

Ideation Phase
Define the Problem Statements

Date	03 October 2022
Team ID	PNT2022TMID28246
Project Name	Emerging methods for early detection of forest fires
Maximum Marks	4 Marks

Who does the problem affect?	It affects the environment, the people in the surroundings and the flora and fauna in the forest.
What is the issue?	The increasing frequency and severity of wildfires pose a growing threat to biodiversity globally. Individuals, companies and public authorities bear great economic costs due to fires. Fire can be deadly, destroying homes, wildlife habitat and timber, and polluting the air with emissions harmful to human health. Fire also releases carbon dioxide—a key greenhouse gas—into the atmosphere which leads to global warming.
When does the issue occur?	Forest fires are usually seasonal. They usually start in the dry season and can be prevented by adequate precautions. It can also occur due to climatic changes.
Where is the issue coming?	It can be caused due to lightning, human carelessness, arson, volcano eruption, and pyroclastic cloud from active volcano. Heat waves, droughts, and cyclical climate changes can also have a dramatic effect on the risk of wildfires.
Why is it important that we fix the problem?	Forest fires are a major environmental issue, creating economic and ecological damage while endangering human lives. Forests play a very important role in our ecosystems and without forests we would not be able to exist in this world. Thus, it is important to protect forest so that we can continue to exist in this world.