Rheticus® Wildfires:

actionable geoinformation service on burnt areas for post-fire assessment

Antonello Aiello Planetek Italia



Since 1994...



Bari



Athens



Roma



Bari



Earth Observation



Spatial Data Infrastructure & GIS



Location Based Systems



Space Software



Premium Partner



20180101-20181231

0 - 30



1279800



Monitoring Service On Request



Info-aaS



How does Rheticus® work?



Standardisation - Subscription-based - Worldwide availability

Service Portfolio

























Output

- > Web App
- > Pre-Set Reports

Rheticus **WILDFIRES** (O)

Input

- > Search & download Sentinel-2
- > Other open data sources
- Other customer's data



Processing

Post-Processing

> Spatial analysis

> Statistics

Analytics

- Cloud detection and masking
- > Burnt area detection
- > Severity classification
- > Illegal building detection
- > Vegetation regrowth monitoring

Pre-Processing

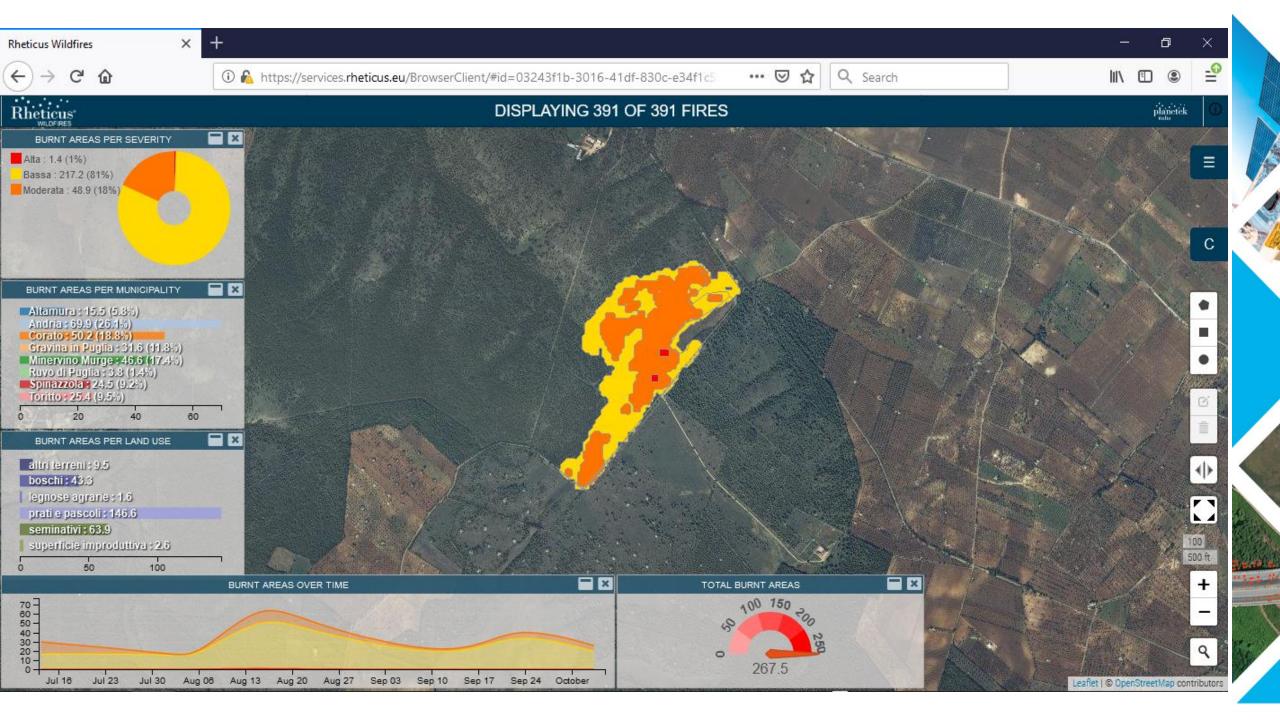
Atmospheric correction

What does Rheticus® Wildfires provide endusers with?

- ☐ Burnt Area Detection and Fire Severity Classification (1/week)
- □ Detection of potentially illegal building activities within past official burnt areas (4/year)

■ Monitoring of vegetation regrowth within burnt areas (1/year)









Monitoring the evolution of our Earth

Rheticus® Wildfires

Report per il Parco Nazionale dell'Alta Murgia

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Approved by:	Vincenzo Barbieri	30/10/2017
Checked by:	Antonello Aiello	30/10/2017

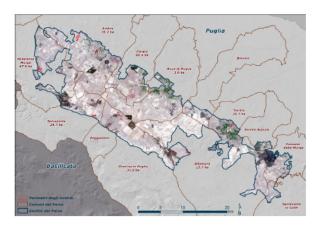


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Company system is compliant to 180 5001, 180 27001, 8A 8000 e EMAS III

pkm106-68-1.0 Rheticus® Wildfires – Report per II Parco Nazionale dell'Alta Murgia

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Dati di sintesi del servizio



ID Incendio	Periodo	Area [ha]
ID1	07/07/2017-14/07/2017	4.40
ID2	07/07/2017-14/07/2017	25.70
ID3	24/07/2017-03/08/2017	13.90
ID4	24/07/2017-03/08/2017	2.60
ID5	03/08/2017-06/08/2017	4.0
ID6	03/08/2017-06/08/2017	7.8
ID7	06/08/2017-16/08/2017	47.6
ID8	06/08/2017-16/08/2018	24.7
ID9	06/08/2017-16/08/2019	6.0
ID10	16/08/2017-23/08/2017	49.4
ID11	12/09/2017-15/09/2017	3.8
ID12	12/09/2017-15/09/2018	3.9
ID13	17/09/2017-22/09/2017	50.4
ID14	22/09/2017-05/10/2017	6.8
ID15	22/09/2017-05/10/2018	9.7
ID16	22/09/2017-05/10/2019	9.0
Totale		269.7

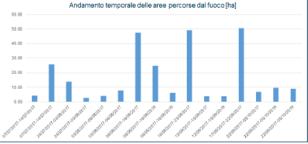




pkm106-68-1.0 Rheticus® Wildfires - Report per II Parco Nazionale dell'Alta Murgia

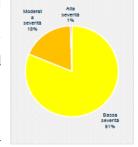


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Superficie percorsa dal fuoco per	classe di severità [ha]
Bassa severità	219.0
Moderata severità	49.3
Alta severità	1.4
Totale	269.7

Superfici percorse dal fuoco per Comune [ha]			
Altamura	15.7		
Andria	70.3		
Corato	50.4		
Gravina di Puglia	31.5		
Minervino Murge	47.0		
Ruvo di Puglia	3.6		
Spinazzola	24.7		
Toritto	25.7		
Totale	269.		

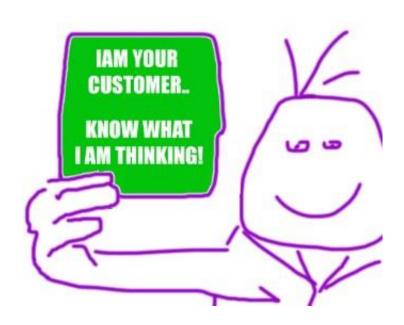






Who is it for?

- ☐ Governmental authorities in charge of policy and decision making
- National to local governmental institutions in charge of environmental monitoring and reporting
- National to local park entities









- □ 07/07 15/10: 270 ha of burnt areas
- ☐ 16 wildfires, and 3 fires affecting over 50 ha each
- Most affected municipalities: Andria, Corato and Minervino Murge
- ☐ Most affected LC types: pasture (132 ha), arable land (44 ha)
- ☐ Woods: at least 35 ha, and 1 ha classified at high severity











IL RESTAURO FORESTALE DELLE AREE PERCORSE DA INCENDIO: UN APPROCCIO METODOLOGICO PER LA STIMA DEL DANNO E L'INDIVIDUAZIONE DEGLI INTERVENTI POSSIBILI

IL CASO STUDIO DELLE AREE FORESTALI COLPITE DALL'INCENDIO DEL MORRONE
DEL 19 AGOSTO - 12 SETTEMBRE 2017

T. Andrisano, F. Contu, B. Schirone Società Italiana Restauro Forestale



Viterbo, 30 novembre 2017

Let's keep in touch

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