

Oil and Gas:
3D printing - advent of the
new industrial revolution

Relevance of 3D printing in Oil & Gas

Industrial Additive Manufacturing (AM)/3D printing technology has emerged beyond prototyping and rapid tooling. “Additive Manufacturing” is creating durable and safe products in moderate to large quantities. This is the next industrial revolution and will redefine the supply chain process.

Oil & Gas companies have been experimenting with 3D printing technology for several years, mainly to assist with prototyping and reducing significant time for designing prototypes. Today, additive manufacturing becomes more relevant to cope with the unanticipated demands for components and the long lead time in procuring the components. Additive manufacturing also solves the problem of obsolescent equipment component sourcing and inferior component

design. By effective integration of 3D printing in their operations, Oil & Gas companies can bring significant improvements in their supply chain.

How Wipro enables the Oil & Gas industry with 3D printing

Wipro provides 3D printing as a service, enabled by its partner ecosystem and our strong in-house engineering expertise. For instance, Wipro has partnered with Authentise, which is aimed at offering mutual business growth opportunities and joint value driven by collaboration and executive commitment for our clients.

Wipro has a three step approach for adoption of AM technology – Identification, Institutionalization and Green Field Development.

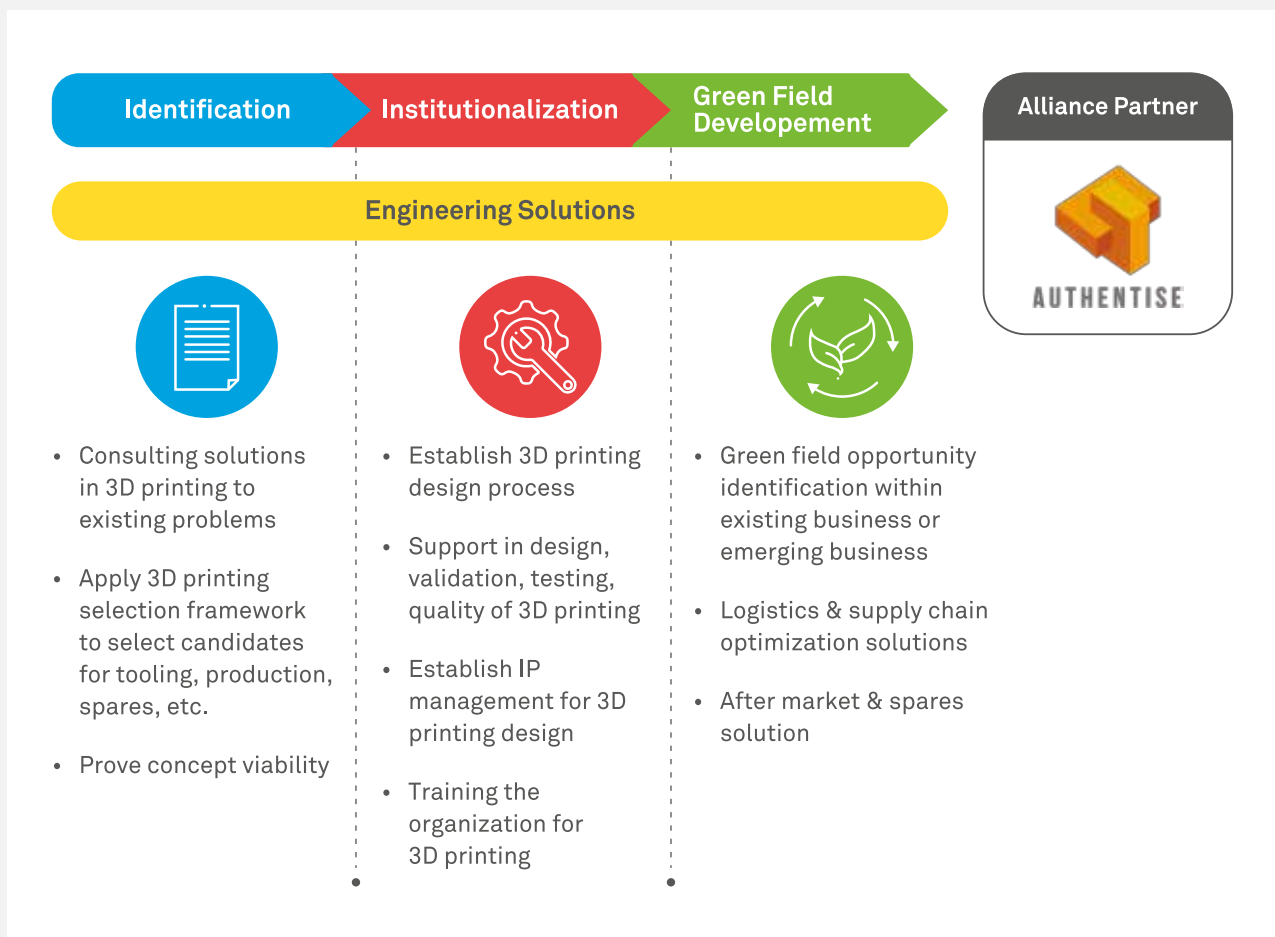


Figure 1: Wipro's three step approach for adoption of AM technology



Minimize asset downtime considerably, leading to non-disruptive production performance

Wipro has invested in 3D printing facilities and delivered services to our global clients across industries such as healthcare, aerospace and manufacturing.

Key benefits



Quick turnaround in building mock up proto models



Minimize the asset downtime by sourcing through 3D printed components



Reduce spares inventory and eliminate overheads in spares inventory cost overheads



Reduce support turnaround time compared to the traditional manufacturing methods



Higher utilization and machine productivity by increasing machine availability



Ability to manufacture obsolete parts



Opportunity to improvise component design for specific operating conditions



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