

Entrepreneurship: Enabling Manufacturing Capability



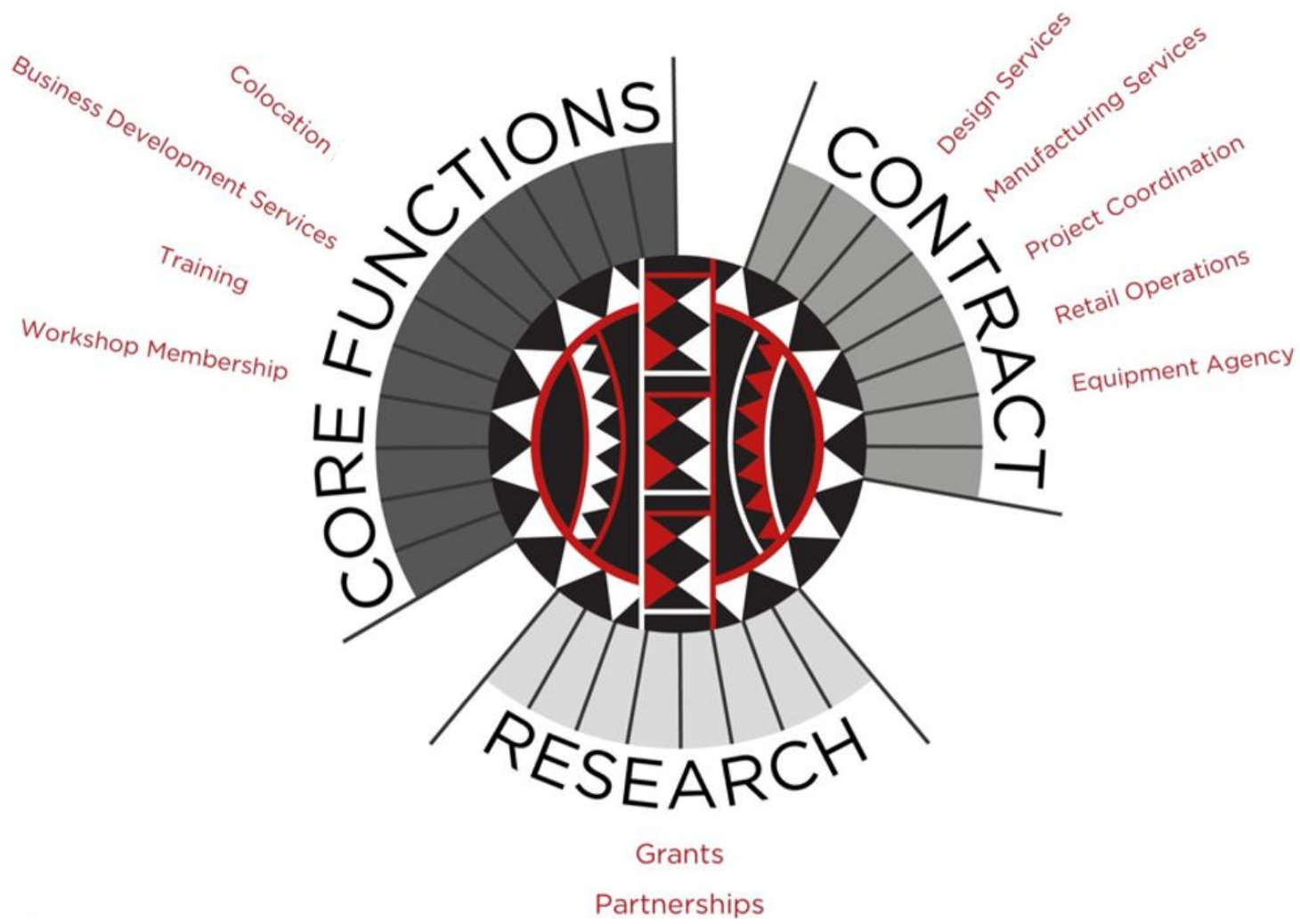
Kamau Gachigi, Ph.D.
BILT Conference, 2021



Gearbox

BUILDING THINGS THAT MATTER

Our Competencies



Gearbox Academy



Welding simulator using Augmented Reality

Targeted demographics:

1. Engineering students (Uni/TVET)
2. Working engineers
3. High school students *
4. Informal sector artisans*
5. Non-engineers with university education*
6. Actual and Aspiring Business practitioners*

* **makers in the making**



Training using Virtual Reality

Courses:

1. Embedded Systems design
2. Digital Design and Fabrication
3. AI and Machine Learning
4. Workshop Technologies

Human Centred Design and Entrepreneurship

Courses cont'd:

5. Block chain applications
6. Robotics
7. Industrial IoT
8. Workshop Technologies

are compulsory units

CAD/CAM:

- Gearbox is now East Africa's only **Autodesk Authorised Training & Certification Center (ATC)** that specializes in **Manufacturing**.
- Gearbox is also Dassault Systems partner in showcasing how digital transformation can aid product development.

Young Africa Works (Y.A.W.)

A partnership with The Mastercard Foundation & Kenya Commercial Bank Foundation



Target - 1.5.million jobs over 5 years

Greenhouses target: 28,000 over 5 years (USD 120 million)

10 satellite manufacturing centres across Kenya (USD 2.6million)

Trained to date (Year 1) : 2,820

Jobs to created date: 3,861

MachineANI Products

GREENHOUSE LINE

Size: 8*15



BALCONY GARDEN

MACHINE AFRICA
NETWORK OF INDUSTRIES



HARDWARE LINE



0720750754

info@machineafrica.co.ke

www.machineafrica.co.ke

HOSPITAL LINE



FURNITURE LINE



Shaping the Future of Production

Global Future Council on Advanced Manufacturing and Production



Figure 1: Readiness Diagnostic Model Framework





Margrethe Vestager

Executive VP European Commission

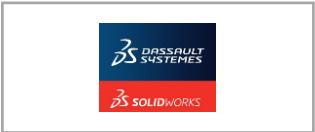
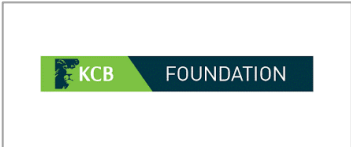
Europe Fit for the Digital Age



Mark Zuckerberg

CEO of Facebook

Thank you!



Tony Blair

Former Prime Minister of the U.K.



H.E. Uhuru Kenyatta

President of the Republic of Kenya