



3D printing market is expected to grow exponentially as its provides better quality products in less time, while maintaining low production costs

- Additive manufacturing (3D printing), Subtractive manufacturing and Injection molding are three types of manufacturing methods, among them 3D printing technology is widely adopted by industrial, automotive, healthcare, consumer products and other sectors
- 3D printing has the capacity to produce superior quality components, at much lower cost and in less amount of time, as well as provide customers with high level of customization
- According to Deloitte, global sales related to 3D printing by large public companies, including enterprise 3D printers, materials and services, is likely to surpass USD 3 billion in 2020

RIVERS...



CUSTOMISED DESIGNS: Ease in the development of customized products using 3D printing technology

investments in 3D printing projects REDUCE DOWNTIME: Reduction in manufacturing cost and

GOVERNMENT INVESTMENTS: Rising government



3D PRINTING MATERIALS: Development of new industrialgrade 3D printing material

process downtime as well as increasing applications of 3D printing

CHALLENGES...



HIGH COSTS





LACK OF an international standards body regulating manufacturers



LACK OF) printina expertise

KEY BENEFITS



Faster Design and **Prototype Production**



Product Testing

Tangible Design and



Can Implement

Cost-effectiveness



Risk Reduction

Assorted Raw Materials







Produces Better



Creative Designs and **Customization Freedom**

Unlimited Shapes And

Geometric Designs



Less Waste Production

KEY DEVELOPMENTS



waste production as compared to traditional cutand-sew methods New Balance, sneaker giant has teamed up with Formlabs to provide

personalized 3D printed

footwear for athletes

and has reported 60% less



require any replacement

- Bosch implemented 3D printing technology in their Bosch Mondeville production plant to manufacture electronic and mechatronic components for the
- automotive industry



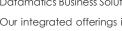
manufactured parts, the

components are printed on Stratasys FDM production systems using ULTEM 9085 resin and enable light weighting while reducing production time and costs



Manufacturing, Healthcare, Automotive, Retail & CPG, Travel & Logistics and Telecom.

- manufacturing sector; in last decade the industry has seen huge investment in R&D of 3D technology and there will be an increase in collaboration between existing players, such as hardware, software and service providers Ford, Google, Amazon and other major manufacturers have fostered strategic
- have started implementing it in their manufacturing process



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