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# The Logic of Emerging Technological Solutions as Vocational Skills

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## Who am I & Why am I here today?

Young Professional on Social Innovation.

### **Social Entrepreneur:**

Co-founder and Business Developer Manager of Hands for Hope social enterprise.

### **Social Innovator:**

Designing and implementing social initiatives in response to a local community needs.

### **Consultant:**

Working with impact-driven organizations on growing their activities and scaling their impact.

### **Volunteer:**

GIST Program officer with EL Space  
Advisory board member with Kipchumba Foundation.

# What am I sharing with you today:

## Understanding the context:

- How to define vocational skills?
- Why there is a need to vocational skills?
- How to define emerging technological solutions?

## Importance of Emerging Technological solutions

- 1) as today's "Must-Have" Vocational Skills
- 2) as an enabler for acquiring other Vocational Skills



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# What am I sharing with you today:

## Getting inspired: Examples from Tunisia

- 1) 3D Machines Technology, FabLabs.
- 2) Virtual Reality Technology, Honoris Medical Simulation Center

## Opportunities in Africa

Using innovation to make technology in the service of vocational learning.

## Takeaways and Reflections



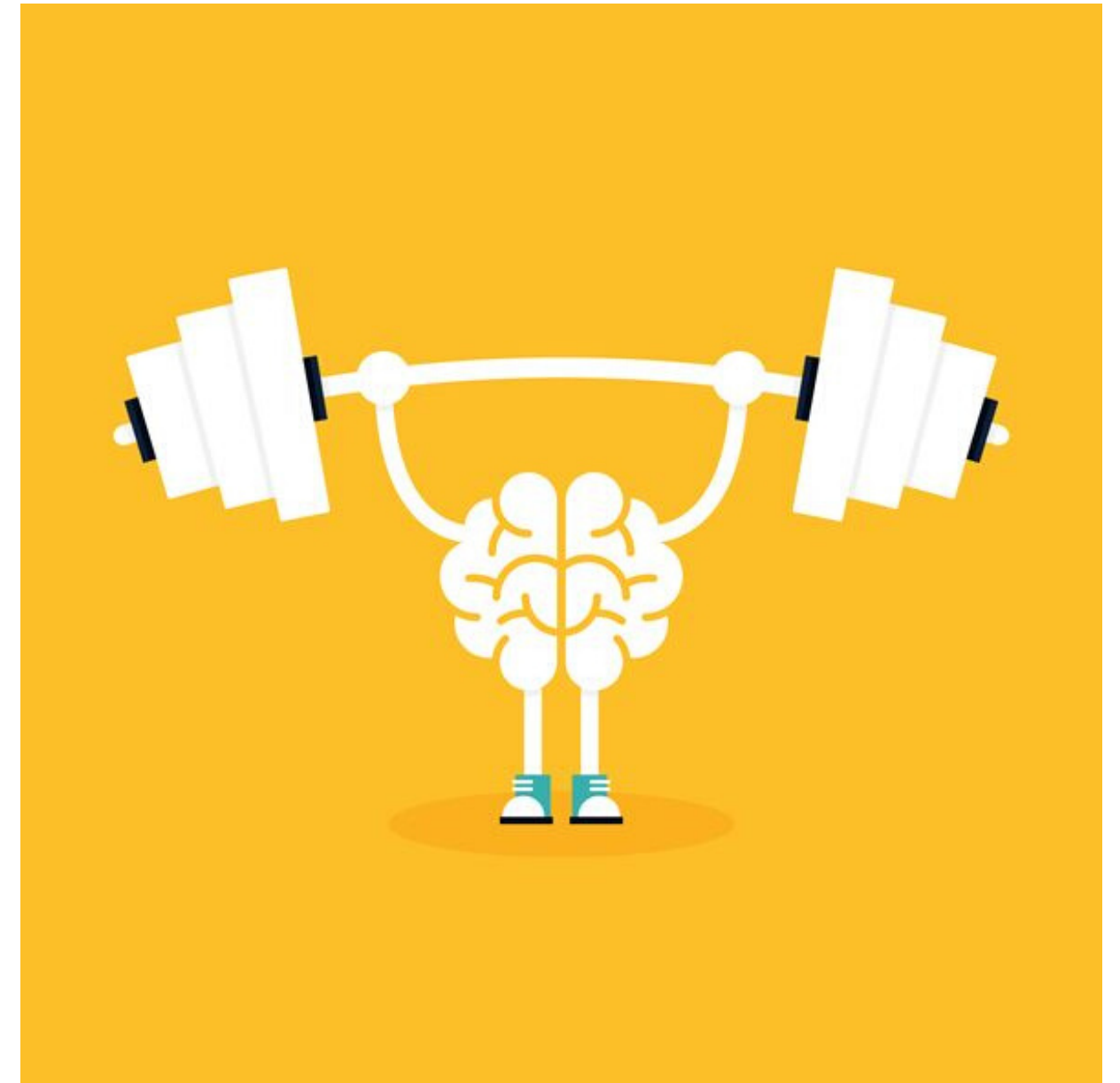
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## UNDERSTANDING THE CONCEPT:

# Vocational skills

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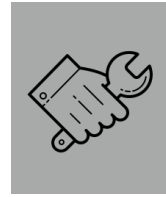
**Practical** skills that help a person master a job.





## UNDERSTANDING THE CONCEPT:

# Vocational Skills are no longer a "Plus", they are a "Must"



### Gap Between Academic Skills and Work Requirements

Leads to a higher unemployment rate



### World is more Globalized than ever before

Vocational Skills are applied all over the world.



### The World needs Faster Actions

Things change so fast and most of the learning happens through practice.



### Reducing Errors and Improving Work

Today, professional mistakes can cost lives and millions of dollars.



## UNDERSTANDING THE CONCEPT:

# Emerging technological solutions

Technologies whose development, **practical** applications, or both are still largely unrealized. They are often perceived as capable of changing the status quo.



# Importance of Emerging Technological Solutions

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AS TODAY'S "MUST-HAVE" VOCATIONAL SKILLS



# EMERGING TECHNOLOGICAL SOLUTIONS ARE VOCATIONAL SKILLS

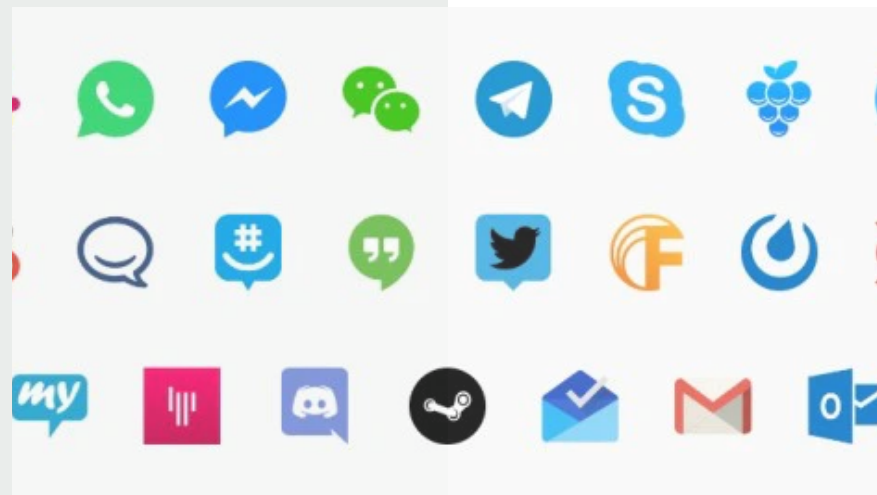


**Technology is taking the lead in all aspects of our lives**

If you do not know how to use technology, you will be left behind.

**Technology is improving work place productivity**

Workers who use emerging technologies are more productive and efficient than ever before



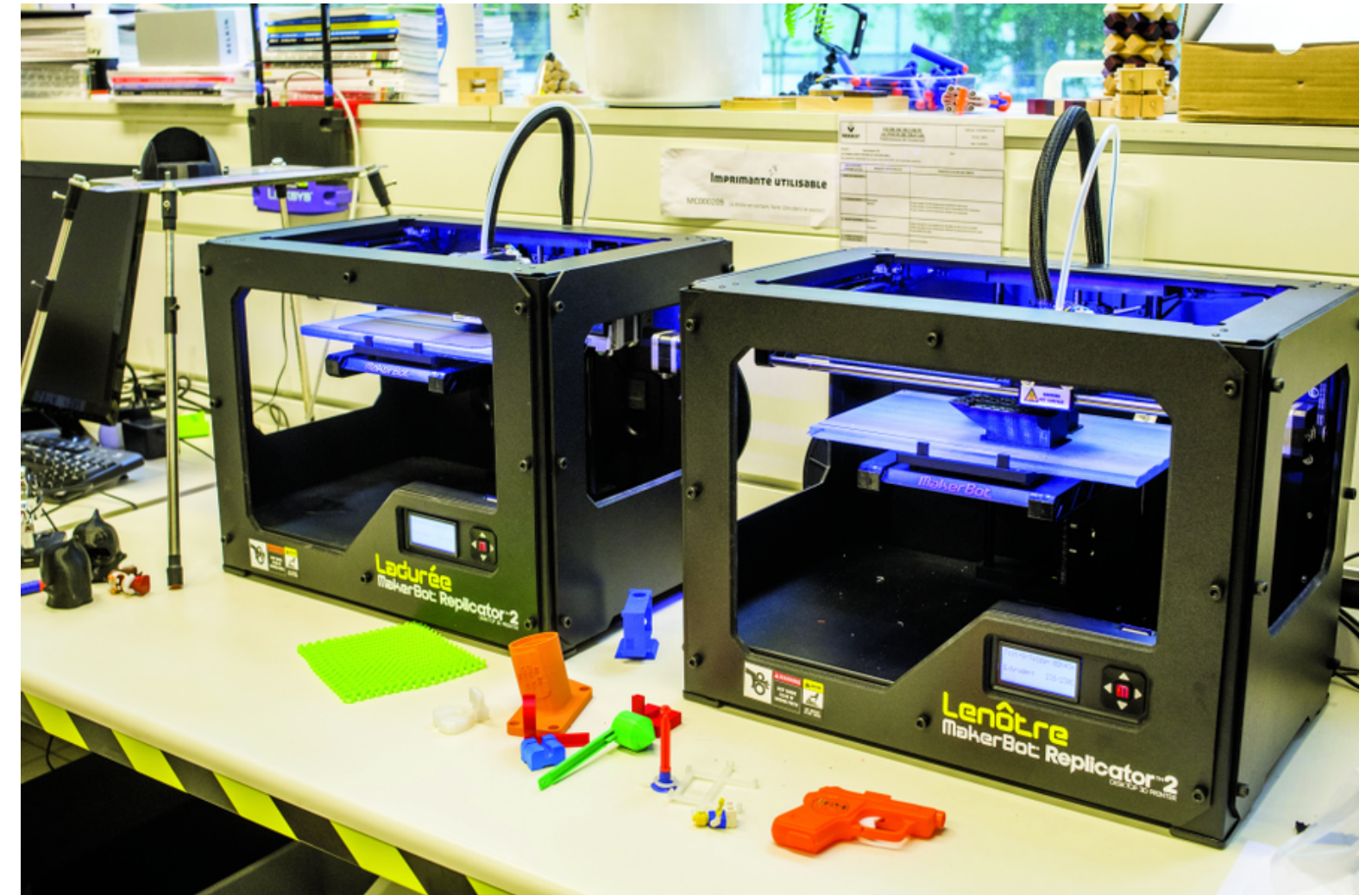
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## Examples from Tunisia: EMERGING TECHNOLOGICAL SOLUTIONS AS VOCATIONAL SKILLS

# 3D Technology- FabLabs

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During in the last 3 years, Tunisia has witnessed a boom in the number of Co-making spaces ad Fablabs. These physical spaces provide emerging technological solutions like 3D printing machines, Laser cutter machines, electornics... that are used by different actors: students, entrepreneurs, makers....



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# Importance of Emerging Technological Solutions

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AN ENABLER FOR ACQUIRING OTHER  
VOCATIONAL SKILLS

# EMERGING TECHNOLOGICAL SOLUTIONS: ENABLER FOR ACQUIRING OTHER VOCATIONAL SKILLS



## Technology enables access to international vocational learning

Technology gave rise to access to online vocational learning- Case of DIY



## The role of Open Source in developing programming skills

Open source softwares play a key role in providing vocational training especially for IT people.



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**Examples from Tunisia:**

**EMERGING TECHNOLOGICAL SOLUTIONS: ENABLER  
FOR ACQUIRING VOCATIONAL SKILLS**

# VR Technology– Medical Sector

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## **Honoris Medical Simulation Center:**

The centre is equipped with advanced mannequin technologies in a hospital setting, scenario-based simulations, actor-based simulations and cutting-edge virtual reality technologies. These are sophisticated forms of simulation that present real-life scenarios to students through VR headsets.



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# We Need Innovation: As an ACT rather than a Word

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Expecting our governments to introduce technology in schools a way to reinforce vocational skills might take decades to happen. Big changes have big impact, yet they also require long time to happen. Best innovations happen when they start from the community and then reinforced by the government.

Covid-19 pandemic is a real example for this.





# Take-aways:

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Emerging technological solutions are vocational skills, and they enable acquiring other vocational skills.

In times of crisis, only vocational skills will lead to fast impact. Emerging technological solutions are the motor for that.

Innovation has been and will always be challenging the status-quo. Yet, it requires collective efforts from all actors.



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