4. Socio-economics, Policy and Governance (SPG)

The theme focuses on:

- Addressing cross-cutting issues that influence management of forestry and the environment.
- Development of forestry-related policies and legislation (governance).
- Society interests in forests and the environment; forest resource management; valuation and benefit sharing; and markets and trade in forest products for enhanced livelihoods.
- Forest investment profiles and viable forest business schemes for investors to foster increased forest sector investment.

The (SPG) research theme focus on:

- Governance, community and stakeholder interests in forests and associated goods and services
- Contributing to formulation of policies and legislation on management of forestry and the environment
- Research on marketing and trade in forestry products for enhanced livelihoods and wealth creation
- Research on gender related issues and people's interests in forests
- Undertaking total forests and environmental valuation and natural capital accounting to inform policy, and resource allocation to the forest sector
- Research to guide forest investment, trade and sector development.

The theme address the challenges facing forestry through six (6) Programmes:

1. Forest Policy and Legislative Framework
2. Commercial Forestry and Investment
3. Gender and Livelihoods
4. Forest Resource Valuation and Accounting
5. Forest Extension Research
6. Bio-cultural Heritage

5. Forest Research Support Services (FRSS)

The theme contribute to enhanced quality and dissemination of research results by ensuring proper; project formulation, research data management, laboratory standards, knowledge management, and capacity building for stakeholders for sustainable development of forestry and allied natural resources.

Forest Research Support Services occupies the interface between researchers and stakeholders through provision of various services including; dissemination of research findings and knowledge products, research data management, laboratory services, and capacity building of stakeholders in sustainable development of forestry and allied natural resources. Establishment of a specialized forestry training school at postgraduate level will improve the practice of professional forestry. The ICT section is a major enabler to research and development and management of the Institute through internet connectivity, knowledge and data management systems and Enterprise Resource Planning (ERP).

The theme will achieve goals and objectives set out in;

- Biometrics and Geomatics
- Training and Capacity Building
- Knowledge Management
- Information and Communication Technology
- Bio-science Research and Laboratory Coordination
- Artificial Intelligence and Machine Learning
- Space Technologies
- Information Dissemination and Technology Transfer

Where we are

KEFRI research and development activities are implemented in five (5) Eco-region Research Programmes covering all the agro-ecological zones of the country.

Coast Eco-region Research Programme **(CERP)**, Drylands Eco-region Research Programme **(DERP)**, Central Highlands Eco-region Research Programme **(CHERP)**, Rift Valley Eco-region Research Programme **(RVERP)** and Lake Victoria Eco-region Research Programme **(LVERP)**, and one National Forest Products Research Programme **(NFPRP).**

These Eco-regional Research Programmes have their head office in Gede, Kitui, Muguga, Londiani, Maseno and Karura respectively. KEFRI headquarters is situated at Muguga.

KEFRI CENTRES

Key:
- ▢ Eco-region Forestry Research Programmes
- ● Sub Centres
- △ Field Centres
- ◌ Seed Collection Centre

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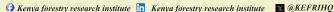*All communications to be addressed to the Director, KEFRI*

KENYA FORESTRY RESEARCH INSTITUTE (KEFRI)

PROFILE

Website:www.kefri.org

KEFRI is ISO 9001:2015 and ISO 14001:2015 certified

Kenya forestry research institute   Kenya forestry research institute   @KEFRIHQ

Who we are

KEFRI is a state agency established in 1986, under the Science and Technology Act (cap 250) of the Laws of Kenya. The Act has since been repealed by the Science, Technology and Innovation (STI) Act No. 28 of 2013.

The Institute provides leadership in finding solutions to forestry and environmental challenges. This is achieved through collaboration with stakeholders within the country as well as at regional and global levels. In implementing its 7th Strategic Plan 2022-2027, KEFRI is guided by:

Mandate

i. Conduct research and development in forestry and allied natural resources;
ii Disseminate research findings;
iii. Build capacity of stakeholders in forestry and allied natural resources; and
iv. Establish partnerships and cooperate with other research organizations and institutions of higher learning in joint research and training.

Vision

A research center of excellence in forestry and allied natural resources research for sustainable development

Mission

To conduct research in forestry and allied natural resources for sustainable development through innovations, capacity building, and technology transfer

Core Values

The Institute's core values which will guide implementation of the 7th Strategic Plan are:

- **Excellence:** Committed to high standards of professionalism
- **Creativity and Innovation:** Promote, support and implement new ideas, methods and products
- **Teamwork:** Build cordial working relations and team spirit
- **Integrity:** Uphold honesty, high moral standards and intolerance to corruption
- **Inclusivity:** Equal access to opportunities and resources
- **Networking:** Strive to attain sustainable networks and partnerships
- **Customer Focus:** Oriented to customer needs and satisfaction

Strategic Goals

Goal 1: Develop forestry technologies to contribute towards achieving and maintaining 30% tree cover by 2032
Goal 2: Improve household livelihoods through forestry based solutions

Strategic Themes

KEFRI conducts its research based on the following themes:

1. Forest Productivity, Health, and Improvement (FPHTI)

The theme focuses on:

1. Research in tree breeding and improvement, biotechnology, conservation of forest genetic resources; and production of high quality tree germplasm and tree seed. The proposed interventions aim at expanding seed sources, improving protection and management of seed sources, intensifying seed production and distribution, and quality assurance of tree germplasm and tree seed.
2. Generating technologies for establishment of plantations, and sustainable management of forests.
3. Agroforestry and integration of high value trees on farms including fruit trees.
4. Research and advisory services for; control of forest pests, tree diseases and forest fires.

The theme is structured into seven (7) Research Programmes:

- Forest Germplasm and Tree Seed Production
- Tree Seed Technology and Quality Assurance
- Forest Biotechnology, Tree breeding and Improvement
- Tree Seedling Establishment and Nursery Technologies
- Sivilculture of Forest Plantations and Forest Resource Assessment
- Forest health and Forest Fire Technologies
- Agroforestry and Farm Forestry

2. Forest Biodiversity, Climate Change and Environment Management (FBCCEM)

The theme focuses on:

1. Development of technologies for improved natural forest management and landscape restoration.
2. Research on rehabilitation, sustainable conservation, management and utilization of forests in water towers, wetlands and riparian ecosystems.
3. Development of technologies and information for mitigation and adaptation to climate change; conservation, restoration and sustainable use of terrestrial, inland freshwater ecosystems and their services.

The theme will address challenges facing forestry through the following Programmes:

- Natural forest and biodiversity conservation
- Mangrove conservation and restoration
- Wetlands and watershed conservation
- Bamboo research and development
- Climate change mitigation and adaptation
- Arid and semi-arid lands (ASALs)
- Nature based solutions interventions in forests and woodlands
- Invasive plant species management
- Endangered and species of national interest
- Pollution control and rehabilitation of polluted lands

3. Forest Products and Entrepreneurship Development (FPED)

The theme focuses on:

- Development and promotion of efficient technologies for wood and non-wood products
- Harvesting, processing and utilization of forest and allied natural resources for improved livelihoods and sustainable forest management.
- Evaluation of new methods of using wood in construction, engineering and reconstitution of wood, bio-materials, bio-chemicals, bio-plastics, energy products and food additives.
- Application in national security through the implementation of forest forensics and advisory services.

The theme will address challenges facing wood resources and non-wood forest products through the seven (7) following research programmes:

- Timber processing and utilization
- Bamboo processing, utilization and industry development
- Bio-energy technology development
- Bio-prospecting and forest based product development
- Products and technologies incubation
- Gums and Resins development
- Forest based entrepreneurship and MSMEs development