The impact of invasive organisms on trees is intensifying globally, facilitated by trade and boosted climatic variations.

The number of invasive species targeting Africa is on the rise.

Emerging pests and diseases of priority trees represent a challenge to the success of agroforestry.

Early detection and management tools ensure the distribution of clean agroforestry germplasm.

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**Hand-out by**
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Phytosanitary Awareness Week
23-27 October 2017, Nairobi, Kenya
Developing health testing protocols and research on emerging diseases

The project aims to ensure distribution of clean agroforestry tree germplasm at the ICRAF Genebank through efficient germplasm health testing protocols, pathogen control measures and compliance to phytosanitary regulations.

Our goal is to develop a germplasm health quality management system (GH-QMS) for ICRAF Genebank, nurseries and field sites by 2020.

The Kenya Forestry Research Institute and ICRAF Germplasm Health Unit are optimizing standards for the detection, isolation and identification of fungi, bacteria, viruses, nematodes and arthropods of economic importance.

The research focuses on emerging biotic threats of high priority tree species including *Adansonia digitata*, *Sclerocarya birrea*, *Grevillea robusta*, *Uapaca kirkiana*, *Mangifera indica*, *Strychnos cocculoides*.

Implementing phytosanitary regulations

ICRAF Genebanks follows the laid out phytosanitary regulations in acquisition and distribution of tree germplasm resources.

At the Headquarter in Nairobi, Kenya Plant Health Inspectorate Service (KEPHIS), as the National Plant Protection Organization (NPPO), is responsible for the application of phytosanitary measures in Kenya in conformity with International Standard for Phytosanitary Measures (ISPM 12).

http://www.kephis.org

Tree germplasm acquisition and distributions at the ICRAF regional Field Genebanks are certified by the respective host country NPPOs.