

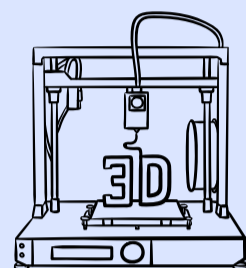
3D PRINTING A WORLD OF POSSIBILITIES FOR SUSTAINABLE RURAL DEVELOPMENT

What is 3D printing or additive manufacturing?

3D printing is the process of constructing 100% printed objects by depositing layers of material on top of each other.

The benefits of 3D printing in rural areas

- It favours local production that is less dependent on external suppliers
- It allows parts, products and spares to be customised
- It reduces transport needs and carbon footprint
- It reduces the environmental impact by generating less waste and encouraging reuse and repair
- It generates technical knowledge and creates new opportunities



Potential 3D printing applications in rural areas include:

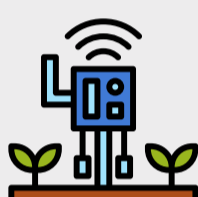
ARABLE FARMS



Spare machinery parts



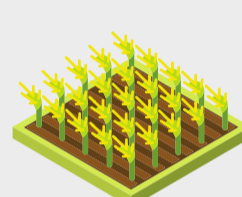
Irrigation connectors and nozzles



Precision agriculture



Traps for pests



Modular farming structures



Sheds and huts

LIVESTOCK FARMS



Spare milking machinery parts



Drinking troughs and food dispensers



Personalised tools



Casing for livestock geolocators



Shelters and plot protection



Prostheses for injured livestock

LOCAL INDUSTRY AND CRAFTS



Tailor - made spare parts



Machinery parts

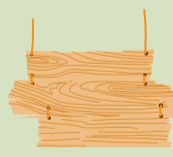


Production of decorations and personalised gifts



Manufacturing of tailor - made moulds and packaging

CULTURE, TOURISM AND HOSPITALITY



Signage and signposting of routes and exhibitions



Indoor and outdoor furniture



Models and customised items for visitor centres



Moulds and food products

HABITAT AND ENVIRONMENT



Spare parts for renewable energy equipment



Urban furniture and signage



Beekeeping: print beehives and protective items



Wildlife refuges and bird boxes

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