Using mobile and geodata to support crisis management

Sérgio Guerreiro Turismo de Portugal

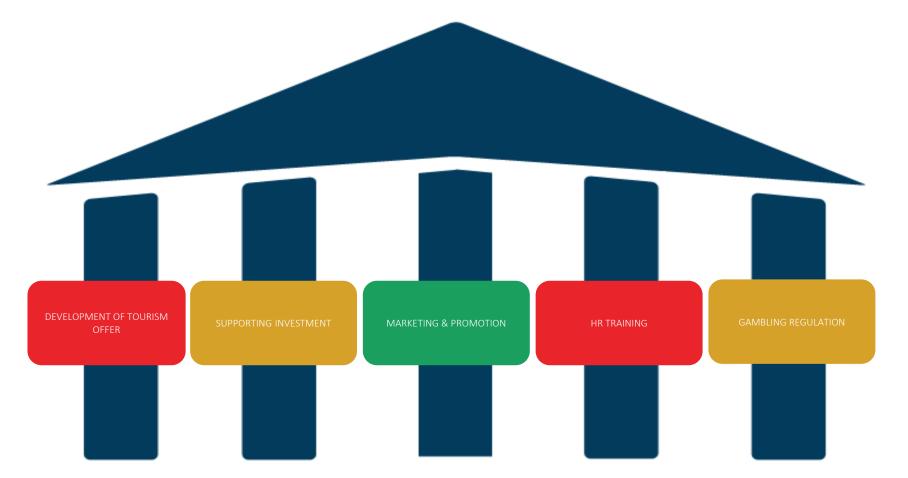




About Turismo de Portugal



National Tourism Authority



KNOWLEDGE





Portugal police drive fuel trucks as strike bites

13 August 2019





Top Stories



Context



August 2019			Thu 1	Fri 2	Sat 3	3103k	
Sun 4	Mon 5	Tue	Wed	Thu 8	Fri 9	Sat 10	Hotel Guests
Sun	Mon	Tue	Wed	Thu	Fri	Sat	9292k
11 Sun	12	13	14 Wed	15	16 Fri	17 Sat	Overnight Stays
18	19	20	21	22	23	24	82.1%
Sun	Mon	Tue	Wed	Thu	Fri	Sat	02.1/0
25	26	27	28	29	30	31	Occupancy Rate



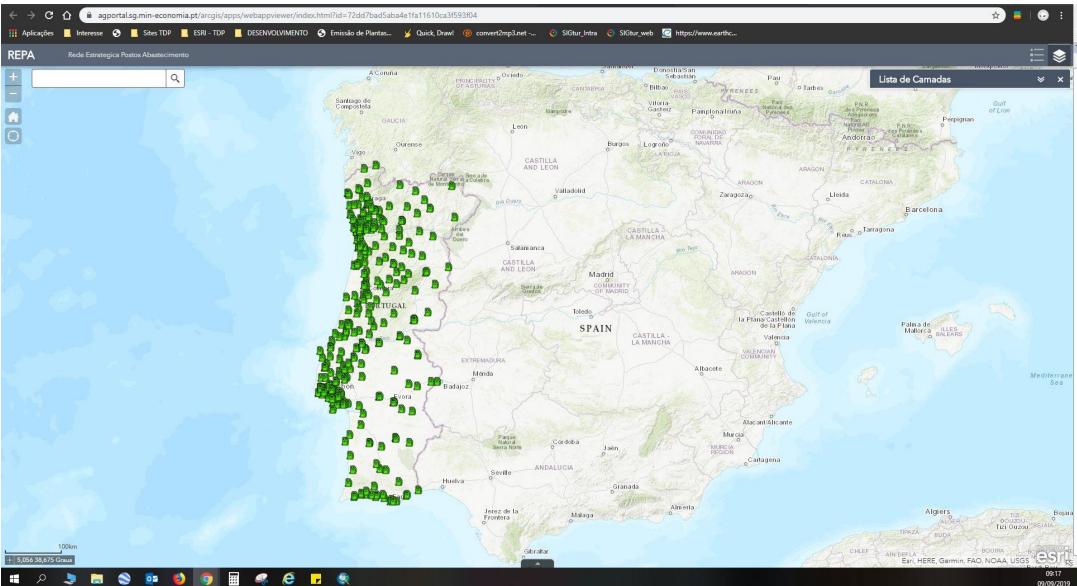
Challenge!



How to minimize the impacts of the fuel crisis to the tourism industry?

Emergency Gas Stations Network





Role of NTO's in Crisis Management?



Project Objectives



Use big data sources to anticipate impacts of the fuel crisis in the tourism industry

- to provide accurate data to discuss with Homeland Affairs Ministry the definition of the Emergency Gas Stations Network, in order to minimize the impacts for tourists and tourism accommodation
- to identify and quantify gap areas following the definition of the Emergency Gas Stations Network
- to support communication and advisory to tourists and hoteliers on how the best way to mitigate impacts of the crisis



1. Data Sources

Data Sources





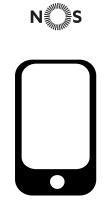
Hotels (geodata)



Hotels (statistics)

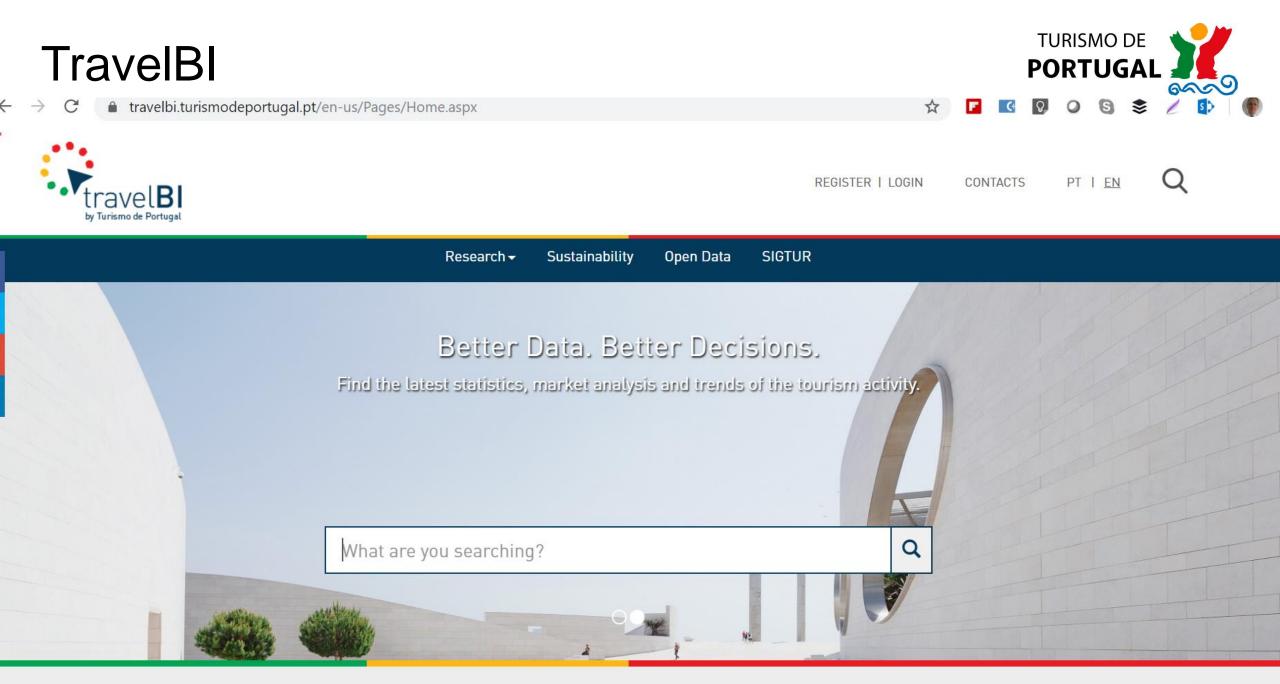






Mobile Data

Integrated View



Overnight Stays

Guests

Total Revenue

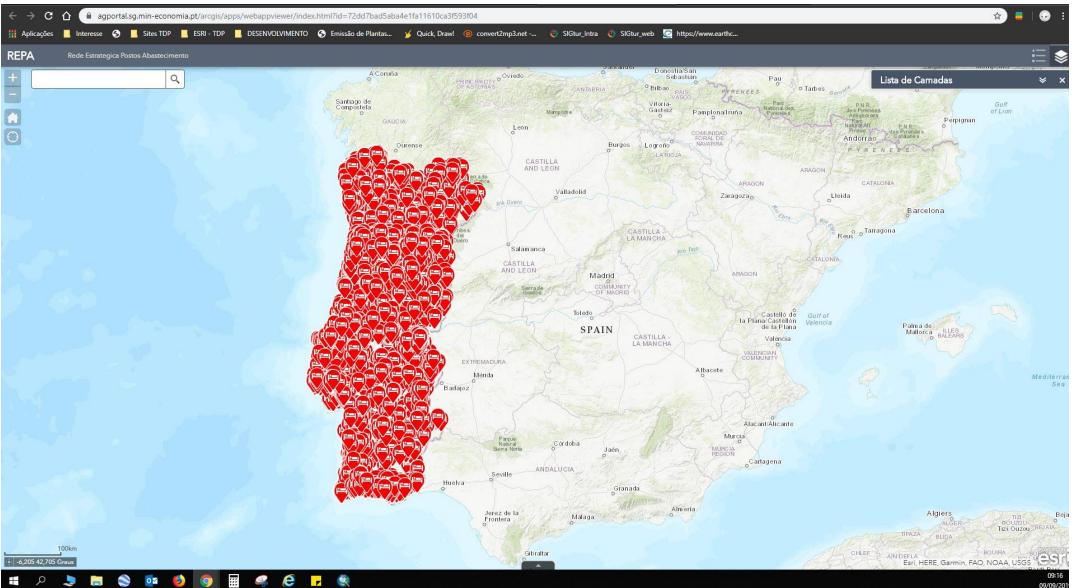
Tourism Receipts



2. Outputs

TravelBI GIS: Hotels & Similar Estab.

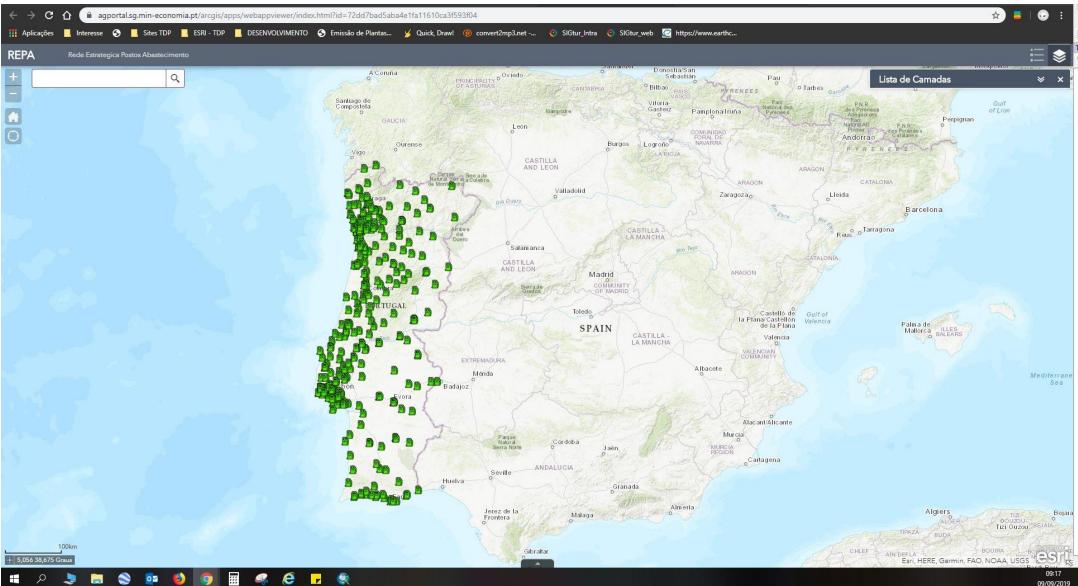




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TravelBI GIS: REPA Gas Stations

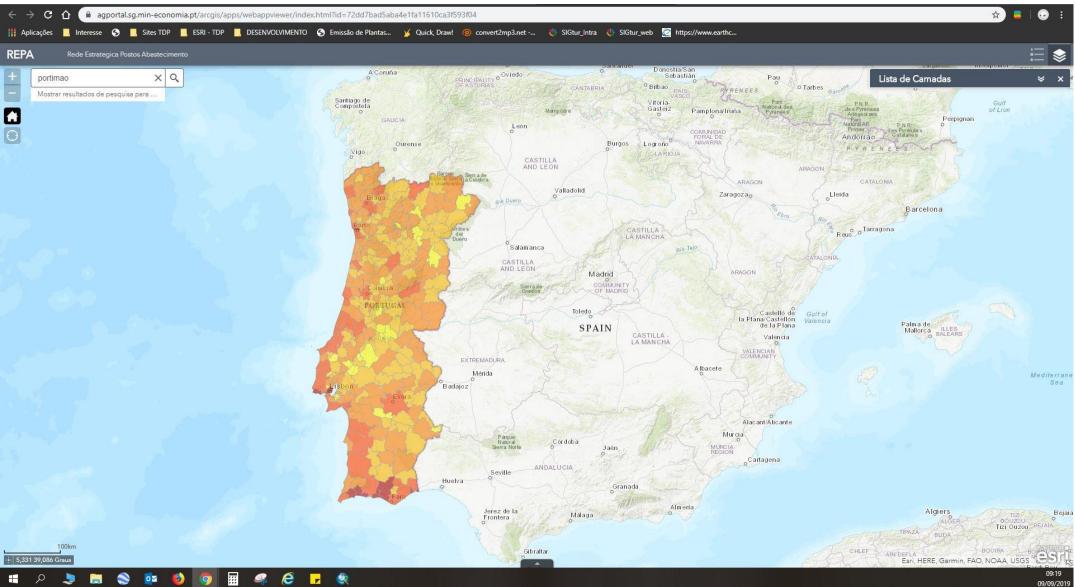




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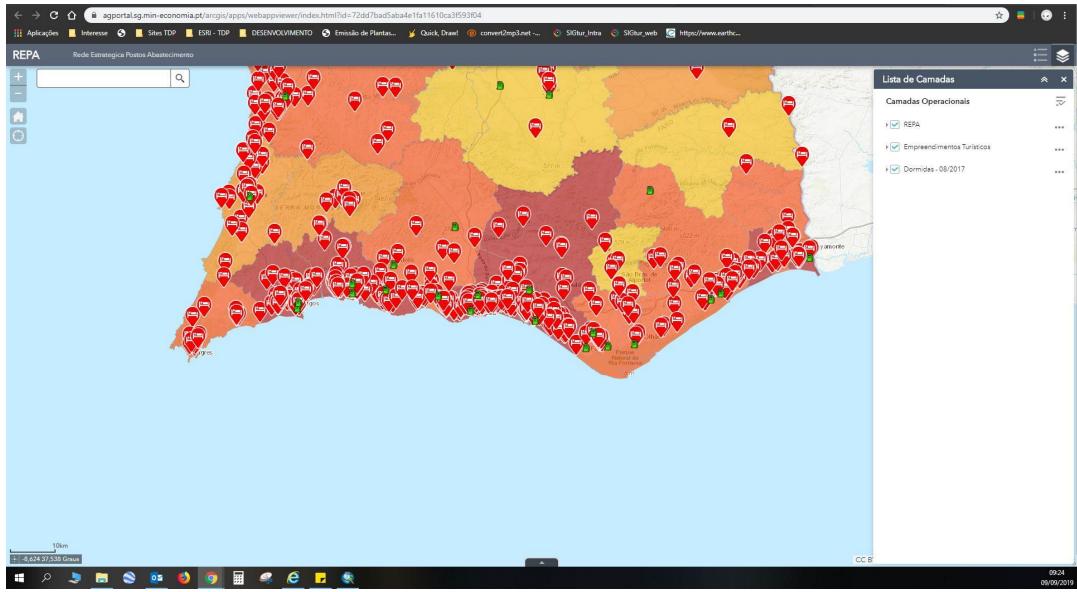
TravelBI GIS: Overnight stays (Aug'17)





TravelBI GIS: integrated view





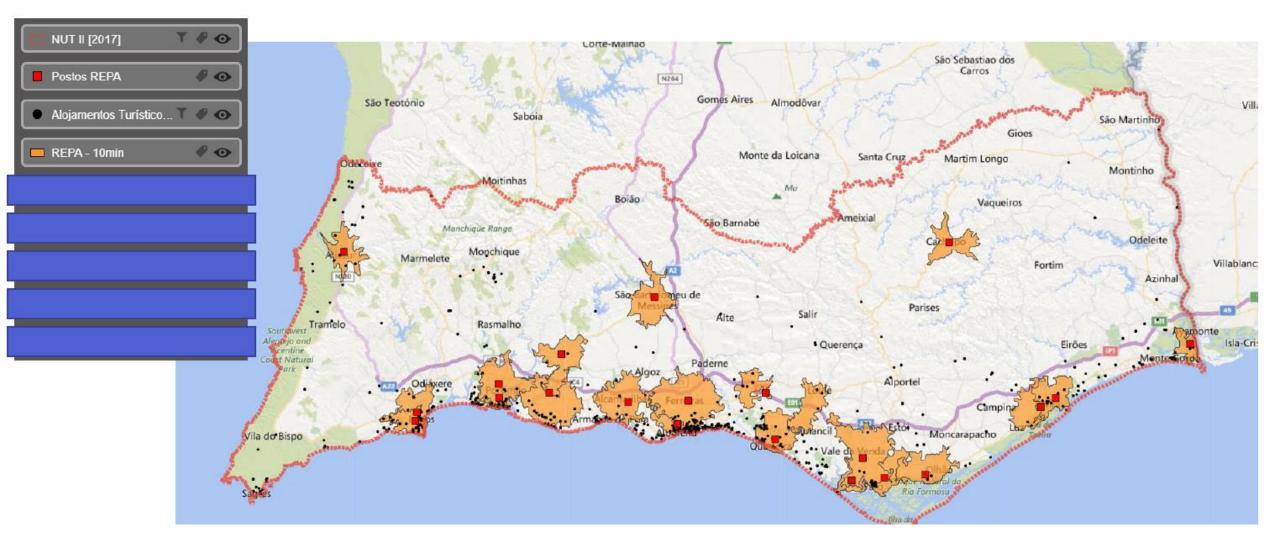
NOS Telecom: tourists 1-15 July 2019



United Kingdom	United Kingdom	Netherla	Germany	Spain	Ireland	 01-Jul-19 02-Jul-19
						O 03-Jul-19
1						 04-Jul-19 05-Jul-19
France						O 06-Jul-19
						O 07-Jul-19
_						O 08-Jul-19
Netherlands						O 09-Jul-19
		Belgium	Poland	Swi	Jni	 10-Jul-19 11-Jul-19
-		, in the second s				0 12-Jul-19
Germany						O 13-Jul-19
			Italy	Bra		O 14-Jul-19
	France	Sweden	licency			O 15-Jul-19
Spain			Norway			
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ALBUFEIRA	ALJEZUR	FARO	LAGOS	MONCHIQUE	PORTIMÃO	SILVES	VILA DO BISPO
ALCOUTIM	CASTRO MARIM	LAGOA	LOULÉ	OLHÃO	SÃO BRÁS DE ALPORTEL	TAVIRA	VILA REAL DE SANTO ANTÓNIO

NOS Telecom: drive time from REPA stations



Alexandre Alexan

Aoitinhas

ichique Ranar

Aonchique

São Teotónio

Aarn

Odeceix

Trame



Gomes Aires

São Barnabé

Alte

Almodôvar

Ameixia

Monte da Loicana

São Sebastiao dos Carros

Martim Longo

Parises

Vaqueiros

Gioes

Fortin

São Martinho

Montinho

Odeleite

TONT

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NUT II [2017]

Postos REPA

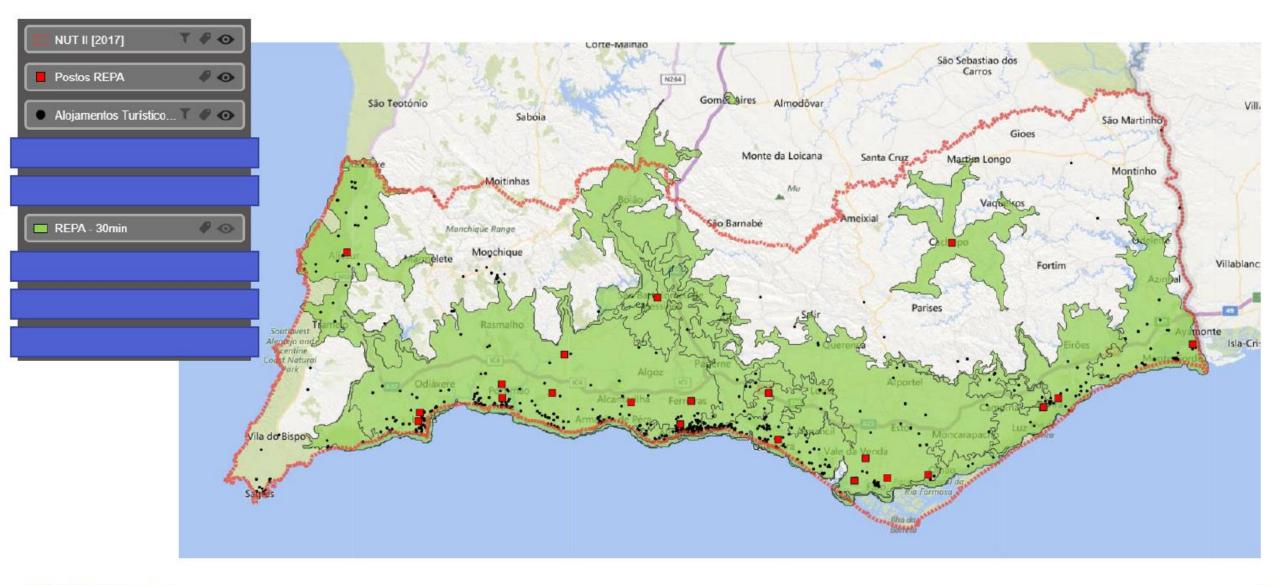
REPA - 20min

🔹 Alojamentos Turístico... 🍸 🥒 💿

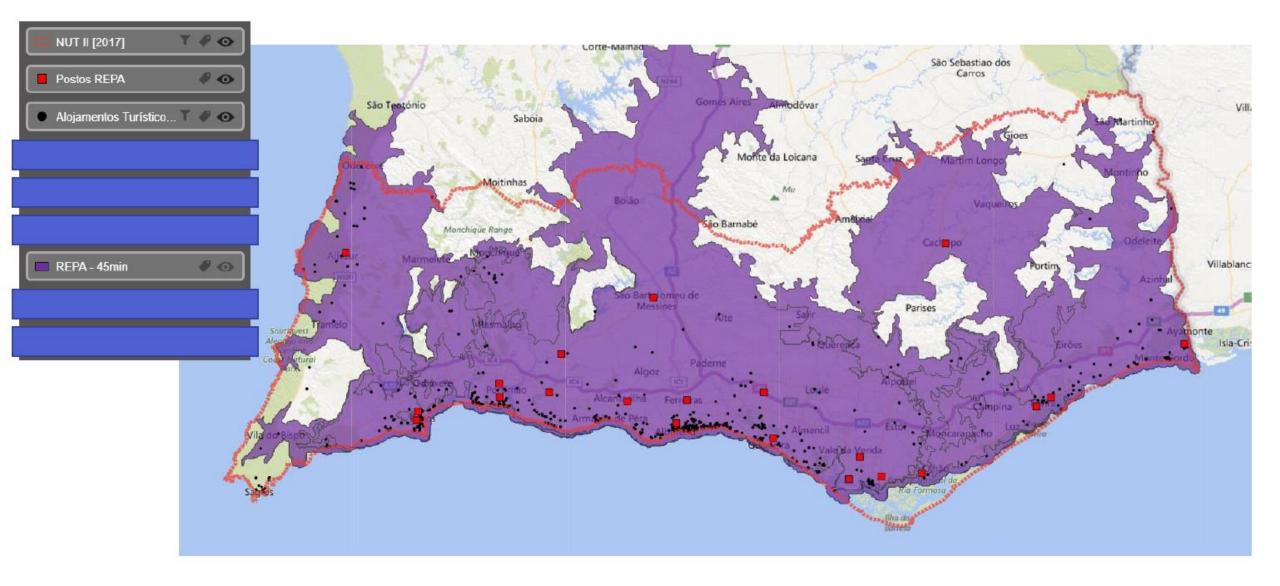
Villablanc

Isla-Cri













Lessons learned



- leadership and focus pick the right questions!
- find the right team data analysts, statisticians, data scientists
- network effect collaboration is mandatory!
- dealing with stress
- continuous access to data is critical for regular monitoring (cost, skills, ...)
- dealing with "frustration" invisible work is good

Thank you!

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