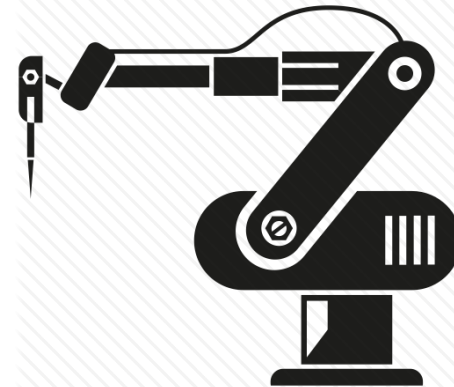
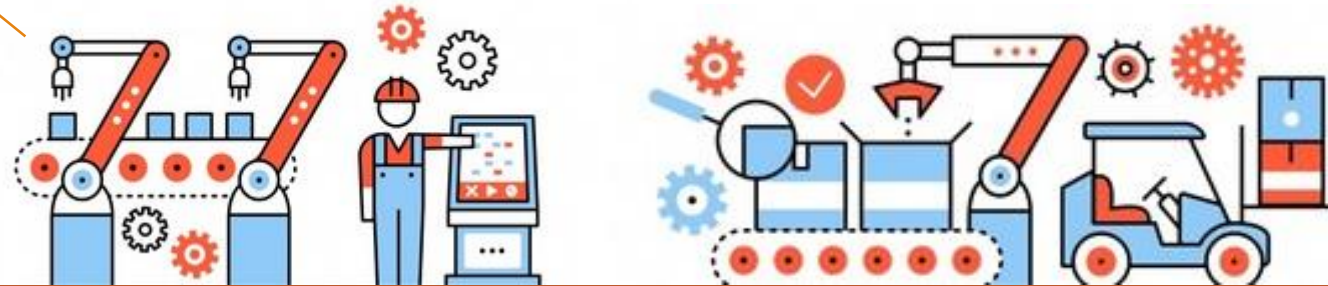


## INDUSTRY 4.0 – SMART MANUFACTURING (SM)

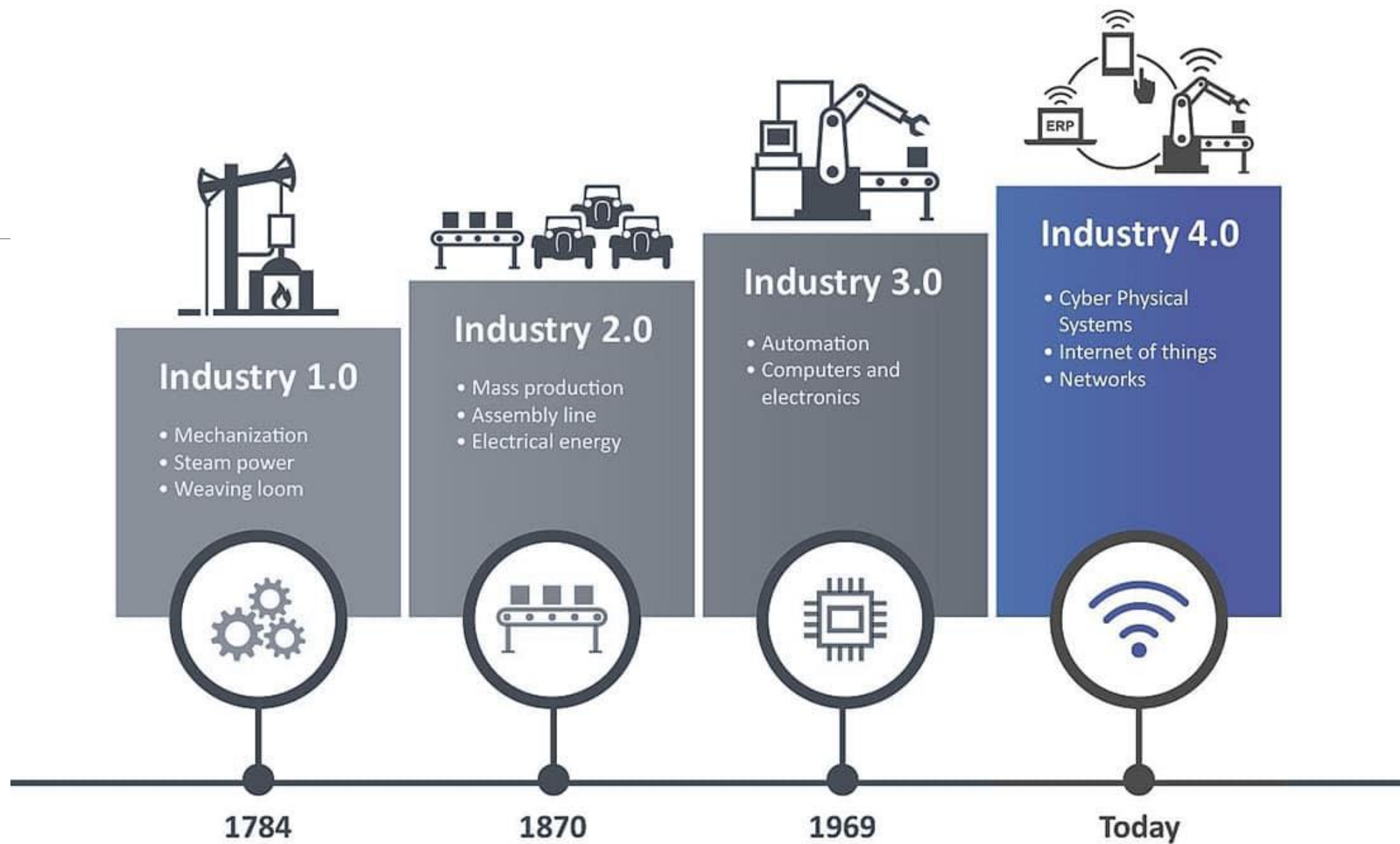
**Smart manufacturing** (SM) is a technology-driven approach that utilizes Internet-connected machinery to monitor the production process. The goal of SM is to identify opportunities for automating operations and use data analytics to improve **manufacturing** performance.



## INDUSTRY 4.0 – SMART MANUFACTURING (SM)

---







ADVANCED  
ROBOTS



ADDITIVE  
MANUFACTURING



HORIZONTAL / VERTICAL  
INTEGRATION



AUGMENTED  
REALITY



CLOUD &  
CYBER SECURITY



SIMULATION



INDUSTRIAL  
INTERNET



BIG DATA &  
ANALYTICS



ADDITIVE MANUFACTURING:  
MOVING BEYOND RAPID  
PROTOTYPING



“3D PRINTING” : A  
BUZZWORD OF  
CURRENT TIME

DIGITAL  
MANUFACTURING

ADDITIVE  
FABRICATION

RAPID  
PROTOTYPING

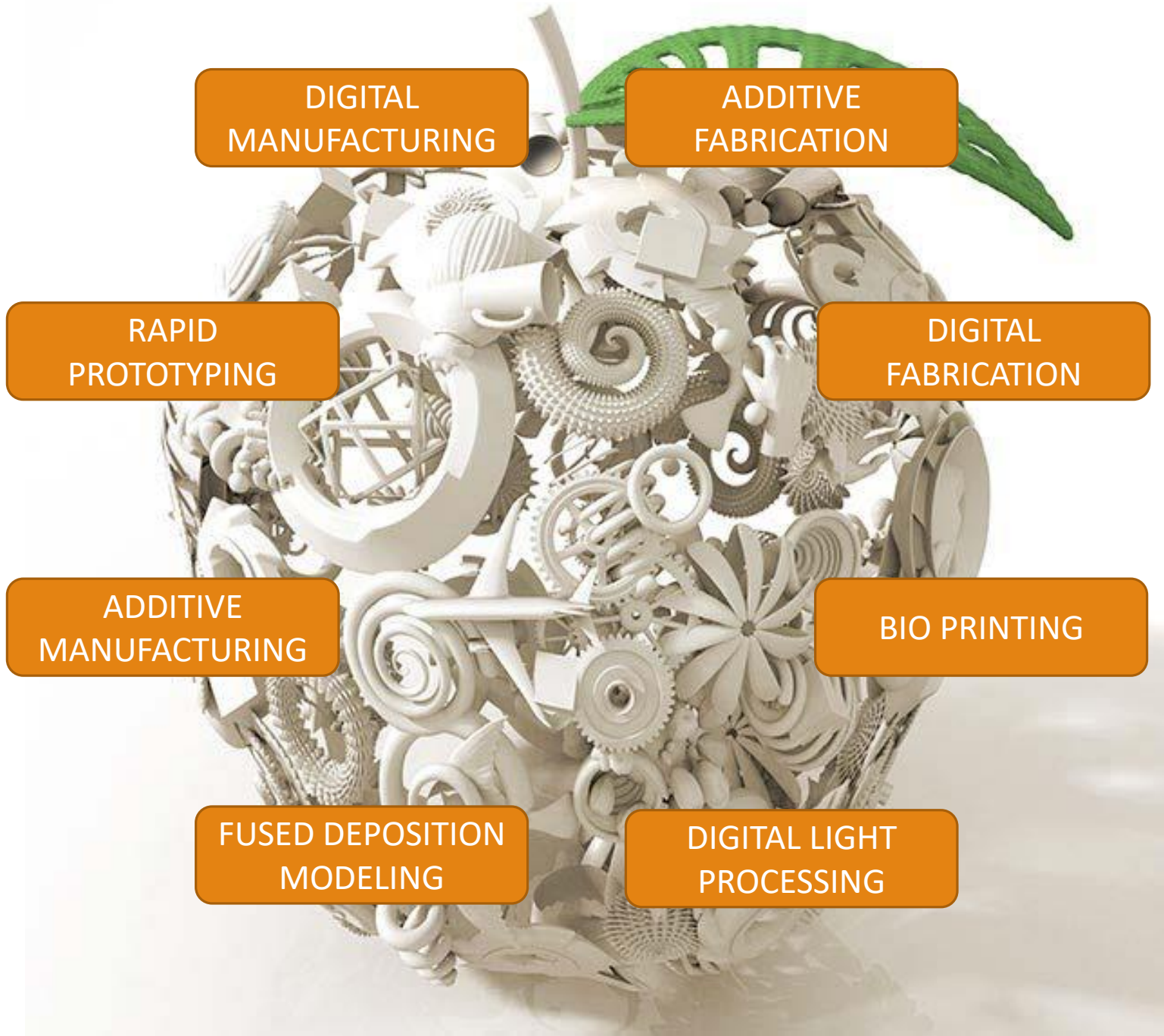
DIGITAL  
FABRICATION

ADDITIVE  
MANUFACTURING

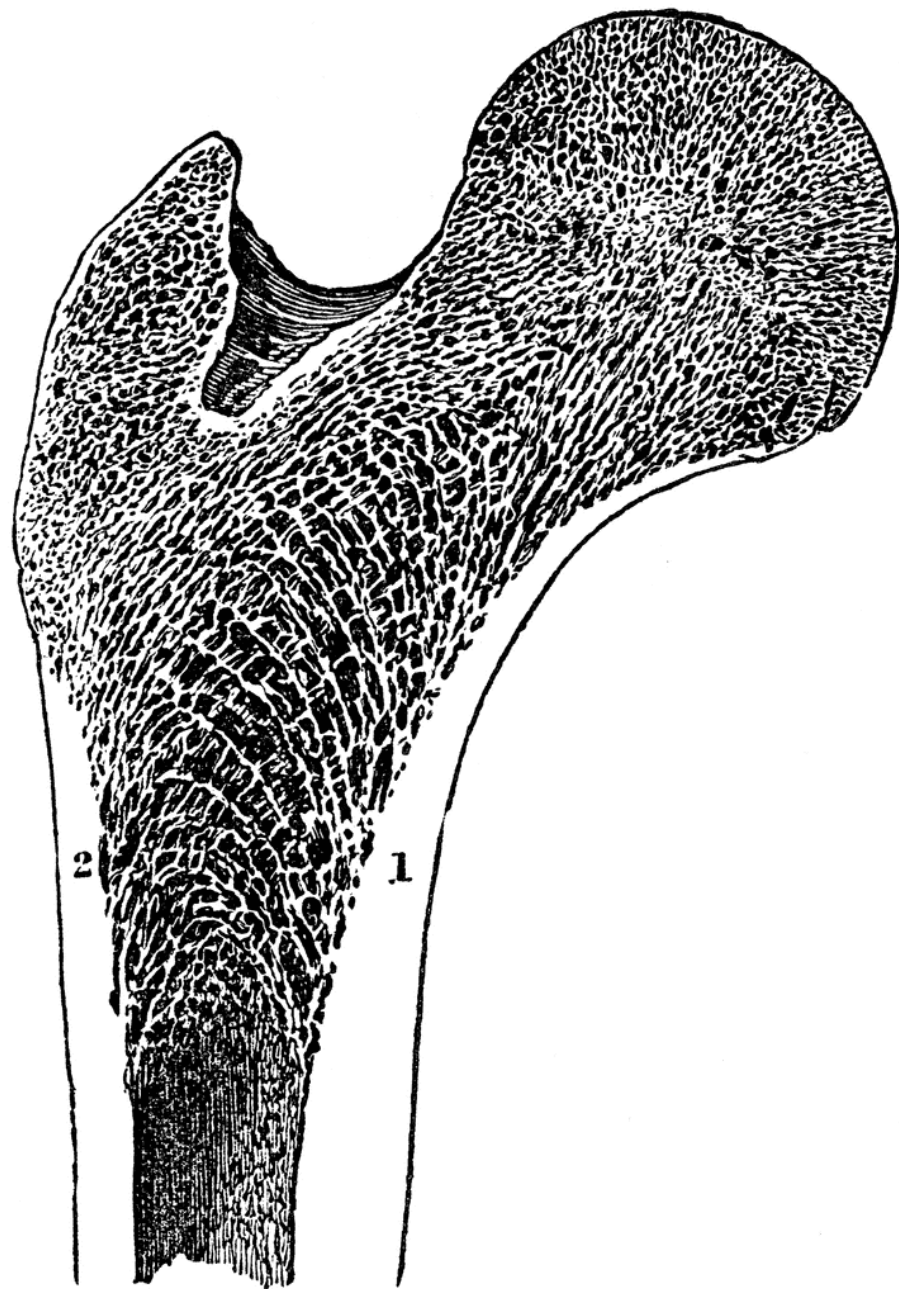
BIO PRINTING

FUSED DEPOSITION  
MODELING

DIGITAL LIGHT  
PROCESSING



why people call it **DISRUPTIVE TECHNOLOGY** or  
a next **INDUSTRIAL REVOLUTION** ?



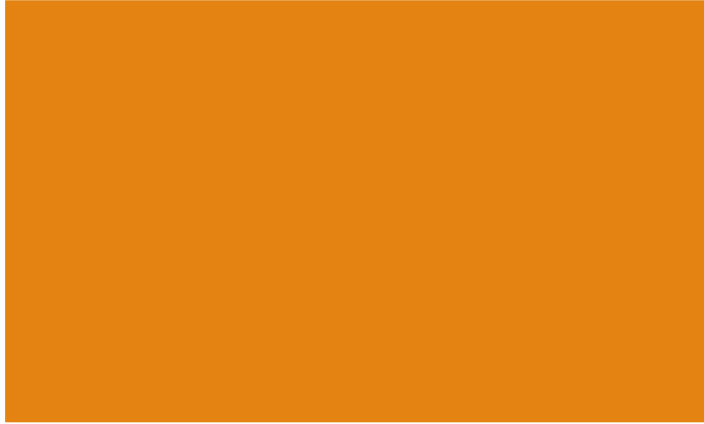
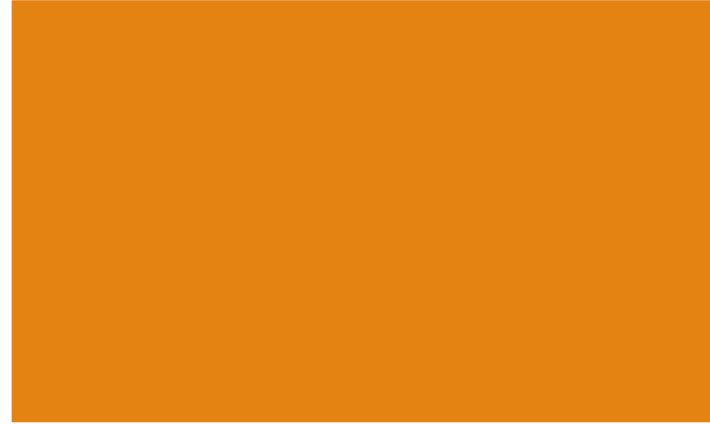


how do we make stuff ?



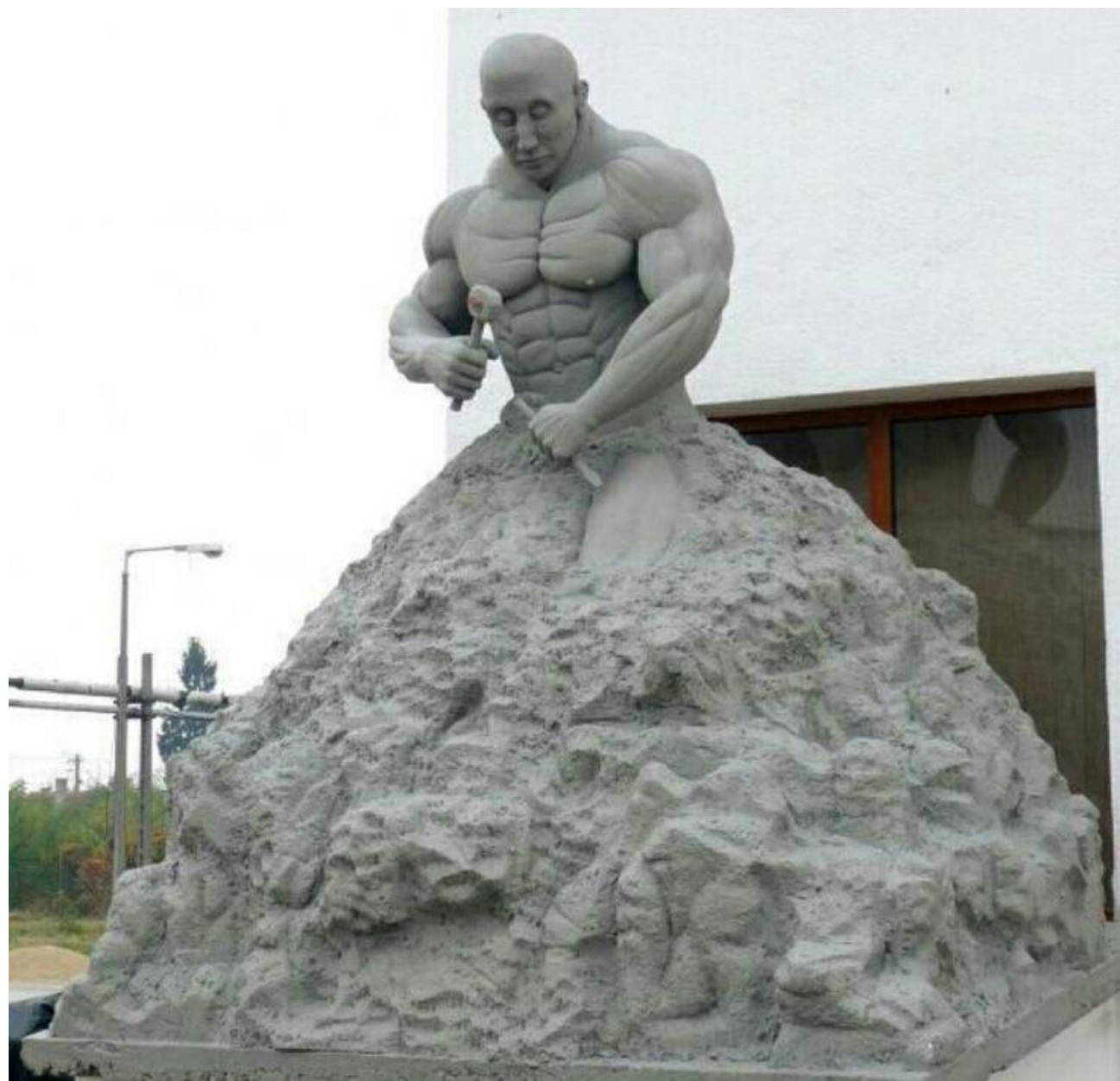
from raw material to product

how do we make stuff ?



how do we make stuff ?

subtractive



how do we make stuff ?

Subtractive

forming



how do we make stuff ?

subtractive

forming

casting



how do we make stuff ?

subtractive

forming

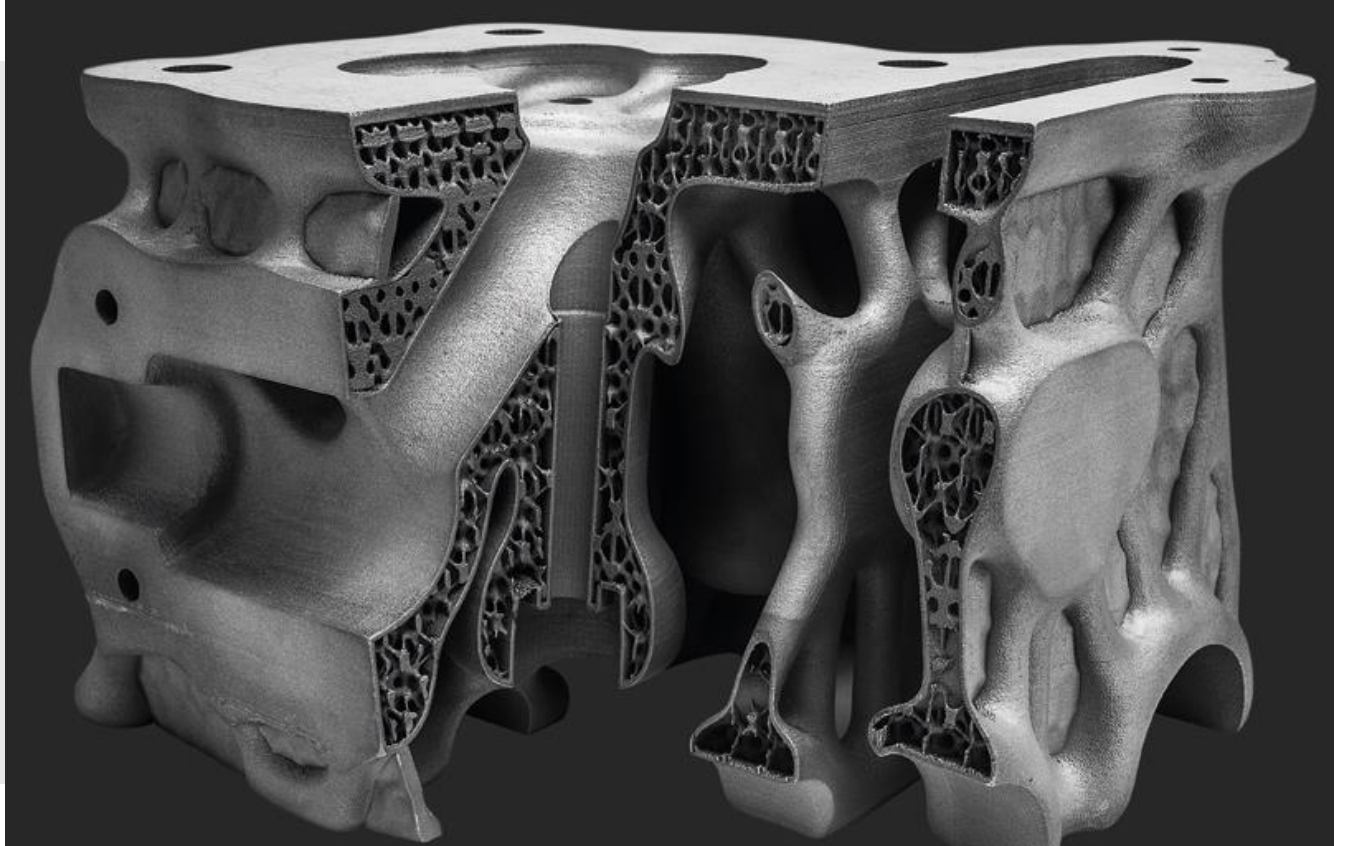
casting

additive

# Additive manufacturing – A Smart Choice



Conventional  
5.1 kg



Additive  
1.9 kg

# Additive manufacturing – A Smart Choice



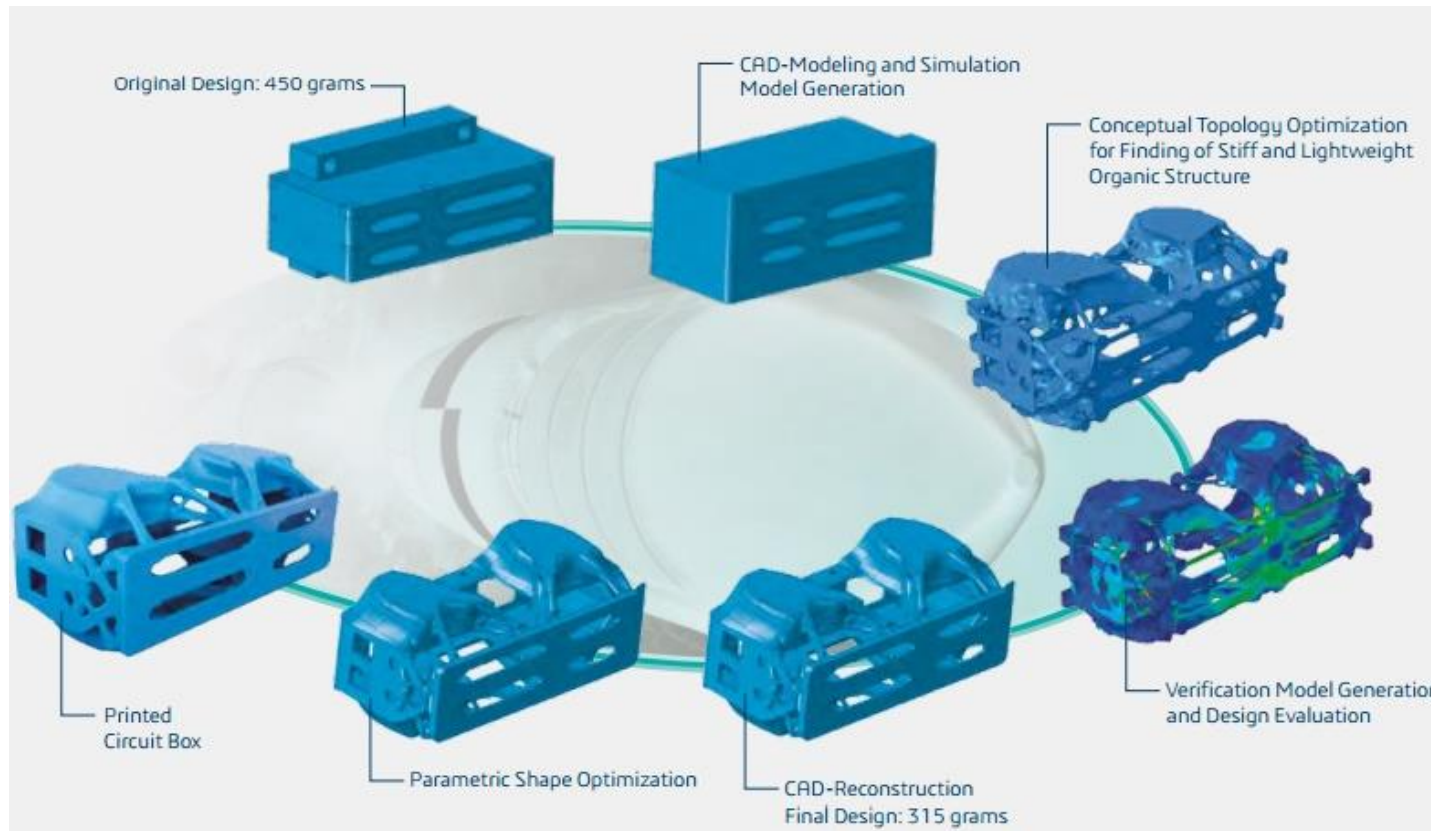
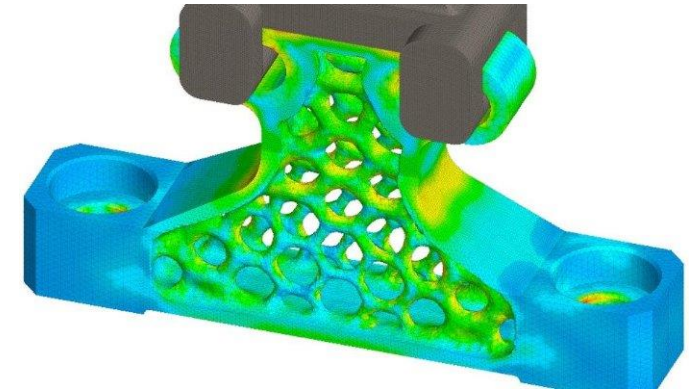
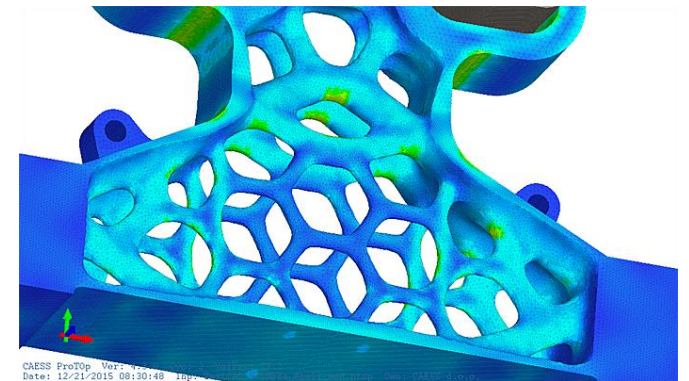
# Additive manufacturing – A Smart Choice



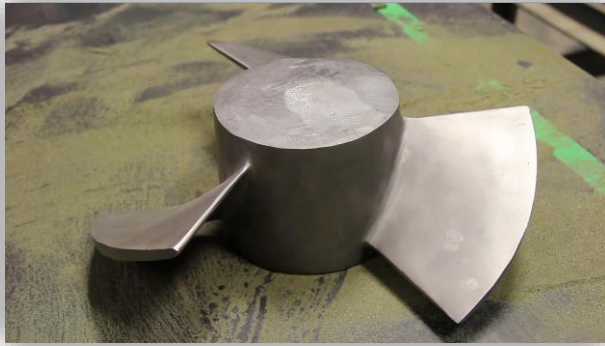
# Additive manufacturing – A Smart Choice



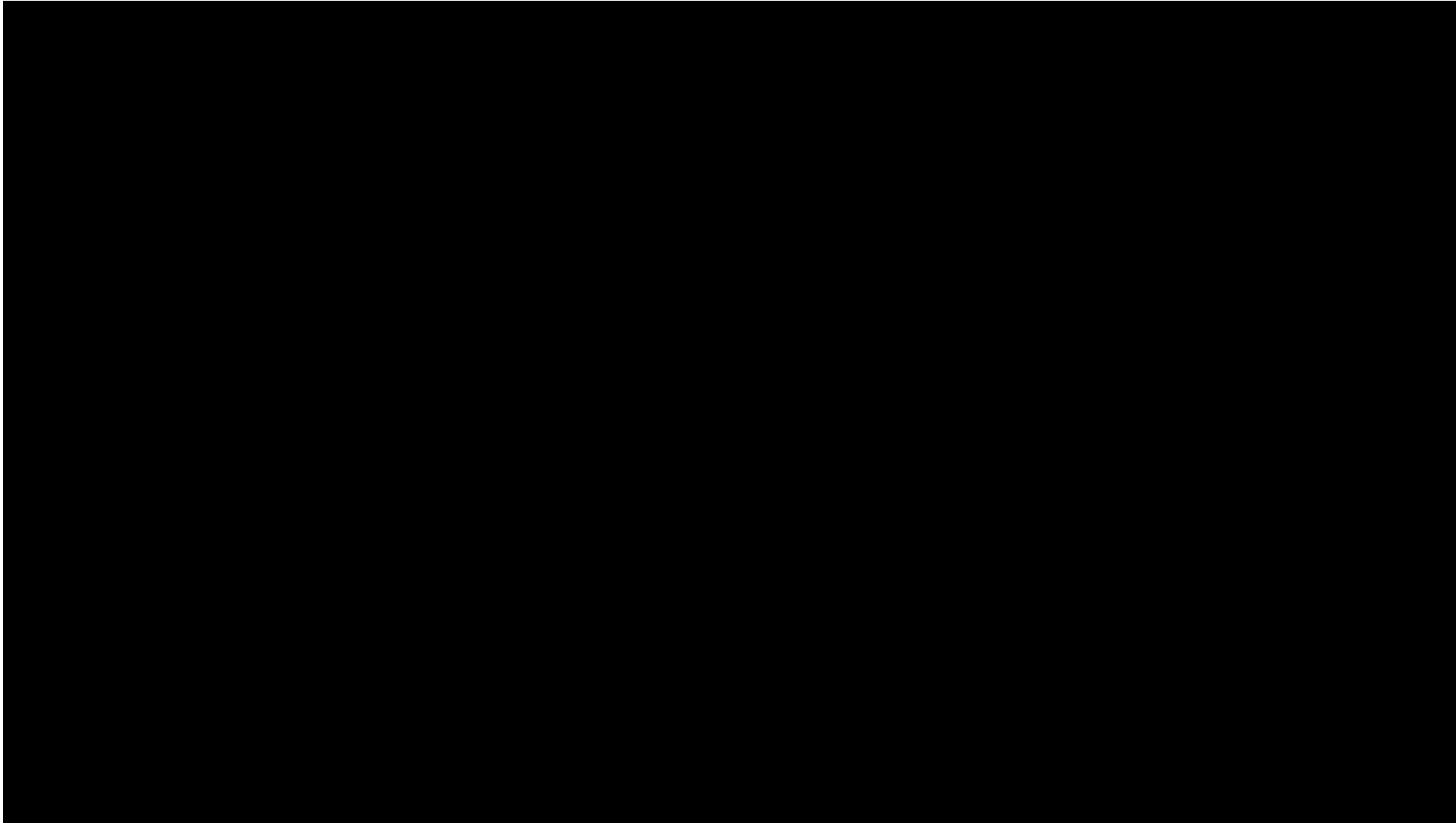
# DFAM (Design for Additive Manufacturing)



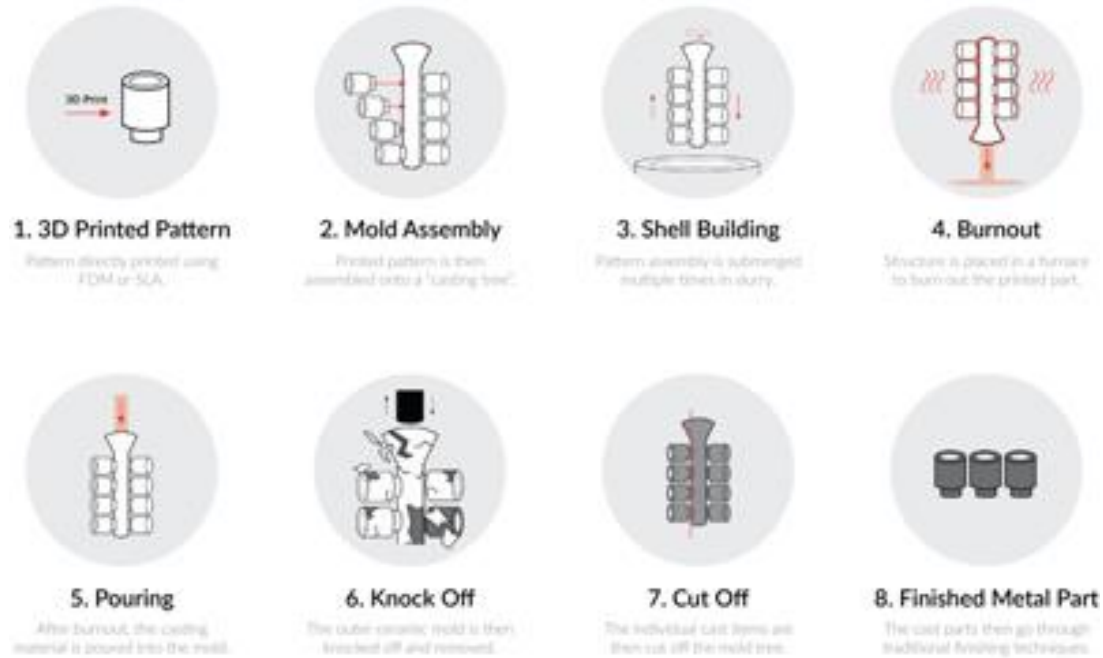
# RAM – Robotic Additive Manufacturing – A Smart Foundry



# RAM – Robotic Additive Manufacturing – A Smart Foundry



# Additive Manufacturing in investment casting– A Smart Foundry



3D Printing enables the manufacturing of complex shapes and designs enabling structures that are lightweight, but stronger

Typical Applications:

- ✓ A prototype for a new product
- ✓ A highly customized or complex part or product
- ✓ A product with complex features or geometries traditional manufacturing cannot make
- ✓ A small run of an existing part / product
- ✓ Quick replacement of no-longer-being-made parts for an older legacy products
- ✓ Need for a one-off object fast and can't wait for the longer traditional manufacturing cycle, shipping, customs or other delays

# 3D Printing Solutions We Provide...

FDM – Fused  
Deposition  
Modeling based  
3D Printers  
manufactured  
by **Engineering  
Technique**



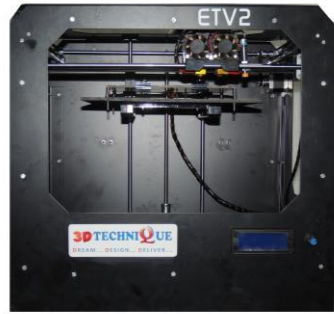
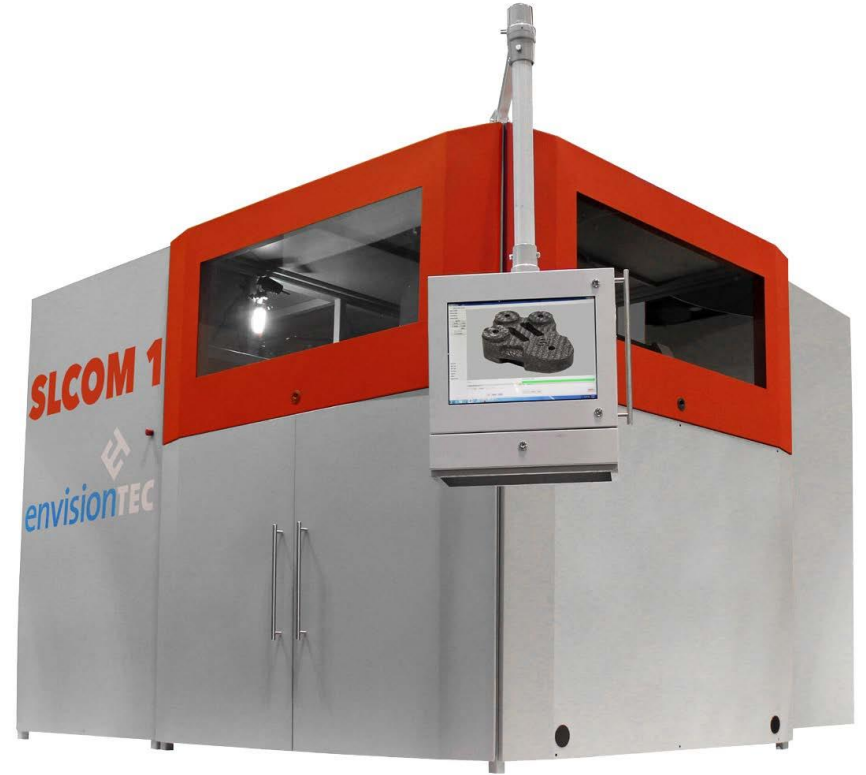
Solutions by  
EnvisionTEC,  
Markforged, &  
Shining3D



Technologies we offer,

1. DLP – Digital Light Processing
2. 3SP – Scan Spin & Selectively Photocure
3. Bio Fabrication
4. SLCOM - Selective laminate composite object manufacturing
5. Robotic Additive Manufacturing Technology (Viridis3D)
6. SLA (Stereolithography)
7. SLS (Selective Laser Sintering)
8. SLM (Selective Laser Melting)
9. ADAM - Atomic Diffusion Additive Manufacturing
10. CFF – Continuous Fiber Filament

# 3D Printing Machines



# 3D Printing Materials

## Polymers

ABS, PLA,  
Nylon, PC,  
PP etc.



## Cast-able Resin

For 3D Printing  
Patterns for  
Investment  
casting



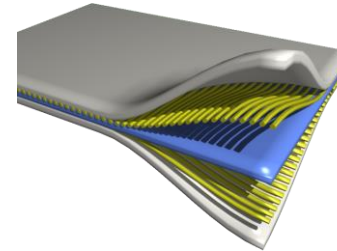
## Metals

SS, Aluminium,  
Tool Steel,  
Inconel,  
Titanium, etc.



## Composites

Carbon fibre,  
Fibre Glass,  
Kelvar,  
PEEK, etc.



## Sand

For Sand Casting  
Molds & Cores



# EVERY INDUSTRY CAN NOW BE IMPACTED BY 3D PRINTING

FROM INDUSTRIES FAMILIAR WITH 3DPRINTING



## MEDICINE

Artificial human tissue with several properties of living tissues is fabricated with a 3D printer



## DENTAL

The dental industry has used 3D printers to make custom parts that require a perfect finish (crowns, bridges, dentures...)



## CAR

An Australian programmer has built its own Aston Martin DB4 using a 3D printer



## TIRE

Michelin used 3D printing to mold tire prototypes



## AIRCRAFT

A 5-meter long titanium airplane part has been 3D printed in one piece

# EVERY INDUSTRY CAN NOW BE IMPACTED BY 3D PRINTING

TO INDUSTRIES NEWLY ENGAGED WITH THIS TECHNOLOGY



## TOYS

Disney researchers develop software to enable people to create and print in 3D format mechanical toys



## FOOD

The ChefJet 3D printer produces edible prints (with flavors like chocolate, vanilla, mint...)



## DEFENCE

World's first 3D printed metal gun by additive manufacturing process



## FASHION

Victoria's Secret printed a 3D lingerie ensemble for its annual fashion show



## JEWELLERY

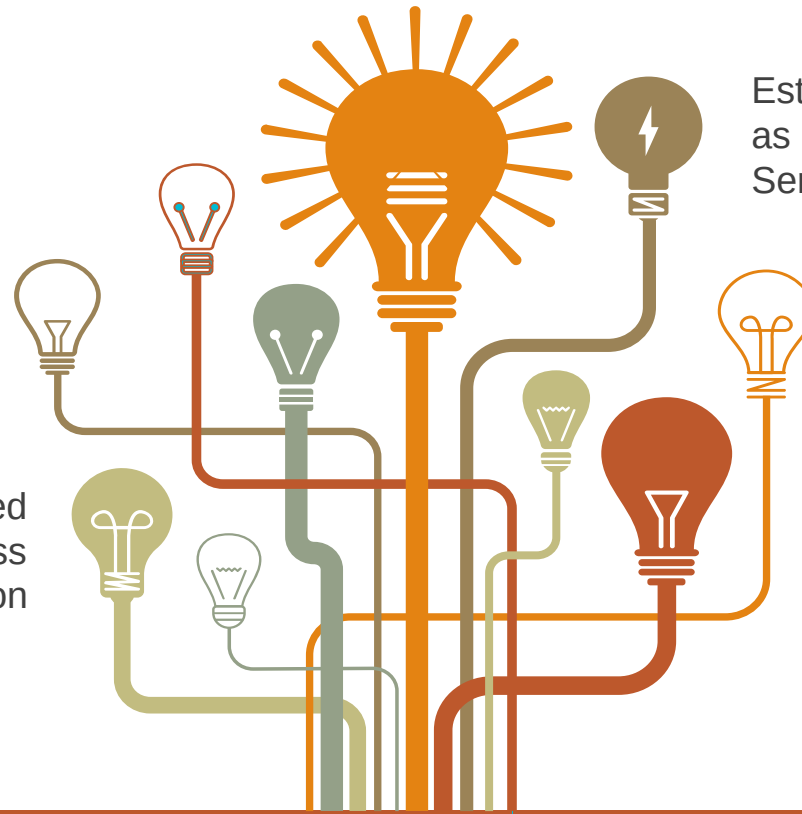
3D rings printed and cast in gold by EnvisionTEC 3D Printers

ENGINEERING  
**TECHNIQUE**  
Your Vision, Our Solution, Your Success

---

Managing Customer  
base right from  
SME's To Large  
Accounts

Team of Certified  
Professionals Across  
Organization



Established in 2000  
as an Engineering  
Service Provider

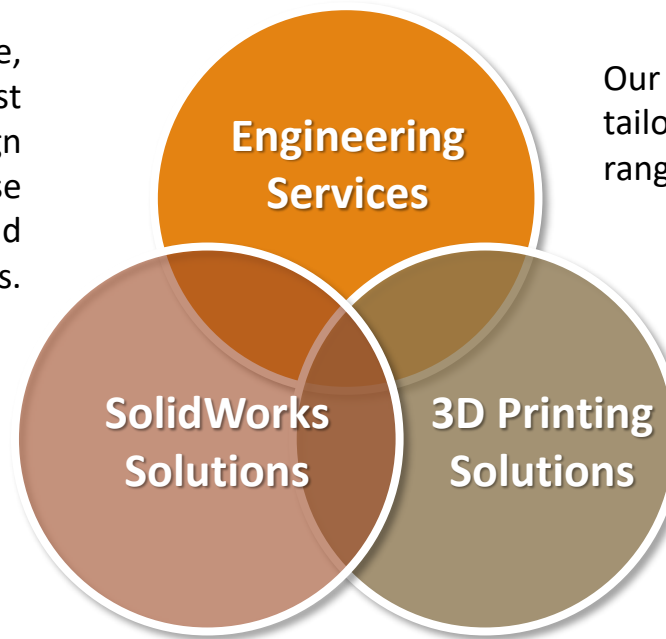
Awarded & Recognized For  
Providing Engineering  
CAD/CAM/CAE/PDM/RPT  
technologies

# Our Business

---

We at Engineering Technique, provide high quality and cost effective Engineering design services that will quickly increase your design capacity and resources.

Being the Authorized Reseller for SolidWorks we at Engineering Technique provide end to end 3D Design solution through SolidWorks products along with the partner products



Our engineering design solutions are tailored to meet the needs of wide range of industry verticals

We are now a PAN India Distributor of EnvisionTEC, Germany for their range of professional grade 3D Printing Solutions addressing industry verticals like, Medical, Dental, Manufacturing, Jewelry, Aerospace, Automotive etc.

At Engineering Technique we provide the complete 3D Solutions under one roof.

# Corporate Profile – Engineering Technique

Founded: 2000

Headquarter: Vadodara

Branch Offices: Ahmedabad & Surat

**4 Channel Partners** in India with  
**30+ Direct & 200+ Indirect employees** serving  
**500+ customers** across India

## Awards and Recognitions:



## Group Company:



(A 30 years old Welding machine manufacturer)  
[www.technique-baroda.com](http://www.technique-baroda.com)

## Business Alliances:



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# Engineering Technique's Education Profile



## 3D CAD - SolidWorks & 3D Printer *Education*

*in*



**Rudresh Vyas**  
Education Manager

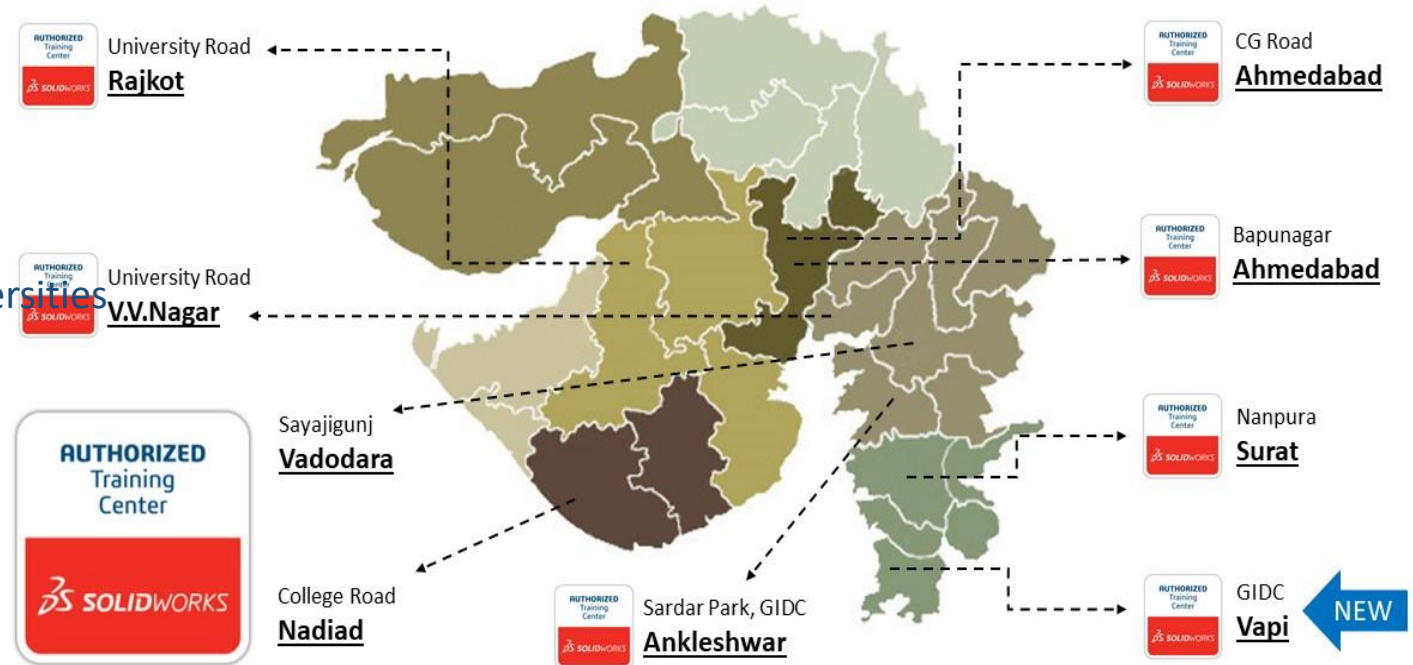
# Education Profile of Engineering Technique

- **10 SATCs** (SolidWorks Authorized Training Centres) in **7 Cities** of Gujarat
- **25+ Trainers** Internationally Certified
- **1500+ Students** Trained & Certified
- **1500+ Students** International CSWA Certified
- **75+ Seminars/Workshops** in Engineering Colleges /Universities
- **30+ Colleges & Universities** using SolidWorks
- **DFAM / DAM (3D Printer)** futuristic courses launched
- **Placement / Immigration support** for Trained students

## Partial list of Colleges/ Universities!



## SOLIDWORKS ATC Network (Gujarat)

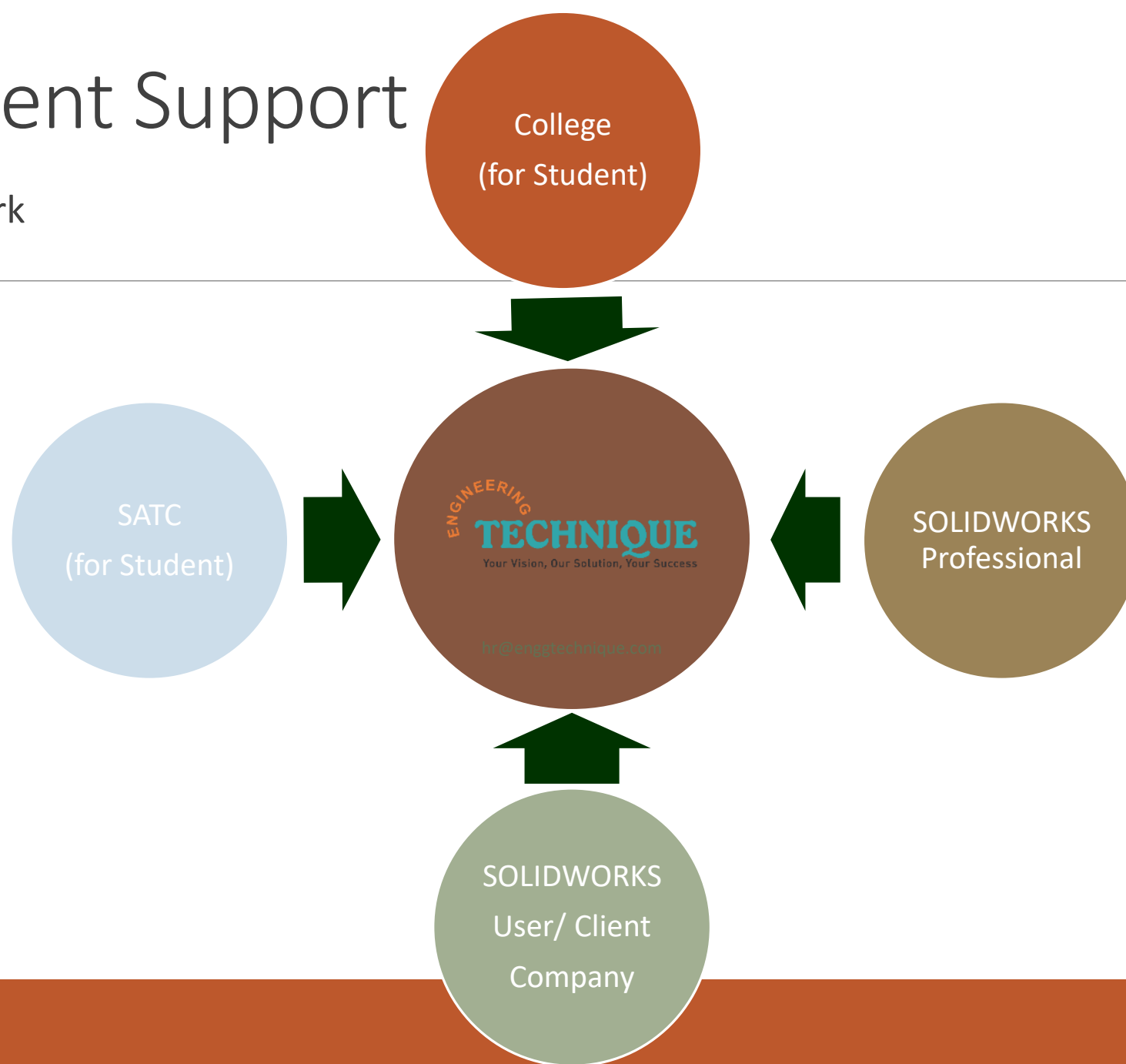


Call for enquiry @ +91-93762 11272

**HEAD OFFICE** | 1-2-3 SIYA ENCLAVE, Near Ambe School, Opp Krishna Bungalows | Darbar Chokdi, Vadsar Road, Marjalpur | Vadodara - 390 011  
**REGIONAL OFFICE** | B-701, Solitaire Corporate Park, Prahaladnagar | Nr. Divya Bhaskar Press, SG Highway | Ahmedabad - 380 015 | INDIA

# Placement Support

By SATC Network



# Partial List Of Our Clients



and 600+ more

