

(idea title) ... Smart 3D printing: Composite on-demand: Topological innovation in design

1. Provide a short **explanation of your idea** here:

Use 3D printing to produce topologically intricate structures
.....
.....
.....
.....
.....

2. **Why** is this a good idea? Provide **3 arguments**.

- 1. Towards the 'one-piece shoe'
Recyclability/ life-cycle benefits
- 2. in general
Improved customisability: fitting not
- 3. only of sizes, but of properties
Very potent, combined with new forms of retailing/ procurement

3. **What** remains to be done? And **when** should they be done (tomorrow/next week/next month/next year)

- ... develop design methods to utilise tech possibilities
- ... inventorise/ develop materials knowledge
- develop business models
- ... inform/ disseminate
- tech demonstrators

4. Are there ideas that **combine** well with your idea? Please mention them here.

.....
.....
.....
.....
.....

5. **Whom** do you need to make your project successful and what **role** should they fulfill (designer, researcher, company, ...)

whole supply chain
.....
universities/ tech centres
.....
.....
.....
.....

6. Do you **support** this idea? Please fill out your name and your possible role!

Your name.. Asuncion Martinez (AIJU) possible role. RTD materials, #D printing, SLS
Your name.. Christos Spitas (TU Delft) possible role. design methods, CAE/CAM interfaces, tech demonstrators,
Your name..... possible role. new multi-DOF 3D printing

7. Remarks: bring'm on!!

.....
.....