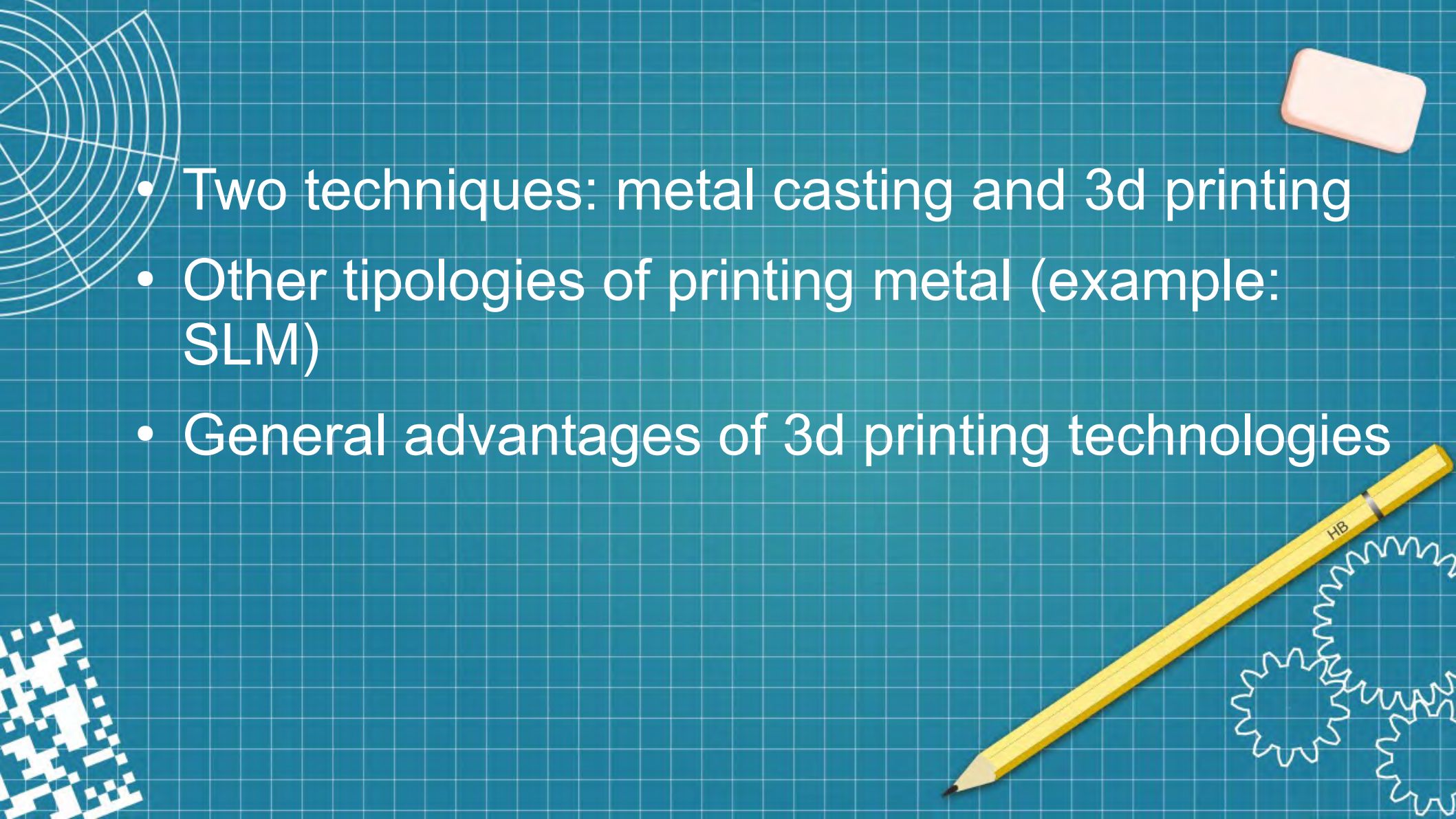


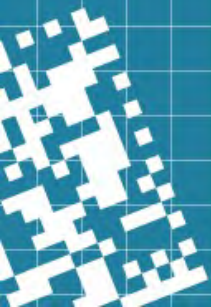
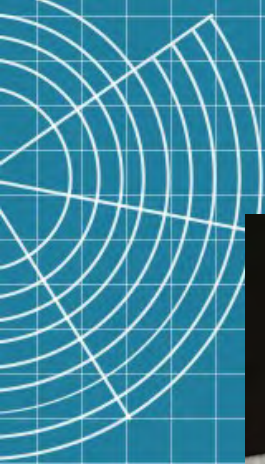


Sustainability of Lost PLA method

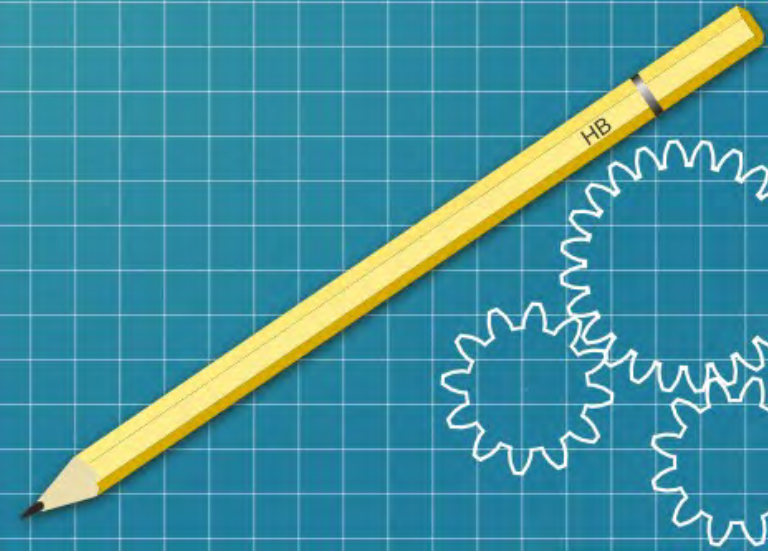
by Marco Mastroeni, UCBM, Italy

Presented at the 15th MODPROD Workshop
3-4th February, Linköping, Sweden
www.modprod.org

- 
- Two techniques: metal casting and 3d printing
 - Other typologies of printing metal (example: SLM)
 - General advantages of 3d printing technologies

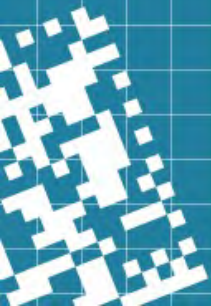
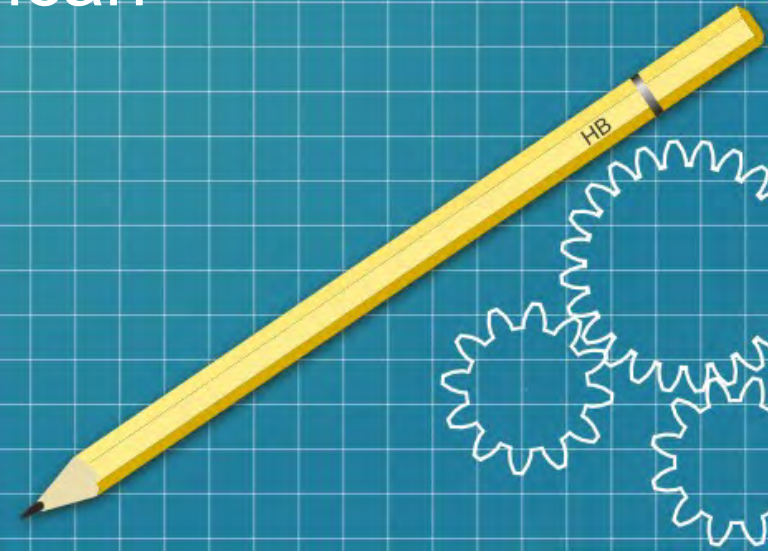


- Why FDM 3D Printing?
- Why overall materials PLA?



First part: environmental considerations

- Dr. Fabrizio Merlo and Dr. Eng. Stefano Mazzoni
- Laura McInnes on Scientific American



Second part: sustainability of the PLA

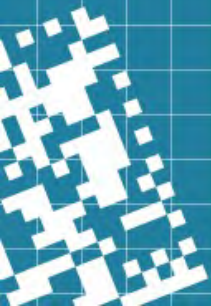
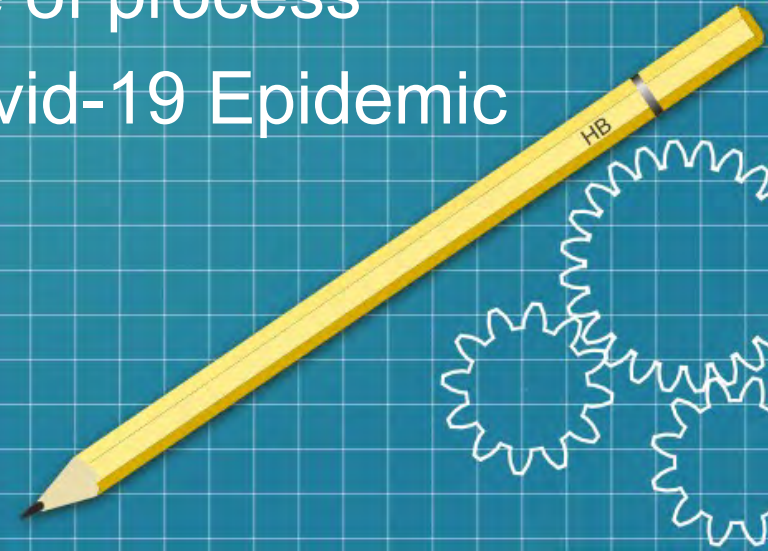
Two main problems:

- Smokes of the PLA method
- Abundance of material from where to grow PLA
- There is a concern for the security of the operator

Final considerations:

a strategic point of view

- New possibilities open by Industry 4.0
- Development of an independent type of process
- Aspect that emerged during the Covid-19 Epidemic





Thank you for your time

Marco Mastroeni