

REGIÃO AUTÓNOMA DOS AÇORES
Secretaria Regional da Saúde



**SERVIÇO REGIONAL DE PROTEÇÃO
CIVIL E BOMBEIROS DOS AÇORES**



Azores Regional Civil Protection and Fire Services Agency (SRPCBA)



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SERVIÇO REGIONAL DE PROTEÇÃO CIVIL E BOMBEIROS DOS AÇORES

Objetives:

- Azores –Some peculiarities and curiosities;
- Civil Protection - How does it work ?
- Manegement of emergency! Operational Development Major Incidents?
- Resources in Azores!
- Volcanoes in Azores! Example of Risk Manegement...
- Table top example! Let´s Play!





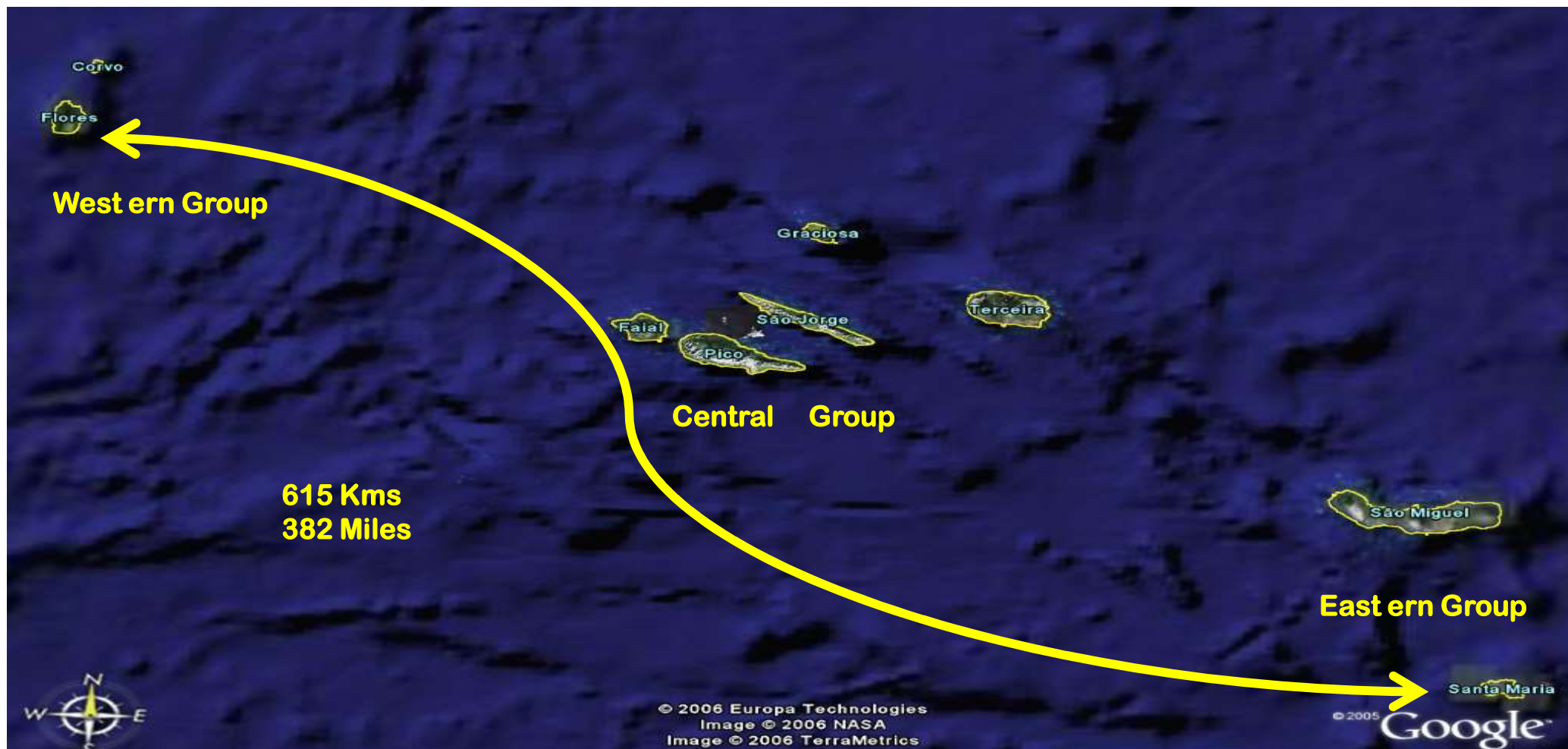
Some peculiarities and curiosities

A PROTEÇÃO CIVIL COMEÇA EM SI!

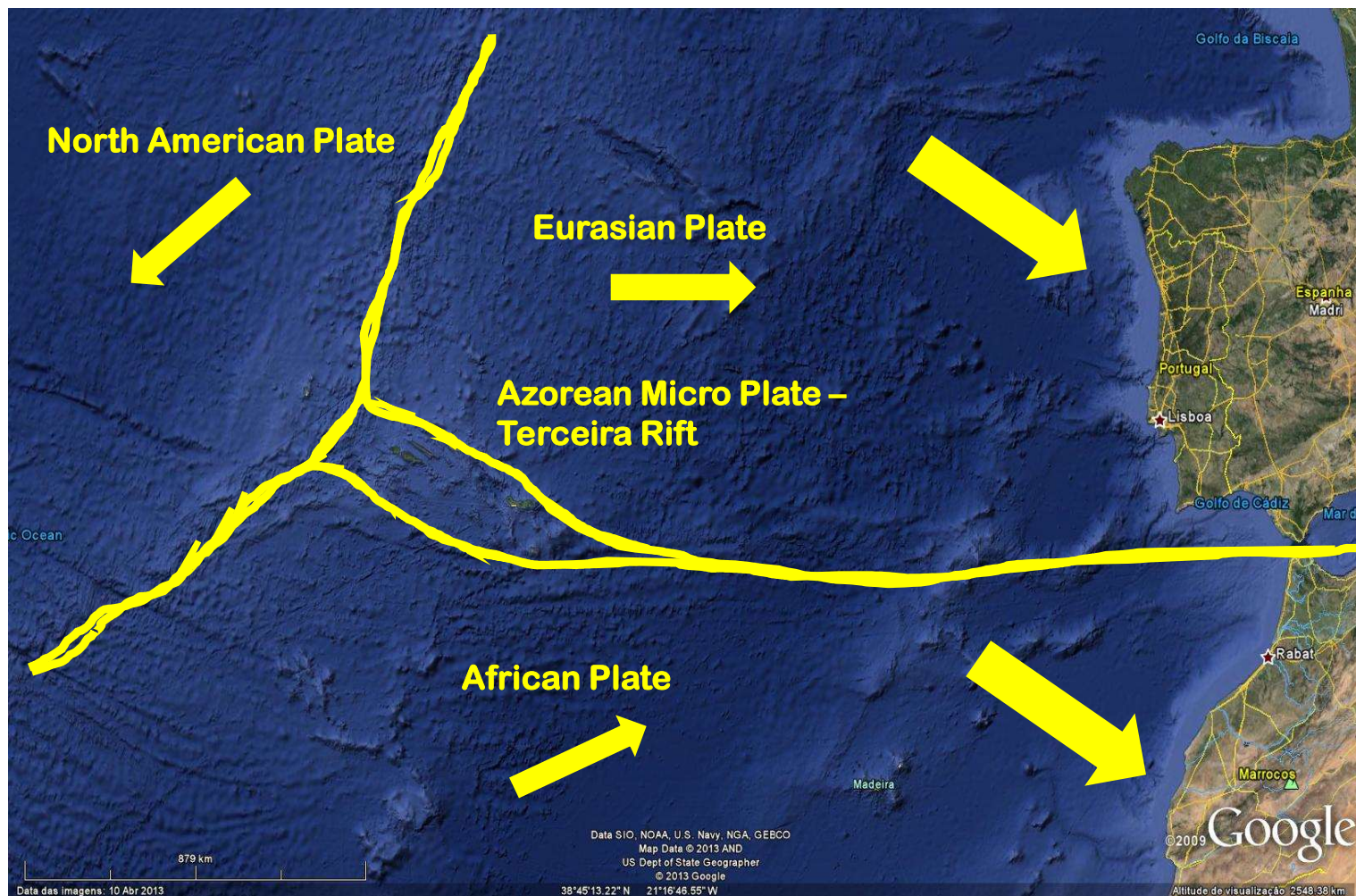
112



Some peculiarities and curiosities



Some peculiarities and curiosities



Some peculiarities and curiosities



AZORES



Paradise on earth

but...

INCIDENTS



We also are rich in....

Landslides

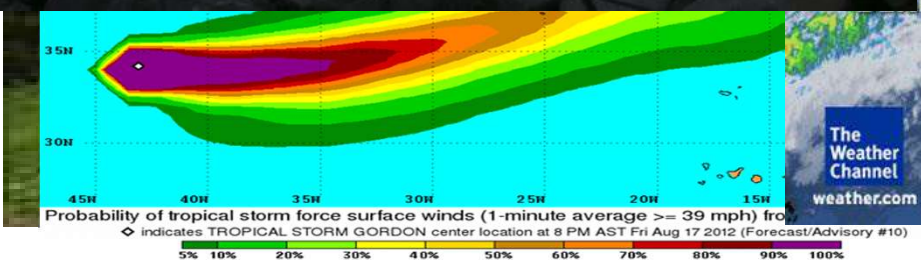
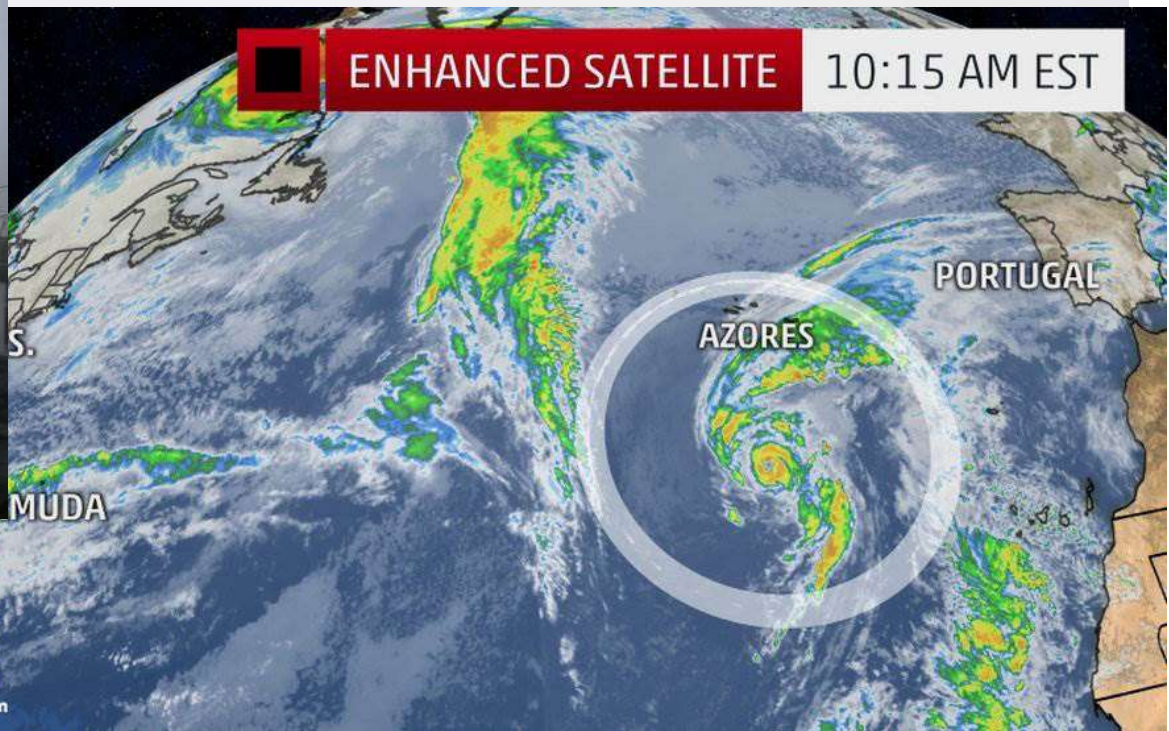




Floods



Strong winds

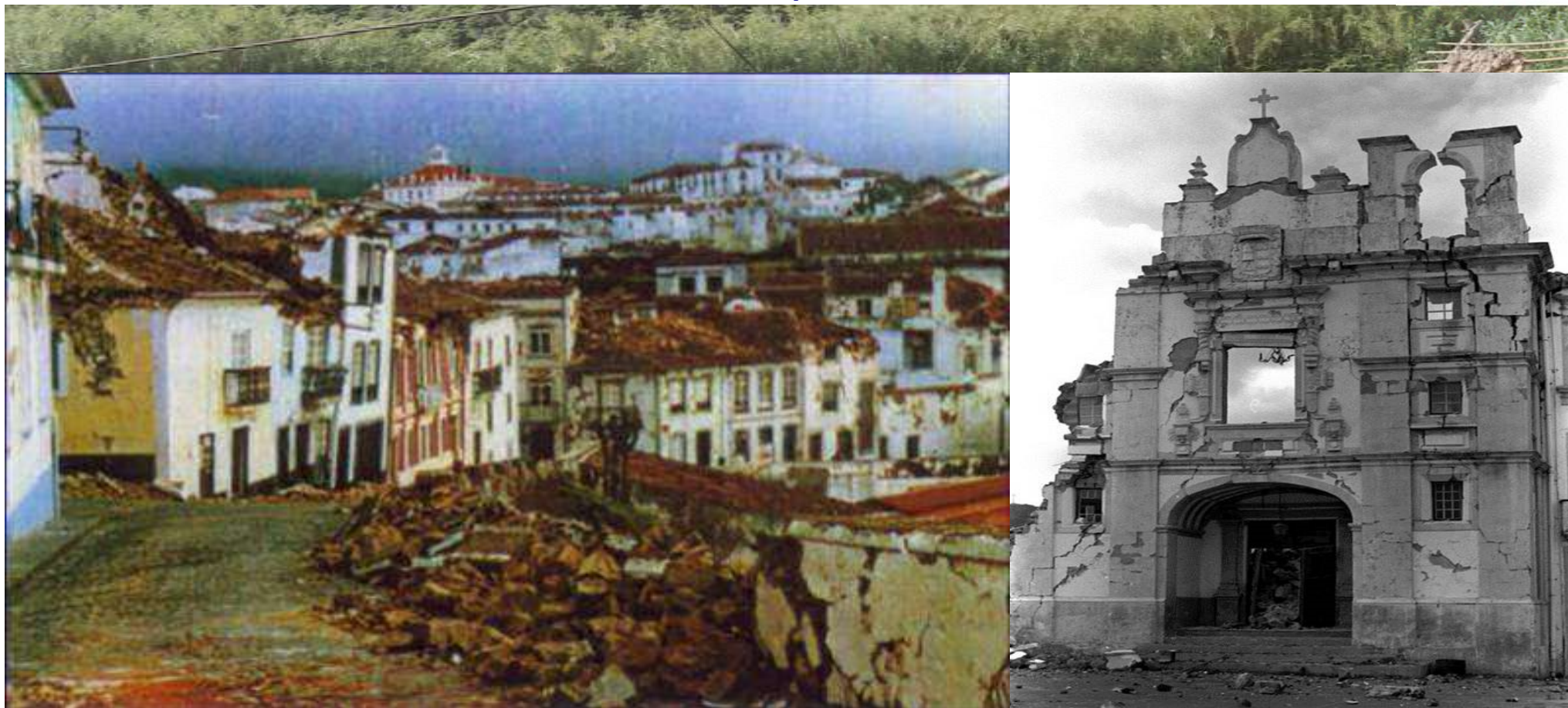


Coastal Gulf





Earthquakes

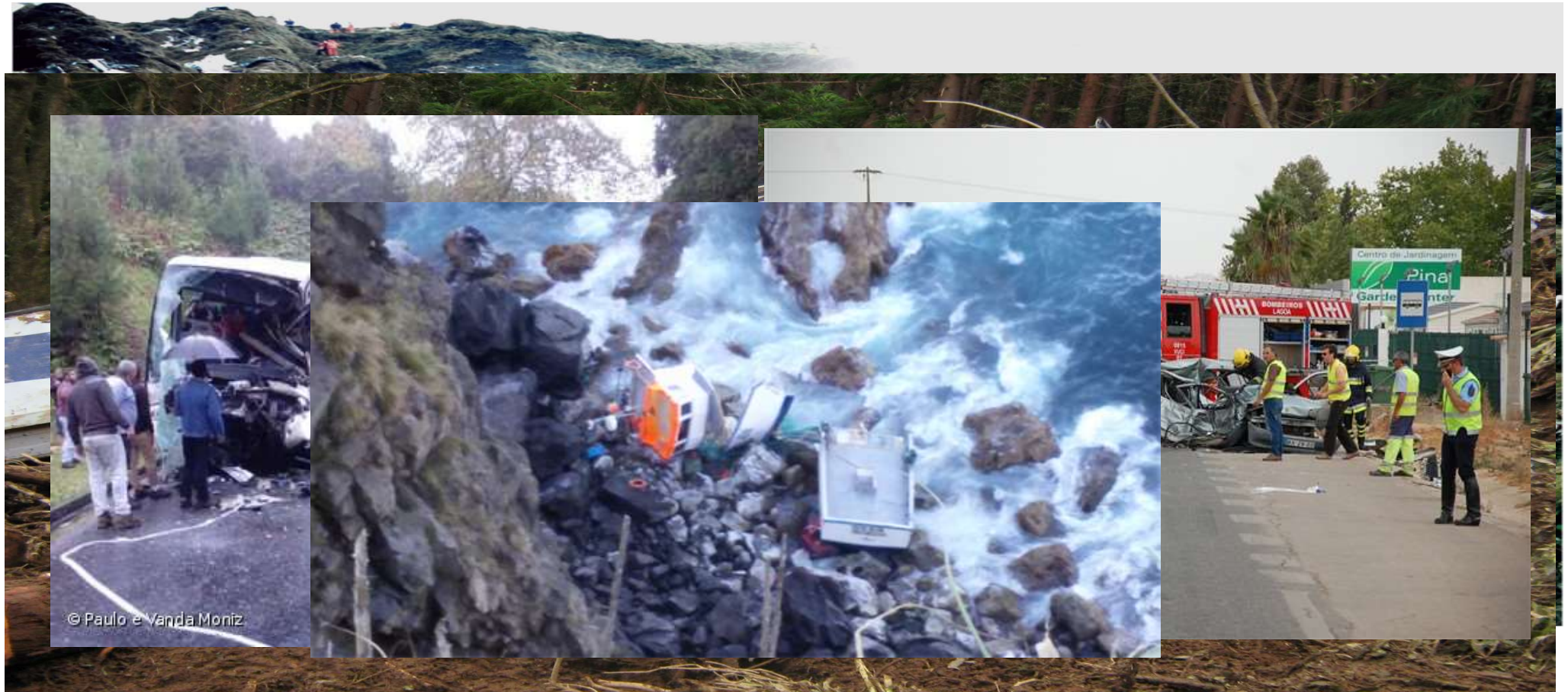




Volcanos



Major incidents



© Paulo e Vanda Moniz



New Incidents by Tourism development activities

Hiking

Canyoning



Portuguese Legal Framework

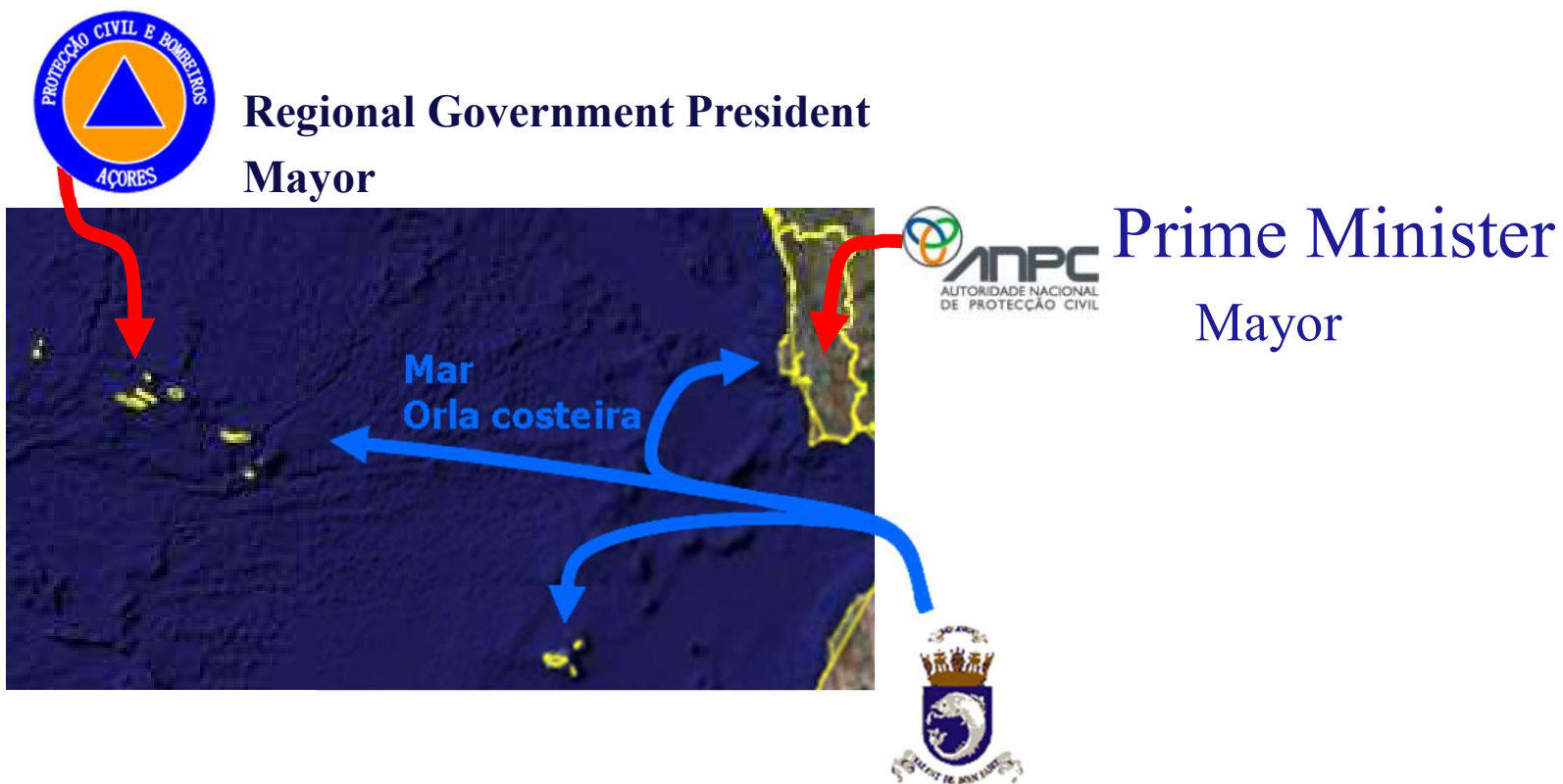
According to the Portuguese law that regulate civil protection, it declares that's an activity developed by the government, the autonomic regions, the county's, the individuals and all entities public or private.

Regarding the purpose of collective risks prevention, concerning major accidents or catastrophe's, attenuating and relieving is effects.

Also, to protect and rescue populations, whenever those situations occur.

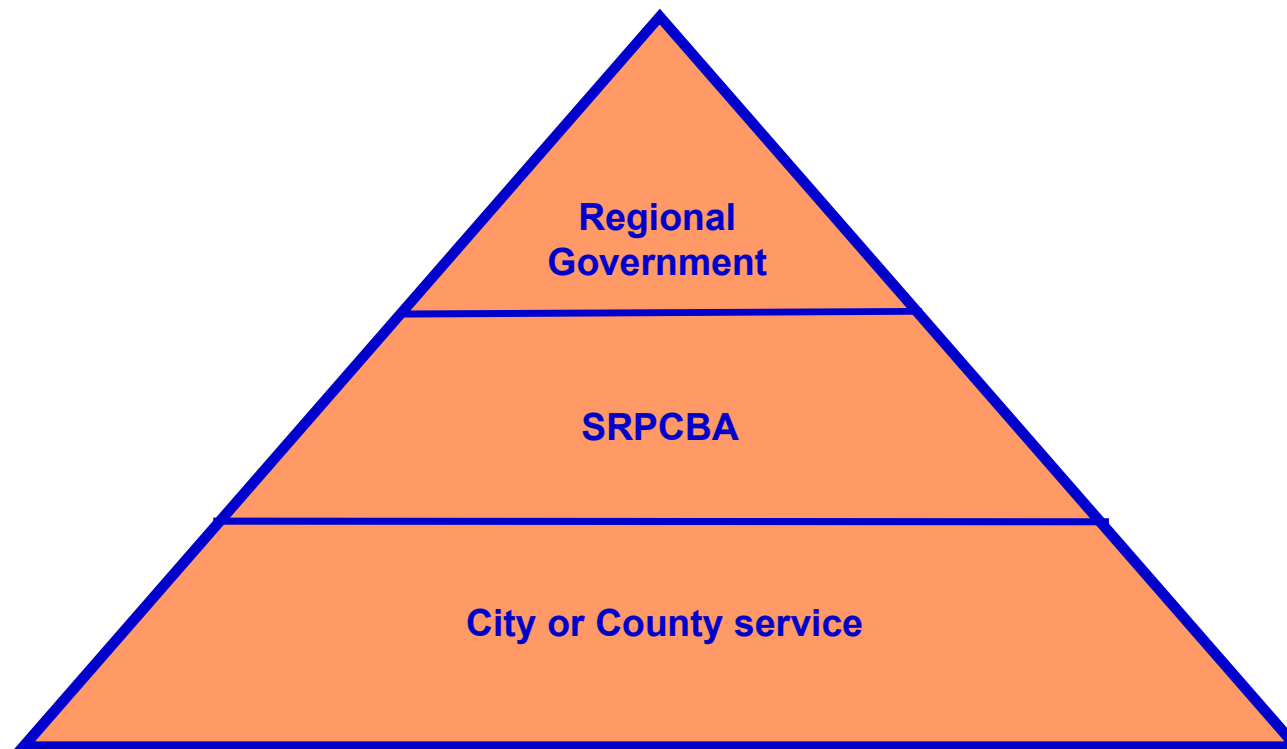
Art.º 1º da Lei n.º 27/2006 de 3 de Julho – Lei de Bases da Protecção Civil

Portuguese Legal Framework





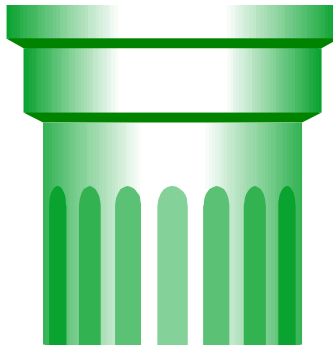
Portuguese Legal Framework



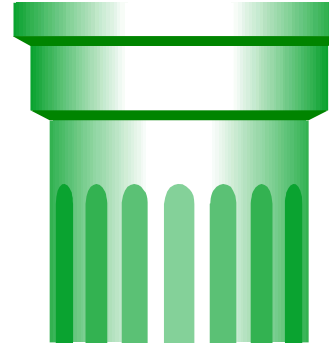


Portuguese Legal Framework

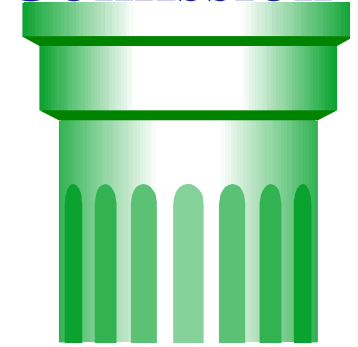
**Civil Protection
Service**



**Emergency
Plans**



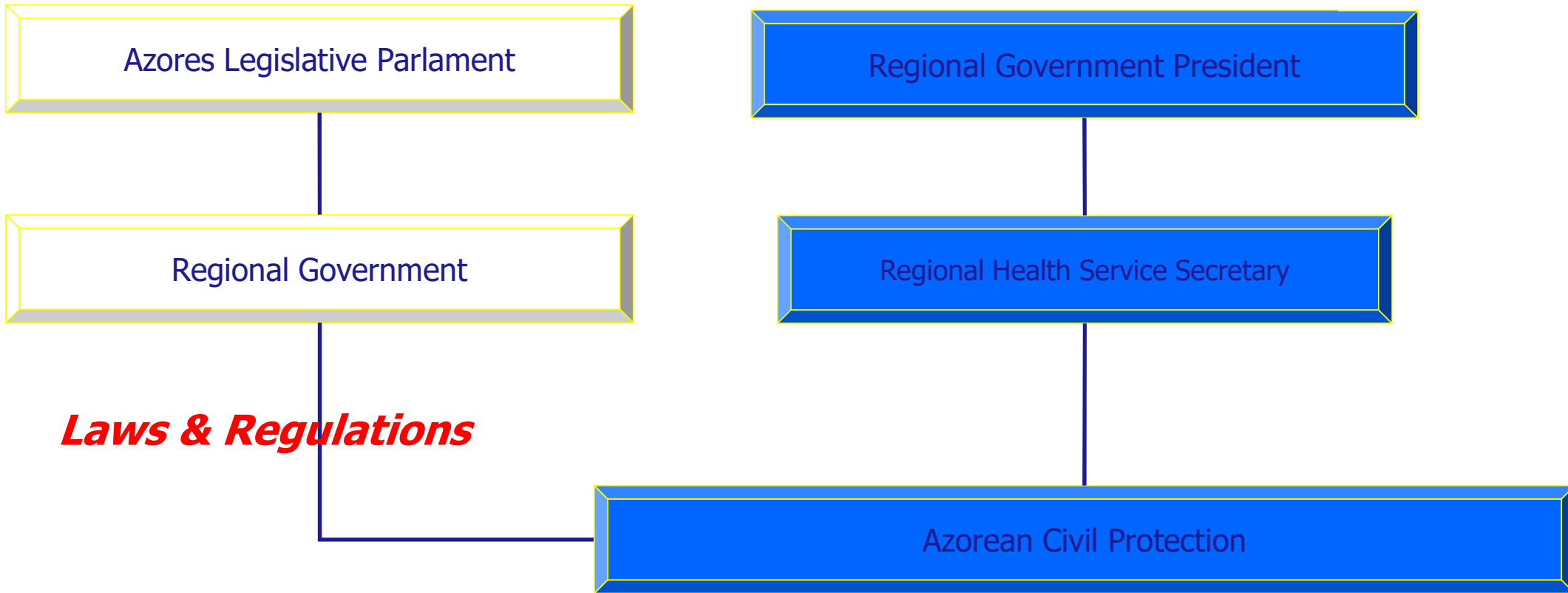
**Civil Protection
Comission**



For each level - National, Regional, City or County.



Azores legal framework



History of Azores Civil Protection

A PROTEÇÃO CIVIL COME



world heritage city 1983



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SERVIÇO REGIONAL DE PROTEÇÃO CIVIL E BOMBEIROS DOS AÇORES



24



History of Azores Civil Protection

A PROTEÇÃO CIVIL COME



In 1987 was published the organic law that regulated both services, the Civil Protection Service and the Azores Firefighting Service, that were united in 1999, becoming the Azores Civil Protection and Firefighting Service.





History of azores civil protection

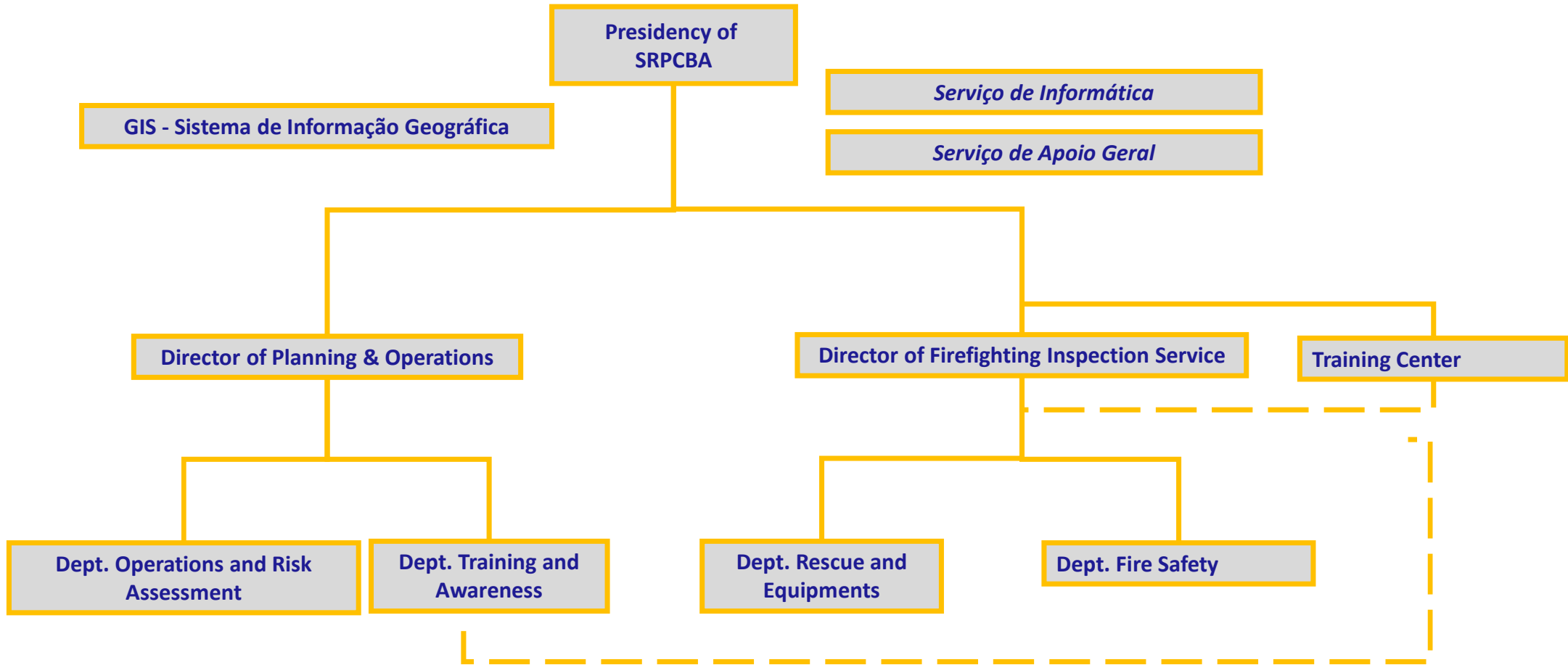
A PROTEÇÃO CIVIL COME



The Azores Civil Protection and Fire Fighting Service, overseeing the Islands, main tasks are:

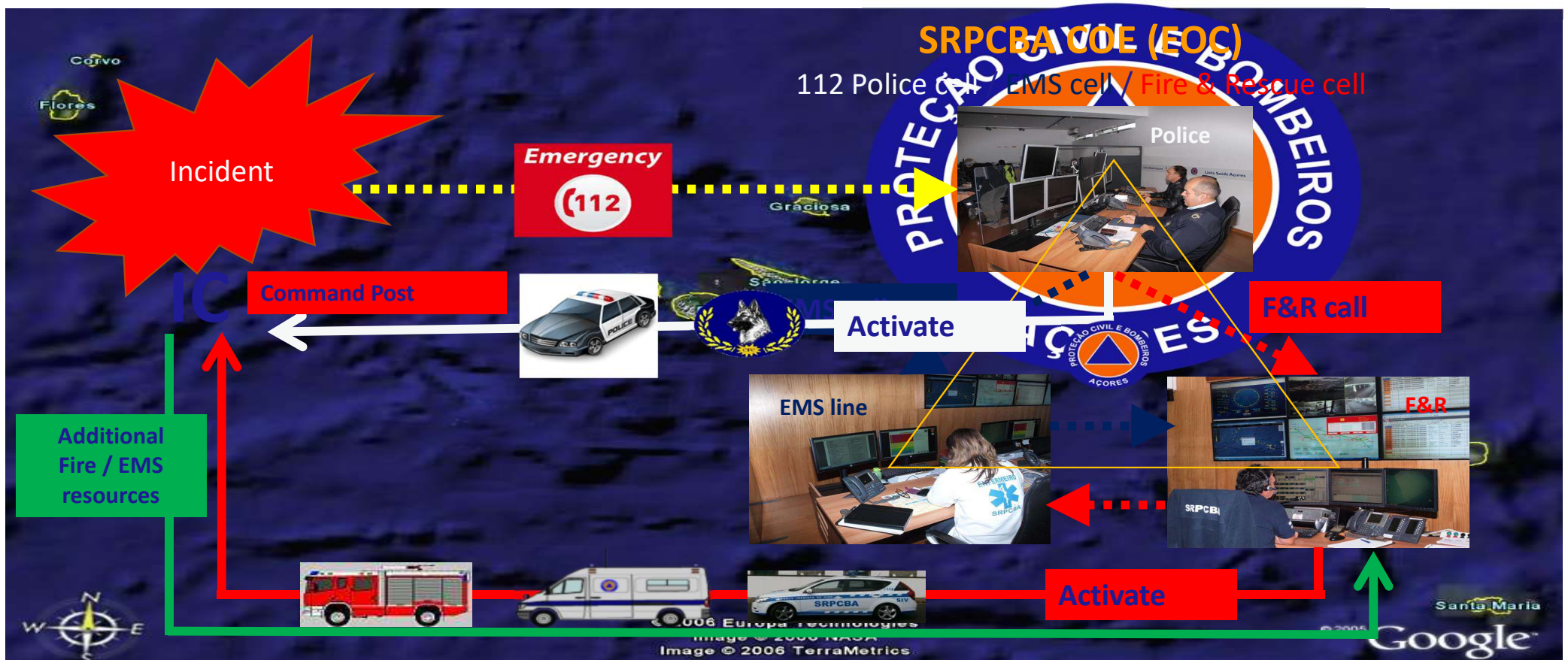
- Awareness of populations;
- Approval of emergency planning;
- Verifying rules of fire safety;
- Training sessions to general population;
- Specialized training to fire fighters;
- Support to local county or city;
- Scientific investigation.

Organic Structure



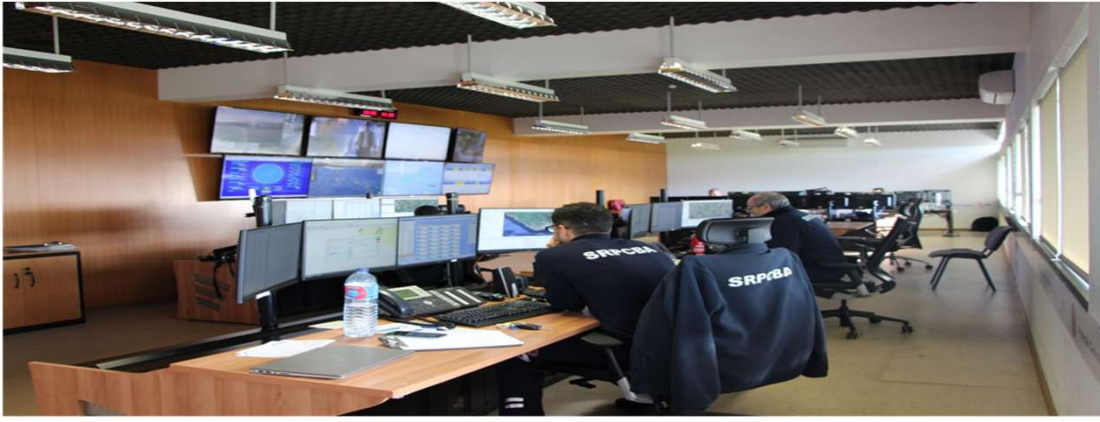
Coordination

A PROTEÇÃO CIVIL COME

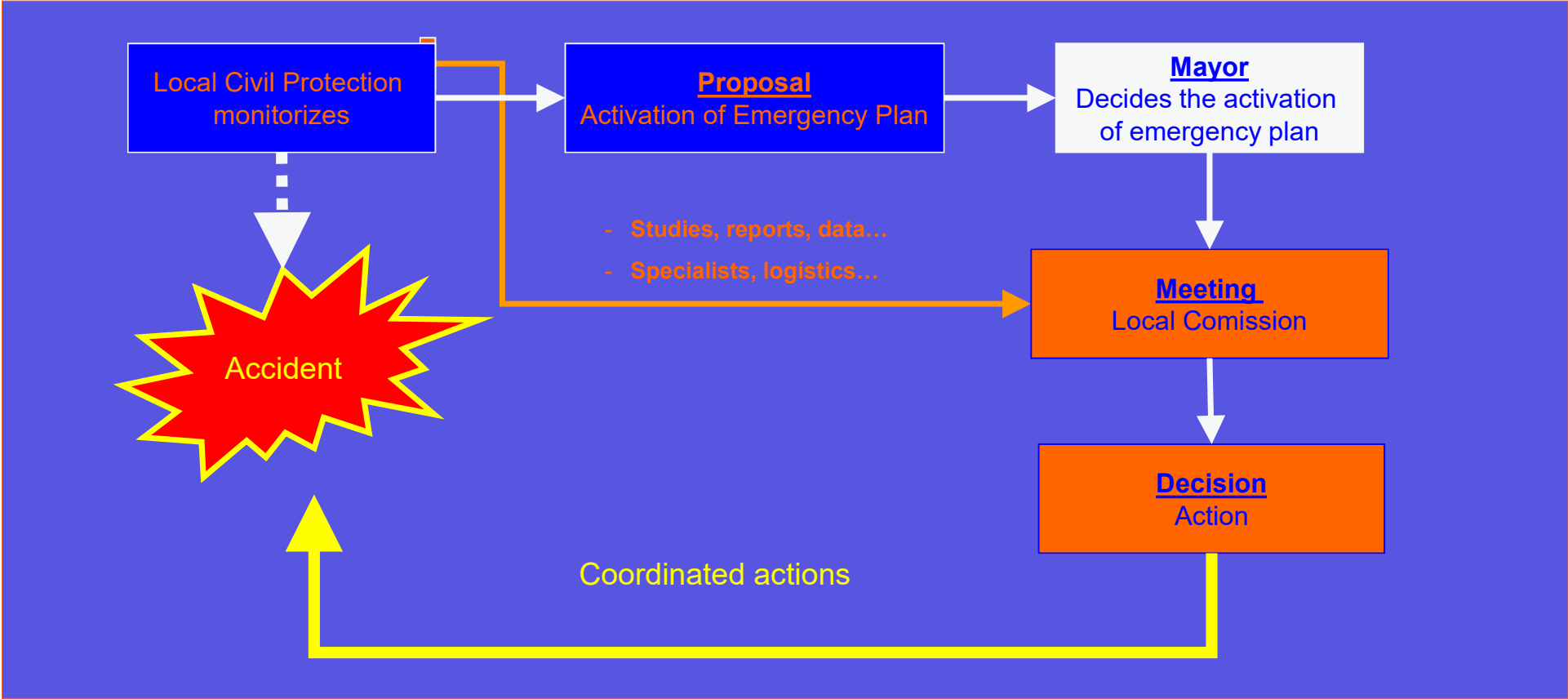




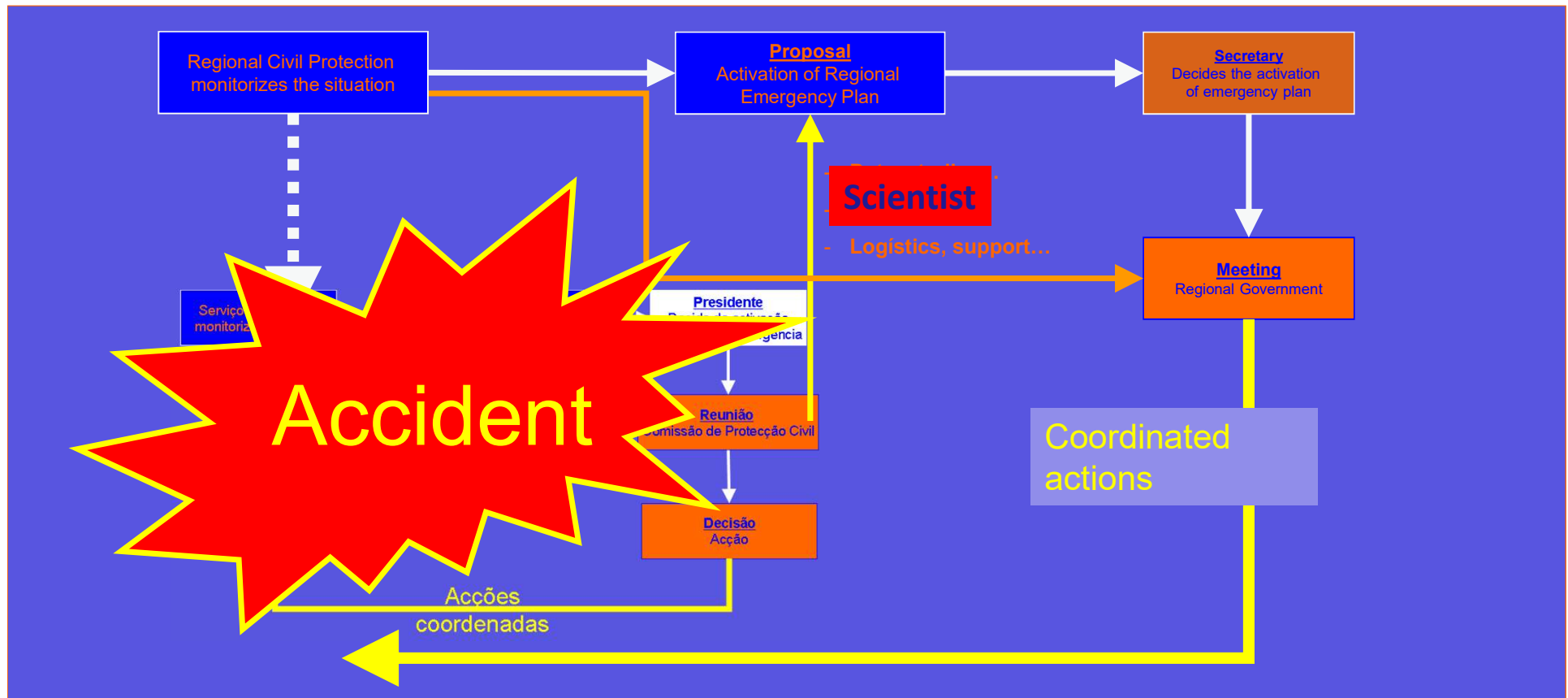
Emergency Response Coordination Center



Operational Development Major Incidents - Mayor



Operational Development Major Incidents - Regional

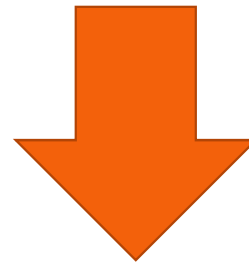


Communication\Information – Early Warning System

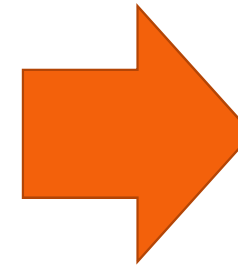
Automatic Message System



Weather forecasts
Seismicity forecasts
Volcanic forecasts
Accidents
Major Accidents
Environment, etc



Advise
Entities



Population

Communication \ Information – Population

The screenshot shows a web browser displaying the PROCIV Azores website. The main content area features the text "PROCIV Azores" and "A sua segurança na palma da mão" (Your safety in the palm of your hand), followed by "Já disponível!" (Already available!). Below this are buttons for downloading the app on Google Play, the App Store, and Windows 10. A hand is shown holding a Samsung smartphone displaying the PROCIV app interface, which includes icons for various services like fire, medical, and police, along with the text "LIGUE 112". The website footer contains several small informational banners, including one for "DAE Açores" and another for "CLUBE PROTEÇÃO CIVIL". The browser's address bar shows "www.prociv.azores.gov.pt".

Fire Services & EMS System In Azores (resources)





Other Resources





A PROTEÇÃO CIVIL COME

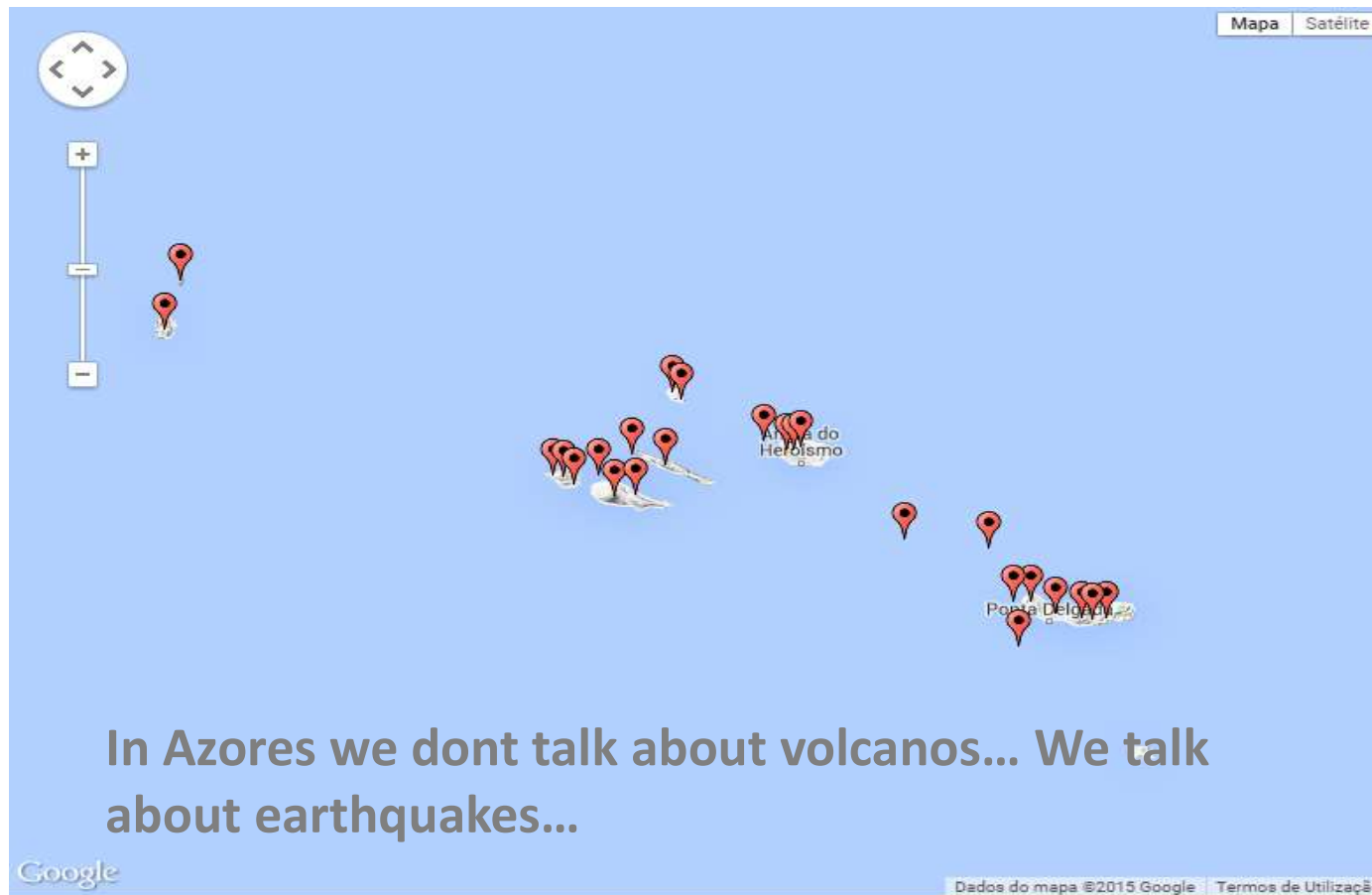


Entities involved



Management of volcanic risk in Azores

Geographic distribution of active volcanoes in Azores



Management of volcanic risk in Azores

Volcano Capelinhos 27 september 1957- 24 october 1958



CELEBRAÇÕES DO 50.º ANIVERSÁRIO DO
VULCÃO DOS CAPELINHOS

Management of volcanic risk in Azores

Volcano Serreta 18 December – March 2000



Missão Ávila Martins

Management of volcanic risk in Azores

Protocol with University of Azores and SRPCBA



To assure seismic and volcanic activity monitoring of the azorian territory and undersea environment.

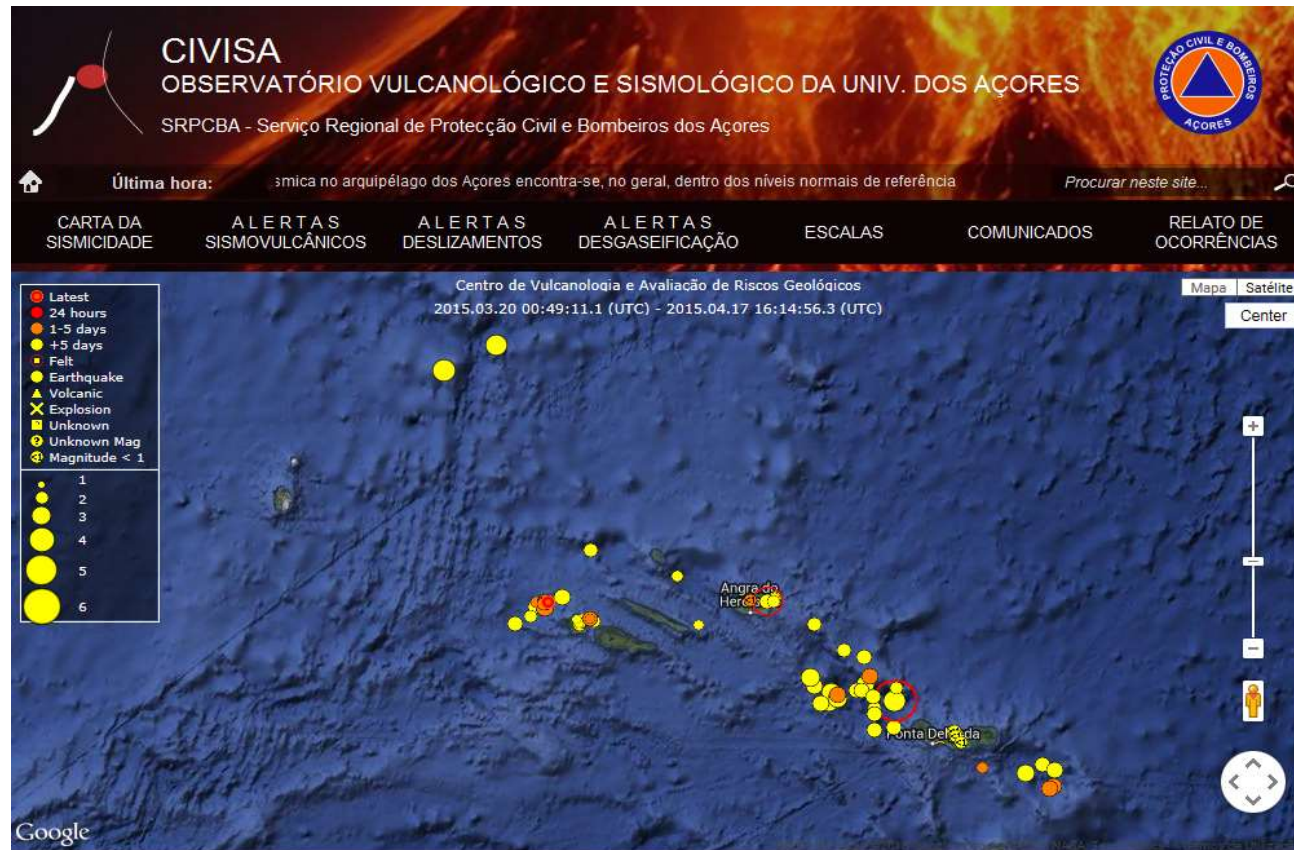
Decision making technical support

Emergency notifications.

Scientific research database

Implementation and development of a warning system based upon specific indicators of a volcanic eruptions.

Management of volcanic risk in Azores Protocol with University of Azores and SRPCBA



Permanent monitoring earthquakes gases and volcanoes

Management of volcanic risk in the Azores

What are the procedures

ALERTA

1 Situação normal

2 Possibilidade de ocorrência ou acidente grave

3 Possibilidade de ocorrência de acidente grave ou catástrofe

4 Ocorrência de catástrofe

5 Especial

COMUNICADO SISMOLÓGICO 01/2015
Data: 4 de janeiro de 2015 Hora:05:59

O Serviço Regional de Proteção Civil e Bombeiros dos Açores (SRPCBA) informa que, segundo o Centro de Informação e Vigilância Sismovulcânica dos Açores (CIVISA), desde as 00:58 horas (hora local = UTC-1) do dia 4 de Janeiro, tem vindo a ser registada atividade sísmica numa região epicentral localizada entre 4 a 5 km a W de Furnas, ilha de S. Miguel. Até ao momento foram registados 6 eventos, todos de baixa magnitude, tendo o mais forte ocorrido às 01:09 horas (hora local = UTC-1), com magnitude 1.3 ML (Richter).

Não há informação de qualquer evento ter sido sentido pela população.

O SRPCBA e o CIVISA continuam a acompanhar o evoluir da situação, emitindo novos comunicados caso necessário

MEDIDAS PREVENTIVAS

O SRPCBA recorda que o eventual impacto destes efeitos pode ser minimizado, sobretudo através da adoção de comportamentos adequados, pelo que, e em particular nas zonas mais vulneráveis, recomenda-se a observação e divulgação das principais medidas de autoproteção para estas situações, nomeadamente:

- Mantenha a CALMA. Conte com a existência de possíveis réplicas;
- Não acenda fofos nem ligueiras e corte imediatamente o gás, a eletricidade e a água;
- Observe se a sua casa sofreu danos graves. Sala imediatamente se achar que a casa não oferece segurança;
- Tenha cuidado com vidros partidos, cabos de eletricidade e objetos metálicos que estejam em contacto com estes;
- Em locais públicos, NÃO se precipite para as saídas e NÃO utilize os elevadores;
- Evite ferimentos protegendo-se com roupa adequada. Vá-se de acordo com a estação do ano;
- Observe se há pequenos incêndios e, se possível, extinga-os. Informe os bombeiros;
- Limpe urgentemente o derrame de tintas, pesticidas e outros materiais perigosos e inflamáveis;
- Afaste-se das praias e zonas ribeirinhas. Depois de um sismo podem ocorrer tsunamis (onda gigante);
- Solte os animais, eles tratam de si próprios;
- Se estiver na rua, não vá para casa. Dirija-se a um local amplo protegendo-se de estruturas que o possam atingir ao cair;
- Não dificulte a circulação das equipas de socorro e siga as indicações dos agentes de proteção civil no terreno;
- Esteja atento às informações e indicações da Proteção Civil e Forças de Segurança.

O SRPCBA e o CIVISA, bem como todas as autoridades e agentes de proteção civil, continuam a acompanhar o evoluir da situação. Novos comunicados serão emitidos, sempre que oportuno.

www.prciv.azores.gov.pt www.facebook.com/SRPCBA www.civisa.gov.azores.gov.pt/civisa

PERIGOS GEOLÓGICOS

Chefe DSE

SRPCBA

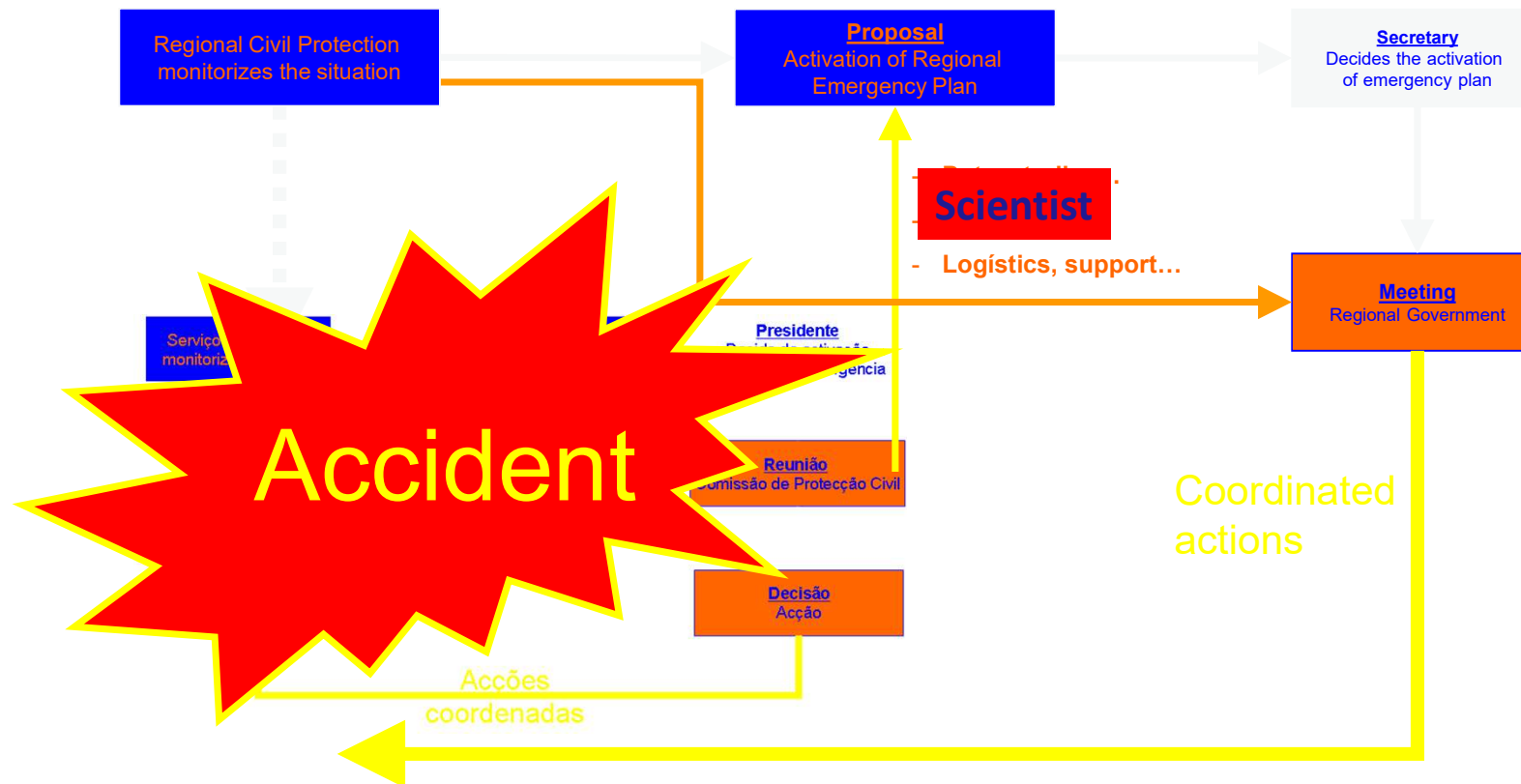
CIVISA (2012)

Study Case – let's put our imagination working



Operational Development

A PROTEÇÃO CIVIL COMEÇA EM SI!



Accident



What we\You need to know?

Time?

Afected areas?

Evacuation?

Cost of the decision?

Protocols?

EEK

Management of volcanic risk in the Azores

What are the procedures when there is a volcanic risk?

Today our decision is based on?



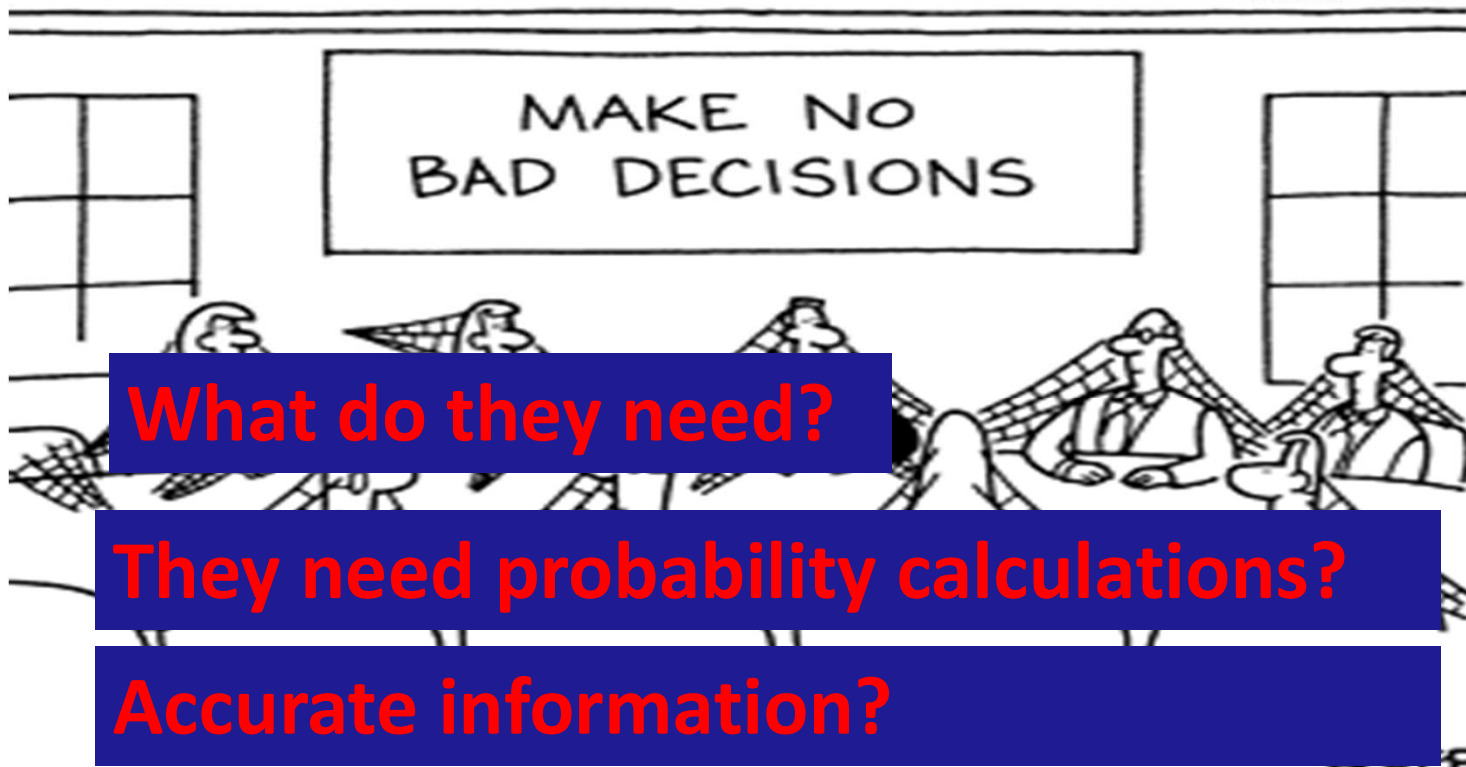
Its better to take a bad decision, than take no decision at all...

Ev

Laws & Regulations

Management of volcanic risk in the Azores

Who decide?





SÃO ROQUE



MADALENA



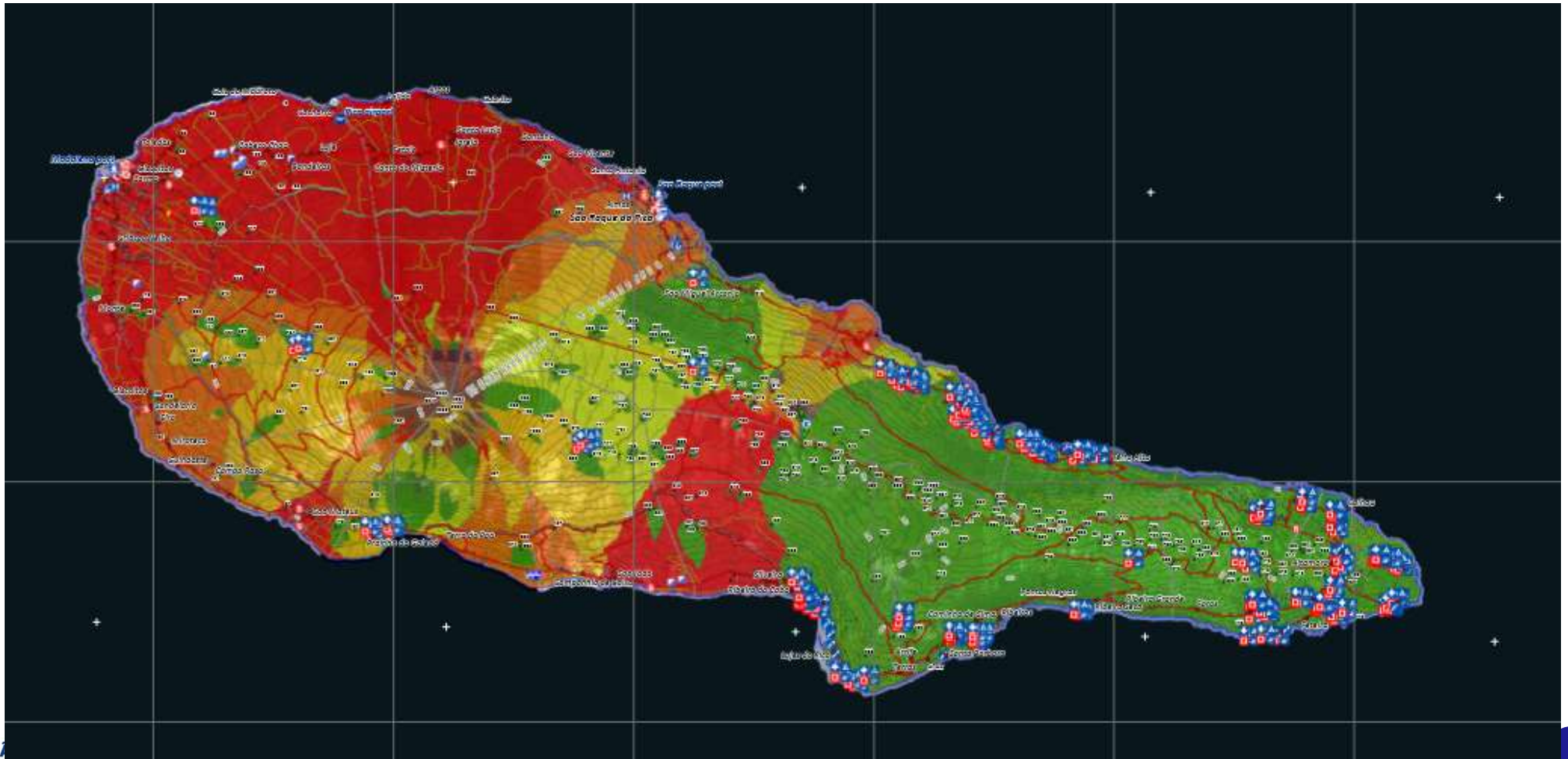
LAJES



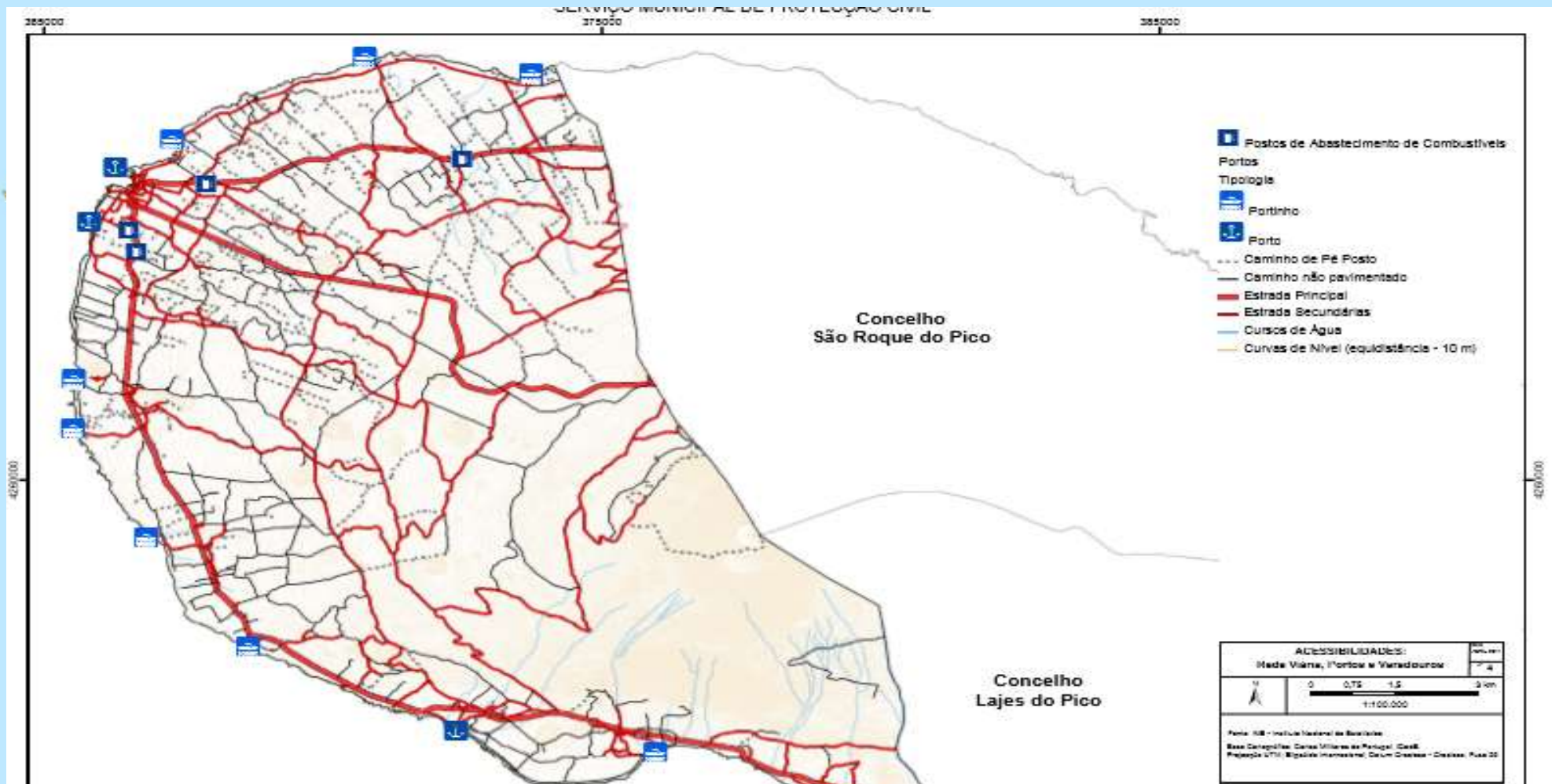
Hazard Maps



Hazard Maps



Primary Structures



Demography

Censos de 2011

CONCELHOS	População Residente			População Presente			Famílias	Edifícios	Alojamentos
	HM	H	M	HM	H	M			
AÇORES	246 772	121 534	125 238	239 795	118 183	121 612	81 715	98 818	80 425
ILHA DE SANTA MARIA	5 552	2 682	2 870	5 286	2 546	2 740	1 998	3 510	1 977
Vila do Porto	5 552	2 682	2 870	5 286	2 546	2 740	1 998	3 510	1 977
ILHA DE SÃO MIGUEL	137 856	67 988	69 868	133 933	65 860	68 073	42 987	47 866	42 297
Lagoa	14 442	7 167	7 275	13 692	6 743	6 949	4 380	4 665	4 142
Nordeste	4 937	2 445	2 492	4 791	2 358	2 433	1 764	2 702	1 750
Ponta Delgada	68 809	33 516	35 293	67 284	32 836	34 448	22 499	22 604	22 142
Povoação	6 327	3 091	3 236	6 113	2 950	3 163	2 106	3 525	2 094
Ribeira Grande	32 112	16 184	15 928	30 893	15 511	15 382	8 991	10 411	8 939
Vila Franca do Campo	11 229	5 585	5 644	11 160	5 462	5 698	3 247	3 959	3 230
ILHA TERCEIRA	56 437	27 697	28 740	55 232	27 220	28 012	19 518	22 311	19 200
Angra do Heroísmo	35 402	17 265	18 137	34 583	16 943	17 640	12 195	13 462	12 007
Praia da Vitória	21 035	10 432	10 603	20 649	10 277	10 372	7 323	8 849	7 193
ILHA GRACIOSA	4 391	2 174	2 217	4 277	2 111	2 166	1 658	2 775	1 637
Santa Cruz da Graciosa	4 391	2 174	2 217	4 277	2 111	2 166	1 658	2 775	1 637
ILHA DE SÃO JORGE	9 171	4 565	4 606	8 871	4 468	4 403	3 413	5 169	3 388
Calheta	3 773	1 876	1 897	3 675	1 858	1 817	1 405	2 325	1 397
Velas	5 398	2 689	2 709	5 196	2 610	2 586	2 008	2 844	1 991
ILHA DO PICO	14 994	7 320	7 674	14 458	7 066	7 392	5 449	6 447	5 386
Lajes do Pico	14 994	7 320	7 674	14 458	7 066	7 392	5 449	6 447	5 386
Madalena									
S. Roque do Pico									
ILHA DO FAIAL	14 994	7 320	7 674	14 458	7 066	7 392	5 449	6 447	5 386
Horta	14 994	7 320	7 674	14 458	7 066	7 392	5 449	6 447	5 386
ILHA DAS FLORES	3 793	1 912	1 881	3 697	1 913	1 784	1 464	2 097	1 401
Lajes das Flores	1 504	780	724	1 449	772	677	599	991	568
Santa Cruz das Flores	2 289	1 132	1 157	2 248	1 141	1 107	865	1 106	833
ILHA DO CORVO	430	240	190	449	265	184	186	181	154
Corvo	430	240	190	449	265	184	186	181	154

Total Population 13592

Health Service – Central Group



Primary Roads



Logistic – Transportation



Airplanes

A PROTEÇÃO CIVIL COMEÇA EM SI!



Ambulance & Medical Emergency

Concelho/Ilha	Nº bombeiros
Angra do Heroísmo	97
Praia da Vitória	79
Terceira	176
Santa Cruz da Graciosa	43
Graciosa	43
Velas	32
Calheta	59
S. Jorge	91
Madalena	38
S. Roque do Pico	25
Lajes do Pico	35
Pico	98
Horta	51
Faial	51

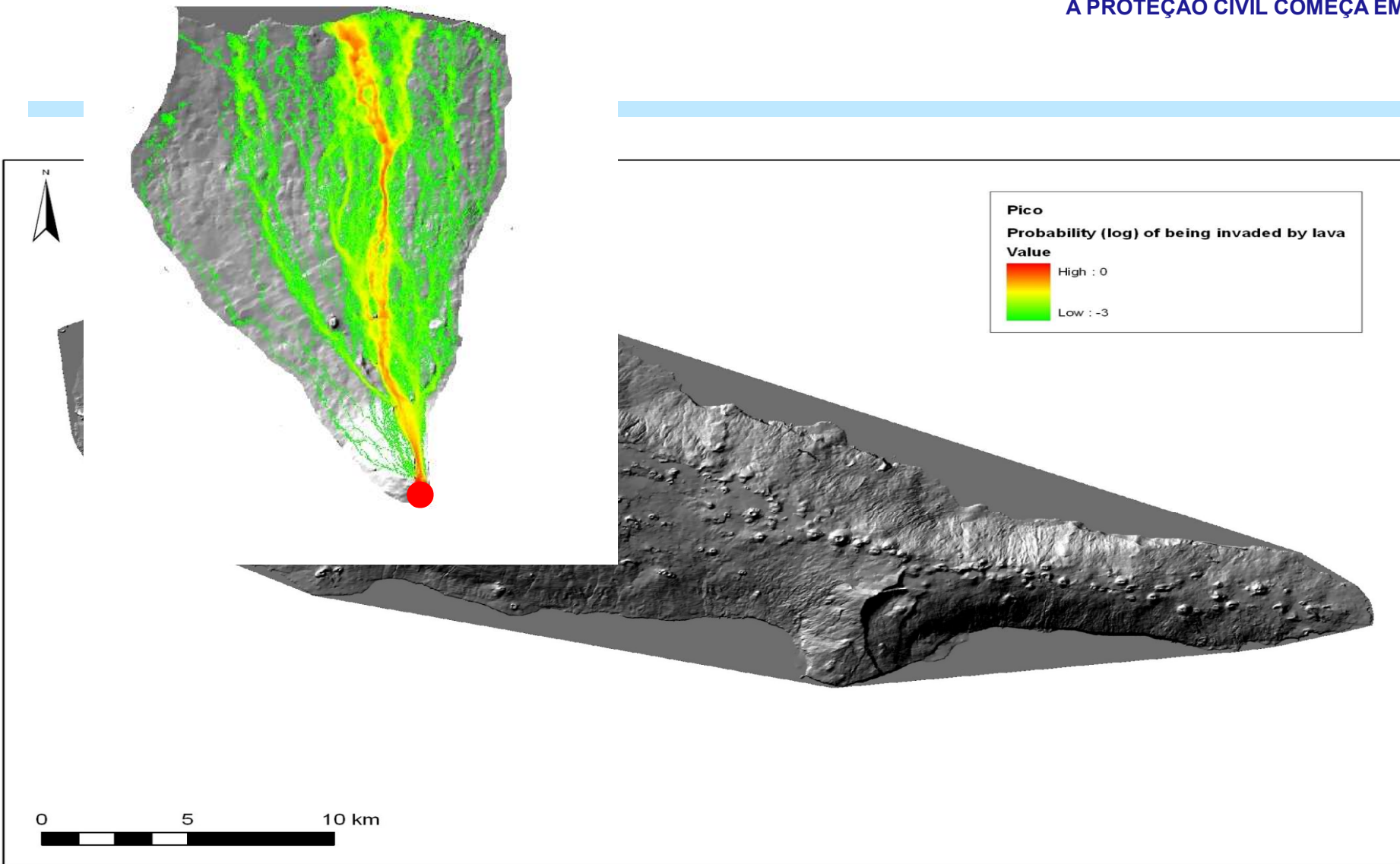
	AMS	Outros
AH	7	10
CALH	4	13
GRAC	5	13
HORT	5	8
LPIC	6	7
MAD	5	9
PVIT	7	13
SROQ	5	9
VELS	5	10
TOTAL	49	92

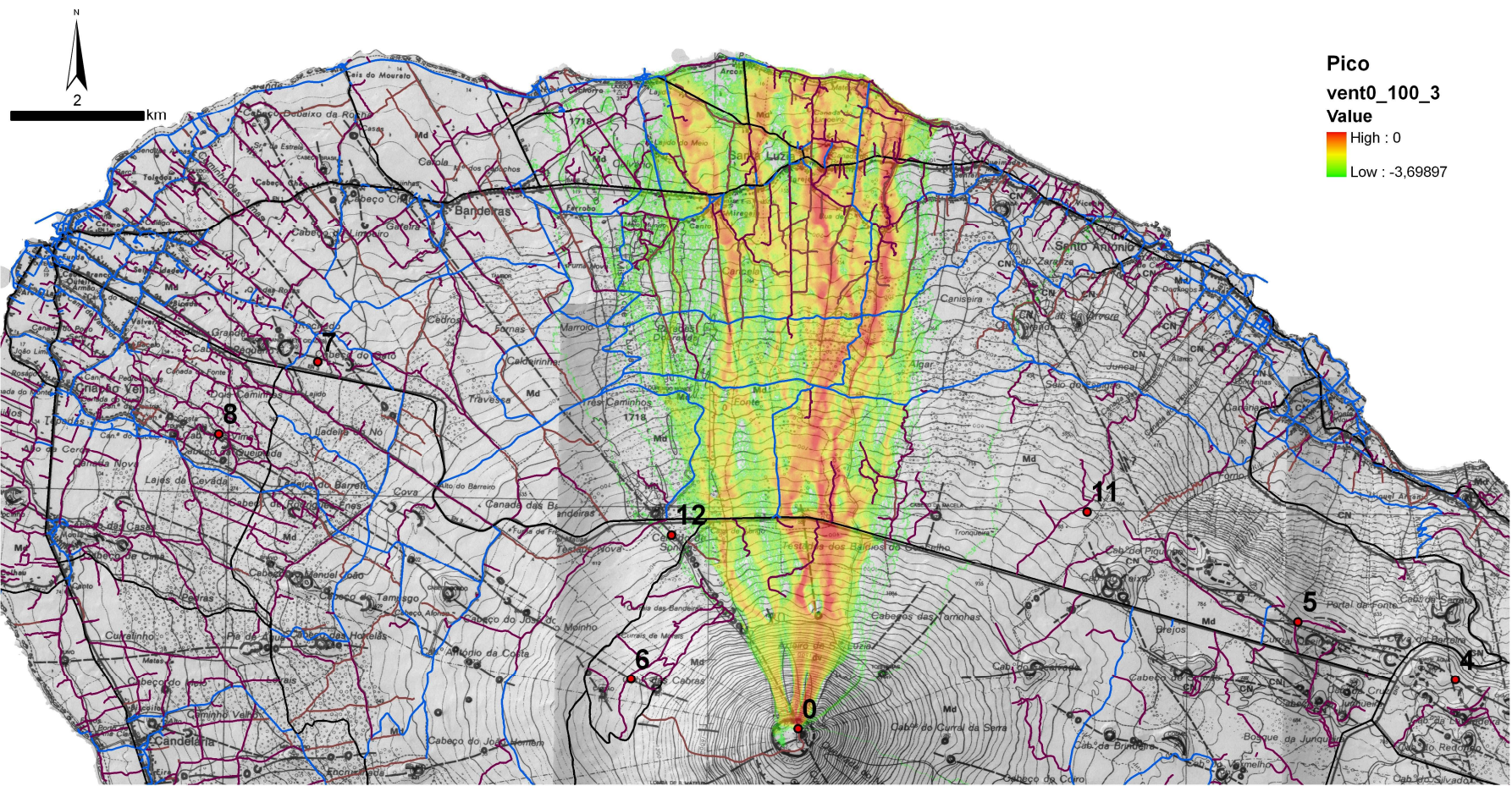
TOTAL 459



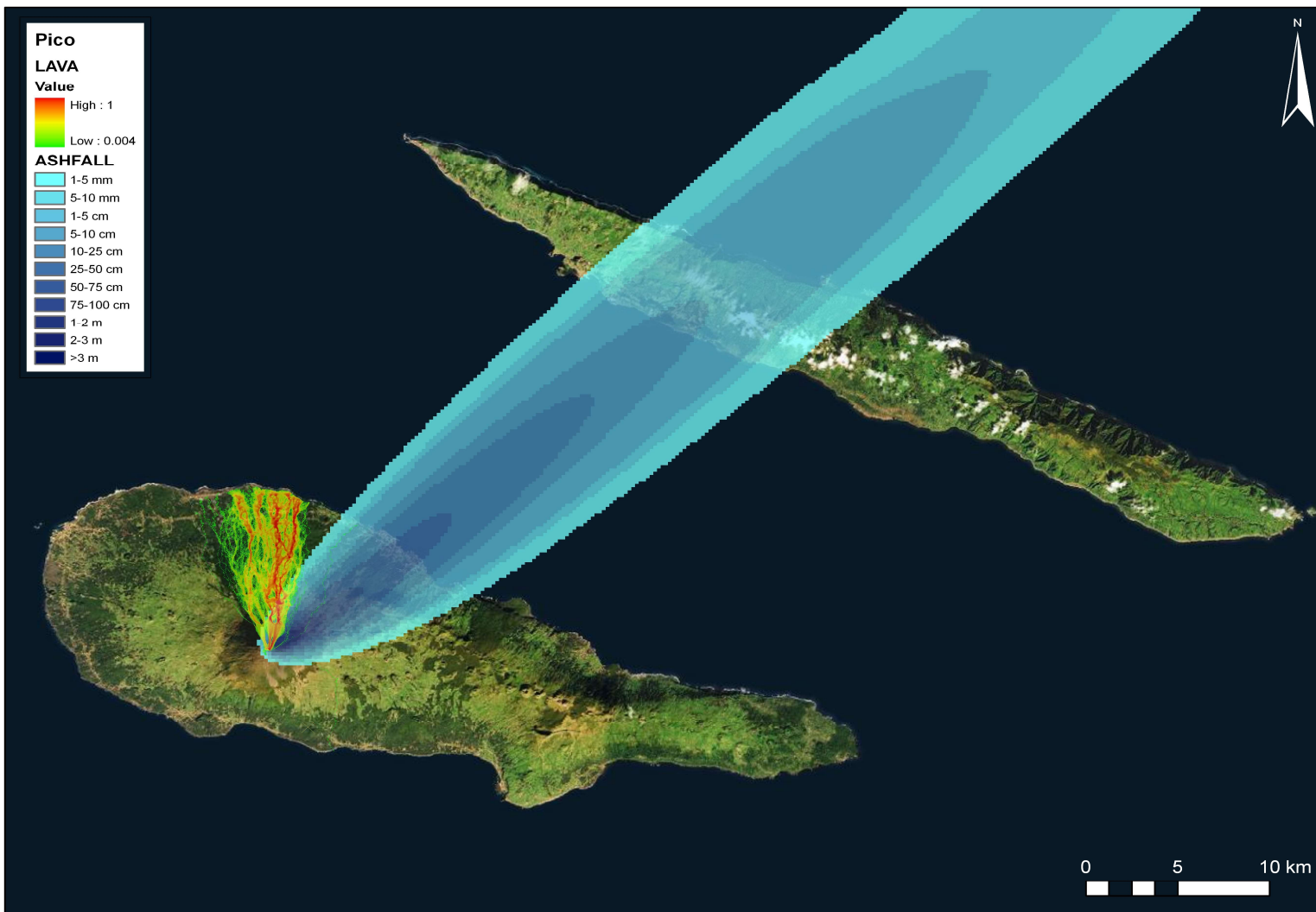
Where is the Accident



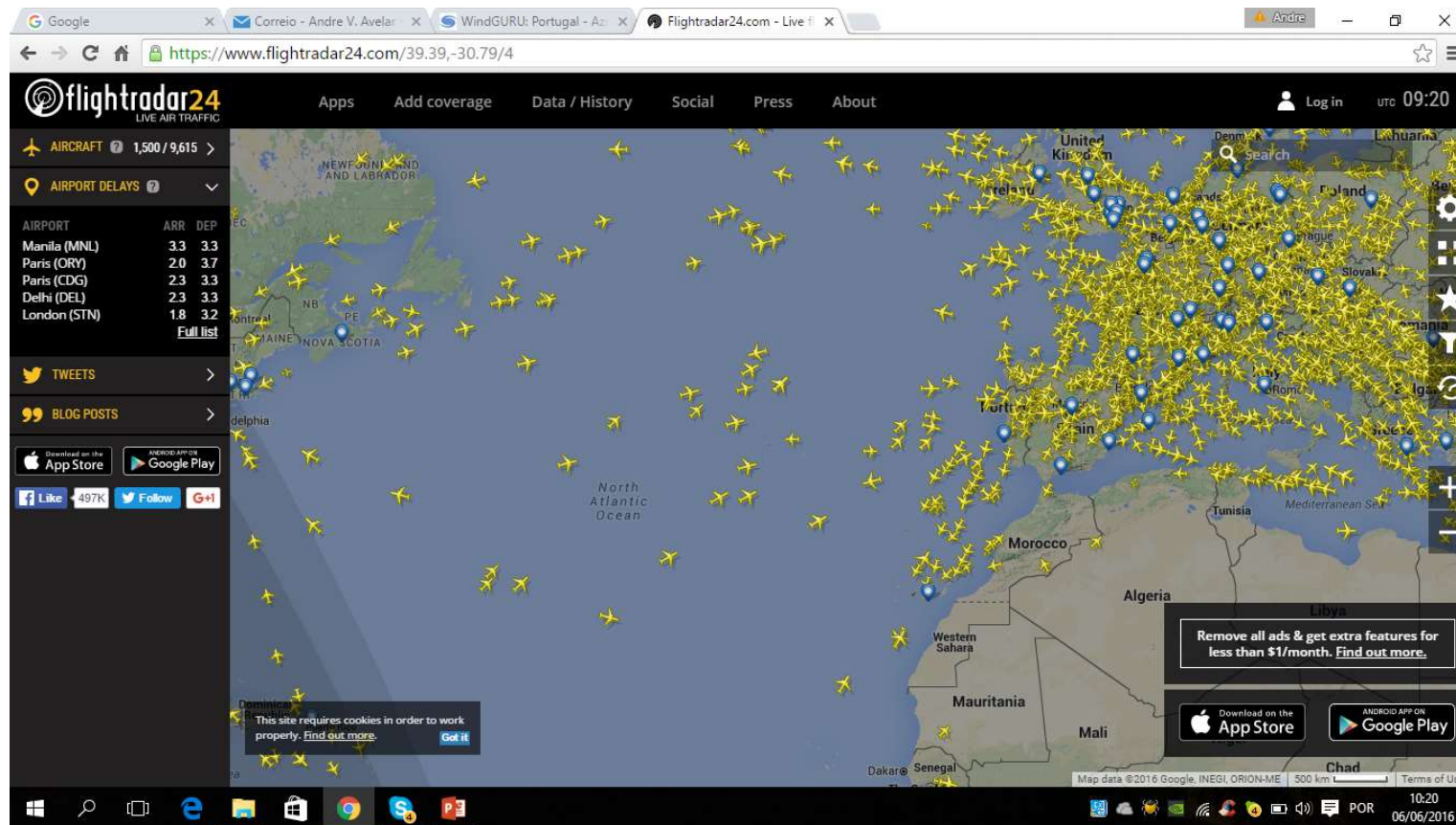




Pico
vent0_100_3
Value
High : 0
Low : -3,69897



But until now! we are thinking just in Azores



But until now! we are thinking just in Azores



REMARKABLE PSAP (Public Safety Answering Point) ACHIEVEMENT AWARD 2017 Azores Regional Civil Protection and Fire Services, Azores, Portugal



QUESTÕES?



SERVIÇO REGIONAL DE PROTEÇÃO CIVIL E BOMBEIROS DOS AÇORES



A sua segurança na palma da mão!



www.prociv.azores.gov.pt



www.fb.com/SRPCBA



www.twitter.com/PROCIVazores



www.youtube.com/user/SRPCBA



Aplicação Smartphone:

