*SHAPEWAYS, SHAPEWAYS, NY*



|  |  |  |
| --- | --- | --- |
| *Picture source http://www.shapeways.com/*  ***GENERAL INFORMATION*** | |  |
| **Project name** | Shapeways | |
| **DE type** | - | |
| **Producer/provider** | Shapeways | |
| **Designer** |  | |
| **Start (year)** | 2007 | |
| **State** | On-going | |
| **Project location** | New York, service worldwide | |
| **Source of information** |  | |
| **Link to videos** | https://www.youtube.com/watch?v=BTTnaI4EYnY  https://www.youtube.com/watch?v=qJuTM0Y7U1k | |
| **Main contact** | Peter Weijmarshausen, the chief executive | |
| **E-mail** |  | |
| **Website** | http://www.shapeways.com/ | |

***SYSTEM CHARACTERISTICS***

|  |  |
| --- | --- |
| **SYSTEM CONFIGURATION:** |  |
| **Provider/s (role)** | Shapeways provides network of 3D Designers and Artists providing 3D digital models 3D Scanning Network provides 3D scanning |
| **Customer/s (type)** | Designers and Artists looking for 3D printing service and a platform to manufacture and sell their designs. Consumers looking for 3D printed products |
| **S.PSS CHARACTERISTICS:** |  |
| **Unit of satisfaction** | Online access to high quality 3D printing and their sale for designers, 3D Printed products for consumers |
| **Type of S.PSS** | Type III: Result-oriented PSS: providing final result |
| **Offered product/s (related producer/s)** | 3D Printed Products designed by various designers and produced by Shapeways |
| **Offered service/s** | 3D Printing Service, Online Shopping |
| **Ownership of the offered product/s** | Designers owns the rights of the design, the customers own the purchased products. Shapeways owns the printers. |
| **DE access payment** | Pay for printing service. Pay for product. |
| **DE system configuration** | Centralized Production |

***DESCRIPTION***

Artists and designers who upload their digital models to Shapeways can have them printed and shipped to them. They can also set up shop and list their products for online sale. For online shopping, Shapeways print the products and send them to the shoppers. Shapeways provides professional grade printing with a wide range of material options. They also provide customization and software for modelling. They focus on developing these software and applications for integrating into their printing and shipping workflow. The objects are printed in the ‘3-D printing factory’ in Queens, New York.

The main offer is for the designers a complete package printing their designs on-demand by customers, shipping the printed products to them and managing the transaction between customers and designers. Designers doesn’t need to pay for this service. They get payment when a customer purchases a product of their design as after Shapeways deducts the cost of their services for shipping, printing, handling etc.

Anyone can just also upload their files and get it printed and shipped by Shapeways paying for the 3D printing service according to the type and amount of the material used; type, quality and the duration of the printing; and shipping costs. These costs are calculated automatically by the software at the website provided by Shapeways.

Shapeways also provide a network of local 3D scanners that are integrated into their workflow, enabling customers to 3D scan and print things.

***SUSTAINABLE BENEFITS***

**Environmental Benefits**

*System life optimization: Shapeways acquires and manages the 3D printers in their factory optimizing their lives with partnership with the 3D printers (the details of the partnership are not know at this moment, to be completed)*

*Resource reduction: Since the service provides on-demand production, it helps reducing the resource that can be derived from mass producing and stocking unused items.*

**Socio-ethical Benefits**

*Improve employment/working conditions: It takes care of the selling, printing, shipping, and transactions helping designers to focus on their design work.*

*Favor/integrate the weaker and marginalized: The company gives high-quality 3D printing services to helping anyone access to the outcome of this technologies.*

**Economic Benefits**

*Profitability/added value for companies: Shapeways manages 3D printing manufacturing from a central factory which can add value such as reducing the managing/personal/operation costs although this is an opposite idea to the local distributed production.*

*Added value for customers: The consumers can access to customized products. The makers can access to 3D printing services with an easy access from this online service which includes online software that makes things easier for them to get 3D printing services.*

*Partnership/cooperation: The company cooperates with the designers and artists and provides consumers finished products through this partnership with designers all around the world.*