

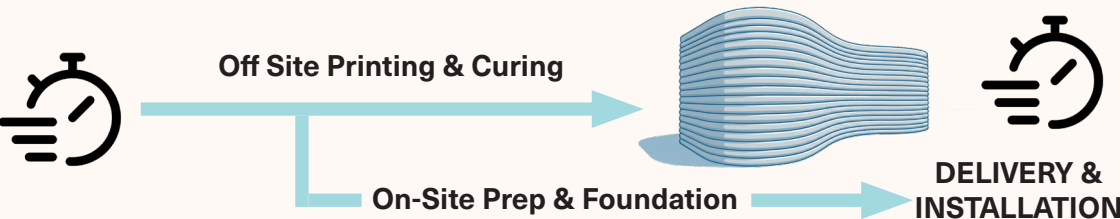
PRINTERA'S PRE-PRINTED METHOD: THE SMATER CHOICE FOR CONSTRCTION

PRE-PRINTED vs ON-SITE vs TRADITIONAL MASONRY CONSTRUCTION

PRINTERA

Pre-Printed Concrete

TIME EFFICIENCY



Critical Path Reduced: Walls ready by the time foundation is finished. Overlapping workflow significantly reduces total project phase.

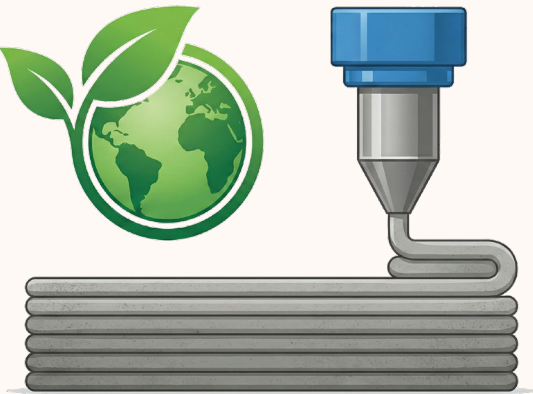
COST & SAVINGS



Potential 10-30% Total Savings: Due to the speed of printing, parallel construction, and reduced labor force. Formwork is the printed concrete; not disposable molds. This allows for complex geometries for walls, columns and more to be printed as designed rather than waiting for formwork to be built...and then thrown away. Specialized materials provided additional strength for longer lasting designs that can withstand the impact of nature over time.

SUSTAINABILITY & QUALITY

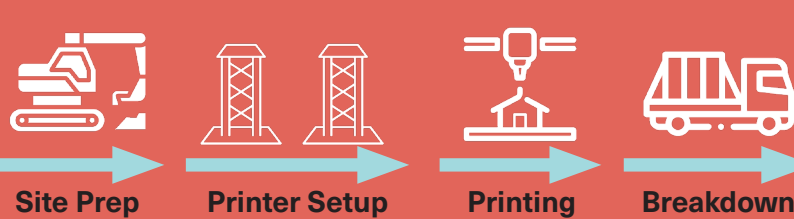
Inherently Low-Waste: Print exactly what is needed layer by layer. No lumber to discard or extra hours of building a mold to throw away later. With Printera's Pre-Printed methodology you are working towards a greener construction without sacrificing design or strength. By printing in our controlled facility we can minimize the excess material waste, additionally any material that is wasted is then recycled and put back into the industry as aggregate.



OTHERS

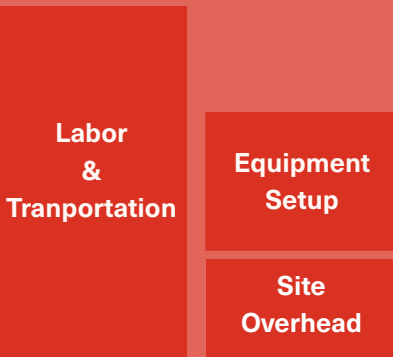
On Site 3D Concrete Printing

TIME EFFICIENCY



Sequential Dependency: Project standstill until printing is completed. Hidden delays such as; weather, material, technical issues, alignment and more burden the schedule. These delays will set back other professions on the project; GC, Electrician and Plumbing.

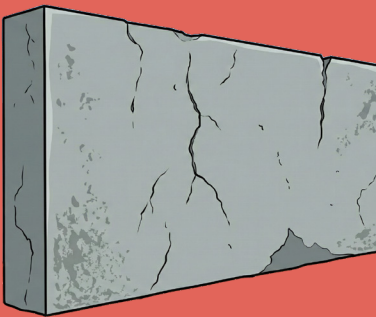
COST



Massive Mobilization and Crew Cost: Site overhead continues to burn during set-up/breakdown and weather delays. Printing cannot be done onsite while there is rain, snow, or significant temperature fluctuations. Additionally the crew will need to travel to site and if it is too far from home then accommodations will be charged to the project as well.

SUSTAINABILITY & QUALITY

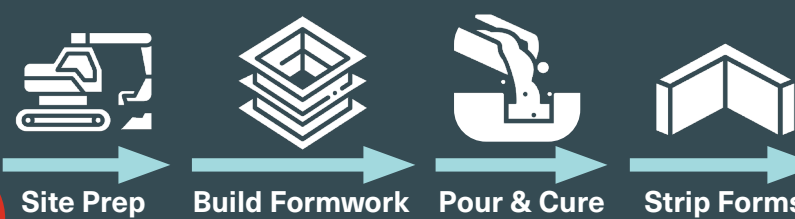
Inconsistent Strength & Surface Finish: Due to on-site having fluctuations in temperature and climate the concrete will cure differently throughout the wall. These cold joints can cause cracks or even a variation in strength. Additionally it is more expensive to recycle material on site and typically creates even more waste when compared to Pre-Printed.



TRADITIONAL

Masonry Construction

TIME EFFICIENCY



Strictly Linear Process: Project standstill until individual phases are completed. Hidden delays such as; weather, material, and more burden the schedule. These delays will set back other professions on the project; Electrical and Plumbing.

COST



Workforce Dependent and One Time Use Materials: primarily driven by its heavy reliance on skilled labor and the rising expense of disposable formwork. As the industry faces a shrinking workforce, the premium for manual labor continues to inflate, with labor and formwork often accounting for over 60% of the total cost in this initial phase.

SUSTAINABILITY & QUALITY

Labor Dependency and Material Waste: Both quality control and sustainability are inextricably tied to human variables, the aesthetic finish of a wall depends heavily on the skill level, fatigue, and day-to-day consistency of the labor force. Material suppliers routinely send significant overages to the job site. This excess material frequently ends up in a landfill, driving up both material costs.



High Material Waste