



FIG Working Week 2024

19-24 May

Accra, Ghana

Your World, Our World:
Resilient Environment
and Sustainable
Resource Management
for All

Presented at the FIG Working Week 2024,
19-24 May 2024 in Accra, Ghana

Forest Fires and Climate Change the Italian Law 353/00 to address economical speculation, portal security, data analysis.

- Climate Change and Consequences;
- Ecomafia;
- Government Action;
- Geoportal.

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GEOSA
General Authority for Survey
and Geospatial Information





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CLIMATE CHANGE



As the United Nations

A long-term changing of temperature and meteorological models, happen either in a natural way or due to human actions, such as combustion of oil, gas, and carbon.

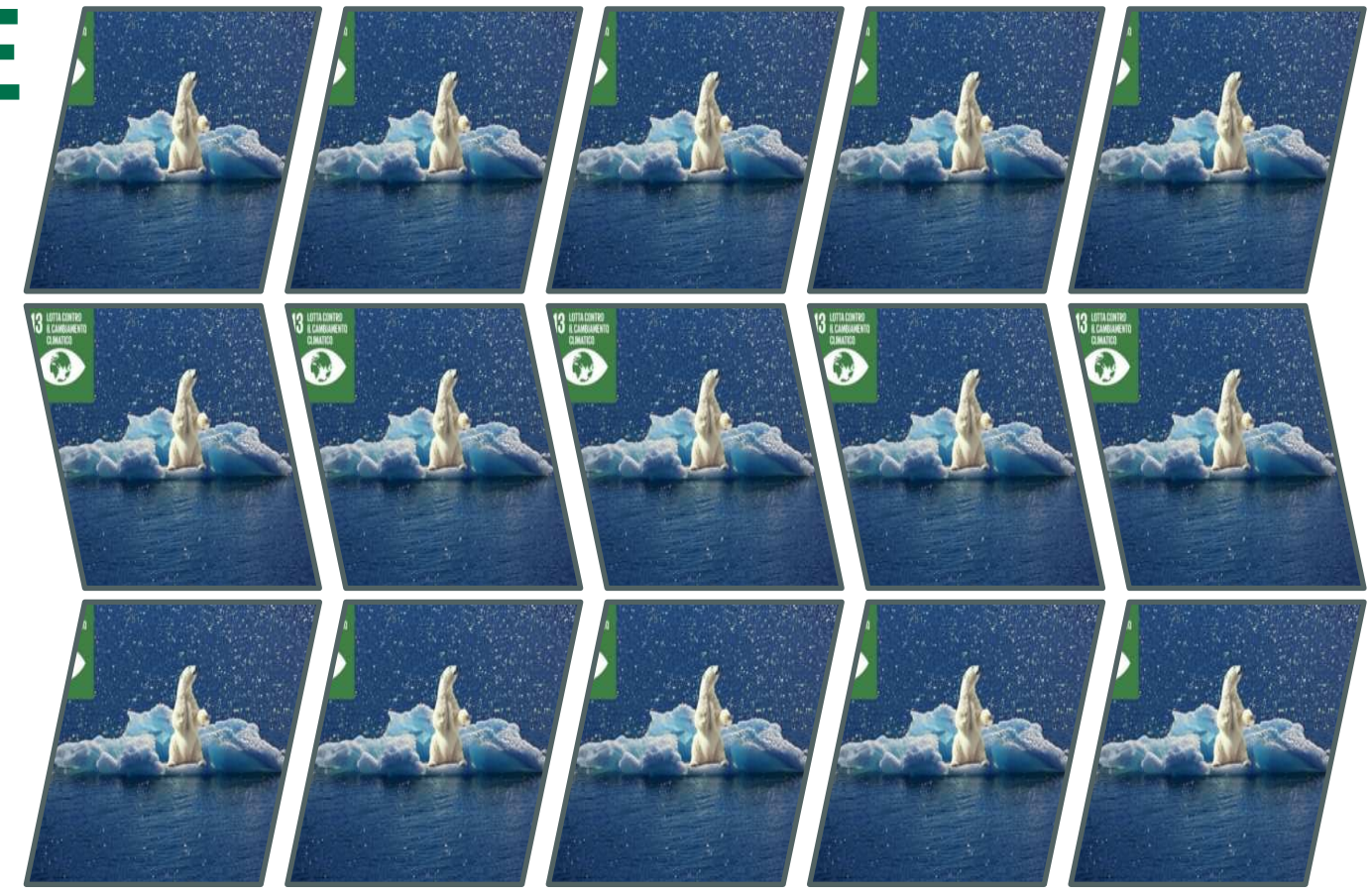




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THE ROYAL AND SCAMATA EMON, WEDNESDAY, MARCH 14 1912

The Poultry Run.
SHEEP FEEDING CAREERS.
THE CHINESE MARKET AT SHANGHAI.
THE CHINESE MARKET AT SHANGHAI.
THE CHINESE MARKET AT SHANGHAI.

SCIENCE NOTES AND NEWS.
THE PROGRESS OF THE
SCIENCE.

FACTS AND FIGURES.
THE RAILWAY SYSTEM.
THE RAILWAY SYSTEM.

ANECDOTES FROM IRELAND.
THE RAILWAY SYSTEM.

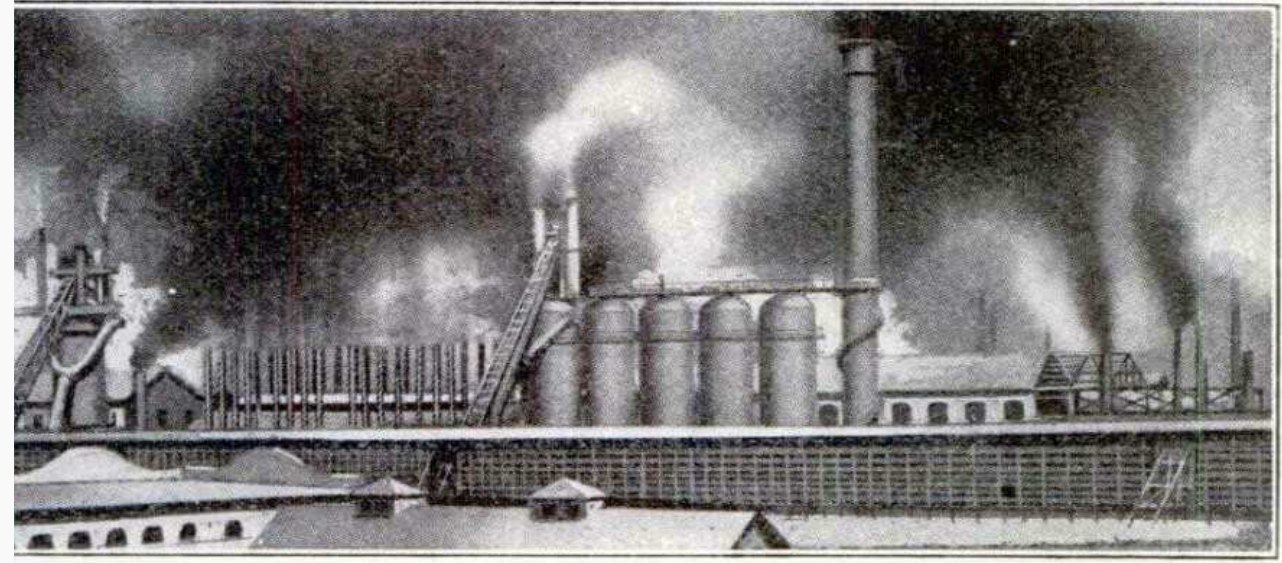
March, 1912

POPULAR MECHANICS

341

COAL CONSUMPTION AFFECTING CLIMATE.

The furnaces of the world are now burning about 2,000,000,000 tons of coal a year. When this is burned, uniting with oxygen, it adds about 7,000,000,000 tons of carbon dioxide to the atmosphere yearly. This tends to make the air a more effective blanket for the earth and to raise its temperature. The effect may be considerable in a few centuries.



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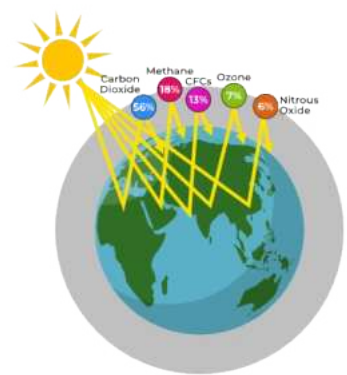
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Consequences for everyone

For Earth – Seasons – Animals and Humans

a situation as A Diabolical mixture (UN Secretary-General Ban Ki-Moon 2011)

Greenhouse Gases



Level like 4,5 million years ago

20.000 years of change in 170 years



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Higher temperature

- July 2023 – hottest month since 1880;
Due to the high temperature Seasons change



Polar glaciers melting
every year Antarctica loses equivalent to
on Everest



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Sea level rise – home of 200 million people will be below sea level in 70 years. Countries such as China, Bangladesh and India are particularly vulnerable to rising seas, coastal storms and flooding, as are the Netherlands and the United Kingdom

Deserts are expanding, every year more than 12 million hectares of land are lost due to desertification, land degradation and drought, the same area as Germany.

75 million children are food insecure; 155 million people were exposed to severe food insufficiency

CLIMATE REFUGEES

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Effects for...





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***FUTURE
GENERATION***

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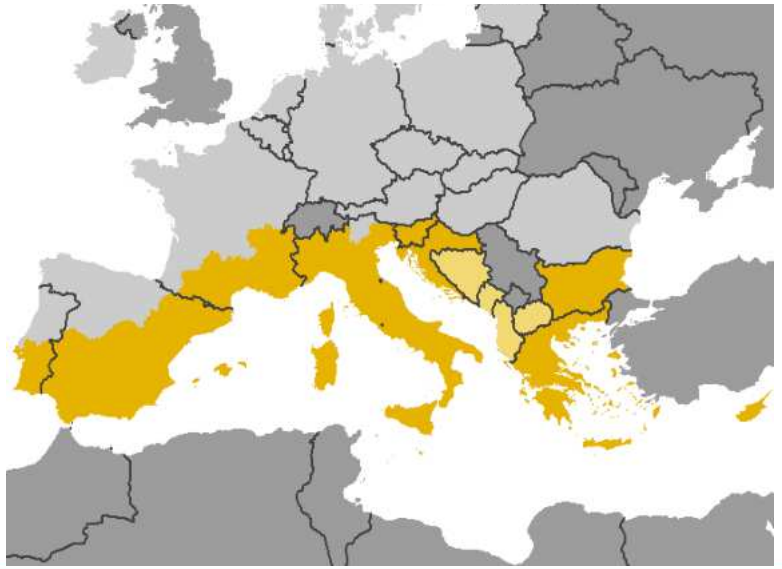
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The mediteranean region is vulnerable and susceptible to climate change.



In Italy we saw an alarming increase in wildfires and forest fire. Destroying flora and fauna, with destabilization of natural ecosystem and relevant economic damage and also desertification of some regions like Sicilia, Puglia, Molise, Basilicata, Sardegna, Emilia Romagna...

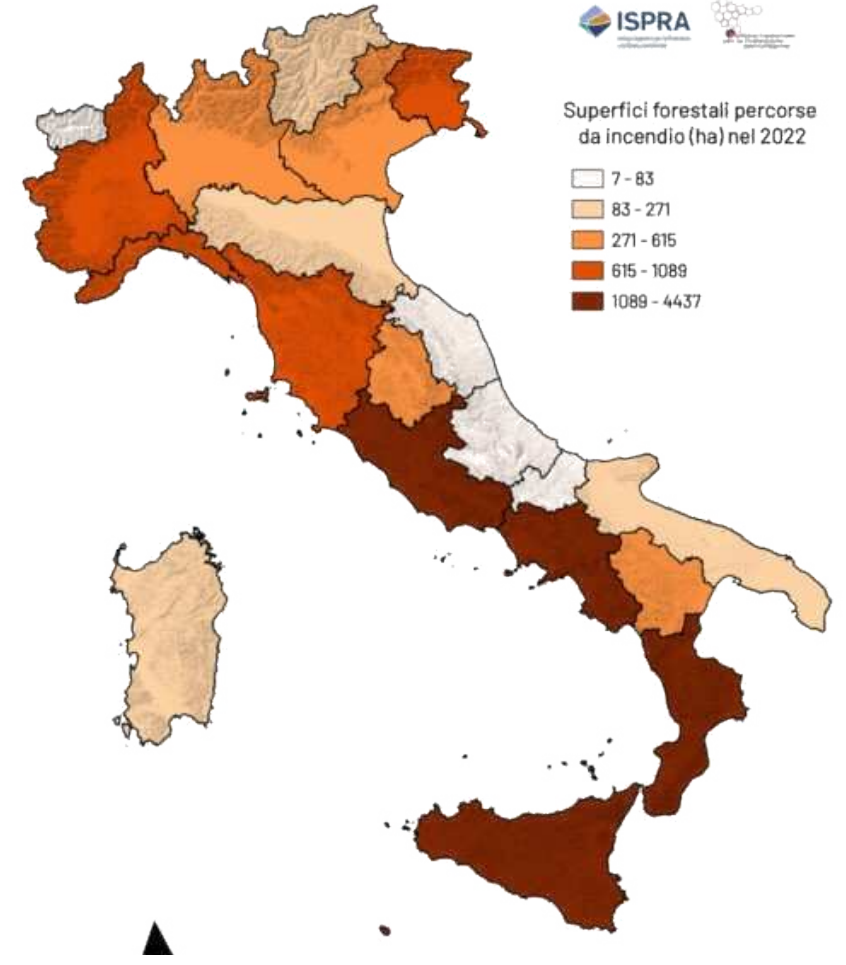




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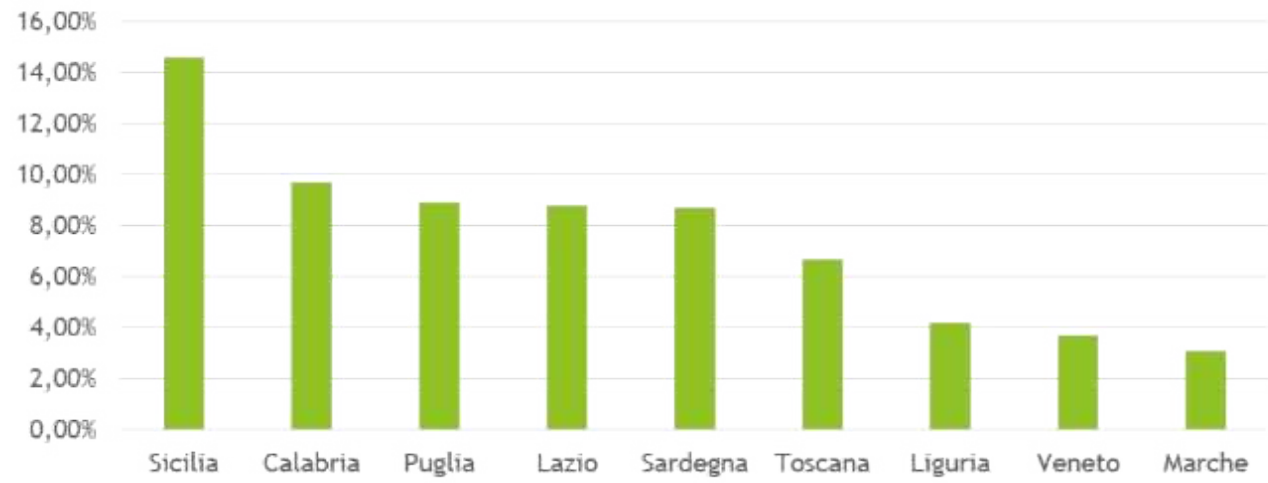
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ECOMAFIA

Illegal activity of criminal organization, as mafia, that destroy or cause problem to the environment

1991 first time is verify the crime of this type;

1994 first time this word is used in a public document;



LEGAMBIENTE



ISPRA

Istituto Superiore per la Protezione e la Ricerca Ambientale

ecomafia 2023 *Le storie e i numeri della criminalità ambientale in Italia*

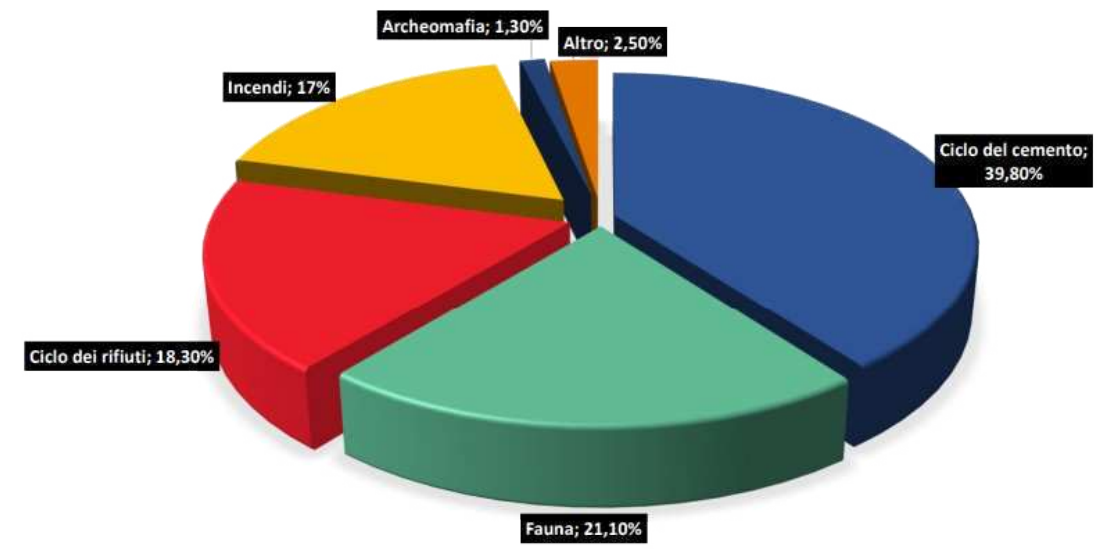




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ECOMAFIA

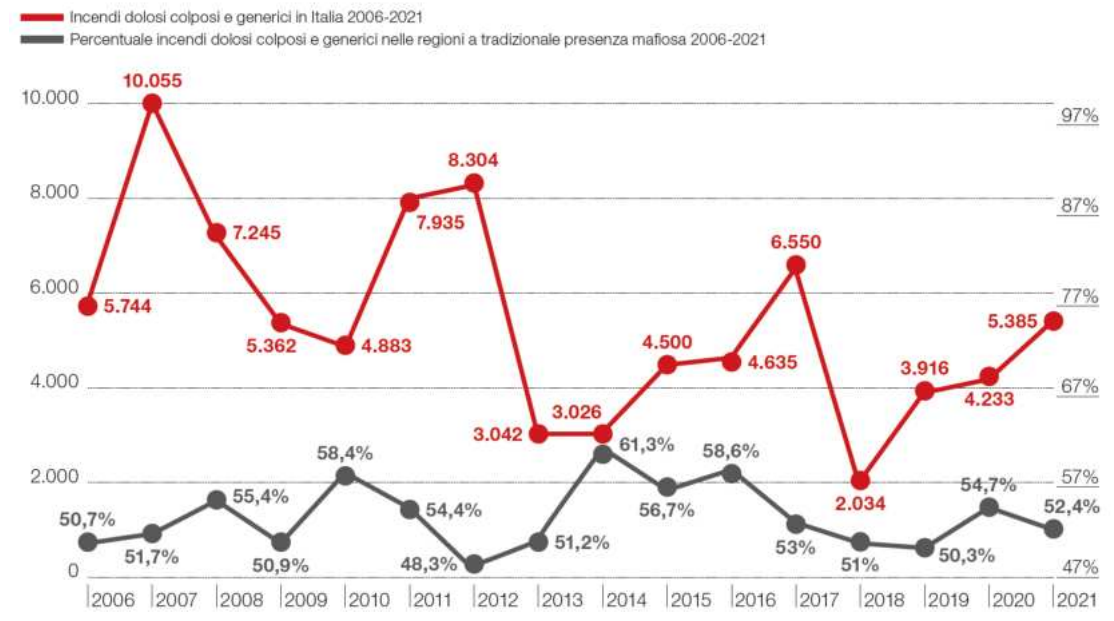
A report that analyze the relation between enviromental crime and climate change, in particularly with arison-induced forest fires.

In the last twenty years in Italy 40-50% of the territory affected by fire is made up of forest.

It's clear that climate change is exacerbating the criticality, frequency, intensity and duration of the phenomenon of fires.

But something goes wrong, as an improving phenomenon of fires in the days of wind and summer season.

INCENDI DOLOSI - COLPOSI - GENERICI IN ITALIA (2006-2021)



Fonte: Elaborazione Legambiente su dati del Comando Unità Forestali, Ambientali e Agroalimentari Carabinieri (CUFA) e dei Corpi forestali delle regioni a statuto speciale (2006/2021)

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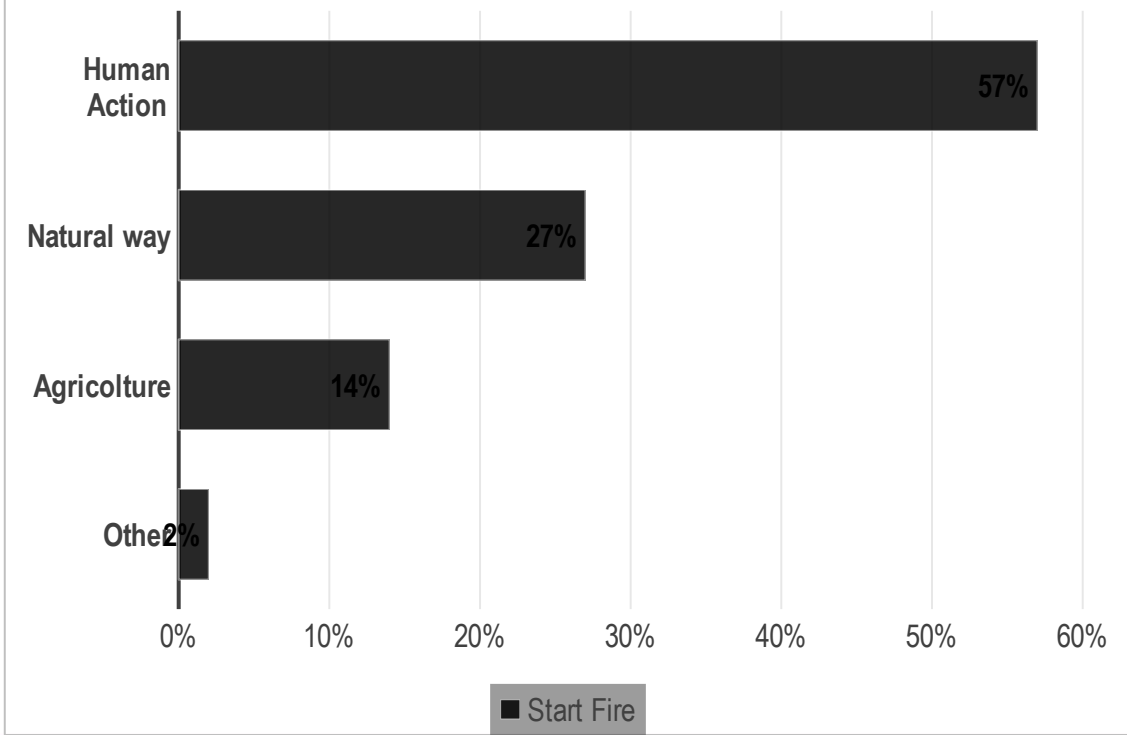
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Cause and Primer of fires

Start Fire



Zone sparks

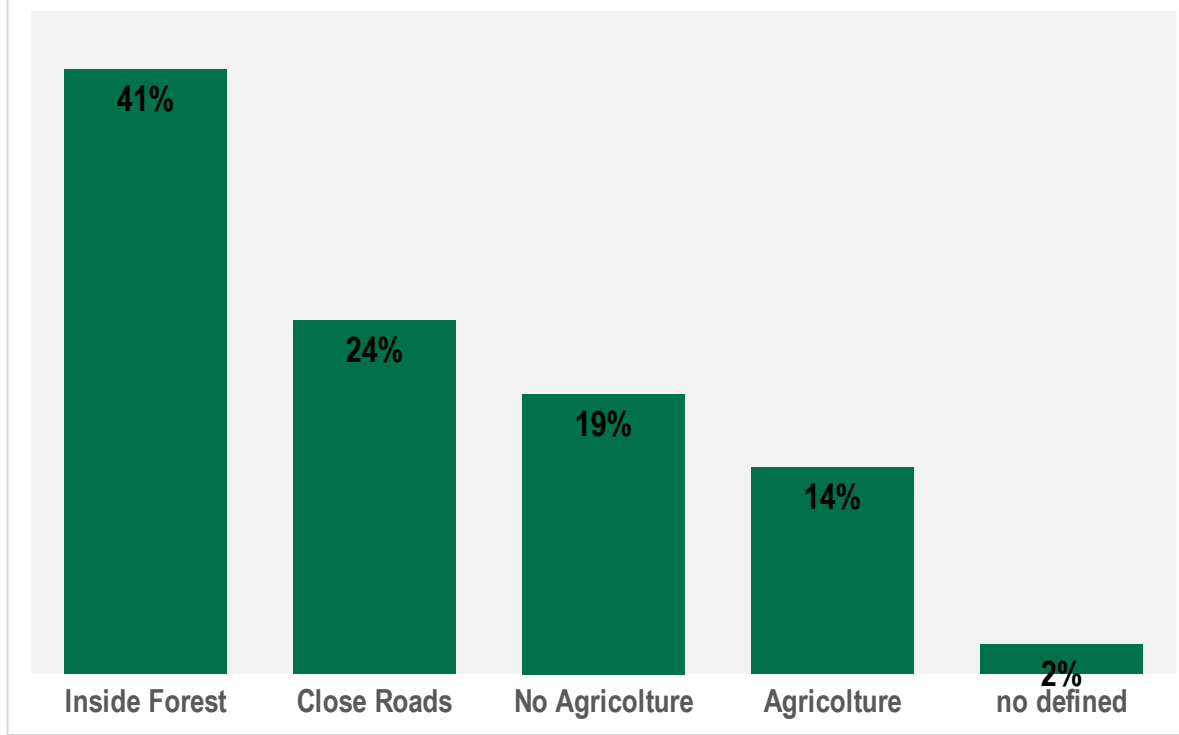




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LAW 353/00

Prediction – Prevention – Active Fight

Art. 4 – Prediction and Prevention risk wildfire

Prediction through the Identification areas and periods under the wildfire risk.

Prevention with actions to reduce reasons and potential start of wildfires. Across control system and technologies to monitoring of territory. Activity of prediction done by regions through a regional program of prevention and fight against fires. Province and municipalities realize it, with urgent actions, using survey directly on the field.

The **Active fight** against fire with patrol activity, supervision, sighting etc...

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LAW 353/00

Prohibition – limitation – Penalty

Art. 10:

”wooded areas and pastures whose stands have been crossed by fire cannot give a destination other than that which existed before the fire for at least 5 years” and ”it’s also forbidden for 10 years, on the aforementioned stands, the construction of buildings as well as structures and infrastructures aimed at civil settlement and productive activities forbidden also pasture and hunting.

In case of transgression, demolition and restoration, pay by transgressor.

In case of pasture in the forbidden zone sanction from € 30.000,00 and € 60.000,00,

In case of hunting sanction from € 200.000,00 and € 400.000,00.





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GEOPORTALE INCENDI BOSCHIVI - DATI 2023
Arma dei Carabinieri - Comando Unità Forestali, Ambientali e Agroalimentari

Regione

Abruzzo

Basilicata

Calabria

Campania

Emilia Romagna

Lazio

Provincia

Selezionare una Regione

Comune

Selezionare una Regione e una provincia

Map showing fire incident counts in Italy for 2023. Red circles indicate the number of incidents in various regions: Valle d'Aosta (19), Piemonte (48), Liguria (131), Lombardia (164), Trentino (24), Veneto (47), Friuli (231), Emilia (125), Toscana (120), Marche (265), Umbria (55), Lazio (596), Abruzzo (255), Molise (8), Campania (409), Puglia (72), Basilicata (8).

DATO TOTALE REGIONI A STATO ORDINARIO	DATO REGIONALE	DATO PROVINCIALE	DATO COMUNALE
Numero: 2.759	Selezionare una Regione	Selezionare una Provincia	Selezionare un Comune
Superficie: 28.028 ha	Selezionare una Regione	Selezionare una Provincia	Selezionare un Comune





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GEOPORTALE

BASED ON ESRI TECHNOLOGY

AND USED BY SECURITY PATROL (CARABINIERI)

1

Identify RISK

2

Mitigate against threats

3

Visualize and manage impacts

4

Stabilize and restore landscapes

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CONCLUSION

We can not prevent fires or wildfire moreover if they happen in natural way, but we should prevent the others done by human activity not just by illegal actions but also for wrong routines.

Planting trees is beautiful, noble and regenerative action, but is not enough.

The human species is the unique element on the earth able to destroy and kill everything also themselves; but it's also capable with strong actions that can resolve problems completely.

The past generation lived with the idea that the future it was far far away from them, today WE are called to cure the Earth, the Life in the Earth.

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Thank you



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SUSTAINABLE DEVELOPMENT **GOALS**

International Federation of Surveyors supports the Sustainable Development Goals

Commission

#TSC Task Climate Resilience Actions for the Future

Serving Society for the Benefit of People and Planet



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