ADDITIVE MANUFACTURING

What is Additive Manufacturing

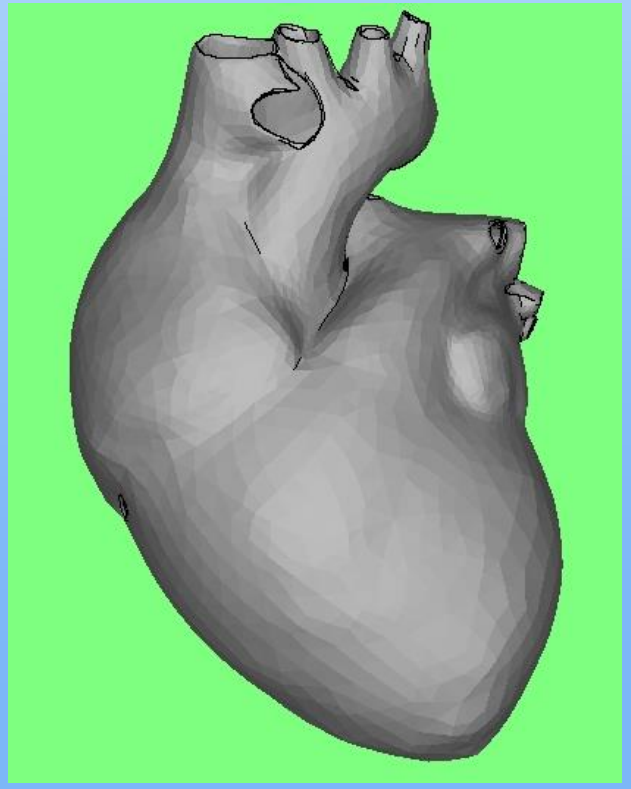
- Additive manufacturing (AM), noun – process of joining materials to make objects from 3D model data, usually layer upon layer, as opposed to subtractive manufacturing methodologies.
  - Synonyms: additive fabrication, additive processes, additive techniques, additive layer manufacturing, layer manufacturing and freeform fabrication.
- Rapid prototyping, noun – additive manufacturing of a design, often iterative, for form, fit or functional testing or combination thereof.

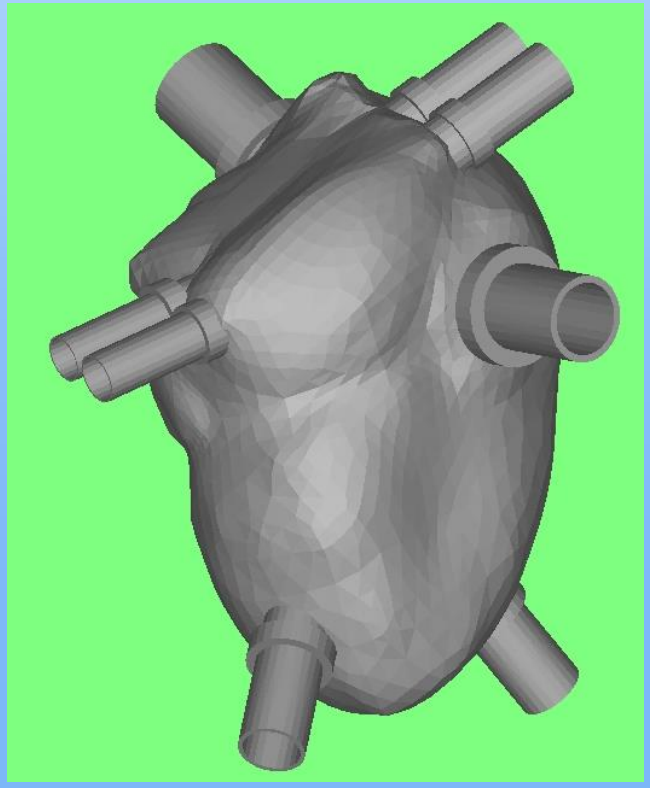
Additive Manufacturing

- As an Enabling Technology AM is used in a broad spectrum of manufacturing.
- Some applications of this technology include:

Additive Manufacturing Applications

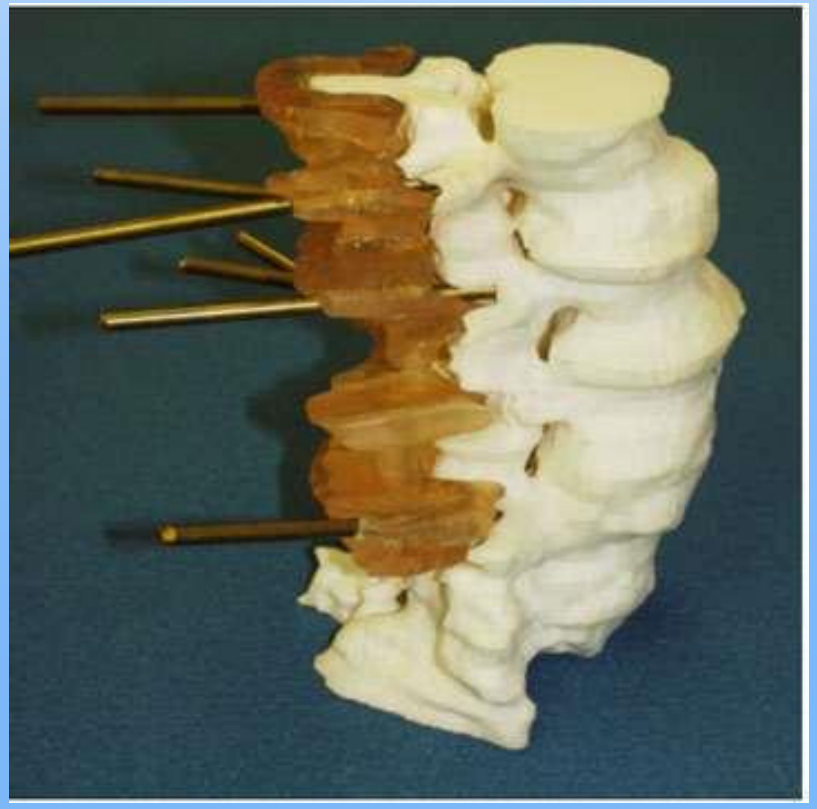
- Medical Diagnostics





Additive Manufacturing Applications

- Medical imaging



Additive Manufacturing Applications

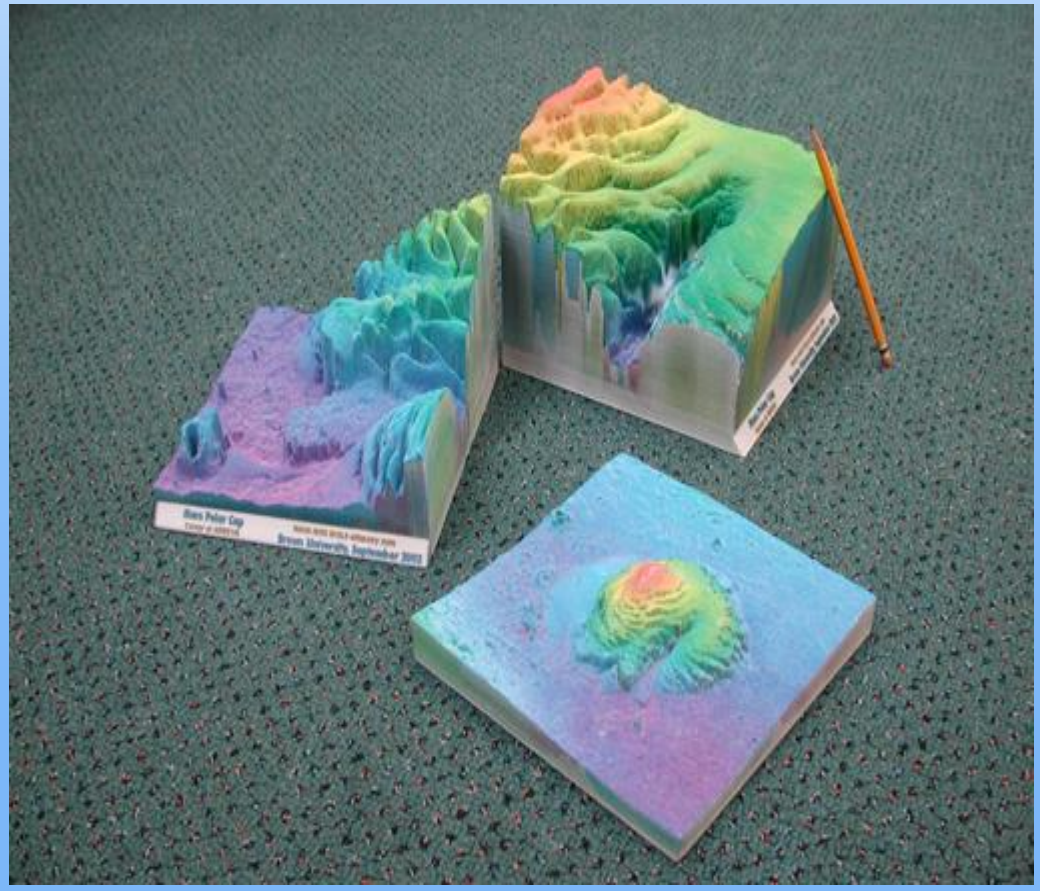
- Dentistry

Additive Manufacturing Applications

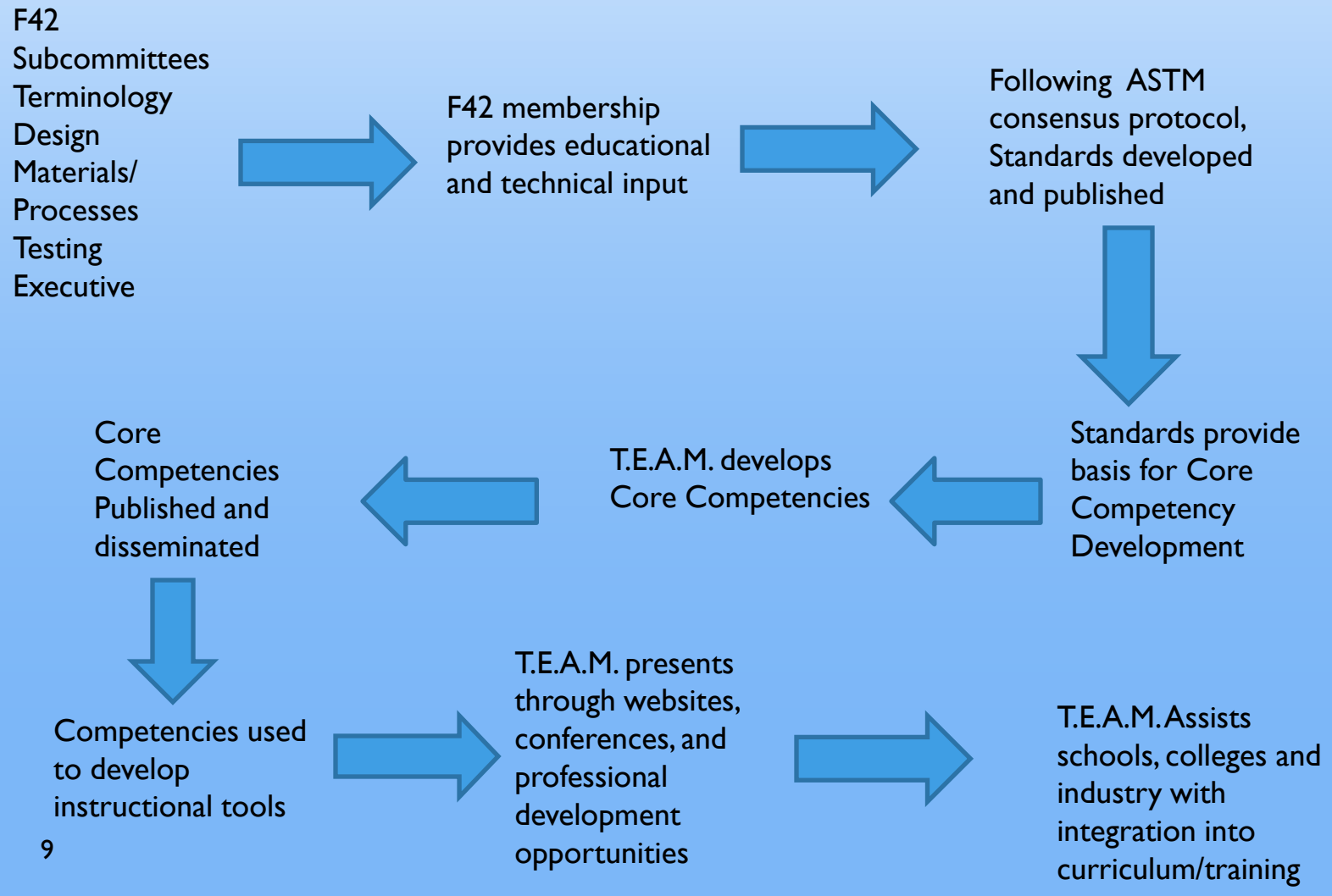
- Paleontology

Additive Manufacturing Applications

- GIS Survey



INTEGRATION OF ASTM F-42/-T.E.A.M. - EDUCATION



AM Applications

- Other Applications:

Can you think of other areas where the use of AM technology would be appropriate?

AM Application Examples

- Architecture and Design

Morongo Casino, Palm Springs, Model

AM Application Examples

- Architecture and Design

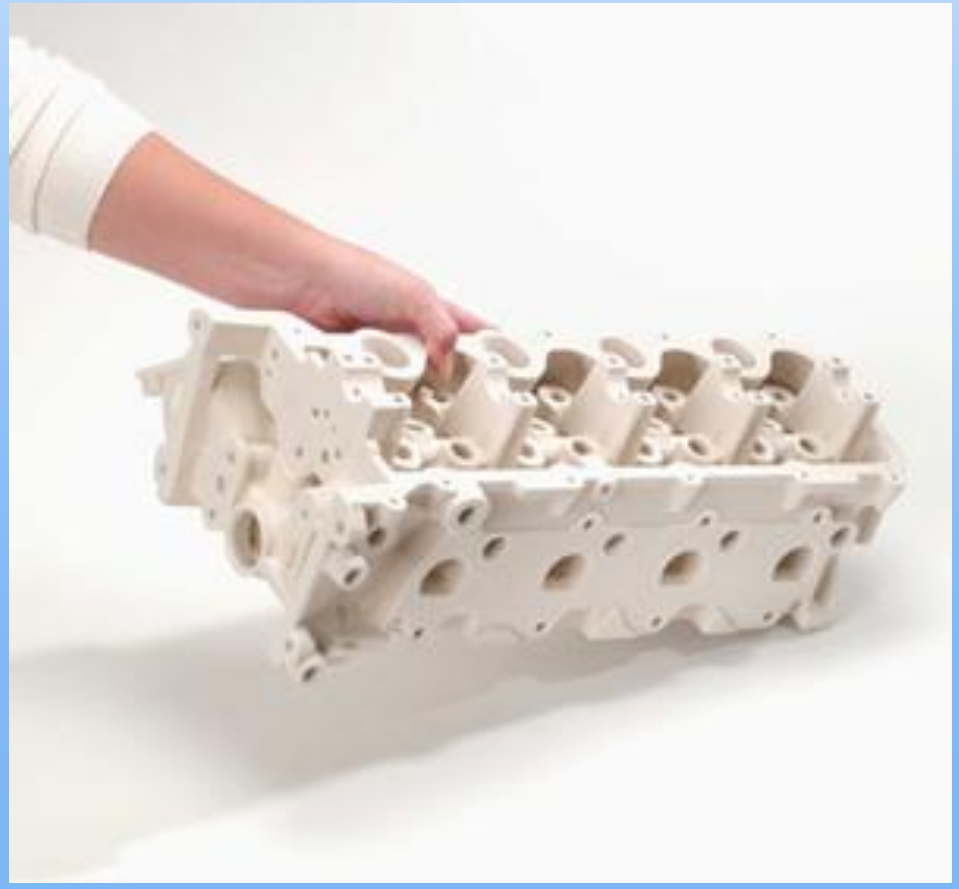
Morongo Casino, Palm Springs

AM Application Examples

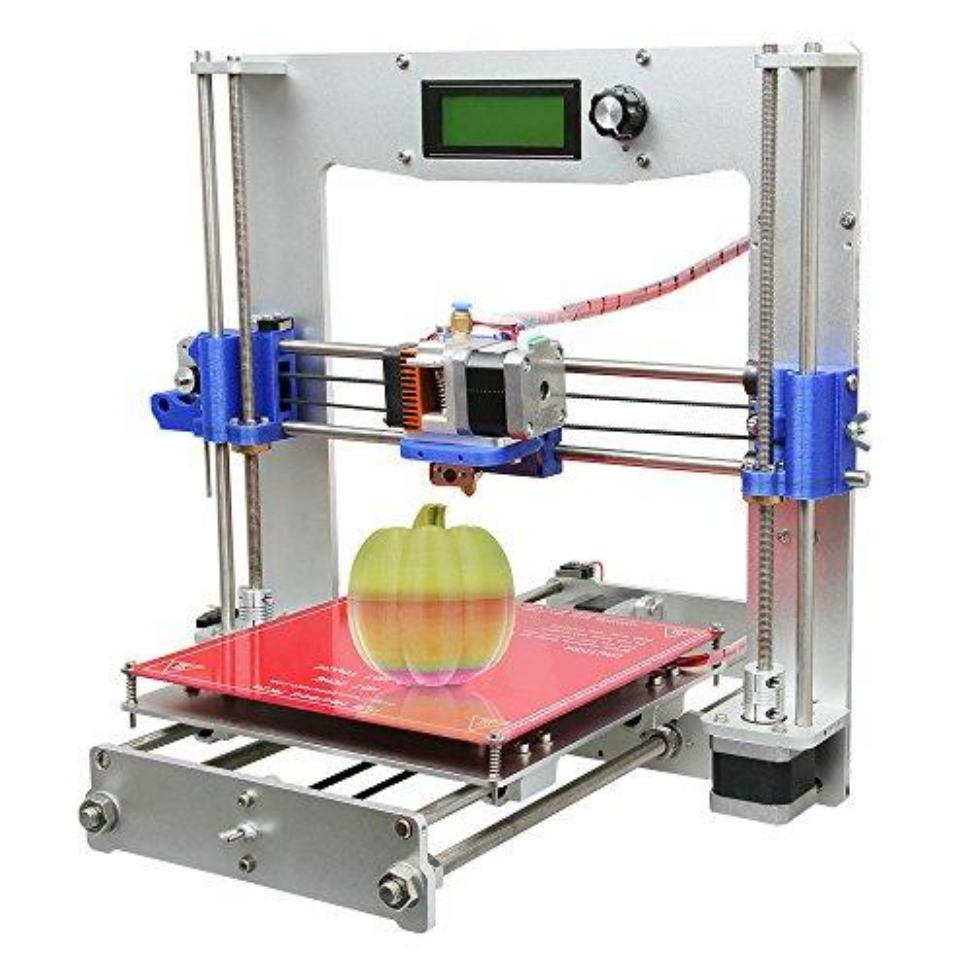
- Entertainment Modeling

AM Application Examples

- Automotive



Reprap 3D Printer



3D Printer Introduction

https://softsolder.files.wordpress.com/2012/05/acm-diy-3d-printing-hardware-and-software3.pdf