

THE NEXT INDUSTRIAL REVOLUTION

3D printing is revolutionizing the way we do business — impacting the production process, workforce and supply chains. Anticipate and mitigate the risks before

implementing 3D printing into your production process.



TIMELINE OF 3D PRINTING

3D printing is invented by Charles "Chuck" Hall

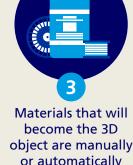




system software creates a 3D design of product



electronic format readable by the 3D printer

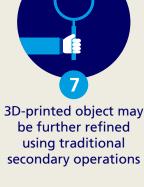


or automatically loaded into the 3D printer









3D PRINTED FOR ACTUAL USE **JEWELRY**

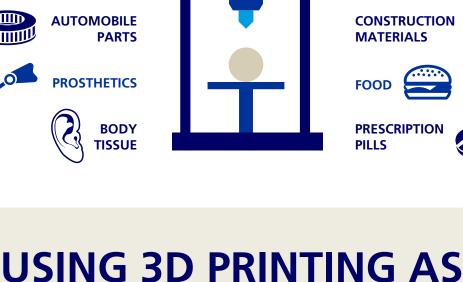
OBJECTS CURRENTLY BEING



BODY TISSUE

AUTOMOBILE

PARTS





PRESCRIPTION

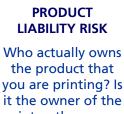
A PROTOTYPING TOOL **HAS ITS ADVANTAGES**







OPERATIONS ENVIRONMENTAL



printer, the owner of the template or the owner of the

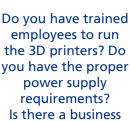
material?



RISK

chain risk increase or

decrease? Do you have other suppliers for the materials you are printing from? **TECHNOLOGY**



interruption plan

RISK

should the printer breakdown or the supplies aren't delivered? **CONTRACTUAL**



companies involved in place?



emits? Have you thought about the housing issues,

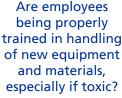
RISK

Have you thought

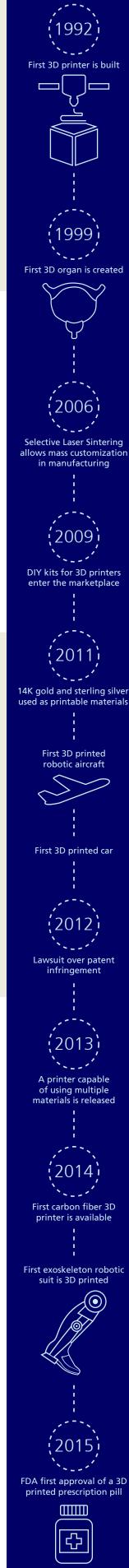
about the exhaust

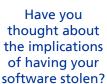
issues the 3D printer

or the heat it generates? How will you dispose of the waste materials?



PEOPLE RISK





What if someone

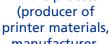
CYBER SECURITY RISK Have you thought about

counterfeits inferior goods? How will you protect your designs and formulas?



are printing? Do you own the design template?





manufacturer, retailer, etc.), do you have adequate contractual risk transfer controls





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