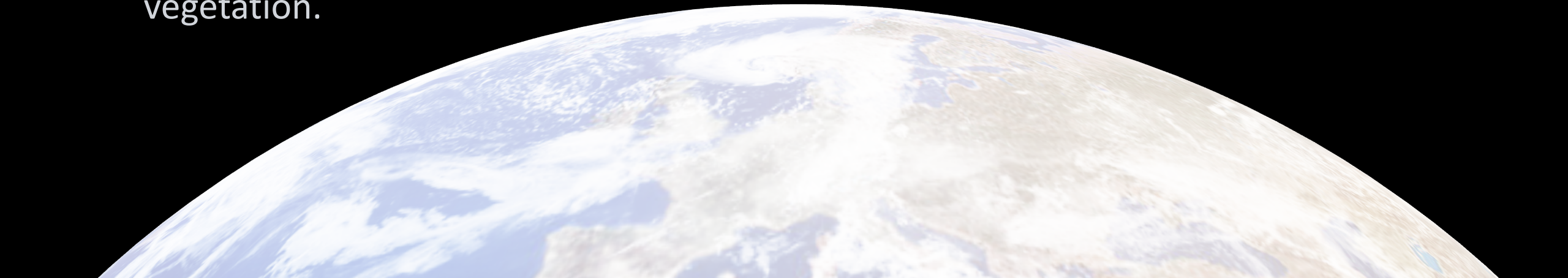
Managing wildfires

Made By Ctrl-Alt-Elite

Why are wildfires bad?

Air Quality: Wildfires produce large amounts of smoke and particulate matter that can degrade air quality over wide areas. This can lead to respiratory problems and exacerbate pre-existing health conditions. People with asthma, for example, may experience worsened symptoms.

Carbon Emissions: The combustion of vegetation during wildfires releases carbon dioxide (CO2) and other greenhouse gases into the atmosphere. This contributes to climate change and global warming. Wildfires can exacerbate the effects of climate change by releasing stored carbon from forests and vegetation.



What are wildfires?

WILDFIRES ARE UNCONTROLLED FIRES THAT RAPIDLY SPREAD THROUGH VEGETATION. THEY CAN BE CAUSED BY NATURAL FACTORS LIKE LIGHTNING OR HUMAN ACTIVITIES. DRY CONDITIONS, HIGH TEMPERATURES, AND STRONG WINDS CONTRIBUTE TO THEIR INTENSITY.

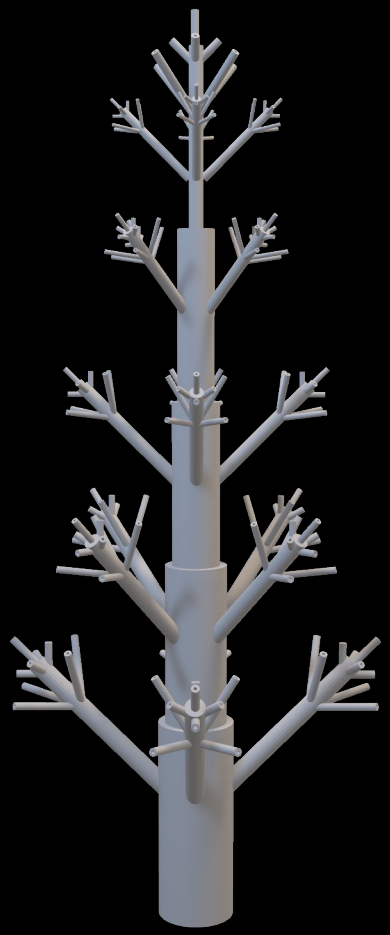
WILDFIRES CAN DEVASTATE ECOSYSTEMS, THREATEN HUMAN COMMUNITIES, AND HARM AIR QUALITY. FIRE MANAGEMENT INCLUDES CONTROLLED BURNS AND FIREFIGHTING EFFORTS. PREVENTION INVOLVES PUBLIC EDUCATION AND REGULATIONS. CLIMATE CHANGE IS INCREASING WILDFIRE RISKS. RECOVERY EFFORTS FOCUS ON ECOSYSTEM AND COMMUNITY RESTORATION

This is our solution:

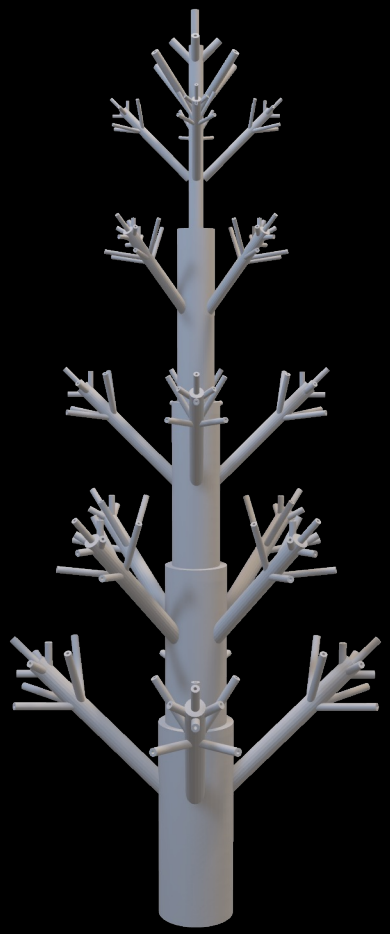
SprinkleTree network

SprinkleTree network

We saw that many trees were burning from wildfires. We need them because they consume carbon dioxide and they filter the air, so we decided to create SprinkleTree. When heat is detected, SprinkleTree will start spinning and spraying water everywhere. The integrated antenna will send a message to the local comunities to report and monitorize fires and improve data distribution.



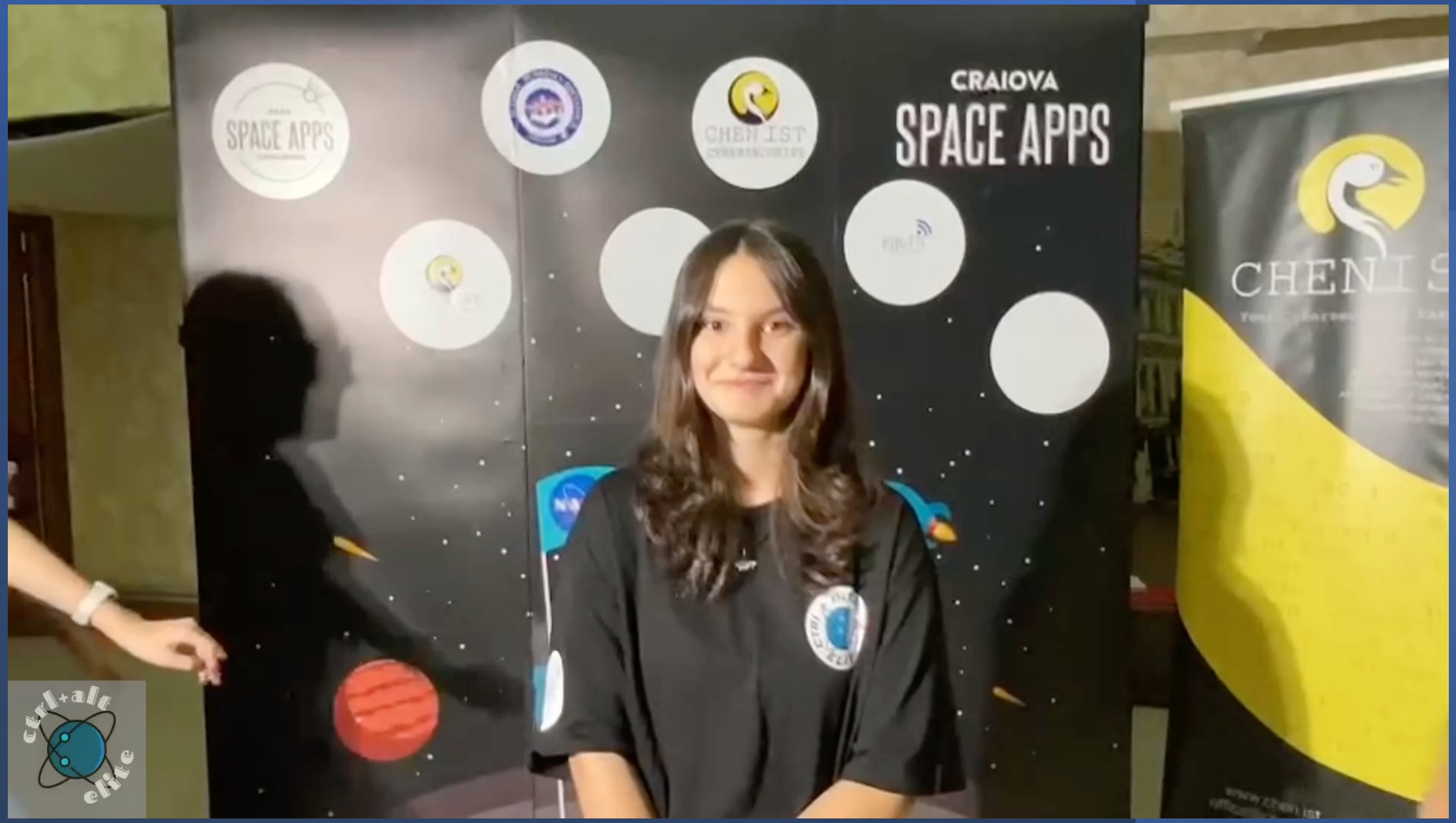
The advanced sensors will distinct campfires from normal fires so that there will be no accidental triggers. SprinkleTree will always be sure if there is an actual wildfire.



This is an antenna, it will send a message to local comunities to monitor and control fires

The sprinklers wil spray water to nearby trees in case of a wildfires

This is one of the many advanced sensors that will detect fires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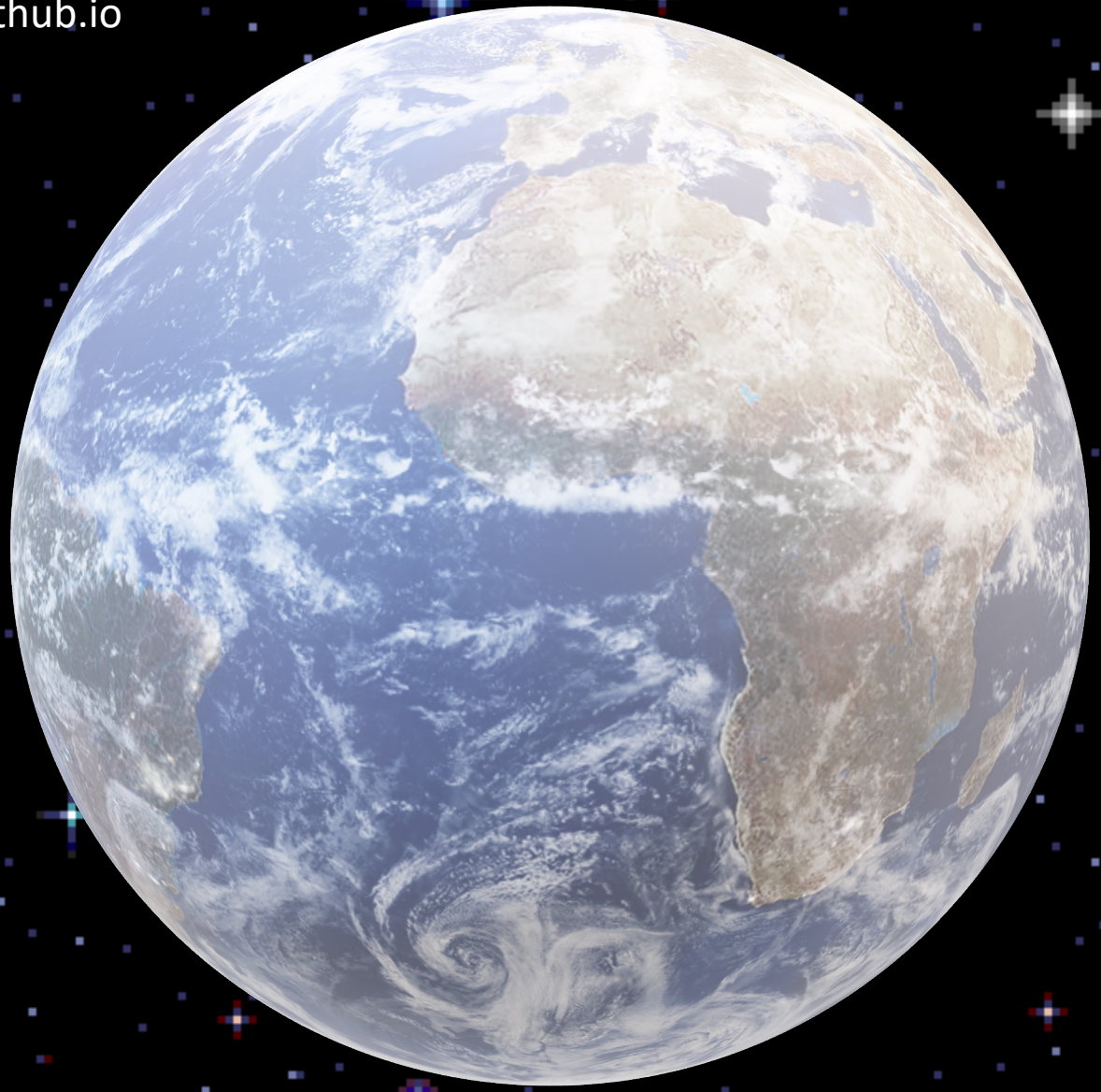
In conclusion:

- SprinkleTree is enviromental friendly
- It helps preventing fires
- It knows how much water to pour so it doesn’t waste any of it
- SprinkleTree will alert everyone in the area thanks to it’s siren and technology
- SprinkleTree will save many trees from getting burned
- It will alert authorities and firefighters in case of a wildfire

THANK YOU FOR THE ATTENTION!

Visit our site: https://990elite.github.io



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