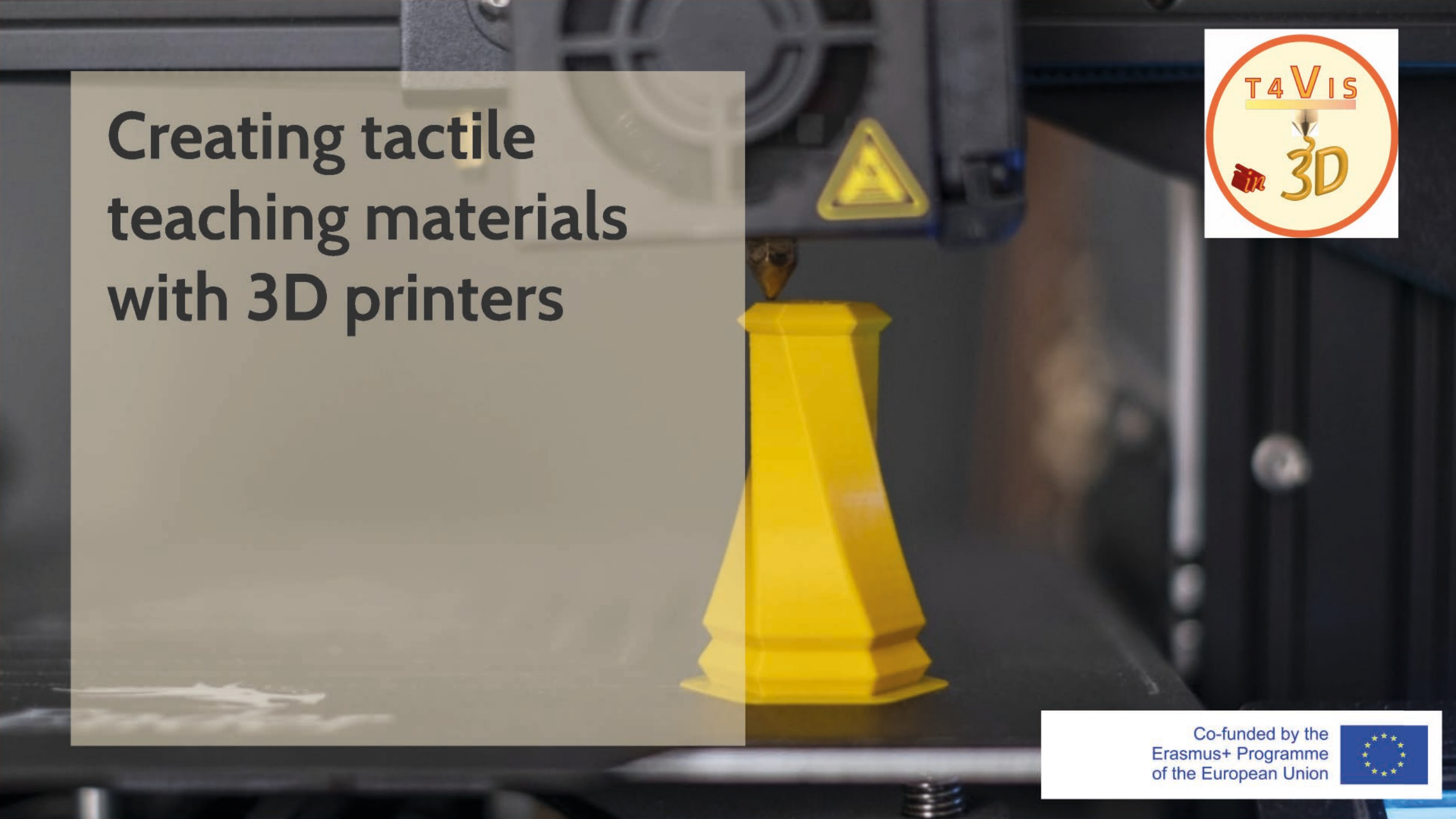
Creating tactile teaching materials with 3D printers



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Creating tactile teaching materials with 3D printers

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Warm-Up

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Creating tactile teaching materials with 3D printers

Warm-Up

Advantages

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Warm-Up

Advantages

Pre-Requisites

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Warm-Up

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Technical requirements and costs

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Creating tactile teaching materials with 3D printers

T4VIS in 3D

- Warm-Up
- Advantages
- Pre-Requisites
- Technical requirements and costs
- Further usage

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Question

Please answer these 3 questions on:

www.menti.com
Code: 4266 9957

Question

Please answer these 3 questions on:

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Results

Your Answers were:

Link

Question

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Results

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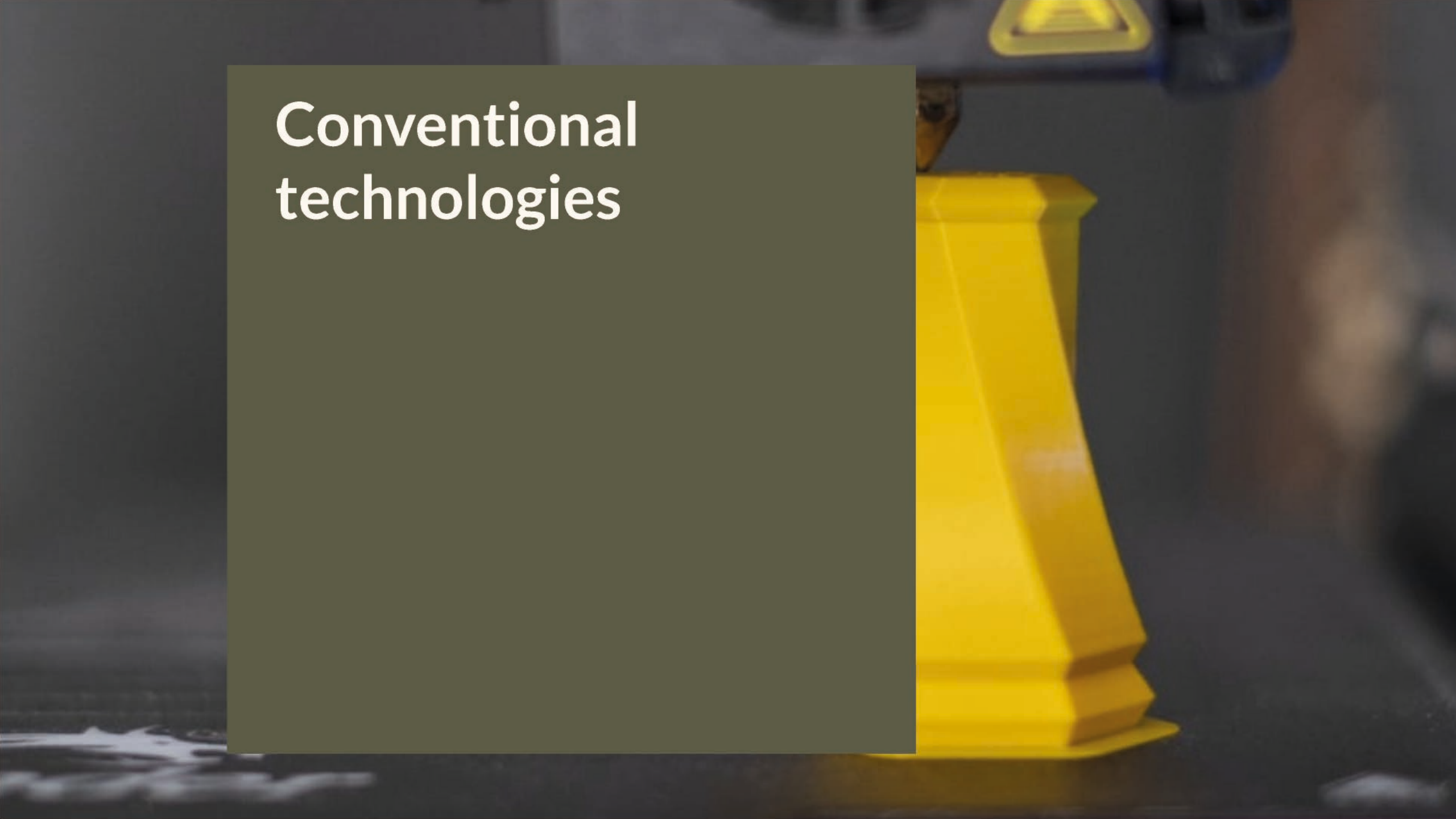
Conventional technologies



Conventional technologies

1. Swell paper
+ Easy to use
+ Esy to reproduce copies
- Limited embossing/3D functionality
- Rapid abrasion
- Not disinfectable
- Expensive Paper

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Advantage 3D printing

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+ Enables creation of complex 3D models
+ Versatile materials and colors
+ Easy to reproduce copies
+ Easy to learn utilization
- Introduction in technology required
- Constant occupation with the technology is required
- Not useful for high quantities

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Pre-Requistes

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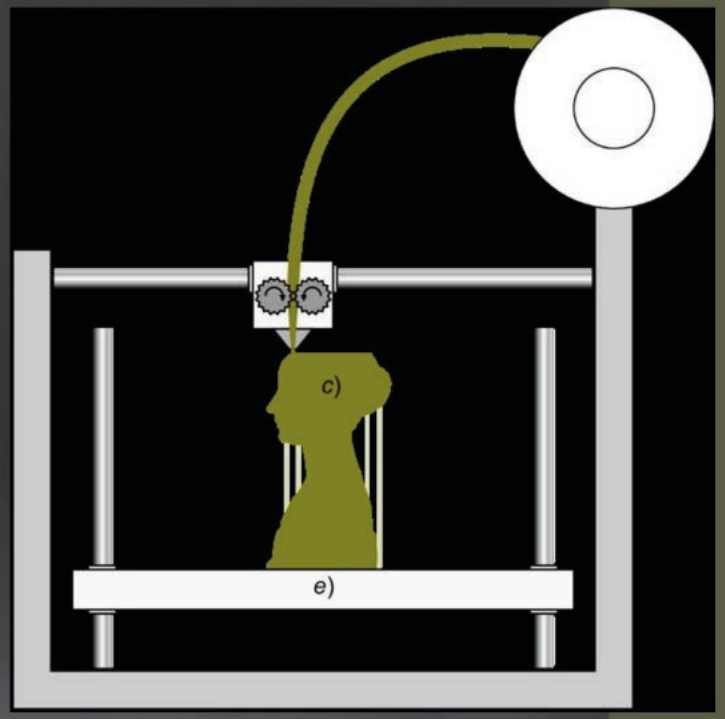
Enthusiastic and motivated staff member(s) are required
The unit is assigned to the potential users and not to an estimated department
A separate room with $8m^2$ minimum is required for FDM printing with a solid table
A separate room with minimum 10^2m, a wet zone and a good ventilation is required, if SLA printing is proposed to implement as well

Pre-Requistes



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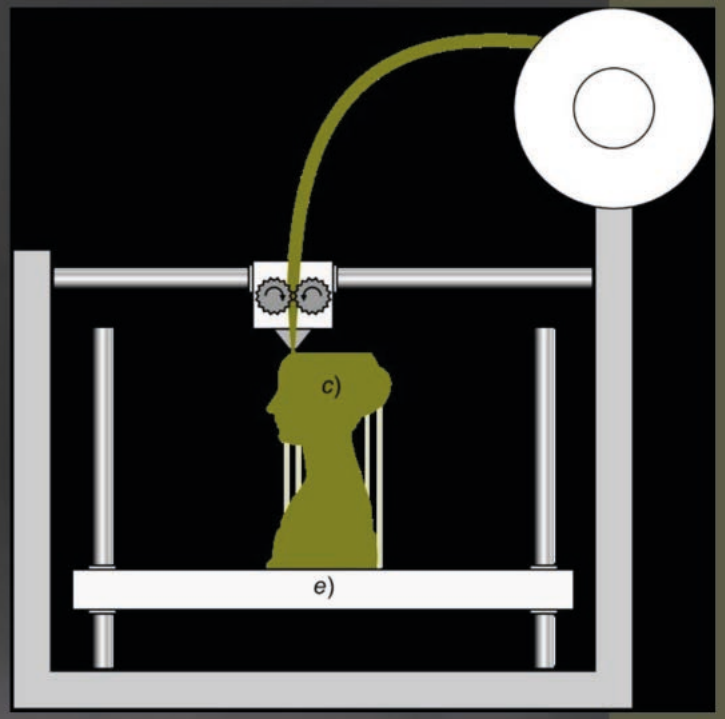

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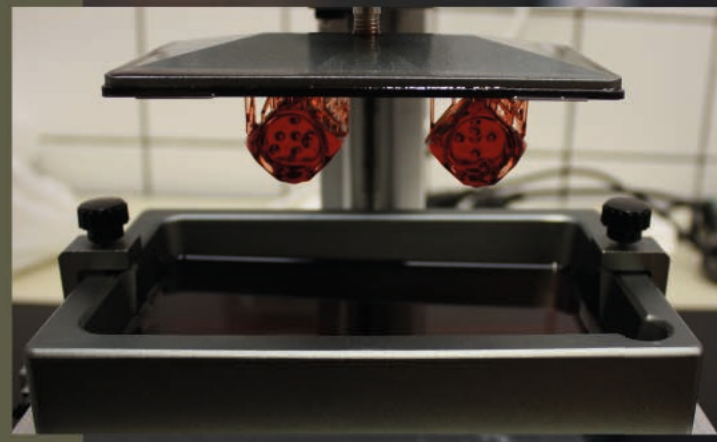

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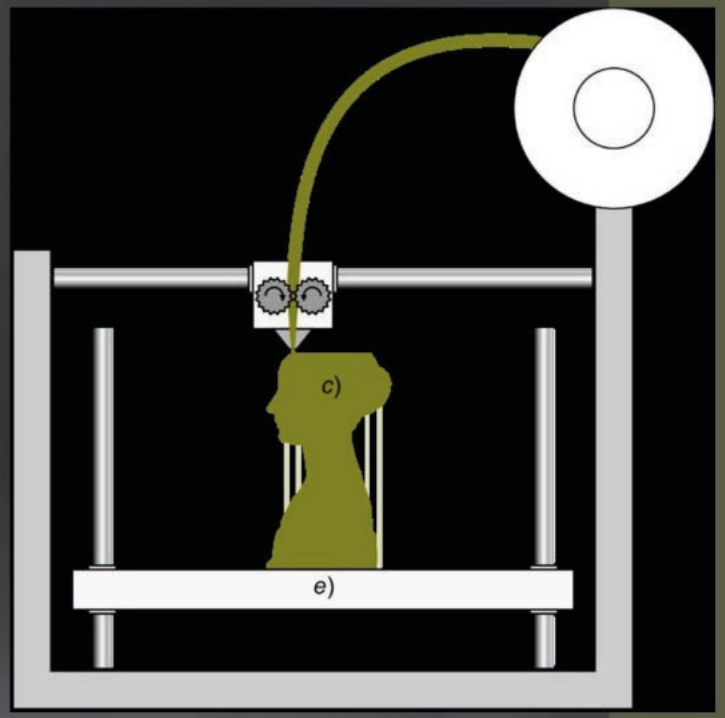

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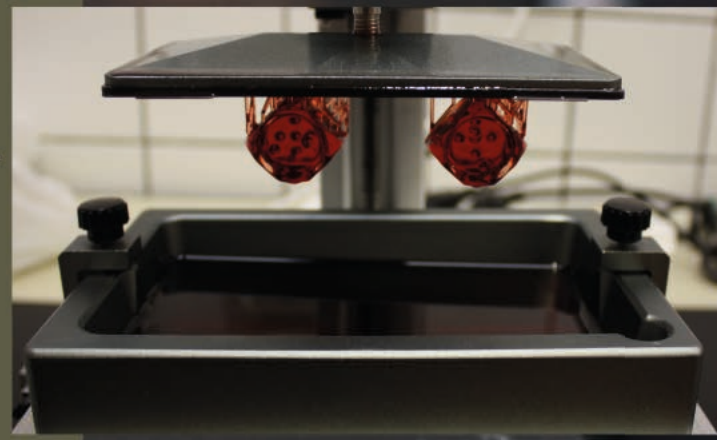
The necessary software is supplied with the printers and runs on standard computers. Non-Windows tablets are generally not suitable



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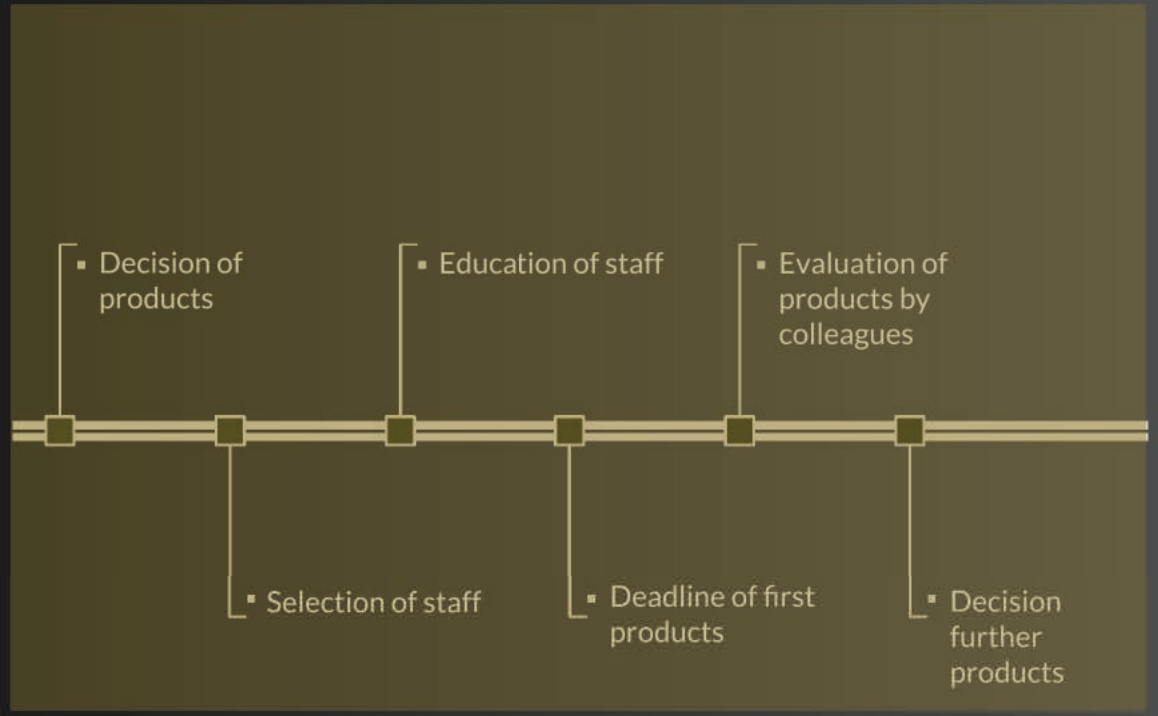
Implementation

Timeline of implementation



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Further usage

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Printing spare parts for devices and tools

Further usage

- Printing spare parts for devices and tools
- Production of spare parts for the facility management of your organization

Further usage

- Printing spare parts for devices and tools
- Production of spare parts for the facility management of your organization

Production of items with Braille for external clients

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