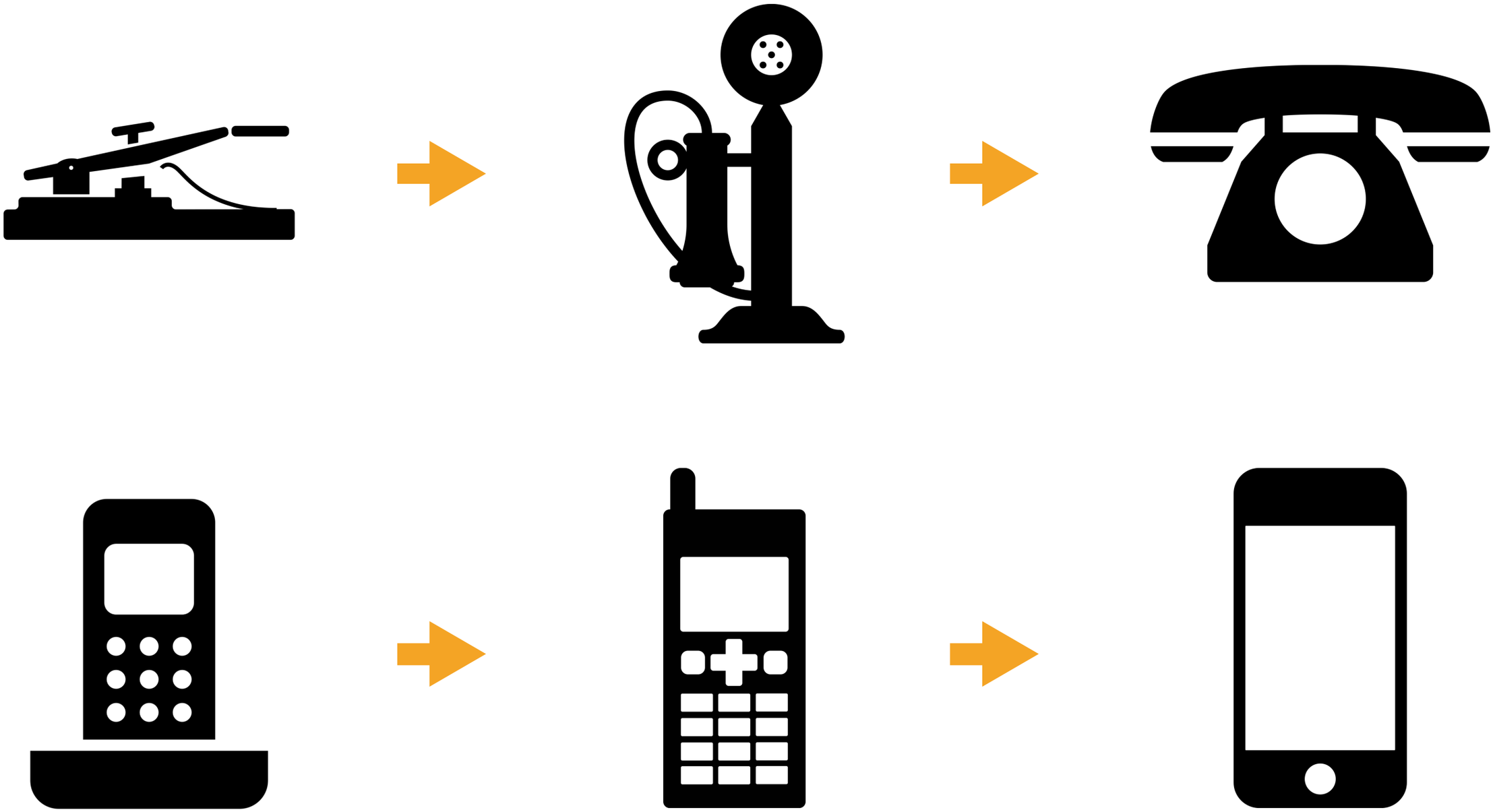
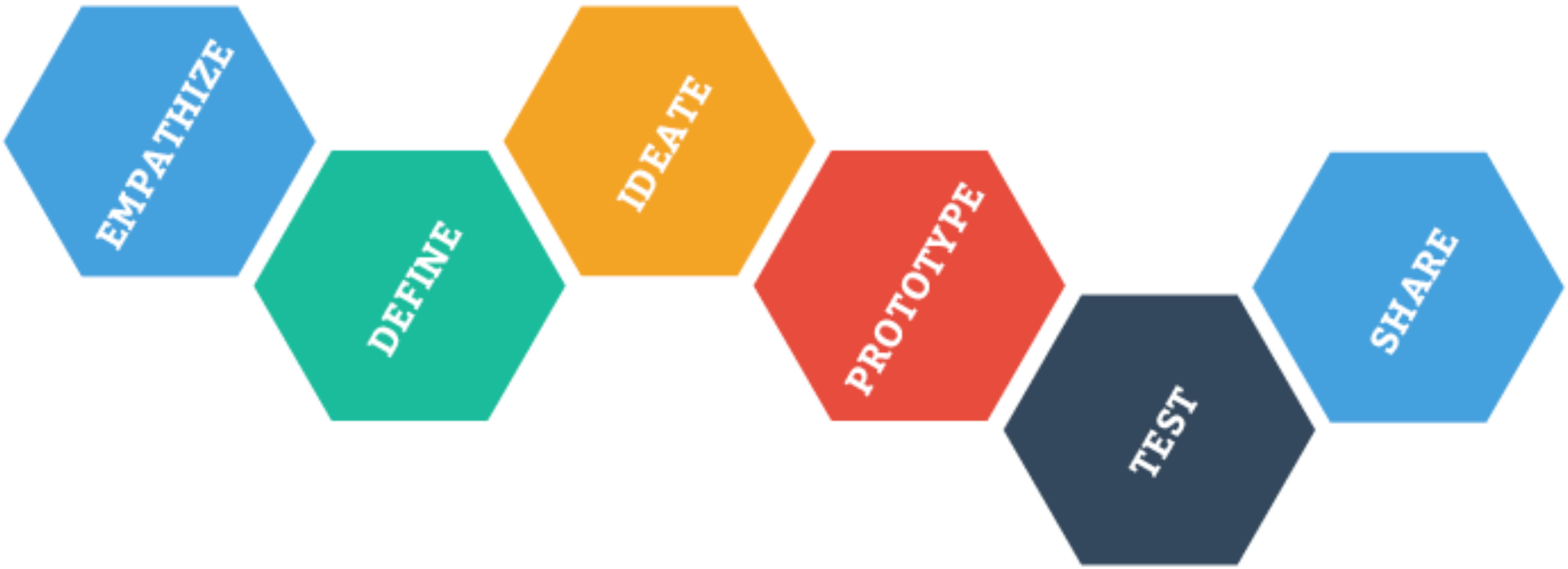
CITY X PROJECT

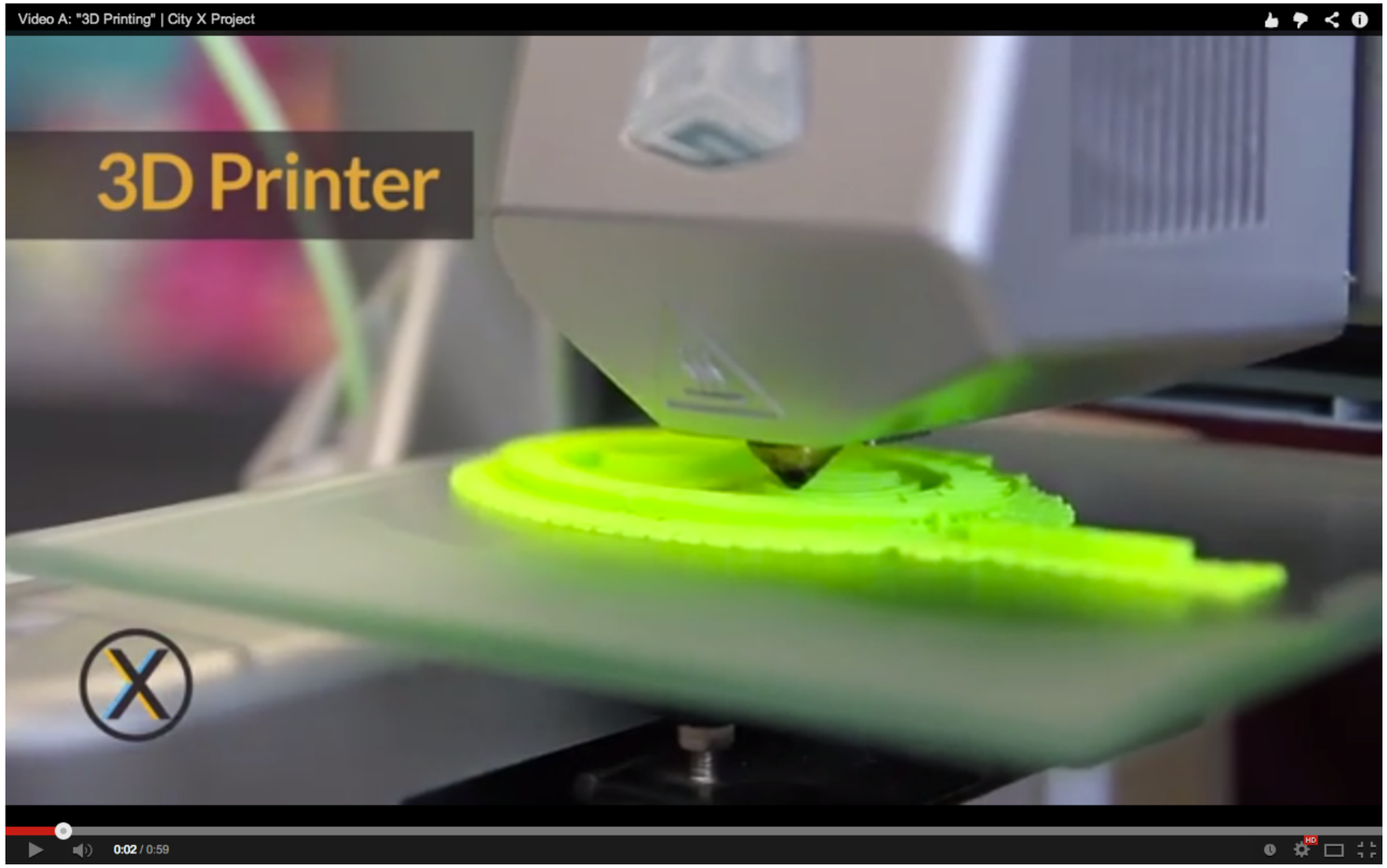
Creating Inventions



The Design Process



3D Printing



Video A: “3D Printing” | Click image to open in browser

3D Printing

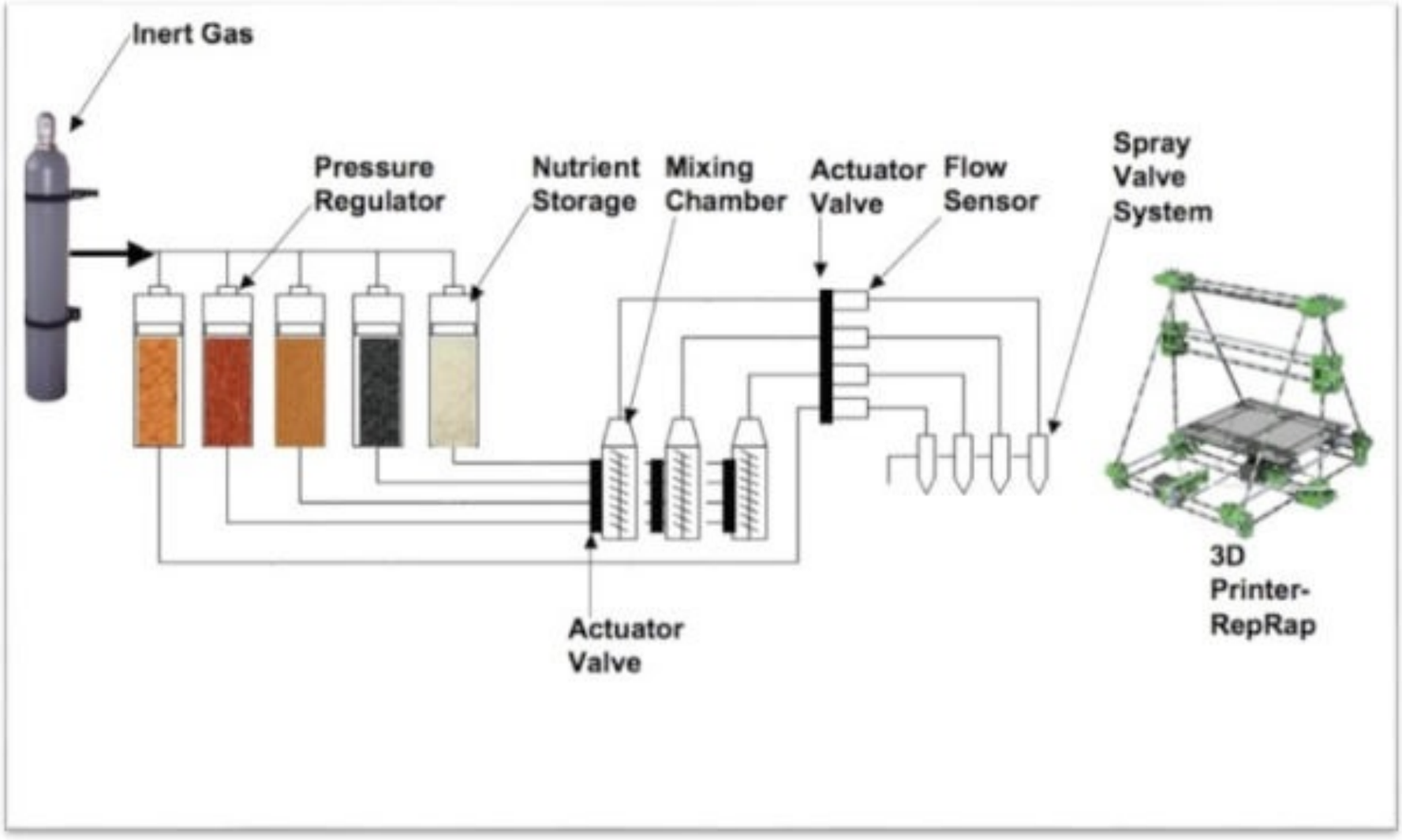
Example of a non-manufacturable object printed on a 3D printer.
Image courtesy of shapeways.com

3D Printing

3D Printing

3D Printing

3D Printing


Inert Gas
Pressure Regulator
Nutrient Storage
Mixing Chamber
Actuator Valve
Flow Sensor
Spray Valve System
3D Printer- RepRap
Actuator Valve

3D Printing in Space

Video B: “Made In Space” | Click image to open in browser

Incoming Transmission

Video C “The Mayor’s Call For Help” | Click image to open in browser

All we have with us in City X is a 3D printer and your imagination. But that's all we need to make this the perfect city!

the Mayor

What does empathy mean?

What is a social problem?

What does “ideate” mean?

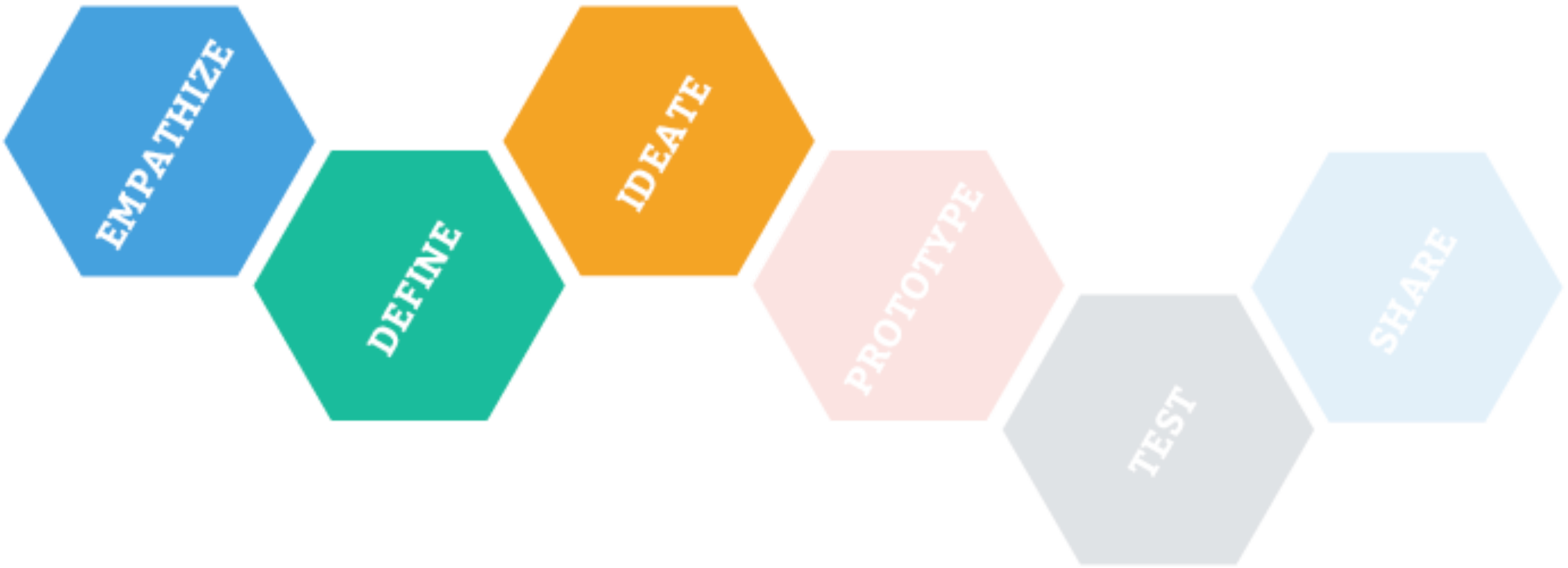
Ideation Guidelines:

Don’t judge.
Go for quantity.
Build on the ideas of others.
Encourage wild ideas.

City X Guidelines:

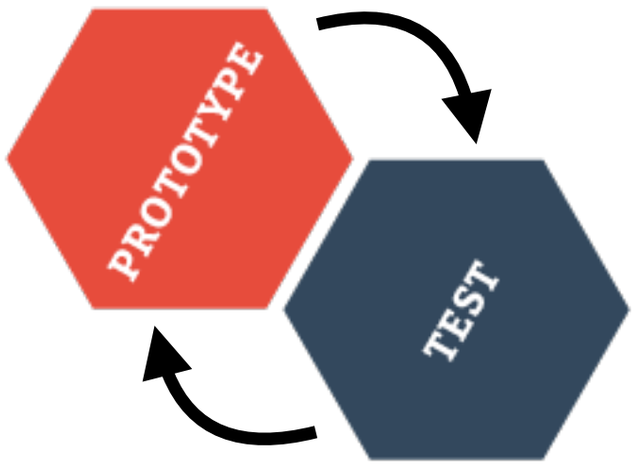
No ideas from adults.
No inventions that already exist.
No robots.

Review



What is a prototype?

What is testing?

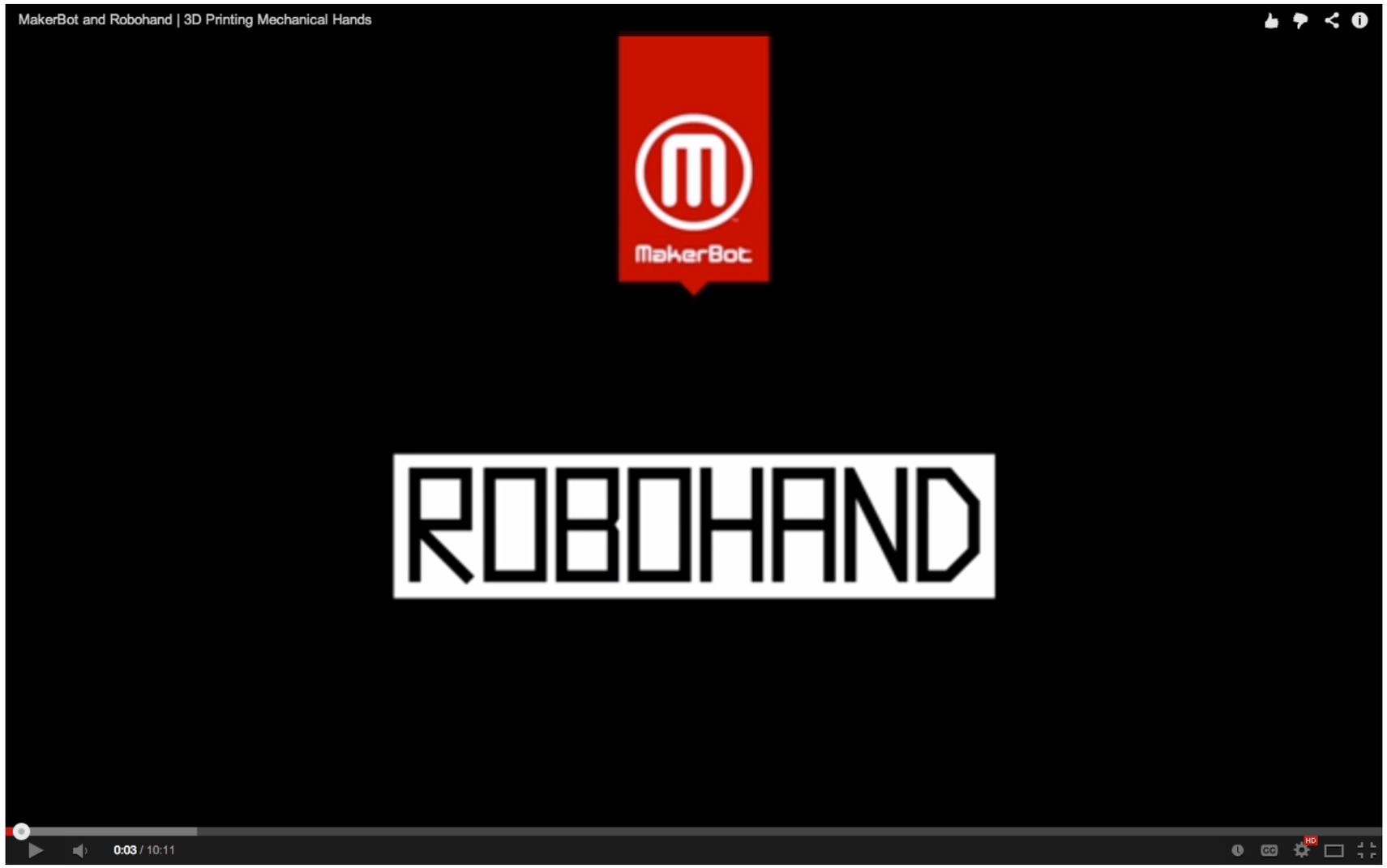


What is iteration?

What is sharing?

3D Modeling

Robohand



Video D “Robohand” | Click image to open in browser

Thank You!

Video E: “Thank You From The Mayor” | Click image to open in browser