

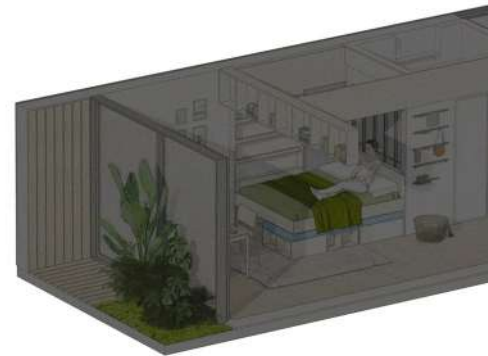
European Modular Construction 2024: Challenges, Drivers & Opportunities

*Modular Construction as a Key Tool for Implementing
Circular Economy Strategies in the Construction Market*

Ewelina Woźniak-Szpakiewicz

CEO, DMDmodular p.s.a.
Vice-Chair, European Council of Modular Building Institute

pbctoday 30 January 2024



40% Primary energy use

(Eurostat, 2017)

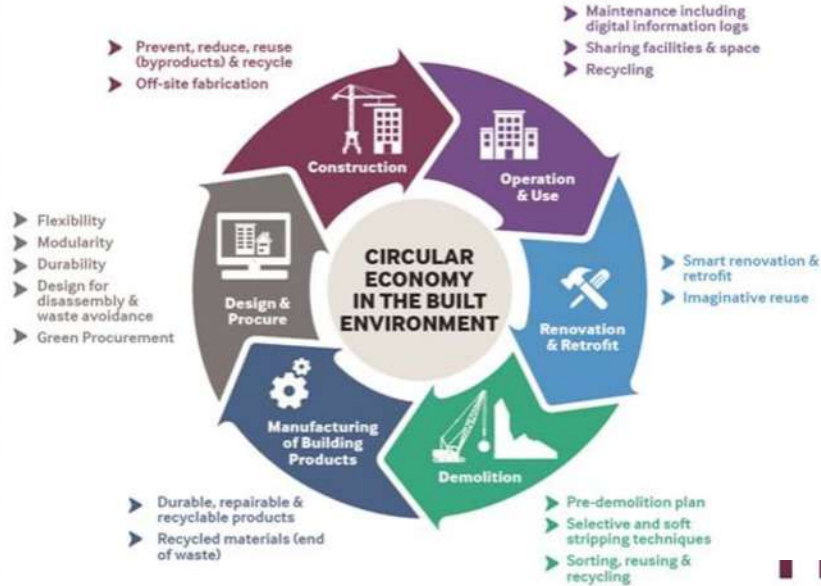
26% Material resource use

(BIO Intelligent Service, 2014)

35% Waste generation

(Eurostat 2017)

Linear Economy vs Circular Economy



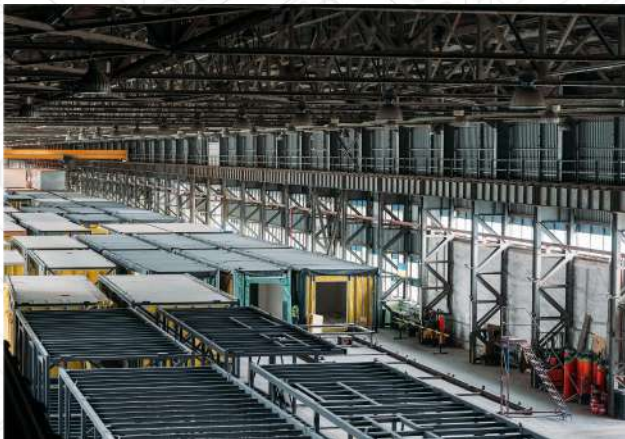
Manufacture & Assembly

- DFMA
- DFD
- DFR



Energy Efficient Buildings

Reuse of Buildings



Sustainable Materials

Disassemble





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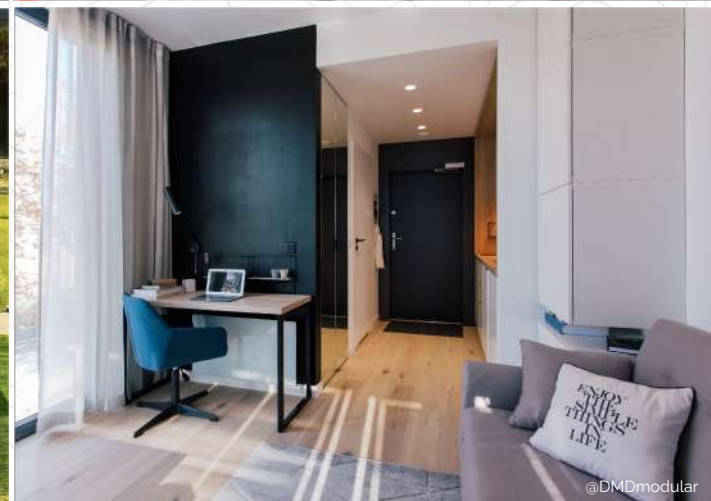
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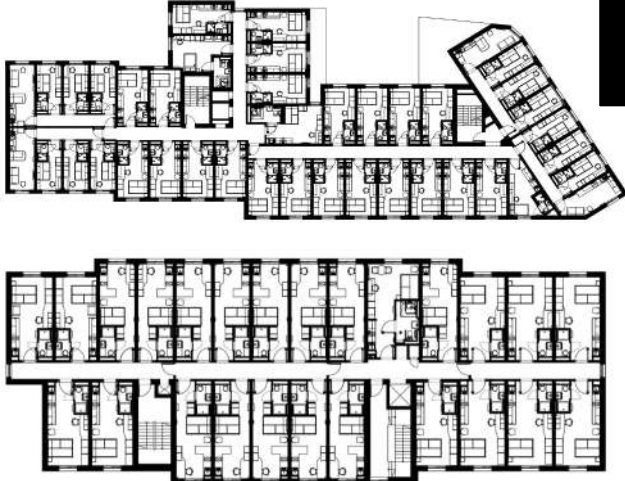
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NEW BUILDINGS

INFORMATION

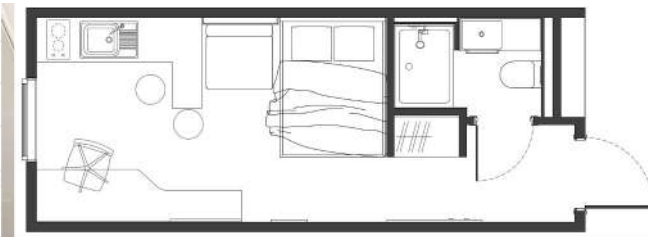
Building M1

- **Modules** 144
- **Rooms** 148
- **Floors** 4
- **Gross area** 3 645 m2

Building M2

- **Modules** 70
- **Rooms** 102
- **Floors** 4
- **Gross area** 2 706 m2





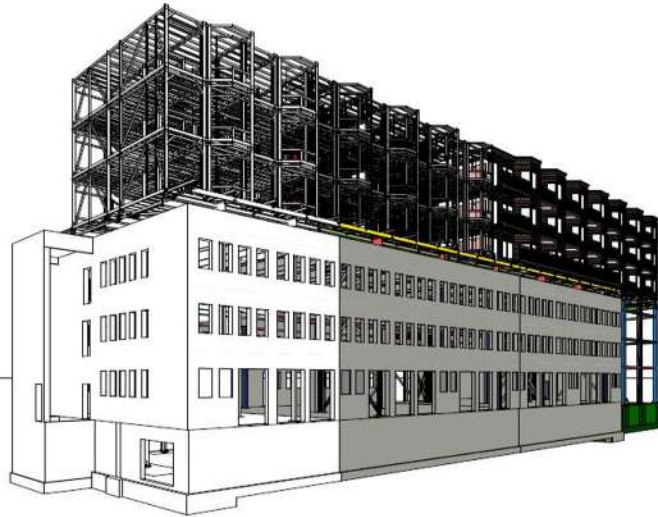




Reuse of Buildings

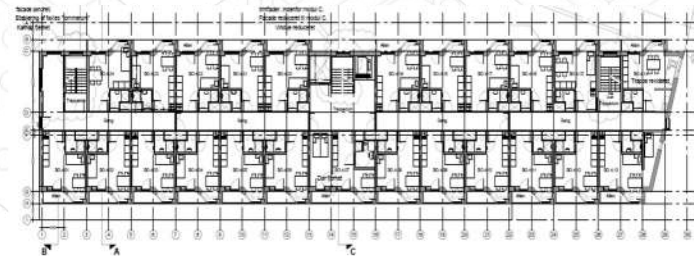
DFMA, DFD

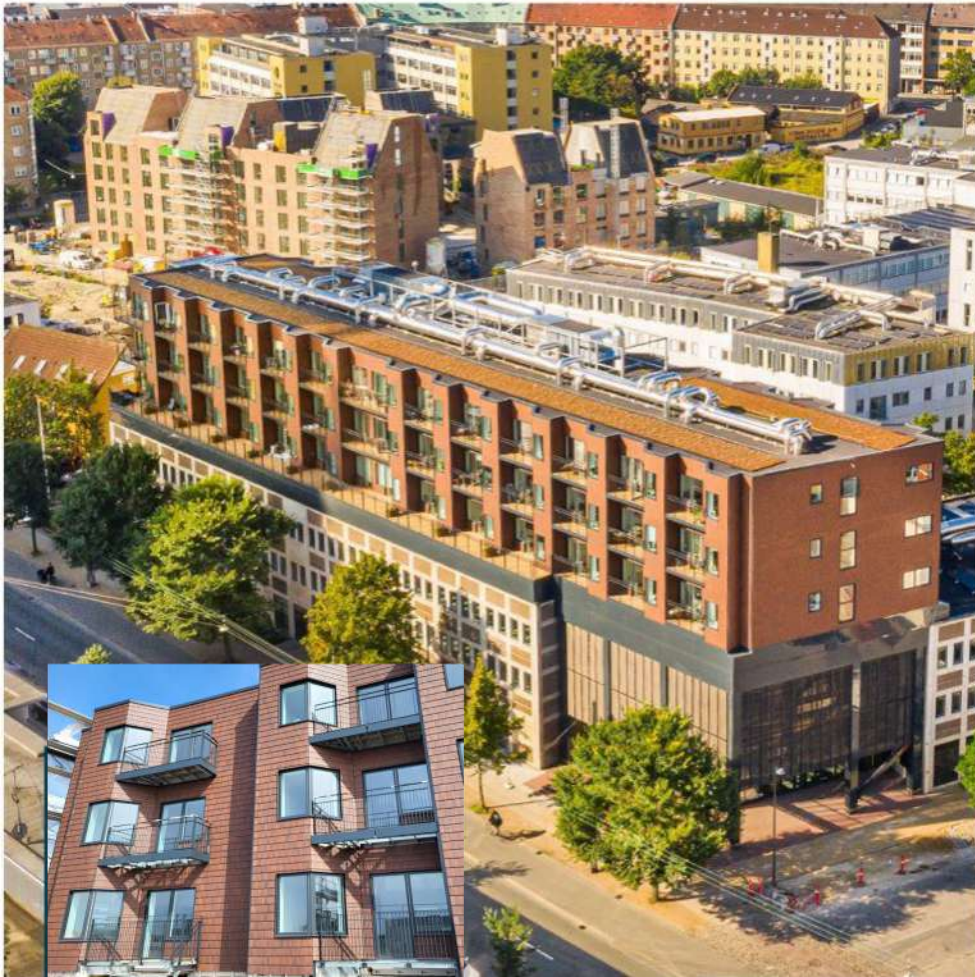
VERTICAL EXTENSION



INFORMATION

- **New floors** 3
- **Standard of finishing** turn key
- **Modular gross area** 2 464 m²
- **Modules** 84
- **Flats** 77







D&M

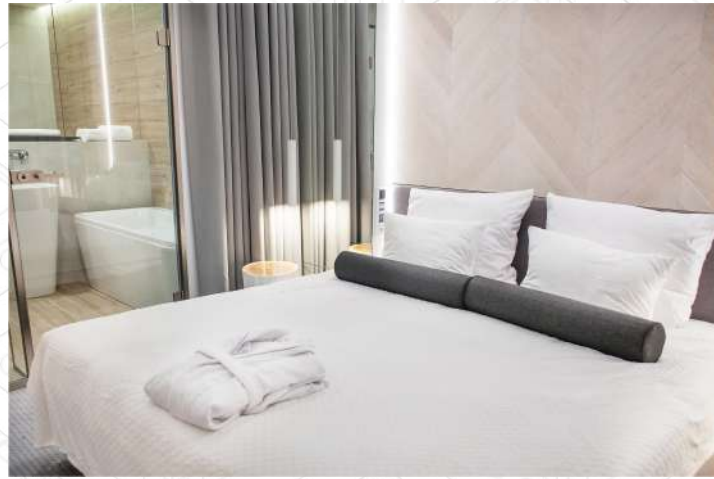
DFMA, DFA

HORIZONTAL EXTENSION



INFORMATION

- **Standard** turn-key
- **Floors** 2
- **Rooms** 2
- **Gross area** 638 m2



DFMA, DFR

DMD modular

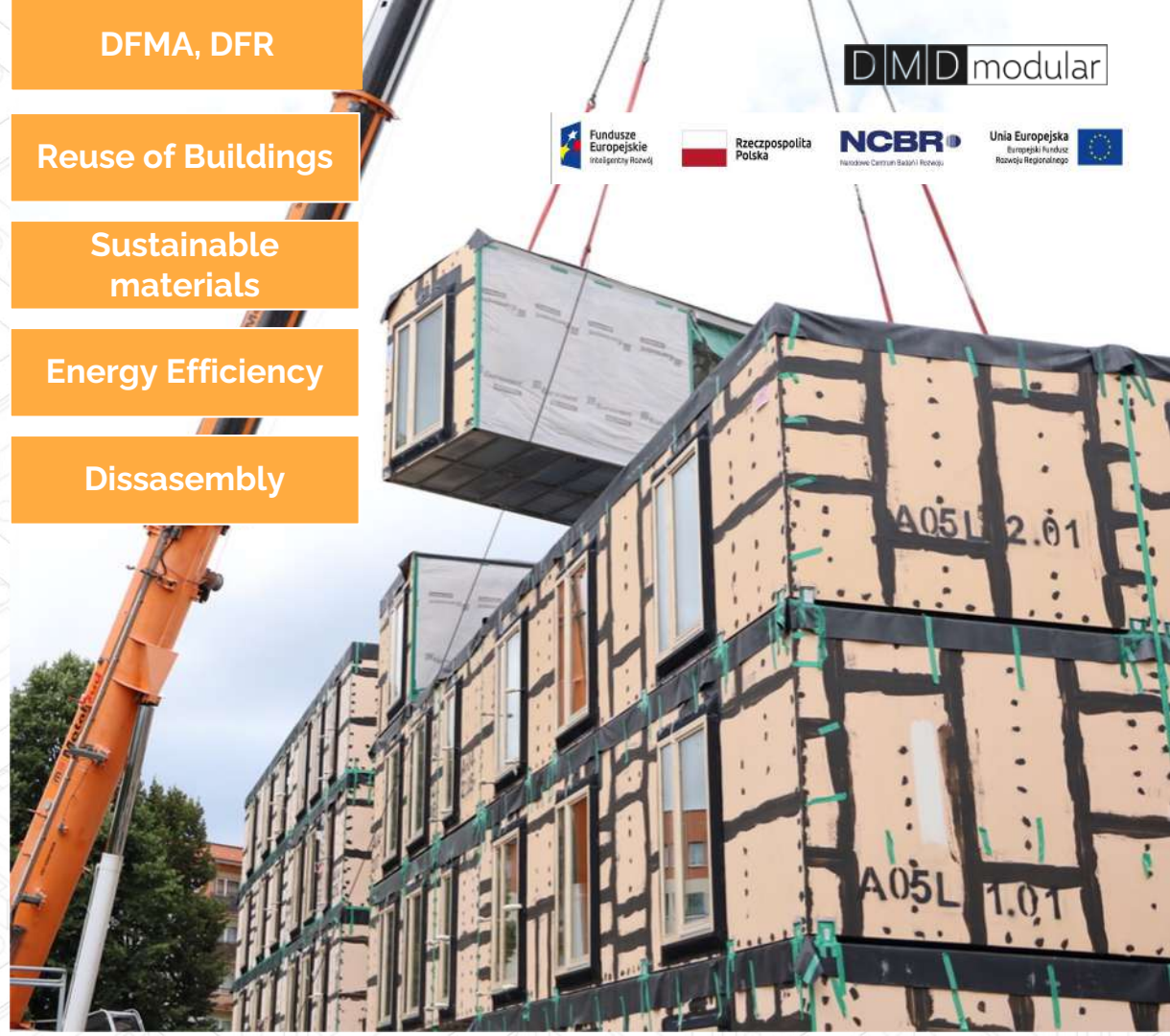


Reuse of Buildings

Sustainable materials

Energy Efficiency

Dissassembly



Multifamily Housing | Poland







Thank you for your attention

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