Entrepreneurship: Enabling Manufacturing Capability

Gearbox
BUILDING THINGS THAT MATTER

MACHINE AFRICA
NETWORK OF INDUSTRIES

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Our Competencies
Gearbox Academy

**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

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

Courses cont’d:
5. Blockchain applications
6. Robotics
7. Industrial IoT
8. Workshop Technologies

Human Centred Design and Entrepreneurship

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 2.6 million)

Trained to date (Year 1) : 2,820

Jobs created to date: 3,861
MachineANI Products

GREENHOUSE LINE
Size: 8'x15'

HARDWARE LINE

FURNITURE LINE

HOSPITAL LINE
Figure 1: Readiness Diagnostic Model Framework

Future of Production Capabilities

Structure of Production
- Complexity
- Scale

Drivers of Production
- Technology & Innovation
- Human Capital
- Global Trade & Investment
- Institutional Framework
- Sustainable Resources
- Demand Environment