



Starting-up from the first layer

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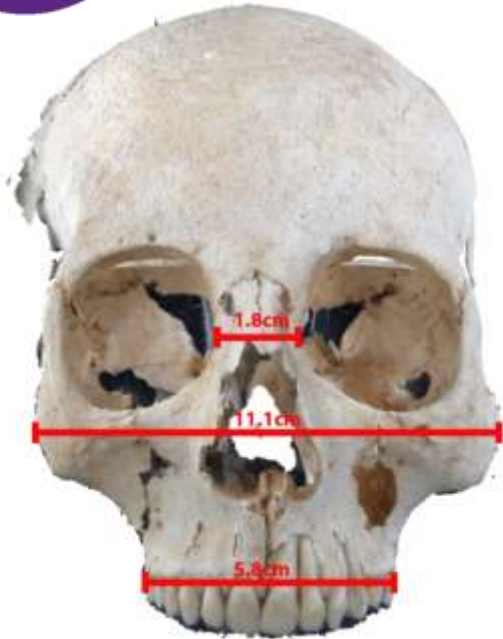


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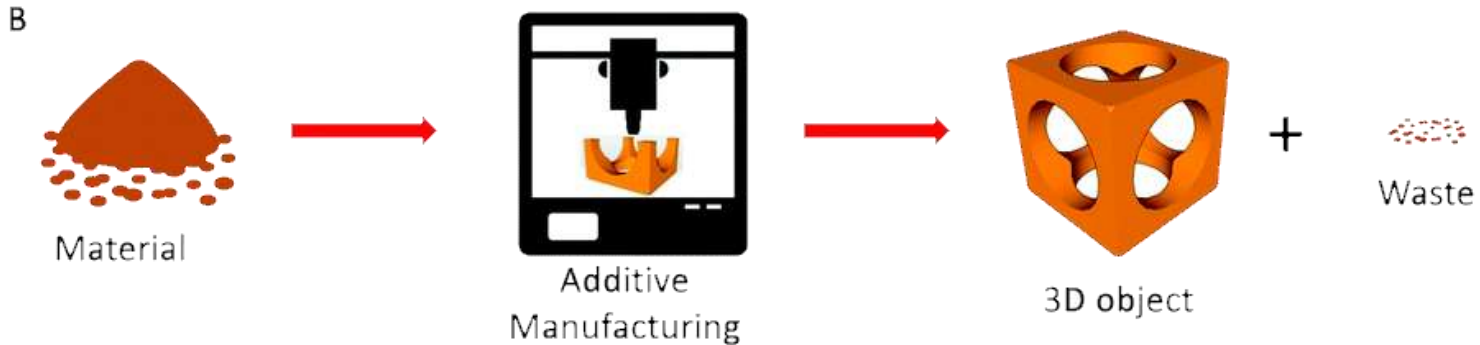
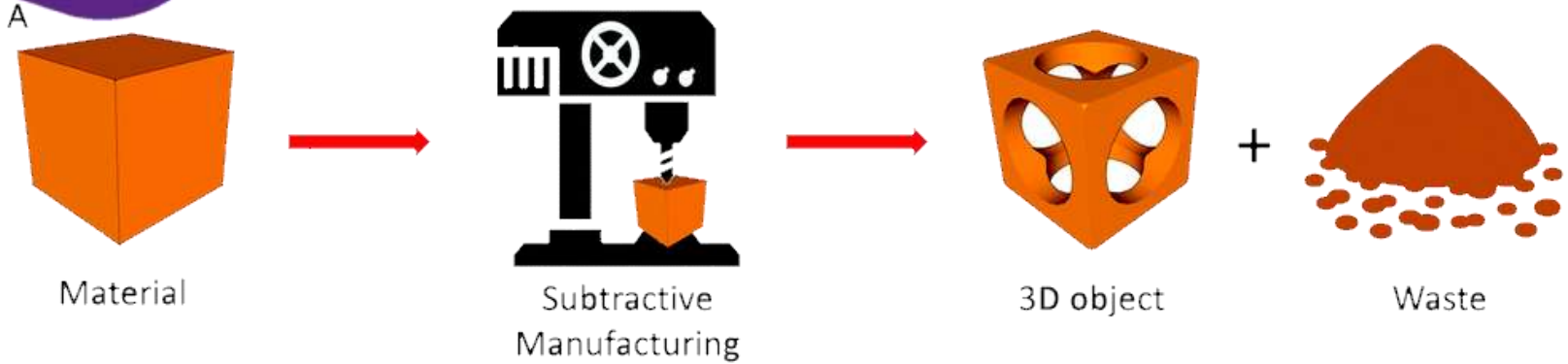
Agenda

- What is 3D printing?
 - What development stage is 3D printing at?
 - What is the 3D printing promise?
 - Why are we not there yet?
 - How to get there.
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Digital to Physical



Additive Manufacturing

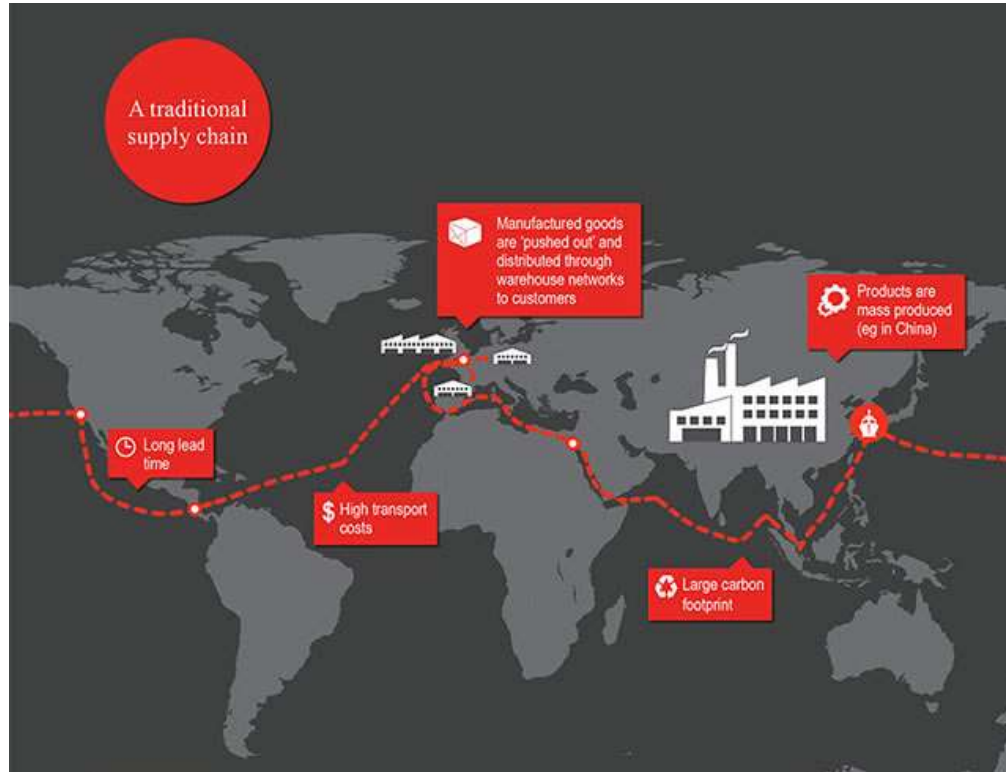


Materials	Technologies		
	Parts built through polymerization	Parts built through bonding agent	Parts built through melting
Ceramic		BJ	LM
Metal			EBM
Sand			
Plastic	SL PJ		FDM LS
Wax			MJ *

Lower	Durability	Higher
Smoother	Surface finish	Rougher
Higher	Detail	Lower
Prototypes Indirect processes	Application	Functional parts

* MJ achieves smooth surface finish and high detail

Revolutionary



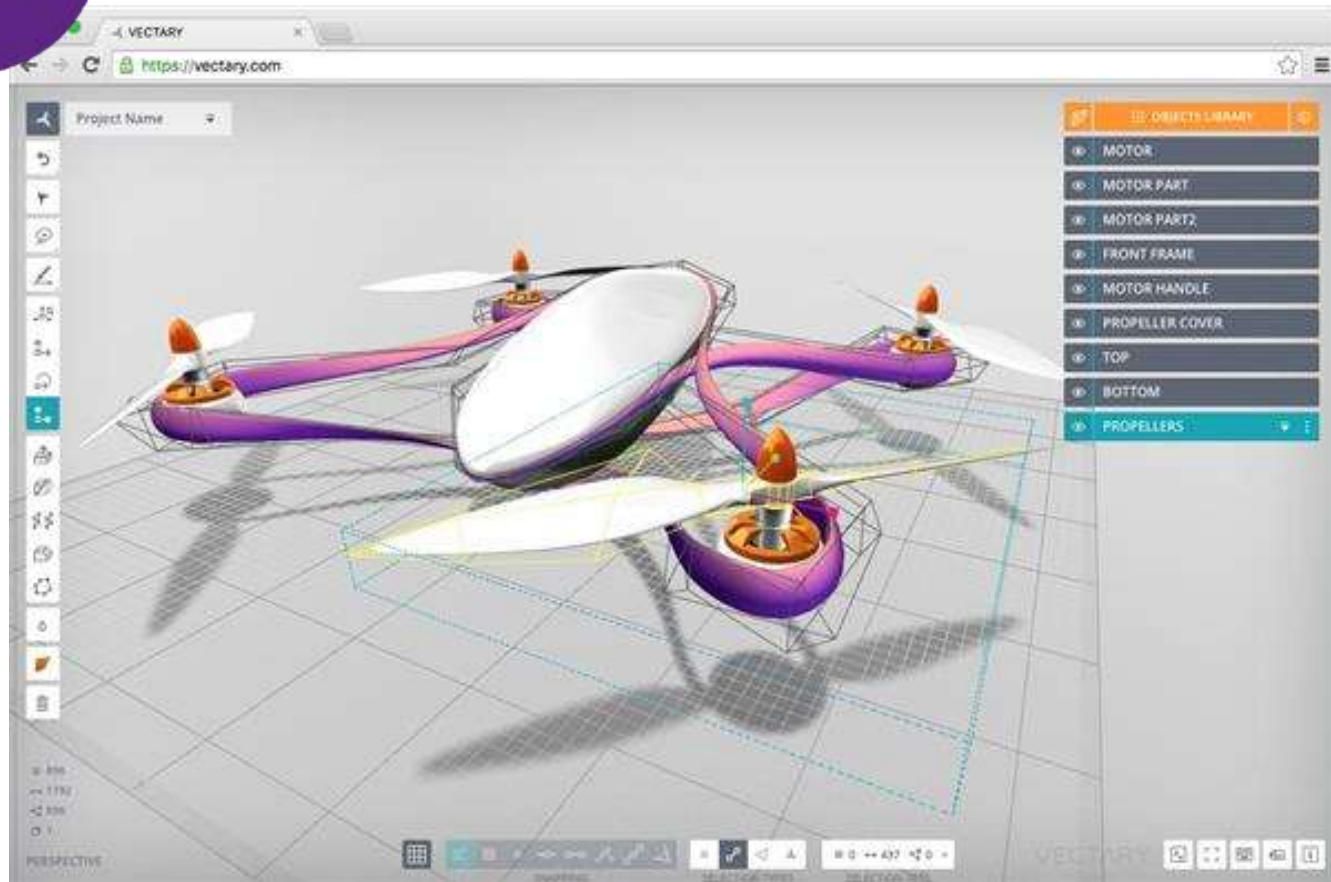
Life Saving



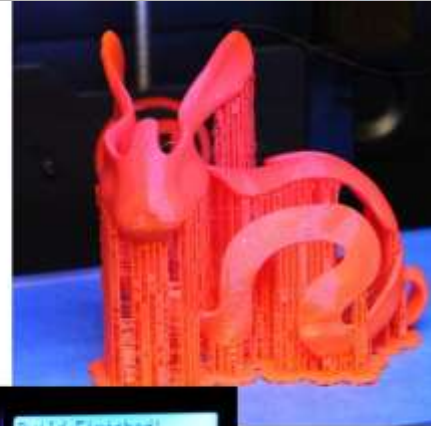
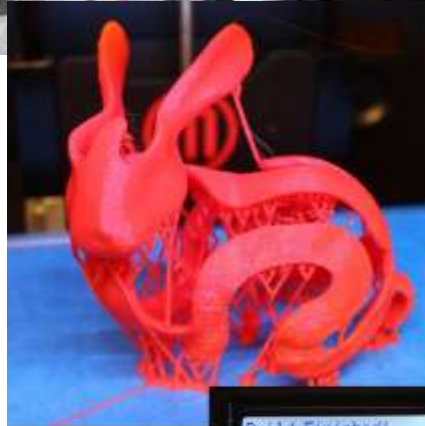
Enabling



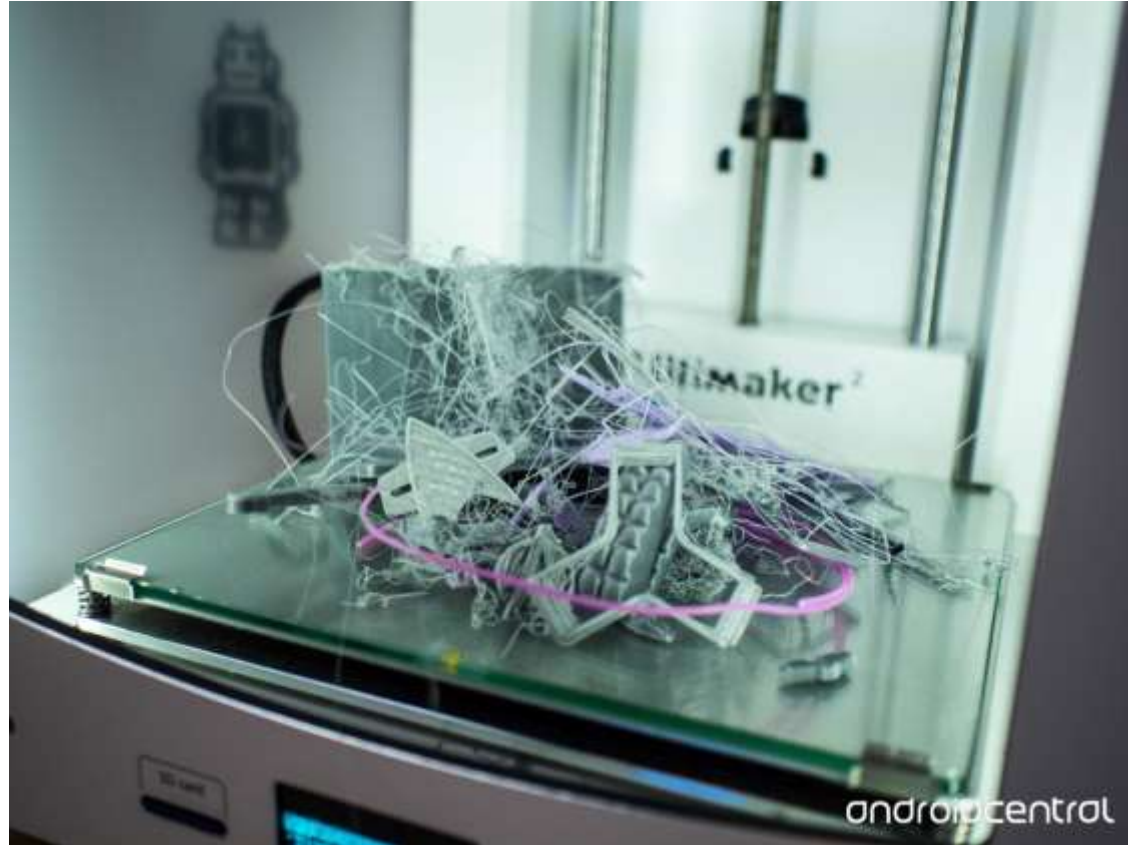
Complex Design



Laborious Processing



Hardware Limitations



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Intelligent



Multiple Materials



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Fast



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