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can 3D construction printing help reach sustainable develeopment goals?

→

in 2015, the united nations member states outlined **the 2030 agenda for sustainable development**, a set of 17 sustainable development goals...

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...an urgent call to action for **global partnership** in the pursuit of

peace and prosperity for people and the planet, now and into the future.

- current construction industry faces major labor shortages
- automated 3D construction printing eliminates physically strenuous concrete formwork
- creation of new opportunities and more productive construction capabilities

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at **3D-bautec.**,
we see where
our innovation
can have an
impact.

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8 DECENT WORK AND ECONOMIC GROWTH

decent work and economic growth

the current construction industry faces **major labor shortages.**

implementing 3D construction printing **automates physically strenuous work** and creates appealing new on-site opportunities for workers in management, process operations, and robotics control.

with fewer workers per site needed, construction groups **increase capacity to take on more simultaneous projects,** increasing industry productivity. plus, with a digitally integrated process, the industry challenge of undeclared labor becomes a thing of the past.

11 SUSTAINABLE CITIES AND COMMUNITIES

sustainable cities and communities

3D construction printing boasts a fast, low-emission construction process to quickly **address housing demands sustainably, while maintaining affordable costs.**

with opportunities to print natural materials, like clay, in place of emission-heavy cementous concrete, indoor climate and health is improved: **better air quality + passive temperature regulation = more human comfort and efficient building energy use.**

all of this informs our vision:
dignified, affordable,
climate-neutral housing for all.

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12 RESPONSIBLE CONSUMPTION AND PRODUCTION

responsible consumption and production

by placing material precisely where it is needed and only where it is needed, 3D construction printing **virtually eliminates waste material** in wall construction phase.

the 3D-bautec. printing system is compact, transportable by trailer and capable of mixing material onsite. this means **transportation-related emissions are drastically reduced.**

plus, our innovative use of concrete alternatives, such as un-fired clay, offers **climate-neutral, responsible material sourcing.** and with digitally integrated tracking of components, material passports are built into the process, enabling **material circularity.** →

13 CLIMATE ACTION

climate action

construction industry standards relies on concrete and cement, materials which account for **~11% of total global carbon emissions.** replacing such materials with natural, non-fired alternatives like clay, 3D-bautec. will dramatically shift the carbon footprint of the building process.

but even steps like these will not provide an immediate solution to the warming climate. we acknowledge that humanity already faces damaging impacts, and that in addition to forward thinking solutions, immediate triage is also needed. with 3D printing, we can contribute a **fast and cost-effective building method adept to quickly address housing needs in the wake of natural disaster.**

sustainability is nuanced.

we don't expect to single-handedly solve the challenges of climate change, but **we're committed to developing technology to improve the environmental impact of our industry and to sharing information to grow the collective understanding of sustainability.**

layer by layer,
we're building
a better future.

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ready to learn more?

check out our website:
www.3D-bautec.com

or follow us on LinkedIn
@3D-bautec.