

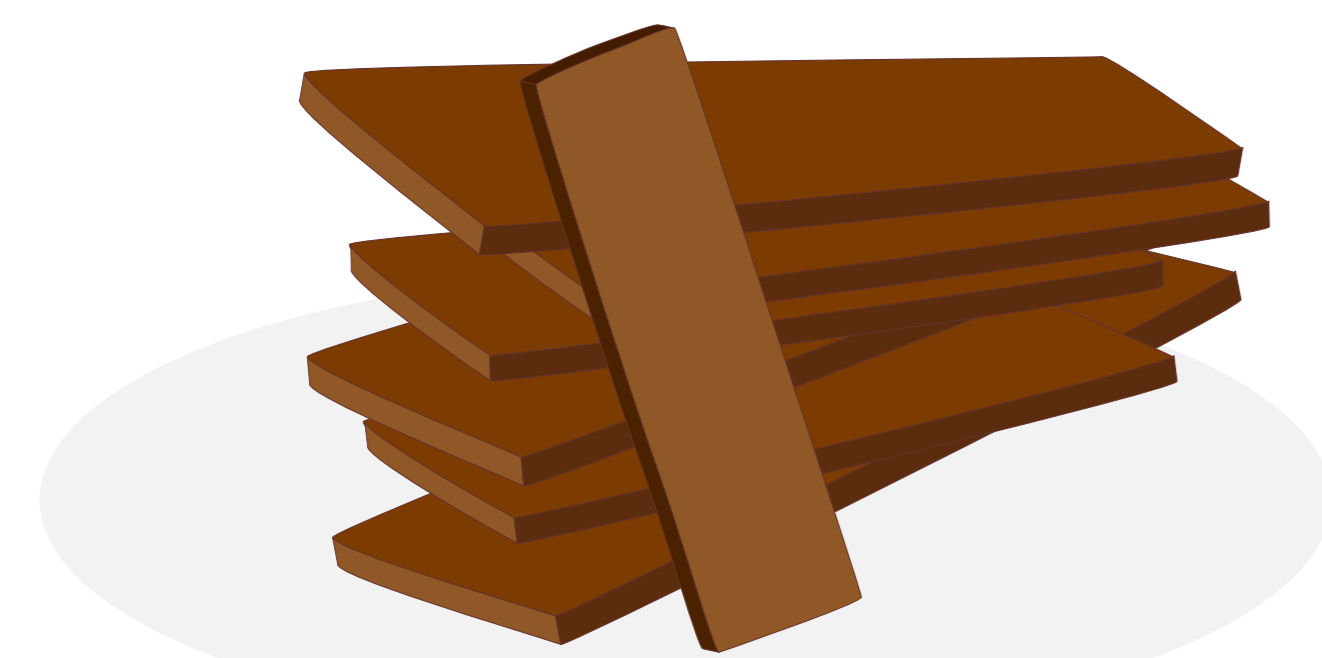
HOW DO INNOVATIVE CONSTRUCTION MATERIALS HELP TO IMPROVE PROJECT PERFORMANCE IN 2026?

CONSTRUCTION INDUSTRIES ARE PROLIFERATING WITH TECHNOLOGICAL ADVANCEMENTS SUCH AS DRONES, **BIM SERVICES**, AND VIRTUAL REALITY, WHICH ARE AROUND THE CORNER, MAKING PROJECTS MORE COMPETENT AND CAPABLE AND SAVING COSTS. CONSTRUCTING BUILDINGS WITH DURABLE MATERIALS, WITH LESS ENVIRONMENTAL IMPACT, AND AT A LOWER COST IS CONSIDERED MORE IMPORTANT. THERE ARE MANY FACTORS, SUCH AS **CLIMATE CHANGE**, ENVIRONMENTAL IMPACT, CARBON EMISSIONS, AND THE USE OF SUSTAINABLE MATERIALS, THAT PLAY A VITAL ROLE IN DEVELOPING A BUILDING THAT IS LONG-LASTING AND REDUCES ENERGY BILLS.

TRENDS IN INNOVATIVE CONSTRUCTION MATERIALS FOR 2026

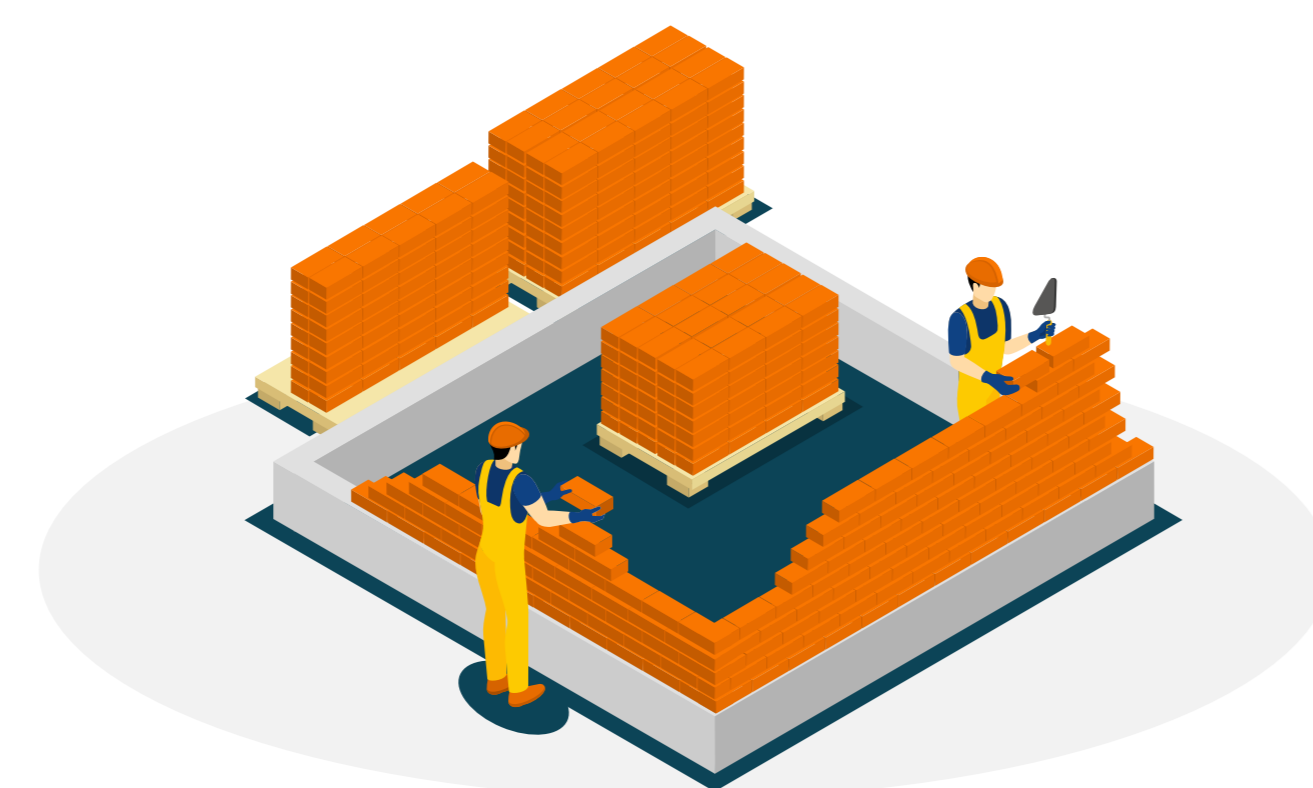
TRANSLUCENT WOOD

- WOOD VENEER IS LINED IN THE INITIAL PHASE TO MAKE WINDOWS AND SOLAR PANELS WITH THE METHODOLOGY OF NANOSCALE TAILORING OF WOOD.
- IT IS A CHEAPER SOURCE VALUE MATERIAL THAT SAVES COST FOR THE PROJECTS.
- TRANSPARENT WOOD IS A RENEWABLE, READILY AVAILABLE, AND AFFORDABLE RESOURCE THAT IS OFTEN USED FOR COMMERCIAL PURPOSES AND MASS-PRODUCED.



HYDROCERAMIC BRICKS

- HYDROCERAMIC MATERIAL IS A NEWLY DISCOVERED MATERIAL MADE OUT OF CLAY AND HYDROGEL THAT BRINGS OUT A COOLING EFFECT ON THE BUILDING'S INTERIORS, REDUCING INDOOR ROOM TEMPERATURE BY 6 DEGREES CELSIUS.
- IT CAN INTEGRATE UP TO 500 TIMES ITS WEIGHT THAT HELPS IN LOWERING THE TEMPERATURE DURING SUMMER.
- THE STRUCTURES THAT ARE MADE FROM SUSTAINABLE MATERIAL PROVIDE LESS HARM TO THE ENVIRONMENT AND MAKE THE BUILDING MORE DURABLE.



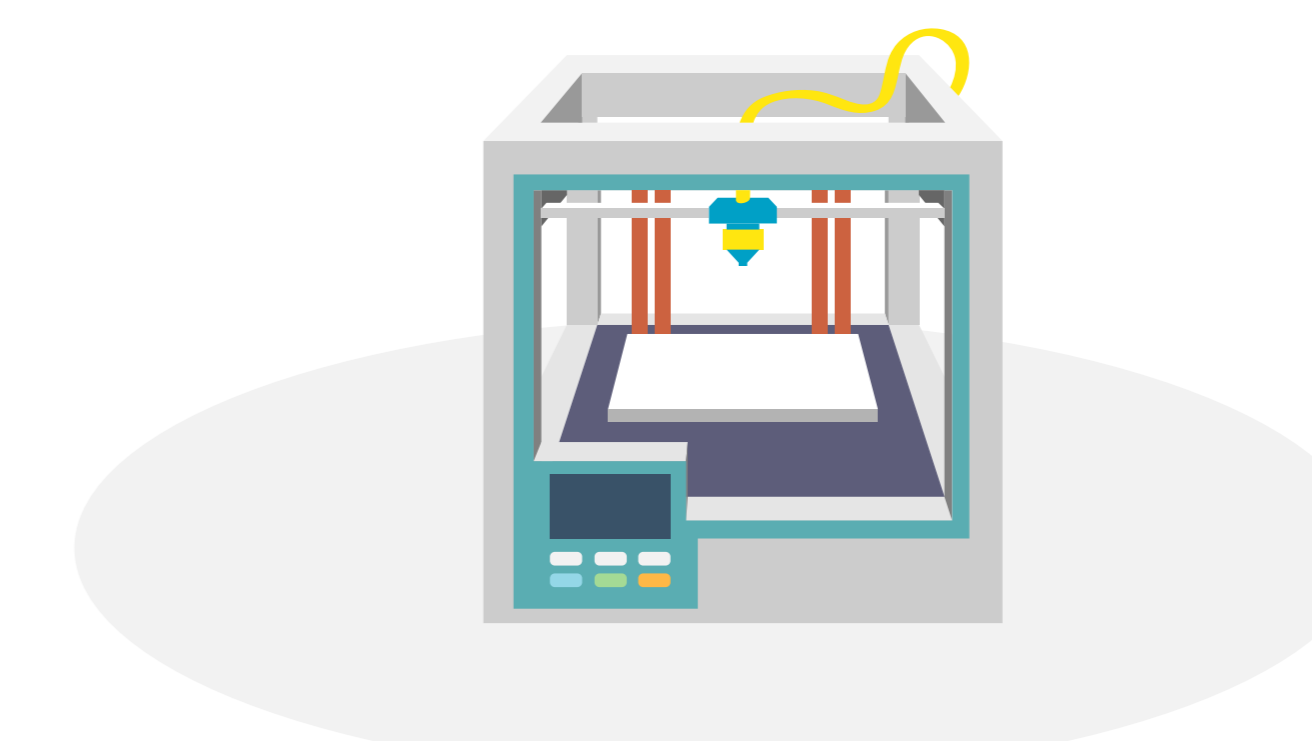
CIGARETTE BUTT BRICKS

- CONSTRUCTION MATERIAL FROM THE WASTAGE OF CIGARETTE BUTTS CAN BE USED IN THE FORM OF CIGARETTE BUTT BRICKS THAT ARE LIGHTER, ENERGY-EFFICIENT, AND REDUCE THE WASTAGE OF BUTTS.
- BRICKS MADE FROM THE WASTE OF CIGARETTE BUTT AID IN REDUCING POLLUTION FROM THE ENVIRONMENT. USING BRICKS REDUCES WASTE AND LESSENS THE USE OF HEAVY METALS IN BRICKS



3D PRINTED BIOPLASTIC

- BIOPLASTIC FURNITURE IS MADE OUT OF WASTE MATERIAL SUCH AS WOOD CHIPS, GYPSUM, OAT BRAN, AND GANODERMA LUCIDUM. IT CAN BREAK DOWN WASTE PRODUCTS AND PRODUCE BIOPLASTIC MATERIALS.
- THE PROCESS OF MAKING BIOPLASTIC FURNITURE REQUIRES LOW ENERGY, IS POLLUTION-FREE, AND USES LOW TECHNOLOGY FOR ITS CREATION. IT WILL BOOST **WASTE REDUCTION AND SUSTAINABILITY**.



SPIDER SILK

- ARTIFICIAL SPIDER SILK IS 340 TIMES STRONGER AND MORE ROBUST THAN STEEL, BECOMING THE FUTURE TREND OF LEVERAGING THE FUTURE NEED FOR SUSTAINABLE MATERIALS.
- IT IS CREATED BY COMBINING WATER, SILICA, AND CELLULOSE THAT MAKE IT TOUGHER THAN THE STEEL AND KEVLAR COMPONENTS USED WITH 3D PRINTING TO MAKE PROJECTS MORE DURABLE AND CONVENIENT

