

**"DIGITAL STONE"
SUSTAINABLE FACADES
WITH 3D PRINTING**

"A contemporary, cost-effective, and sustainable alternative to traditional stonemasonry works."

Developed by New Digital Craft GmbH

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80% "Reduction of CO2 compared to traditional Portland cement through the use of **cement-free concrete**."



40% **Cheaper** in the production of window facades compared to stonemasonry work through the use of **3D printed molds**"

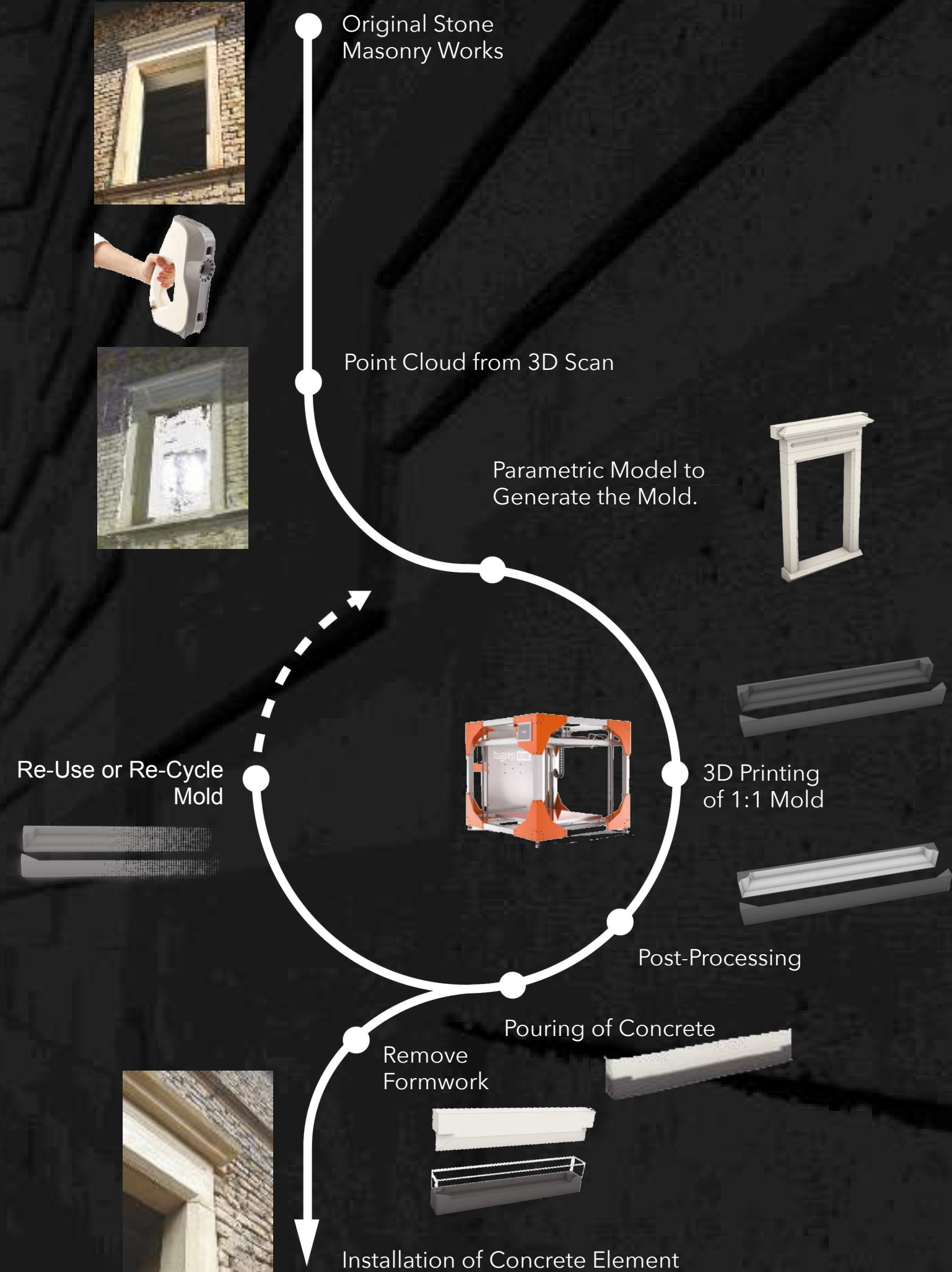


! "The concrete parts are manufactured with **insulation functions** that **prevent thermal bridges** and are **more thermally sustainable** compared to the traditional natural stone solution."



Reference Project Guesthouse Weingut Stallmann-Hiestand,
Rheinhessen, Germany

Advantages of our Solution



"Concrete formwork in construction accounts for 40 - 60% of the overall budget, especially for complex shapes like curved concrete formwork. Some designs, such as organic geometries, double-curved surfaces, and cavities, are simply not feasible because they require highly skilled labor to produce custom formwork, leading to high costs, long lead times, and material waste.

Using the innovative manufacturing method from New Digital Craft, precisely these complex structures can be produced much more efficiently, quickly, and cost-effectively.

The coherent and digital process chain is divided into:

- Capturing existing stonemasonry work using the latest scanning technology
- Generating a parametric 3D model
- Manufacturing the required concrete formwork with a large-format 3D printer
- Recycling the 3D formwork molds after use"

Digital Stone vs Stonemasonry Work in Cost Comparison

Based on reference project: Guesthouse Stallmann-Hiestand (9 Window Framings)

- 25 % less expensive from Quantity 6
- 30-35 % less expensive from Quantity 10
- 40% less expensive from Quantity 10

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