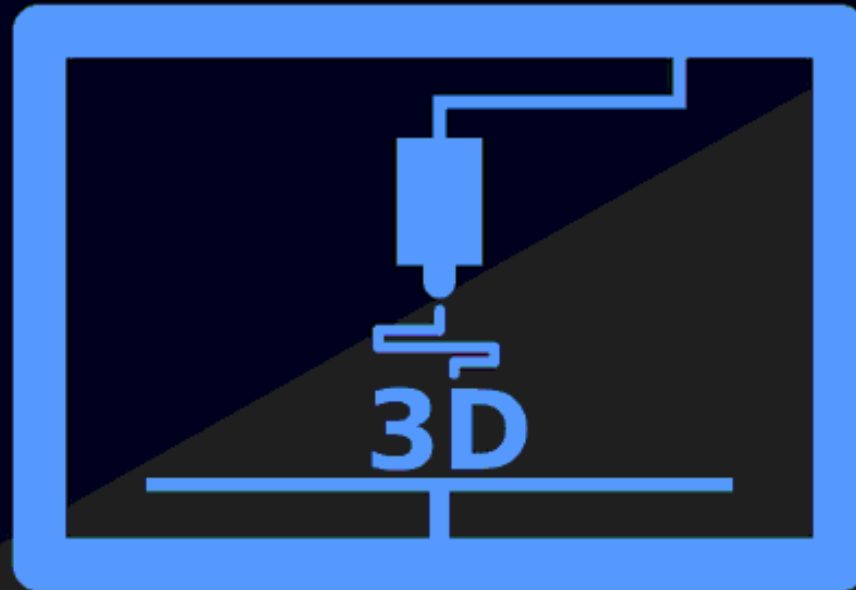


FUTURE OF 3D PRINTING AND THE WAY TO MAKE IT HAPPEN IN INDIA



WHAT IS 3D PRINTING OR ADDITIVE MANUFACTURING ??

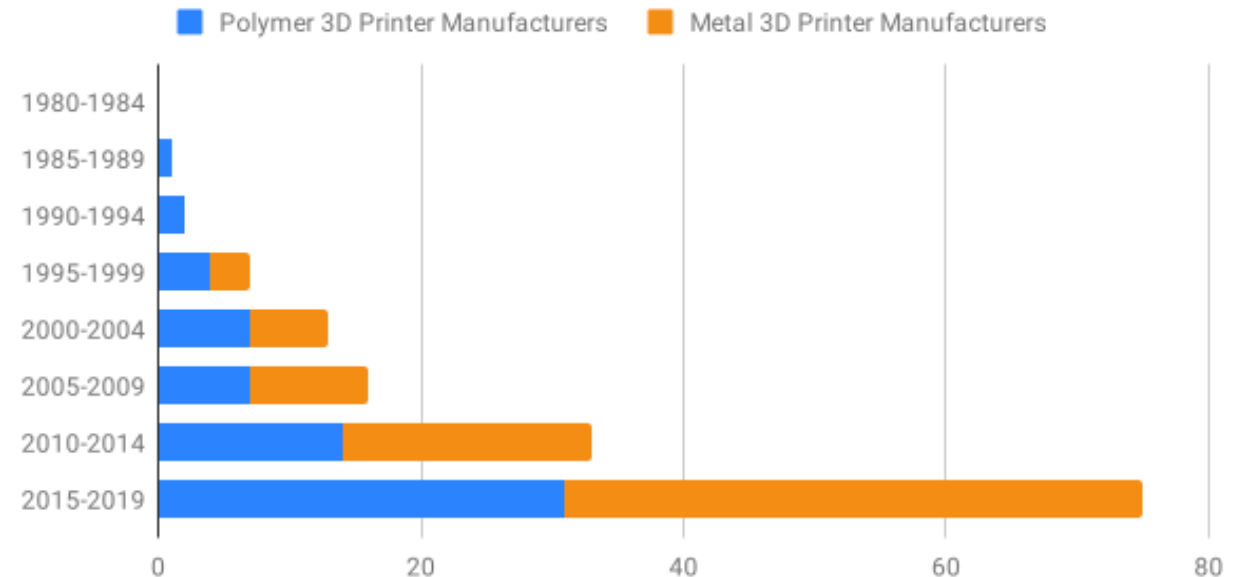


WHY ARE WE TALKING ABOUT IT NOW ?

What is the cost of a 3D printer?

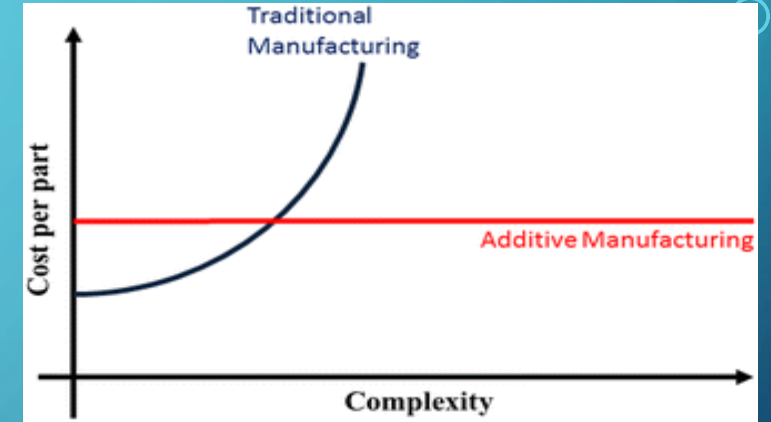
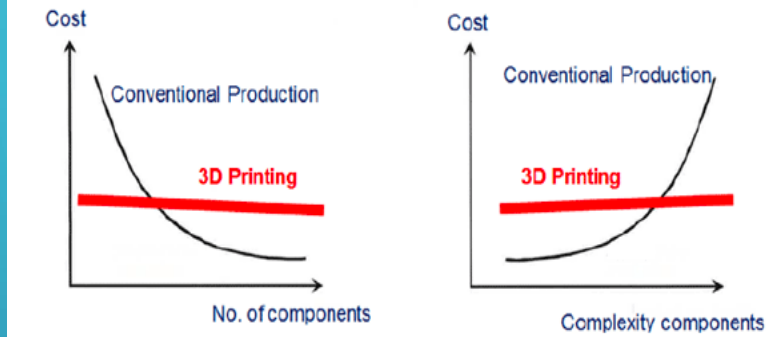


The Number of Polymer and Metal 3D Printer Manufacturers Compared

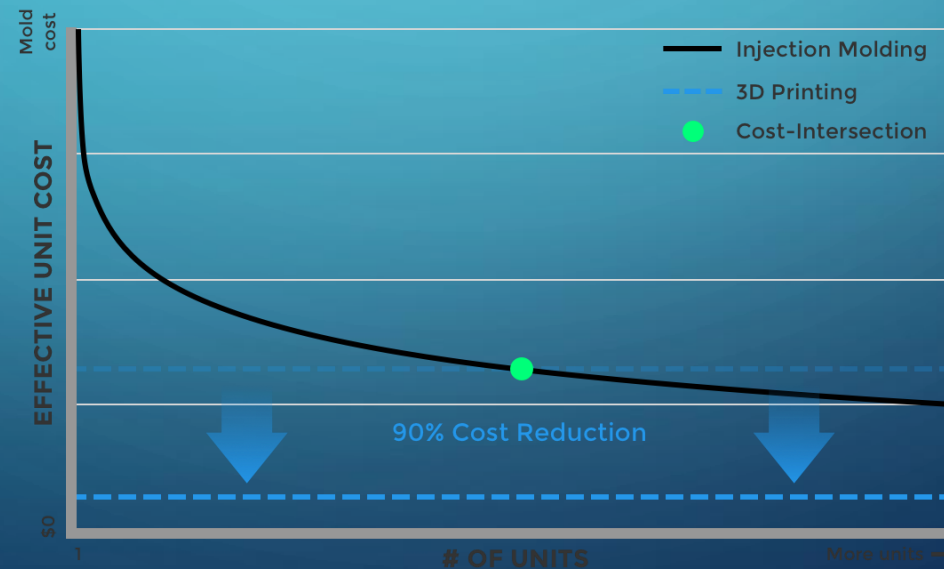


RECENT ADVANCEMENTS IN TECHNOLOGY AND DROP IN PRICE

Conventional production / 3D Printing



Injection Molding vs. 3D Printing Unit Costs

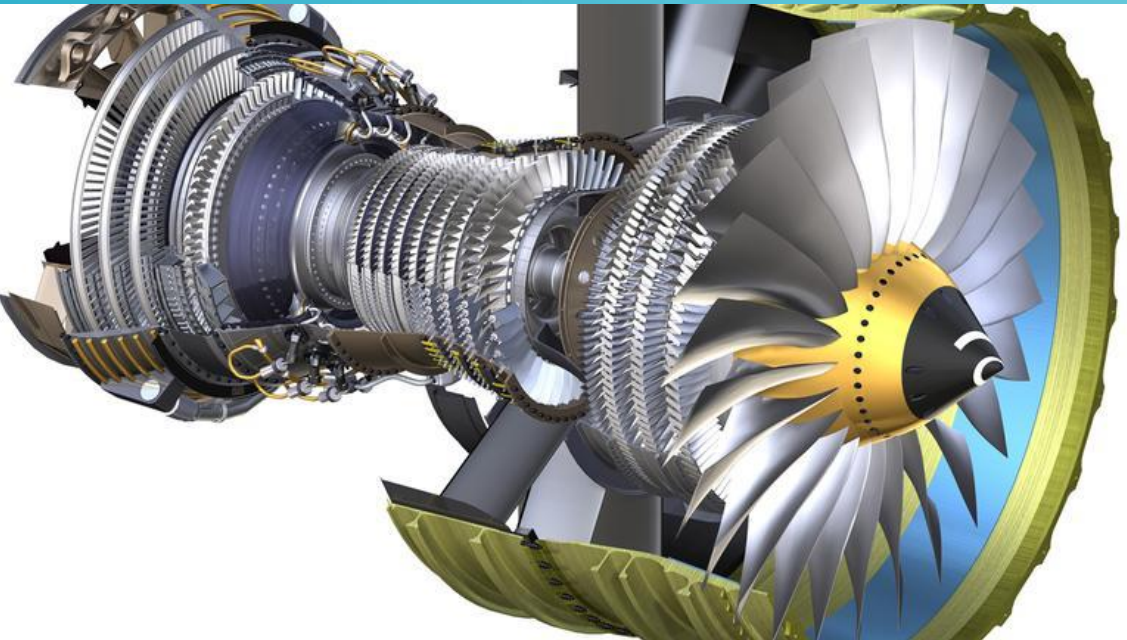


CONSUMER INTERESTS AND ENVIRONMENT CONCERNS



How much Electricity does a 3D printer consume?

LOW MATERIAL USAGE AND VERSATILE GEOMETRY



Aerospace 3d printing market in 2026 - 6 billion

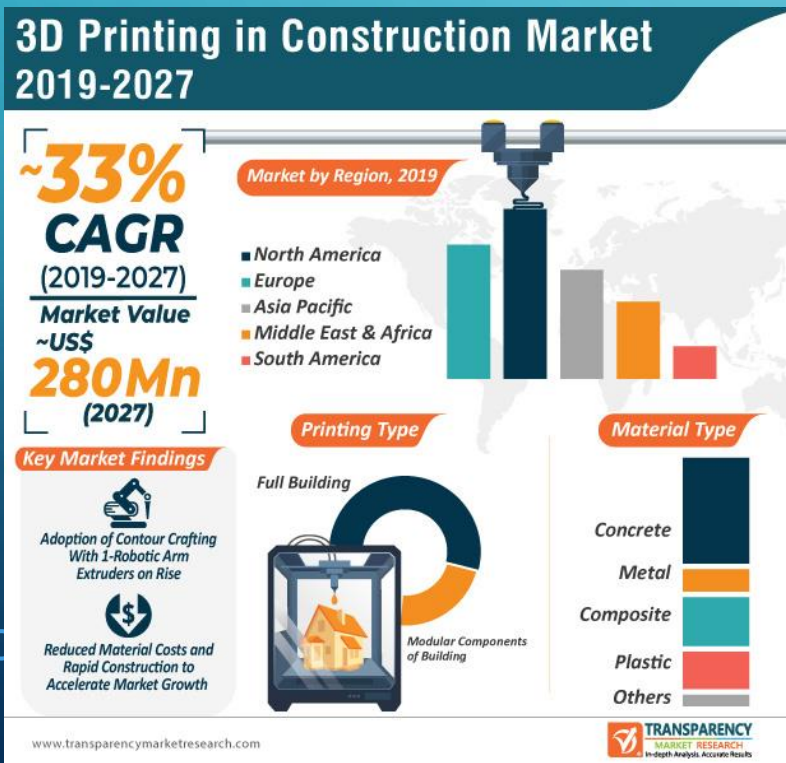




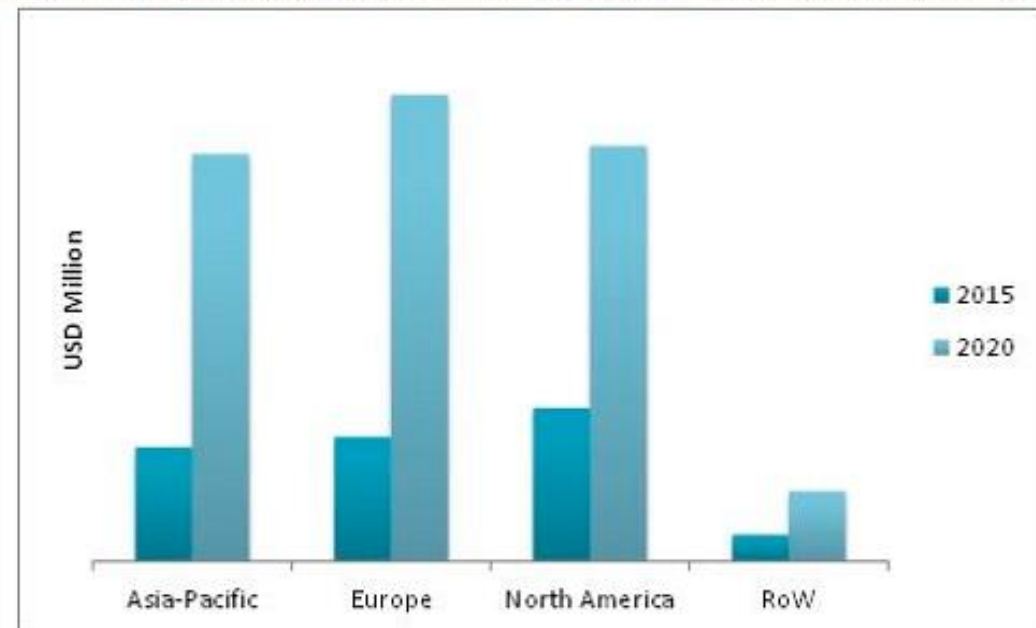
REDUCE INVENTORY COST

WHAT WILL THE FUTURE BE LIKE ??

- Growth of 28.5 % CAGR in 3D printing
- Market cap – 9.8 billion \$ /2018 , 34.8 billion\$ /2024.
- The market is categorized as optimistic even after the pandemic.



3D Printing Market for Automotive, by Region, 2015 vs. 2020 (USD Million)



Source: MarketsandMarkets Analysis

BOTTLENECK AND CHALLENGES WE MIGHT FACE IN THE NEAR FUTURE.

- Software development and capabilities
- Longer production timelines
- Lack of expertise and/or training among workforce/employees.
- Post-processing requirements



CHALLENGES

WE NEED TO START WORKING TOWARDS THE CHANGE TO BRING IT.

- Identify use cases.
- Educate and reskill people.
- Redesign how the market thinks about mundane products to add value to the business.



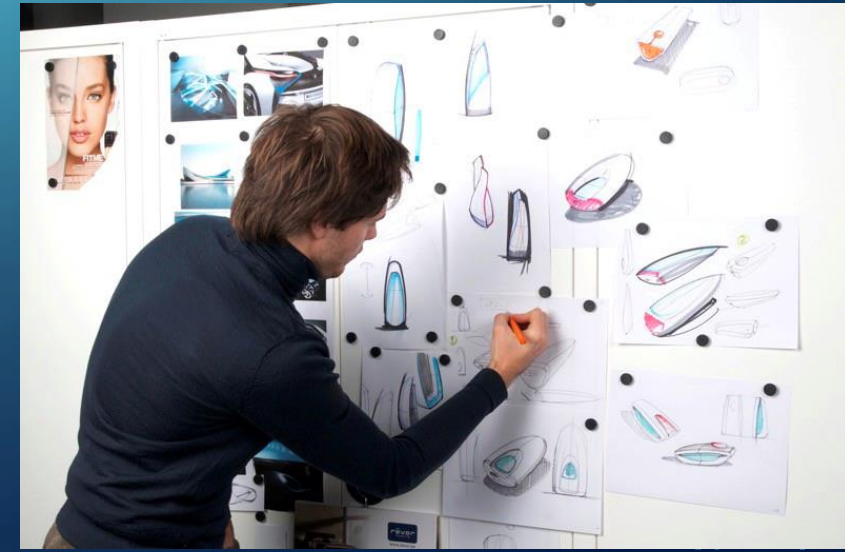
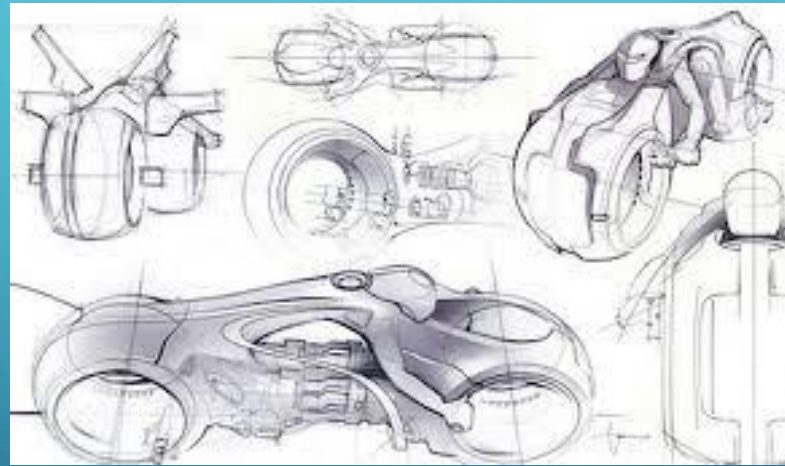
USE CASES

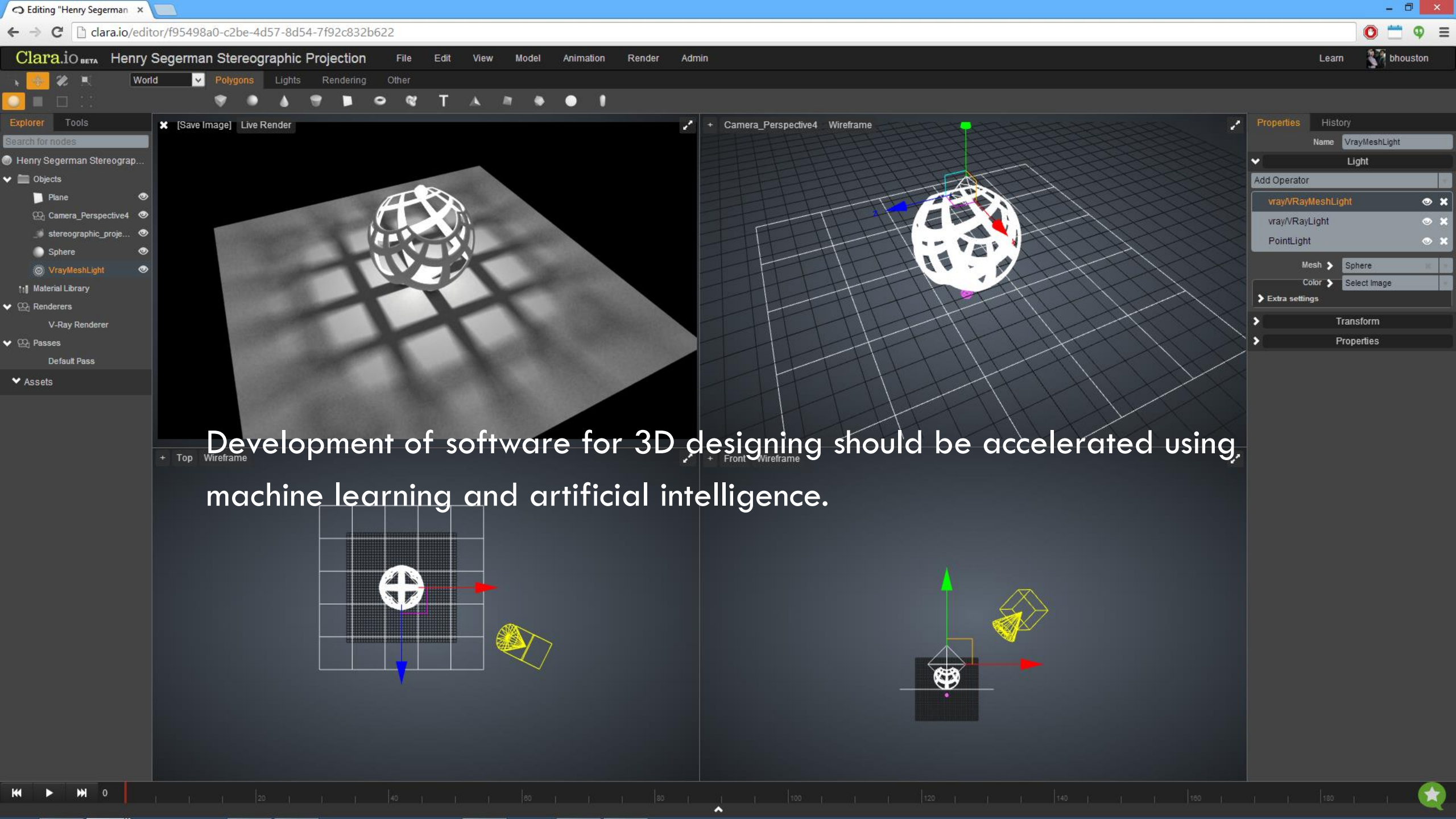
- Leave no stone unturned in any environment
- Analyse total value added by the technology
- Shop floor, Hardware Service, office and home
- From rocket engines to shoes



EDUCATION AND RESKILLING

- Awareness about basics of 3D printing should become a common knowledge across industries and common people.
- Vocational training for beginners will help in advancing the pace of learning.
- Product designing must be taught in schools with the help of designing software





Development of software for 3D designing should be accelerated using machine learning and artificial intelligence.

ANY QUESTIONS?



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