Premium – Workflow: Part LCA Service (CO₂)

1. Schedule a 30min call 2. We calculate the CO2 footprint of your part **3. LCA report and presentation** Set up the production setting (e.g. location, We perform the LCA to assess We present you the LCA report and explain transportation) of your 3D printed application. the carbon footprint of your part process hotspots Executive summary of results – Premium solution Scope of analysi XXX kg CO2 Eq (CO2 . Part carbo XX % 'co,

D - BASE

We create chemistry

Premium – Example: Summary of Conditions



Functional unit :

We assume the functional unit to be **one complete build job** of this **BASF mount** printed on a **HP MJF 52XX** 3D printer. Every part printed with acceptable quality is the desired outcome.

Goal of the study :

Measuring the impact of part fabrication in MJF specifically on the HP MJF 52XX using a Ultrasint powders including all impact categories

Scope of the study : Cradle to Gate

Methodology used: EF 3.0

Cutoff criteria: 95% of all impacts







- Total parts per build job: 180 parts
- Gap between parts: 5 mm
- Layer thickness = XX μm
- Total occupation for 1 part = 1/180
- Machine : HP MJF 52XX
- Build volume : 380 x 284 x 380 mm
- Part scrap rate : XX %
- Supports : 0 %
- Quantity : min : 180 parts
- Finish : Raw (Sandbasted part)

Assumptions:

- Study not critically reviewed [But materials currently in progress]
- Part packaging and transport of printed part neglected
- Assembly, use phase and end of life treatment of printed part neglected
- Production in Europe Electricity grid mix for Europe used
- Part scrap rates and build scene not validated in production environment



Premium – Example: CO2 Footprint Report of 3D Printed Part



We create chemistry

Premium – Example: Environmental Report of 3D Printed Part

