Agustín Vázquez Carro V1.mp4



Fandicosta Fire 201 2'



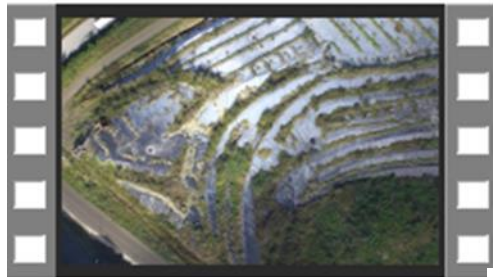
Video almacenamiento plasticos.mp4

1'25"



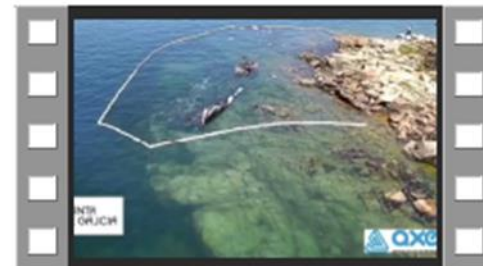
Comprobación extinción incendio Lindoso.MTS

BIG FOREST FIRES
Lindoso. Portugal 2018 9'



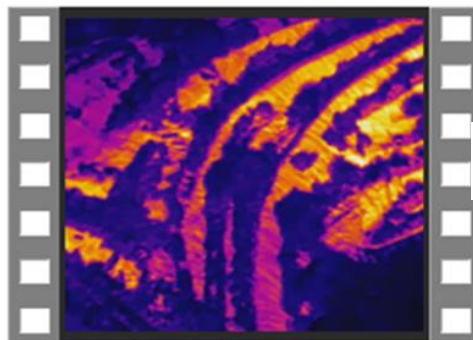
Video acopio historico 03-10-2019.mp4

12"



1'40"

CATAMARAN ACCIDENT. O GROVE



Camara termica1.mp4

12"



2'

INSPECTION LANDFILL. SANTIAGO