



Advancing the Quest for Local Assembly of ICT Devices with TAIFA: Technology Inspiring Africa

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TAIFA Laptop Project

TAIFA LAPTOP PROJECT (TLP)

TRANSFORMING KENYAN EDUCATION
FOR 21ST CENTURY LEARNING:
CREATING DIGITAL LEARNING

A Project Concept Developed by

Jomo Kenyatta University of Agriculture and Technology



ICT Integration Solution Concept

- JKUAT, working with public/private industry partners in 2013, conceptualized six pillars towards an end-to-end solution for ICT integration in education:
 - policy and strategy;
 - hardware, software and applications;
 - curriculum, e-content and e-books;
 - training and capacity building;
 - technical support and connectivity and
 - e-waste management



Hardware Solution...

- JKUAT began assembling desktop computers in 2006, the E-MADO brand, in partnership with Ministry of Industrialization and other public/private partners.
- This is a Kenya Vision 2030 flagship project under JKUAT.
- JKUAT assembled 1200 desktop computers under a taxation regime that favored imported computers than locally assembled – and stopped assembling in 2010.
- The University recalibrated and began pursuing the one laptop per child (OLPC) model of MIT in the USA.
- The model received a major boost from the pursuit of laptops for schools project in 2013.



...Hardware Solution...

- JKUAT has designed a medium and scalable assembly line and set aside land under its Industrial Park for its construction.
- The assembly plant is designed with a capacity of 4500 units per day.
- JKUAT developed a blueprint for the project and bid twice in 2013.
- JKUAT aims at producing for her students/staff needs, needs in higher education and supporting the ICT integration in education project.
- JKUAT launched her laptops for students project in October 2013.



...Hardware Solution

- JKUAT has remained steadfast in the pursuit of the local assembly of electronics.
- **The University has pursued the dream and now has begun assembling laptops – the TAIFA Brand Laptop.**
- The **University has done 4000** units for the JKUAT Students Laptop Project.
- The TAIFA Laptops are available for university students, staff and other higher education stakeholders.

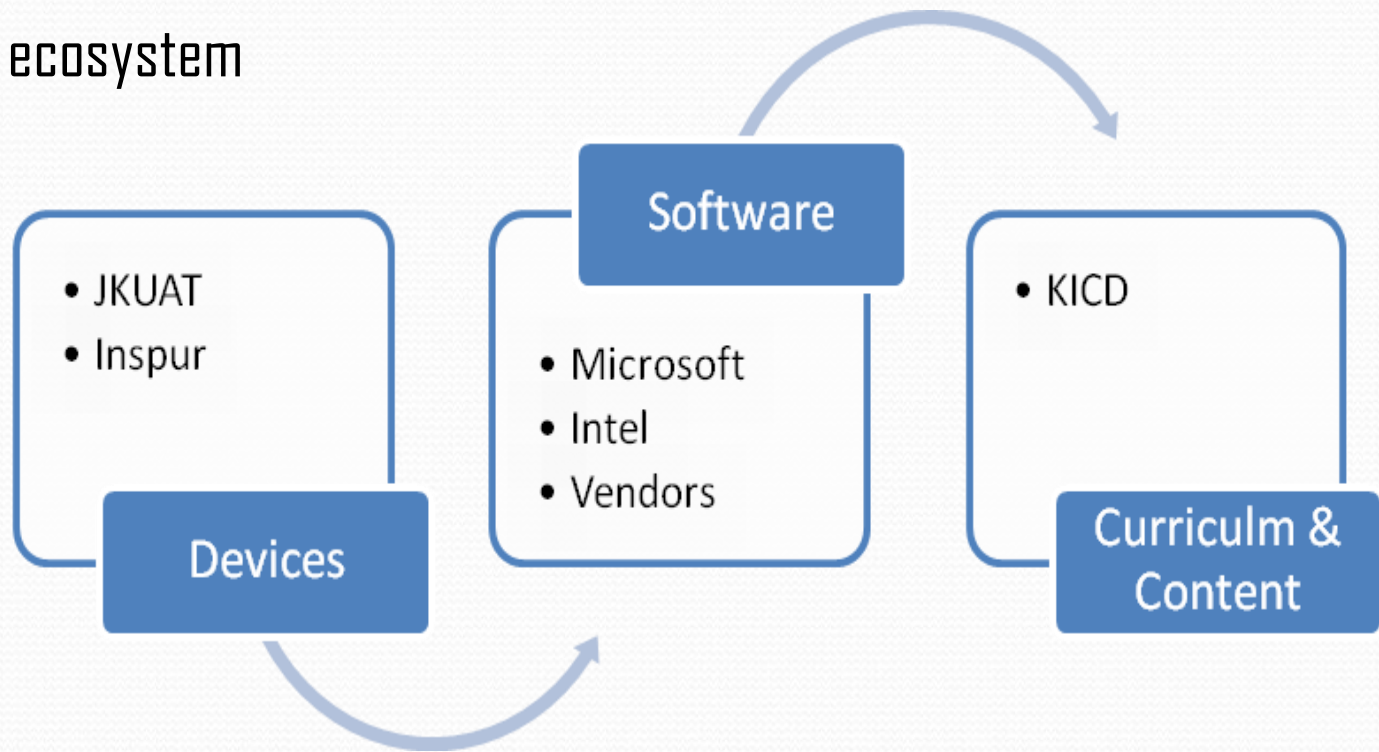


The TAIFA Laptop Brand



Solution for Schools

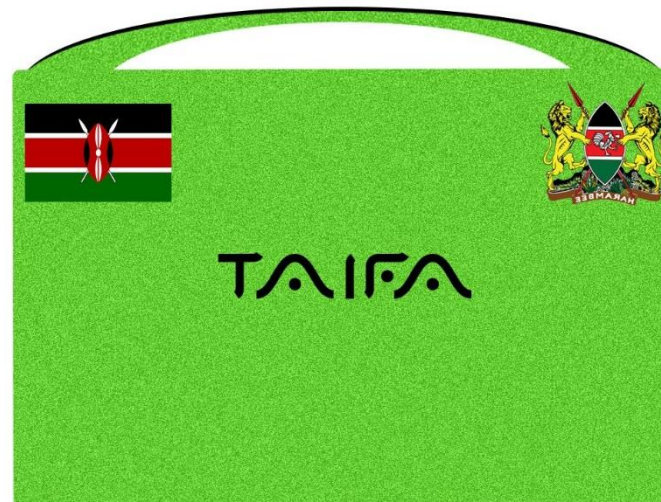
- Solution = Device + Software + Content
- With overall ecosystem



Upcoming TAIFA Laptop Brand

- TAIFA Junior – to serve Government of Kenya's Laptops for Schools Project
- TAIFA HPC
- TAIFA Access Port

Closed: View from top



Handle

Impact – Local Assembly & Production

- 4000 TAIFA Laptops are already available for university students, staff , other universities and distributorships in partnership with Inspur & GDL.
- JKUAT has already procured an assembly line expected to be installed in March 2015.
- The assembly line will have the capacity to produce a total of 4,500 per day - that is 94,500 laptops per month – translating to a delivery of 2,010 laptops per county per month.
- At an average of 100 pupils in class one this means we can supply up to 21 schools per county per month.



Impact – Jobs & Wealth Creation

- The overall job potential from the local assembling is as follows:

Source	Direct Jobs	Indirect Jobs	Total
Computer assembly factory	1,000	3,000	4,000
Curriculum and e-content development	450	1,350	1,800
Computer distribution system	100	500	600
Capacity building	300	800	1,100
Computer maintenance and service	900	3,000	3,900
E-waste management	300	900	1,200
Total	3,050	9,550	12,600



Impact of the Solution – Manufacturing & National Pride

- Commencement of local assembling is part of a wider vision under the Kenya Vision 2030 – *that's building capacity for full-scale local production and manufacturing of electronics in Kenya by the year 2030.*
- TAIFA Brand Laptop – a laptop assembled in Kenya – *in the mold of "Buy Kenya, Build Kenya" eventually "Make Kenya, Build Kenya".*
- TAIFA Brand Laptop carries an element of identity:
 - For all local and global market TAIFA is the primary brand;
 - For all Kenya we have TAIFA, the national flag and the client's brand;
 - For other nations and institutions TAIFA, the nation's flag and client's brand.



Recommendations

- The ICT integration in education is a transformative project which will:
 - Prepare our children with 21st Century skills – stimulate their creative and innovative minds,
 - Facilitate creation of jobs and wealth through device assembly, software development, training and capacity building, support and maintenance, e-waste management among other related activities.
- Achieving this requires, among others:
 - Supporting local assembly (device assembly, support and maintenance),
 - Supportive tax regime and incentives (for device assembly and parts for repairs and maintenance).





*Local assembling of ICT Devices is Vital for Economic Growth
– hence the passion for TAIFA: Technology Inspiring Africa*

Thank you

