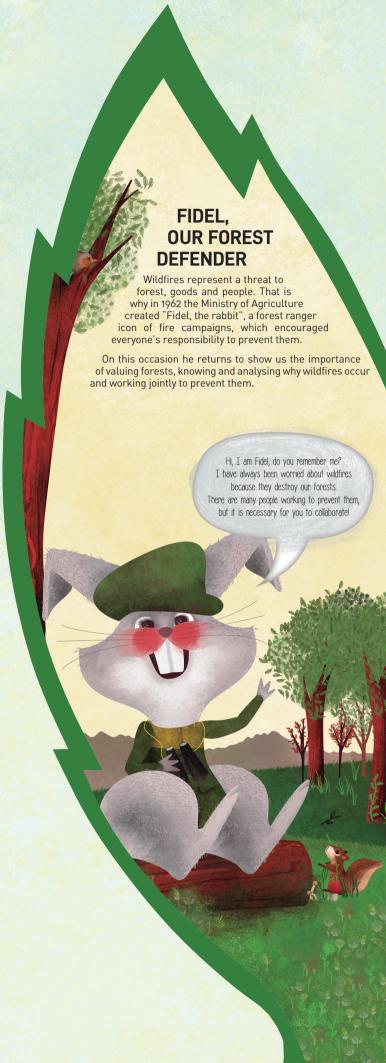
## Years of wildfire knowledge and prevention in Spain

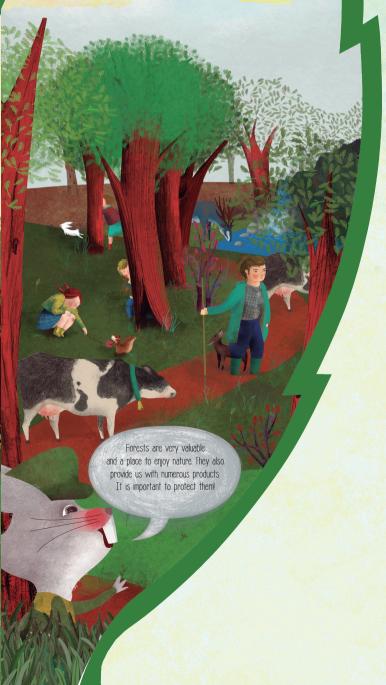


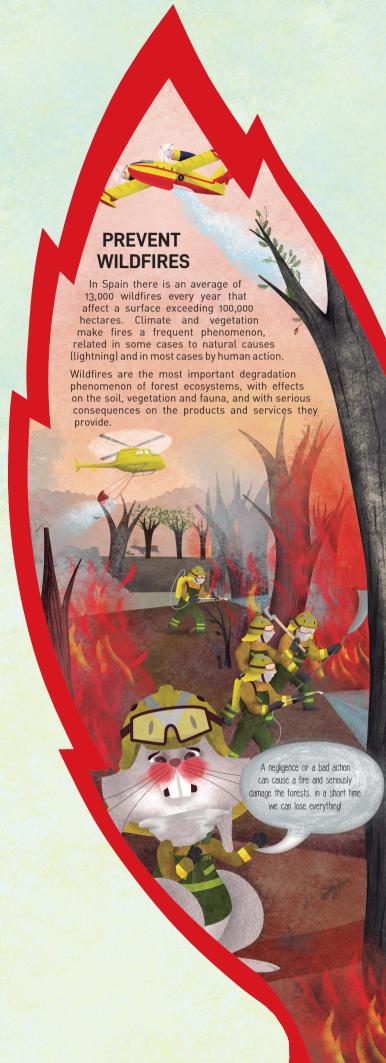


## THE VALUE OF FORESTS

Forests play a relevant social function, as a source of natural resources and sustenance of economic activities, by being providers of multiple services (protection of the hydrological cycle, atmospheric carbon sequestration or areas of biological diversity, among others) or by fulfilling recreational functions.

The whole society benefits from these resources and services and therefore, together with the governments, must ensure its conservation, sustainable use and restoration.







Since 1968, a systematic collection of information about all wildfires in Spain has been carried out, nurturing the National Statistics on Wildfires. It currently has more than 500.000 records, being one of the most complete fire statistics in the world.

Among all the information collected, investigation of causes is of great relevance, this is a laborious task carried out by specialized teams, essential to adapt actions that will help prevent new wildfires in the future.

Thanks to many people, the fire has been extinguished, it is time to collect some data to know what happened!

TIGADOR DE INCENDIOS

## DATA ANALYSIS, KEY ASPECT

Data collection is organized through a standardized report filled in by the autonomous communities for all wildfires occurring in their territories. More than 150 different data are collected from each wildfire, such as location, working times, causes, type of fire, resources involved, suppression techniques used or estimated losses, among others.

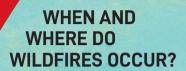
Currently the incorporation and consultation of this data is done in real time via web.





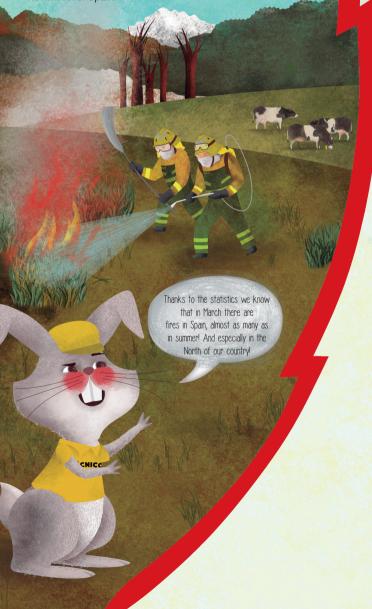
Let's study the information collected to understand what happened, we must prevent these wildfires from happening again!





Data analysis shows that occurrence, typology and wildfires distribution varies widely between territories and throughout the year. This is due to the diversity of climates, ecosystems or rural practices carried out.

The maximum number of fires takes place in August, due to the weather conditions throughout Spain. But in March there is a high incidence too, mainly due to a negligent or intentional use of fire in farming and grazing practices, especially in the Northwest of Spain.





In Spain, wildfires with a natural origin have a very low presence, representing only 5% of the total number of fires. The role of people is of high relevance in the current fire regime as human activities are responsible for the ignition of vegetation in a remarkable way. The most numerous are deliberated fires, representing more than 50% of the total number of wildfires and almost 60% of the affected surface.

Negligence and accidents represent 28% of the total number of wildfires. On the other hand, in more than 12% of wildfires, the cause is unknown.



AGRICULTURAL PRACTICES
AND VEGETATION BURN

LIVESTOCK PRACTICES

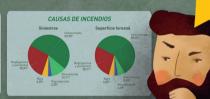
Did you know that most wildfires are caused by human related activities? And in many cases intentionally!



Data analysis is essential to understand the wildfire phenomenon, identify factors which originate them, and design prevention measures to avoid them, reduce their impact or improve their management.

Among other decisions, it has contributed to professionalize organizations, organize spatial and temporal distribution of suppression resources, plan and execute forestry prevention works, or launch specific programs in rural areas.





Ummm, all this information is useful for making decisions to prevent wildfires or help fight them! Let's look for solutions!

TÉCN



TÉCNICO

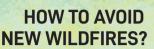


Currently, thousands of professionals work from the ground and the air in Spain to fight wildfires. These human and material resources are distributed and organized based on the large knowledge on the occurrence and typology of wildfires.

For example, in winter and spring resources are deployed mainly in the Northwest, but in summer they are spread all over the country. During the rest of the year prevention works are reinforced in those areas that require it most.

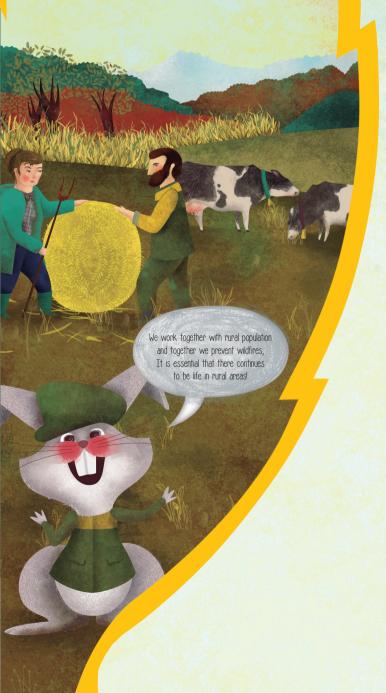


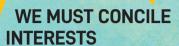
Knowing when a wildfire occurs and how it evolves, we can know which resources to use and where to assign them to extinguish it.



In 1998, Integral Wildfire Prevention Teams (EPRIF) were created in order to work directly with rural population in areas with high occurrence of wildfires related to traditional agricultural practices.

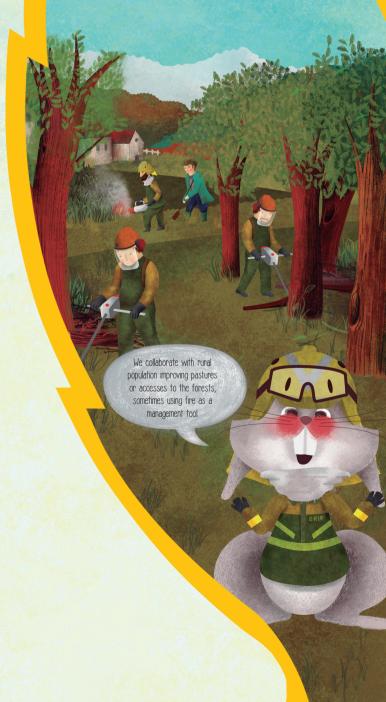
Their aim is to carry out actions to reduce the impact of wildfires and support rural economy, in collaboration with the population and administrations responsible. There are currently 21 teams distributed throughout the national territory.

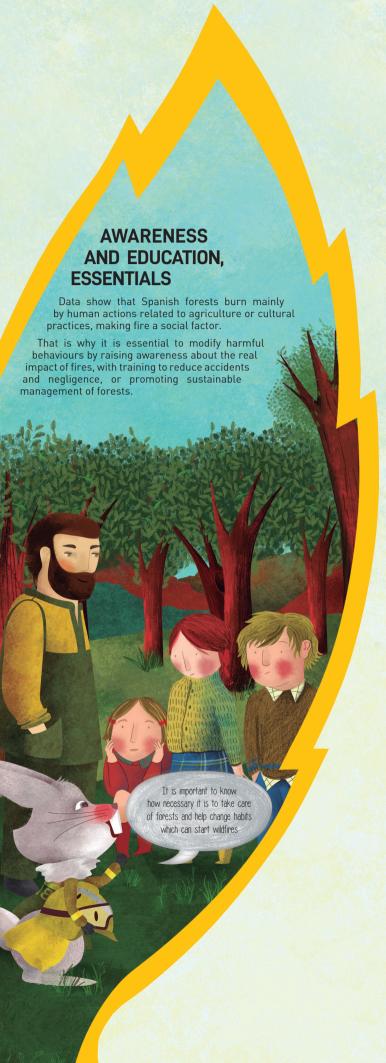


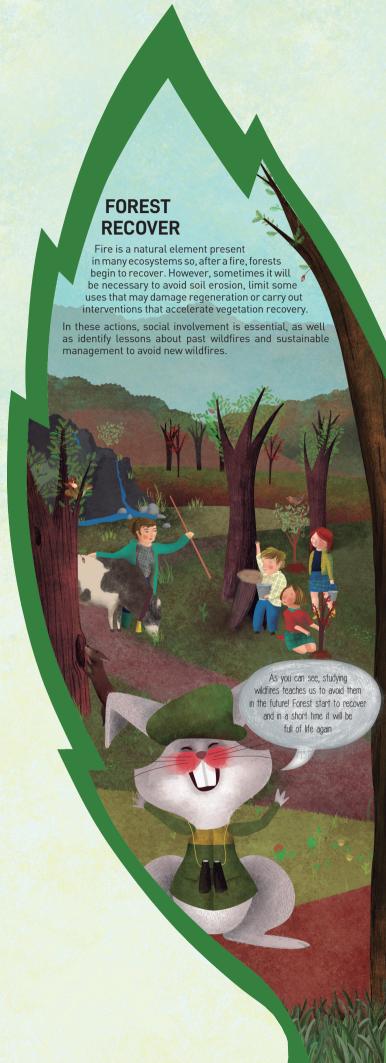


Many wildfires are related to a traditional use of fire. In this context it might be relevant to carry out prescribed burns together with the rural population and administrations, looking for a compatible use and protection of the forest.

Prescribed burns modify vegetation structure to favour pastures, facilitate transit through forests, improve habitats or create protective vegetation discontinuities to wildfires.



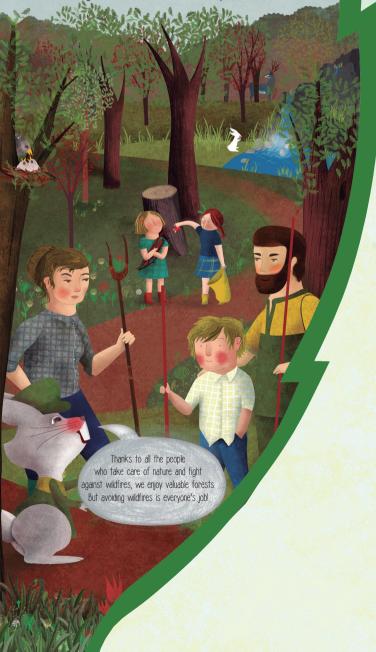






Effective fire management requires a coordinated action between public and private actors, including society. We must joint efforts to prevent wildfire occurrence, manage effectively its propagation and reduce its undesirable consequences.

Remember that your actions can prevent wildfires. If you value services forest provide and use forest products coming from sustainable practices (wood and derivatives, food, resins, honey, among others), you will be contributing to their conservation and to prevent wildfires.





## 2020

Ministry for the Ecological Transition and the Demographic Challenge