



Problems

- What sensors are suitable for detection of fire?
- . In the case of a fire, is it possible to pinpoint the geographical location?
- · What is the most suitable way to harvest energy in a forest environment?
- · How do you communicate with central servers from an IoTdevice in a forest environment?

Solution

An IoT device based upon brand new technology. Combined with a flagship sensor from Sensirion

Discussion

Even though it is not possible to test every kind of sensor and since there is specific requirements for our applications, a very good candidate was found, the SPS-30 particle sensor from Sensirion. This sensor proved to be able to detect a fire swiftly after the fire being started. Therefor it is possible to say that particle detection using the SPS-30 is a reliable way to detect a fire.

in the particle mass concentration suspended in air.

