



GHANATECHLAB

DIGITAL PLATFORMS & MANUFACTURING FOR DEVELOPMENT

Outline:

1. About Ghana Tech Lab (GTL)
2. GTL's Digital & Manufacturing Platform
3. Examples of successfully leverage platforms for development
4. Framework conditions & policies for support & sustainability



About GTL

An ecosystem hub for Promoting competent digital skills training, Seeding innovations, Growing startups for a digital economy and transformation in Ghana.



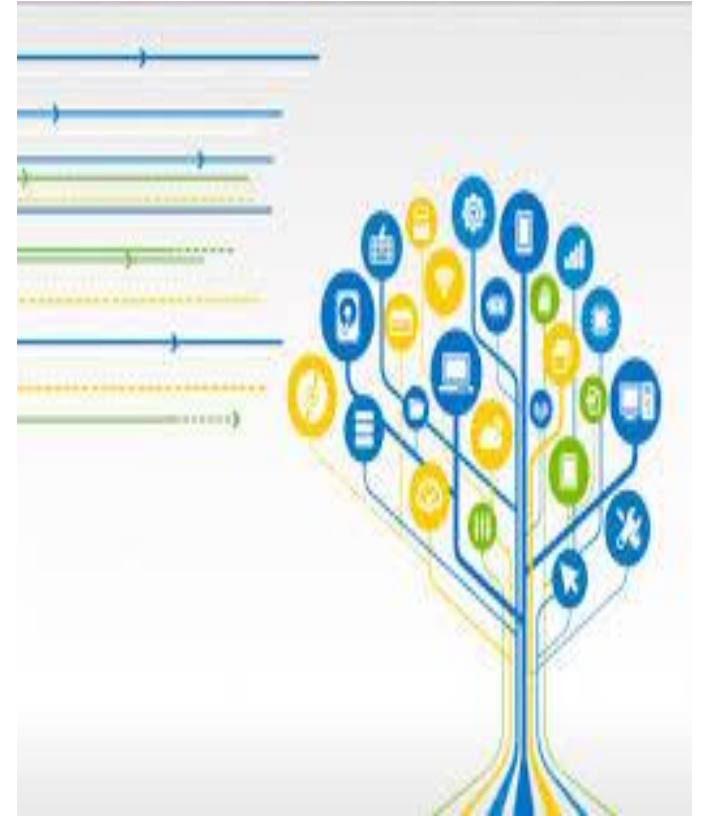
Digital Skills Training
Provide competent digital training that impels the creation of highly skilled digital workforce / Human capital.



Seeding Innovations
Providing early stage investments for promising Startups in Africa.



Growing Startups
Providing a fertile farm for innovative promising Startups in Africa to grow.



GTL'S DIGITAL MANUFACTURING PLATFORM

The **GTL Digital Manufacturing Platform**, otherwise known as the **Makerspace** leverages on a number of digital tools & equipments;

1. 3D Printers
2. Laser Cutters
3. Motherboards & Circuit Board Printers
4. Filament Recycler
5. Robots

Some of the innovations that have come out of the platform include:

1. Ventilators
2. ICU Beds
3. Face shields
4. Thermometer Guns
5. Vehicle Controls
6. 3D Prototypes
7. Respirators
8. Green Housing Technology Platform
9. Etc



EXAMPLES OF SUCCESSFULLY LEVERAGED PLATFORMS FOR DEVELOPMENT



Makers Assemble (Engagement between GTL & GIZ)

Production of innovations to help fight the spread of COVID-19 in Ghana. Over 8,000 innovations were produced across Ventilators, Respirators, ICU Beds etc and distributed for about 50 hospitals.

Israel Embassy

Production of 2,000 innovations during lockdown period for the Ministry of Health as a way to support fight against COVID.

Robotics & Arduino Build Up

Our platform was leveraged to train a total of 120 entrepreneurs in the Arduino, Robotics & IoT space. For some of these entrepreneurs, this was the first time they came into contact with sophisticated platforms they had read about.

Other Institutions like:

- Kumasi Hive's Makerspace Platform
- Design & Technology Institute

FRAMEWORK CONDITIONS & POLICIES FOR SUPPORT & SUSTAINABILITY



- Developing curriculum from Digital Platforms & Manufacturing for Development and making it a core requirement at the primary levels of education.
- Proving/Supporting learning institutions in the area of Digital Platforms & Manufacturing such as Ghana Tech Lab, Design & Technology Institute (DTI): Subsidies, Grants, Certifications etc.
- Launching funds and investing in startups that develop digital platforms & manufacturing for development.
- Formulating policies that enhance advocacy and awareness in digital platforms & manufacturing for development
- Benchmarking countries that have developed immensely by way of leveraging on digital platforms & manufacturing technologies for development