

3D Printing Transforming Housing

Korawich Kavee (AndrewID: kkavee)

- Beckum, Germany
- Led by formwork and scaffolding firm PERI
- built with COBOD's BOD 2 printer
- complies with Germany's building codes
- Lünen, Germany
- Scalability! six-apartment social housing complex, multi-story
- tackling housing shortages in urban areas

- 👍 reduces labor costs
- 👍 speeds up construction
- 👍 custom designs while being more sustainable
- 😞 limited to certain materials like concrete
- 😞 building code slow down adoption
- 😞 initial costs for 3D printers
- ? alternatives: Modular/pre-fab



Reference

1. Mills, F. (2020, December 16). Germany's first certified 3D-printed house: A breakthrough in construction. The B1M. Retrieved September 18, 2024, from The B1M website. <https://www.theb1m.com/video/why-this-3d-printed-house-will-change-the-world>
2. PERI 3D Construction. (2023, November 3). Europe's first 3D printed social housing apartment building. [Press release]. <https://cobod.com/peri-3d-construction-realizes-europes-first-3d-printed-social-housing-apartment-building/>