This report examines the additive manufacturing (AM) of concrete, its possibilities, feasibility and advantages over existing techniques. Traditional processing techniques and solutions for the construction industry are faced with a growing demand: to create large and complex structures at lower costs and in shorter time. These approaches include the use of conventional elements, making use of the modular nature of these elements to build a structure.

CONCLUSION: FUTURE VISION

- Reinforcement is used for inter layer strength. This reinforcement is used for inter layer strength.
- The extrusion head is used to print concrete without support material. The extrusion head is used to print concrete without support material. This is achieved through the use of a nozzle and roller system that can be adjusted to different conditions.
- Reinforcement is used for inter layer strength. Reinforcement is used for inter layer strength.
- The process is repeated till the surface of the reinforcement is covered with concrete using shotcrete. The process is repeated till the surface of the reinforcement is covered with concrete using shotcrete.
- Reinforcement is used for inter layer strength. Reinforcement is used for inter layer strength.
- Controlled material composition. Controlled material composition.
- Build around the reinforcement. Build around the reinforcement.
- Extra layer. Extra layer.
- Print with a low resolution the reinforcement. Print with a low resolution the reinforcement.
- Fast process. Fast process.
- High quality concrete (extruded at once). High quality concrete (extruded at once).
- Can be automated easily. Can be automated easily.
- Reinforcement shotcrete. Reinforcement shotcrete.
- The multiple mixture is the method that builds a layer around the reinforcement. The multiple mixture is the method that builds a layer around the reinforcement.
- Reinforcement is used for inter layer strength. Reinforcement is used for inter layer strength.
- The extrusion head is used to extrude concrete in elevated support. The extrusion head is used to extrude concrete in elevated support.
- Print in low resolution. Print in low resolution.
- Smooth surface. Smooth surface.
- High surface quality. High surface quality.
- Surface quality. Surface quality.