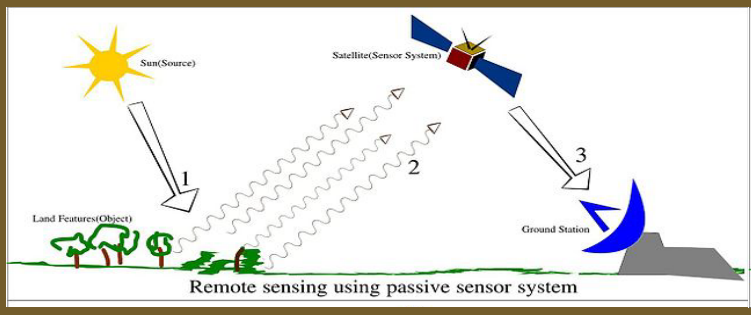
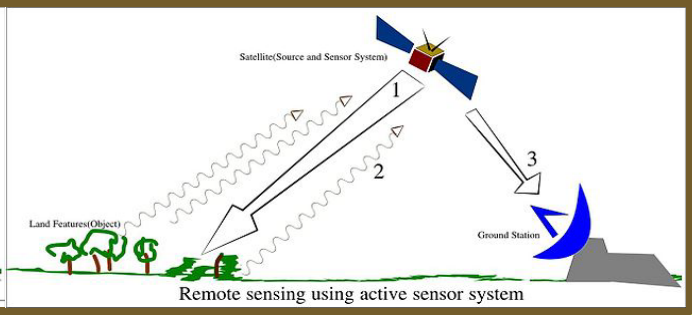
The Applications of Remote Sensing in Plant Health (PHeRS)

05/2017-04/2018



Remote sensing using passive sensor system



Remote sensing using active sensor system

Funding

Non-competitive funding mechanism. Each funder only pays for the participation of their own national researchers. Total funding € 33 000

Goals

This short project aims to explore the benefits and limitations of remote sensing applications in plant health such as pest and pathogen detection, outbreak monitoring, surveillance and host mapping.

Research consortium

CIEHAM (IT), FERA (GB), CREA (IT), APHIS (US), Terrasystem (IT), EC-JRC (Int)

Key outputs and results

In the first phase, the project will bring together key remote sensing experts from across Europe and the US to map and review current work in this area and identify research requirements and gaps. The idea is to forge new working collaborations and build enthusiasm for these new technologies.

In the second phase the project will aim to work collaboratively to advance the research being done to (a) identify host trees remotely and (b) to pin point diseased trees. A UK group has recently demonstrated their ability to identify ash and oak species over a relatively small geographical area. An Italian group developed and is officially applying algorithms for the monitoring of *Citrus tristeza virus* and for the automatic counting of citrus trees.

Contact information

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