

# High Potential Initiatives Profiles

## 1 Accelerator

FABulous



## 2 Project and Organization

ASPIRATION  
3YOURMIND



### 2.1 Country

Germany

### 2.2 Project Abstract

One of the main problems in the 3D Printing industry is the creation of printable 3D content. To solve this, we propose a 3D-Printing platform that takes various 3D-Data sources as input and transforms them to 3D-printable data. This is done by a set of automatic and interactive analysis and repair functions. Adding pricing, checkout and printing ability, this one-stop-shopping platform enables users to get high-quality 3D-printed models without in-depth 3D printing knowledge.

We propose an architecture that implements the core 3D printing value-chain. It handles incoming data and organizes user authentication; analyzes the data for printability and possible optimization; repairs and optimizes the 3D models (both with automatic algorithms and interactive tools); adds further 3D data to the project; calculates prices based on materials; and handles data transfer to the optimal 3D printer operator. Reference functions are implemented, ensuring full functionality. We have also developed a FIWARE Wirecloud widget for the FIWARE Lab Cloud which is also available on the FIWARE Store. The widget allows an easy integration with the 3D printing platform. It uses the FIWARE 3D UI XML3D viewer, FIWARE cloud services to run the widget and FIWARE 3D Scan component to store data. The 3D print platform is also using the FIWARE Orion Context Broker to handle provenance & user data from coming from the frontend and the backend..

As a Spin-Off from Technical University Berlin, we have developed 3D Printing CAD plugins since Spring 2013. Our proposed platform bridges the gap between data-creation points and printer operators. Due to its modular architecture, many other apps and services can be integrated in order to provide and process 3D data. This will greatly increase the effectiveness of business processes connected to the 3D printing supply chain. It will support the use of 3D printing for product development and help creative workers such as construction engineers, architects and designers to be more competitive.

### 2.3 Sector

Business Services, Consumer Diy/Design, Manufacturing

### 2.4 Target Market

ASPIRATION offers a 3D printing comparison platform. It allows customers to upload a 3D file and undertake an instant comparison for the best 3D printing services to quickly create a prototype, a

## ASPIRATION FIWARE Short Profile

April 2016

detailed model or a beautiful product. It allows customers to compare prices, delivery times or locations. Further the user can also view, analyze and optimize his 3D model instantly on the platform.

The platform helps users with no 3D printing experience to prepare their files for 3D printing and find the best 3D printing service in one click on the platform or by using one of the many available CAD plugin integrations.

Competitors usually do not give instant quotes (quotes take up to 1-2 weeks) or have a low number of offered 3D printing services.

3YOURMIND has already had many customers from various large architecture and industry companies .

### 2.5 Business Model

The business model is commission based where users can use the service for free and 3YOURMIND gets a commission from the printing service for each printed model.

SMART CITY SOLUTION	NO
CLOUD SOLUTION	YES
SOCIAL MEDIA SOLUTION	NO
MOBILE SOLUTION	NO
BIG DATA/ANALYTICS SOLUTION	YES
IOT	YES

### 2.6 Website

<https://www.3yourmind.com/>