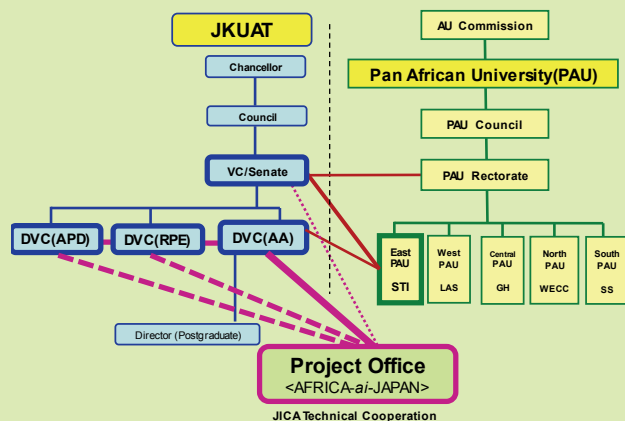


## Project Management Team

### The Project and JKUAT/PAU Organization Chart



- ◆ Project Director- Deputy Vice Chancellor (AA)
  - ◆ Project Manager- Chairman, Innovation Task Force
  - ◆ Task Force Members:
    - Representatives from Agriculture, Engineering, Science, PAUSTI, RPE division, APD division, Some young researchers and all JICA experts.
- There are also 4 Sub Task Forces formed with members drawn from the Main Task Force. They include;
- ◆ Innovation and Prototyping Integrated Centre (iPIC)
  - ◆ Innovation Center for Bio-resources (iCB)
  - ◆ Innovation Center for Molecular Biology and Bio-chemistry (iCMoB)
  - ◆ Public Relations for African Innovation



## Partners:



AUC: African Union Commission  
PAU: Pan African University  
PAUSTI: PAU of Basic Sciences, Technology and Innovation



JKUAT: Jomo Kenyatta University of Agriculture & Technology



JICA: Japan International Cooperation Agency



### For General Enquiries, Please Contact:

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P.O. Box 62000-00200 Nairobi, Kenya

2nd Floor Engineering Laboratory Building (ELB 213)

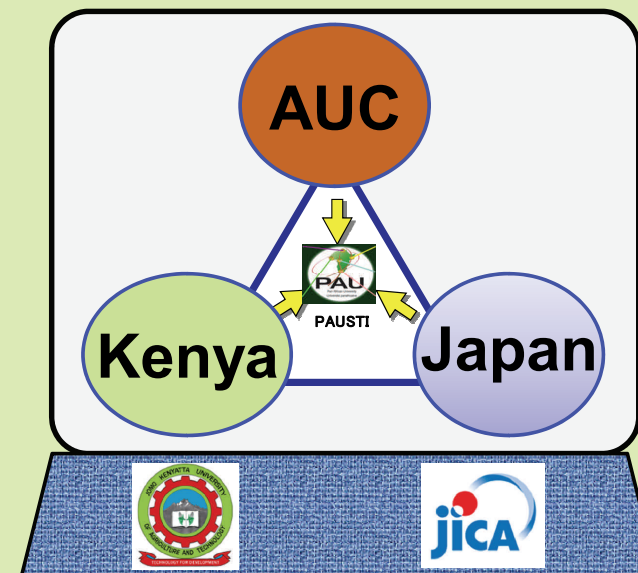
Email: [jicapausti@jkuat.ac.ke](mailto:jicapausti@jkuat.ac.ke)

### Project Location:



## AFRICA-ai- JAPAN Project

Africa Union-*african innovation* - JKUAT AND PAUSTI Network Project



JICA Technical Cooperation

2014

## Introduction

The “AFRICA-ai-JAPAN” project is a joint initiative involving Jomo Kenyatta University of Agriculture & Technology (JKUAT), Pan African University of Basic Sciences, Technology and Innovation (PAUSTI) and Japan International Cooperation Agency (JICA). This project will strengthen the knowledge and skills in the fields of agriculture, engineering science and biotechnology of both PAUSTI and JKUAT students. This is unique since it promotes the full utilization of local/indigenous knowledge, resources, experiences and wisdom generated and accumulated in Africa to solve Africa’s problems.



The Project Office



## Objectives

- i) To promote indigenous knowledge and wisdom in driving African Innovations (ai).
- ii) To strengthen the knowledge and skills of PAUSTI/JKUAT students to actualize their innovative ideas.
- iii) To encourage innovation vitality in collaboration with industry across Africa.

## Project Concepts

The **Africa-ai-Japan** project concept is based on the 5S-KAIZEN philosophy of continuous improvement, MONO-ZUKURI principle which embodies the spirit, art, science and craft of making excellent products through continuous improvement of systems, and innovation approach such as System x Design Thinking. PAUSTI/JKUAT students are expected to develop innovative products by infusing these principles in their research activities.

## Project Activities

The proposed activities will be under the following centers:

### 1. Innovation and Prototyping Integrated Centre (iPIC)

The Innovation and Prototyping Integrated Centre will be centrally located at Engineering Workshops building. The Centre will host modern state-of-the art facilities that provide machinery and advanced prototyping platform for innovation, invention and education. The cross-cutting nature of technologies, innovations and activities at the centre lends itself to basic science, engineering and technology education. It is envisaged that the centre will provide a stimulus for entrepreneurship, mentorship and scholarship driven with acquired knowledge, resources, experiences and wisdom. The centre will be equipped with an array of flexible computer controlled tools and machinery for use in designing and fabricating technologically advanced products generally perceived as limited to mass production.

### 2. Innovation Centre for Bio-resources (iCB)

The Center for Bio-resources to be located besides the Research, Production and Extension (RPE) building shall aim at innovations that address crop production challenges. Appropriate technologies like greenhouse and biotechnology techniques shall be used to solve production constraints. In the short term the Center will focus on low cost technologies in tomato production such as: 1. Grafting for disease resistance to solve crop production challenges, 2. Capillary Wick System that facilitates re-use of media and saves on water consumption. The Centre will also help spur research in bio-resources through provision of modern research infrastructure to staff/students from both JKUAT and PAUSTI. Collaboration will also be done with industry/farmers for uptake and dissemination of research results to improve livelihoods.

### 3. Innovation Centre for Molecular Biology and Biochemistry (iCMoB)

The activities undertaken at the centre will be aimed at understanding the molecular basis of biological activity in organisms (micro-organisms, human, animals and plants) to enhance the development of innovative solutions to meet human needs. The centre will be used by staff and students of JKUAT and PAUSTI to provide solutions and bio-products in areas of health, environment and agriculture. The centre will be an innovation hub for development of vaccines, diagnostics and therapeutics, besides hosting state of art technologies to carry out tissue culture and value addition technique. The centre will also offer short term training courses to students within the region.

## Collaborations

The AFRICA-ai-JAPAN project encourages university collaboration with key stakeholders in the public and private sectors. The project intends to strengthen the creativity towards innovation for PAUSTI and JKUAT students together with staff. The Project innovation process will be based on a R-3D approach: Research (R), Development (D), Demonstration (D) and Dissemination (D) model. The university will lead the innovation process from the research stage to the prototype stage. For commercialization, the universities will need to collaborate with suitable industry.

