PANTHEON



"Capitalism With a Conscience"



SUSTAINABLE & RESILENT

21ST CENTURY WORKFORCE

FAMILY & COMMUNITY

MEET OUR TEAM PANTHEON INNOVATIVE BUILDERS

RYAN KELLY CEO/Founder

STEPHEN DAVIS

Chief Development Officer

BRYANT YOUNBLOOD Chief Education Officer

WHAT IS 3D PRINTED CONSTRUCTION?

COBOD

What is 3D Construction Printing?

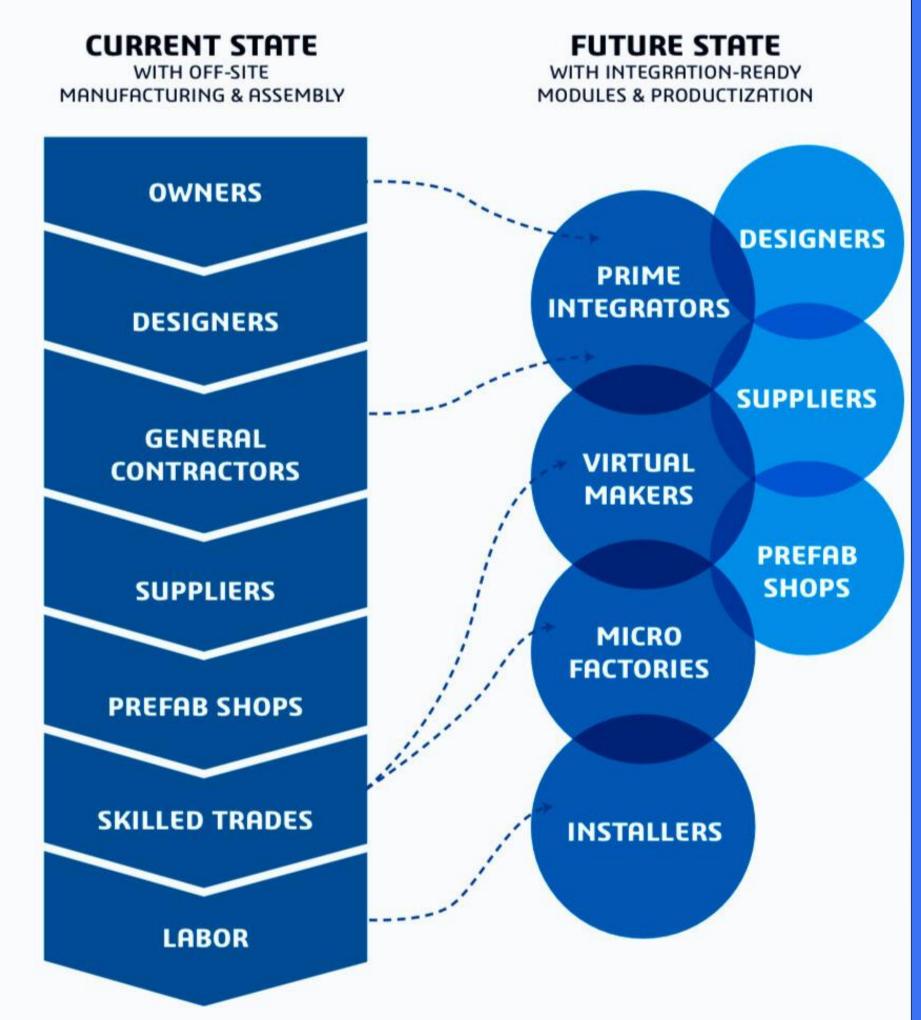
THINK ABOUT IT:

"If I asked people what they wanted, they would have said faster horses"

HENRY FORD

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EVOLUTION OF THE CONSTRUCTION VALUE CHAIN



EFFIECIENT SYSTEMS = AFFORDABILITY SOLUTIONS FOR LEGACY SYSTEMS

- Bringing Stakeholders Together
- How 3D printed construction and other innovative methods address legacy processes
- Benefits of a new paradigm in construction
- Larger impact on efficiency, cost, and sustainability

WHY RESILIENCE MATTERS

• \$92.9 Billion- FEMA's 2023 Disaster **Recovery Expenditures** • 63-The State record for tornados in

Ohio



- As of July 2, 2024: 63 total
- Ohio average: 22 tornadoes
- ▶ 2023: 60 confirmed tornadoes
- Number expected to increase in 2024



OHIO RECORD NUMBER OF TORNADOES

AFFORDABLE RESILIENCE

- Concrete Cladding
- Insurance Premium Reduction
 - Flexibility in Design

SUSTAINABILTY "CULTURE IS NOT A CATCH PHRASE"

WASTE REDUCTION

- Construction Materials account for 35% of all Global Waste Produced
- On Demand Manufacturing



ENERGY EFFICIENCY

 Thermal Performance vs Comparable Building Materials



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LIFE CYCLE

- Construction
- Post-Costruction



EDUCATION & WORKFORCE DEVELOPMENT

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3D CONSTRUCTION PRINTING

SIX WEEK FUNDAMENTALS BOOTCAMP

- Week 1: Printer Design, Assembly, and Maintenance
- week 2: Computer-Alded Design (CAD) and Design for FDI
- week 3: 6 Code, Slicing, and SD Printing Terminology
- week 4: SDCF machine, material, And BMF S

Week & Team Print Project & Evaluation

Digital Micro-Credential Certifications

- Fundamentals of 3D Printing
 Foundations of 3D Construction
- Design for FDM
 Disitel Design
- Digital Design
 Fundamentals of G-Code
- Fundamentals of Slicing Intro to BIM

Machine & Technology Specific Certification

3D Construction Print Opera
Material Specialist
Site Coordinator



WIOA/DOL TRAINING



HIGHER ED PARTNERSHIPS



ODE CURRICULUM



CAREER EXPLORATION

COFFEE SHOP ATHENS, OHIO



First Commercially Printed Structure in the US

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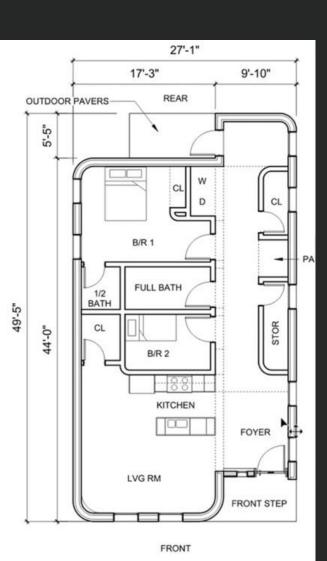
Public, Non-Profit, and Private Collaboration

3DCP HOUSING CLEVELAND, OHIO









Funded by The City of Cleveland (ARPA) in Collaboration with Lutheran Metropolitan Ministries



First Commercially Printed Structure in the US

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