

Emerging Trends in Construction



3D MODELING

Expect to see **3D models** of structural engineering, mechanical, electrical and plumbing systems, ductwork, steel work and more.



COST & SCHEDULE MODELING

These models show owners how **early design concepts** affect cost, schedule and constructability.



PRE-FABRICATION OFFSITE

Project teams **avoid potential conflicts** regarding the use of building space and owners see a safer, faster, less expensive project.



SMART BUILDINGS

Buildings are becoming **increasingly connected**, with systems that provide data monitoring and remote access.



ROBOTIC AUTOMATION

Robots and automated technology are **emerging to handle certain tasks**, such as masonry and brick laying.



UAVs

Project teams are using UAVs to create 3D models of a site prior to construction to **identify and prevent possible problems**.



BENEFITS OF 3D PRINTING CONSTRUCTION MATERIALS

Benefits of 3d printing in construction are reduction of health and safety risks, the use of recyclable materials, waste reduction and the capability to build otherwise infeasible design concepts.



JOB-SITE SAFETY

As technology moves workers further and further away from the most dangerous tasks, construction projects should **get safer**.