

# Small Business and New Technology Using Robotics & 3D Printing



**GLOBAL ENTREPRENEURSHIP**  
STUDENT PROGRAMME



Dr Paul Quantock  
The Foundation for Entrepreneurial Participation  
Global Entrepreneurship Student Programme -  
Support Partner

28<sup>th</sup> March 2026

# Introduction

TECHNOLOGY CAN TRANSFORM A  
SMALL BUSINESS




AUTOMATION IS NOW MORE  
AFFORDABLE



NEW OPPORTUNITIES FOR  
INNOVATION





# What is Robotics?

- Automated machines performing mundane tasks
- Used in manufacturing, packaging and logistics
- Collaborative robots for small businesses - COBOTS

# COBOTS in UK Industries

UK manufacturers increasingly use COBOTS for machine tending, assembly, screw-driving, inspection, and packing.

Rise Automation (a UK company) highlights widespread adoption across factories for:

- Computer Numerical Control (CNC) machines which can automate precise cutting, drilling, milling, and shaping materials like metal, wood, and plastic
- Assembly and fastening
- Inspection and quality control
- Material handling and loading/unloading pallets

These applications are especially popular with SMEs because COBOTS are compact, low-cost, and easy to redeploy.



# What is 3D Printing?

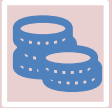
- Additive manufacturing
- Builds objects layer by layer
- Used for prototypes and products

**Download your FREE  
'Introduction to 3D Printing'  
Report**

<https://www.kuazone-gesp.com/3dprinting>



# Benefits for Small Businesses



- Lower production costs



- Faster product development



- Customised products



- Improved efficiency

Small workshop uses  
3D printing to create  
custom products

## Case Study 1: Custom Manufacturing



Local repair shop  
prints replacement  
components

## Case Study 2: Repair & Spare Parts



Small factory using  
robotic arms

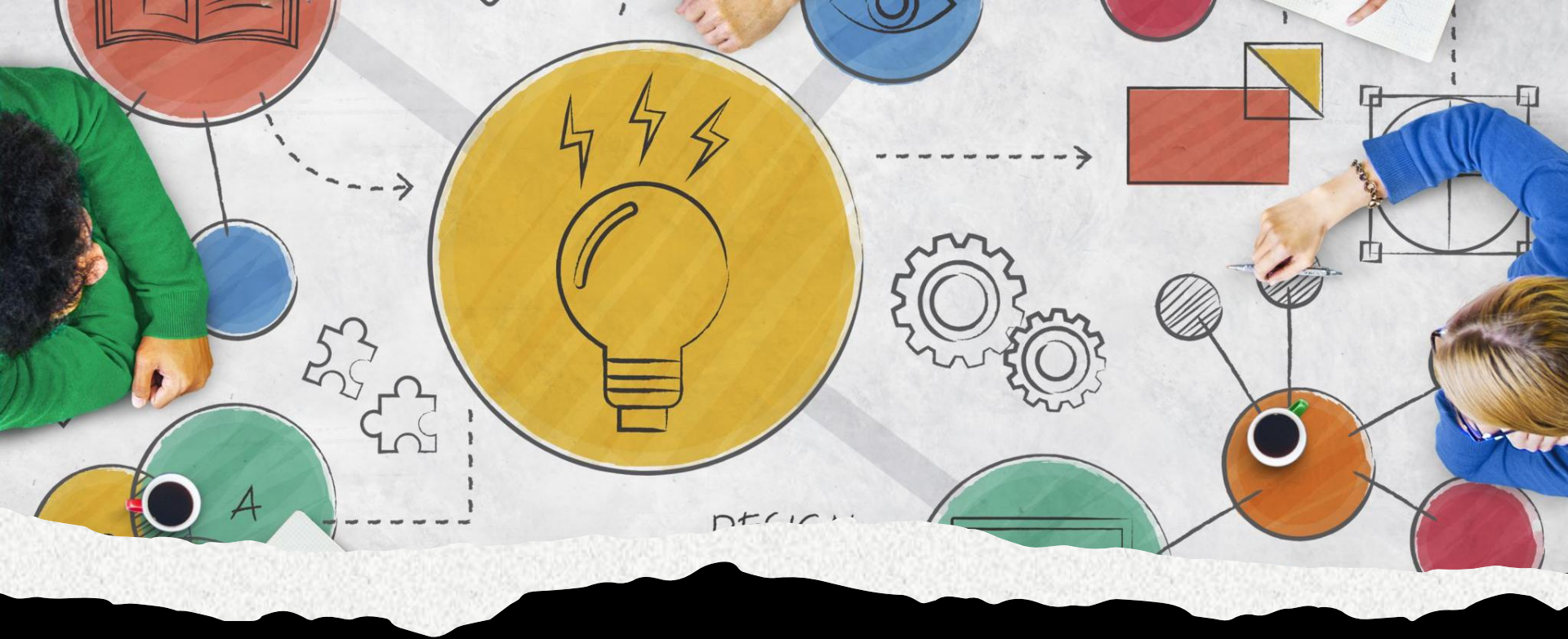
## Case Study 3: Automated Packaging





## Challenges

- Initial cost
- Training employees
- Maintenance and integration



# Future Opportunities

- On-demand production
- Local manufacturing
- Integration with AI

<https://www.kuazone-gesp.com/ai>



## Conclusion

- Robotics and 3D printing are powerful tools
- Help small businesses compete
- Early adoption creates competitive advantage

Thank you for  
Listening



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Dr Paul Quantock – [info@tfep.org](mailto:info@tfep.org)  
Sammy Kariuki - [sammy@kuazone.com](mailto:sammy@kuazone.com)

<https://www.kuazone-gesp.com>