



June 2018

Part 1: Main functions

Introduction

ToyLabs proposes the development of a unique, unified methodology that will create a multi-stakeholder network and consequently a multi-sided platform where key players in the toy industry value network (i.e. toy manufacturers, FabLabs, Toy Safety experts, childhood professionals, end customers etc.) are brought together and collaborate closely in order to come up with new, innovative toys and games.

To meet the fundamental challenges of the SME toy manufacturing industry (high costs to address Toy Safety issues, competition with large firms, operation in fragmented markets, high failure rates of new products, late response to market trends and customisation needs), the ToyLabs consortium was created, covering in the most representative way the spectrum of stakeholders involved and of the necessary expertise needed, in order to develop an innovative approach aiming at “redefining the game” strengthening the position of SMEs in the toy manufacturing industry.

The aim is to help the SME toy industry to create toys and games that

- will be able to quickly enter the market,
- will respond to a clear market demand,
- will be cost effective and
- will be customised in order to be able to enter also other EU markets.

Thereafter, extraordinary impact may arise for toy manufacturing SMEs that, capitalising on their years of experience and expertise as a basis, will decide to make use of ToyLabs innovative methodology and applicable solution that exploits:

- the FabLabs expertise on rapid prototyping, use of new materials and ICT solutions, providing them with useful recommendations on toy designs and materials to be used as an opportunity to acquire early feedback on the prototypes by participating end customers, reduce time-to-market of new toys and games and enter new markets (exploiting FabLab's location)
- the early integration of Toy Safety experts in the process, enabling them to avoid early mistakes in terms of compliance with toy safety directives when the product is ready to enter the market
- the “crowd wisdom” as reflected by specific involved stakeholder groups (i.e. childhood professionals, parent organisations etc.) that provide them with valuable feedback and social-media audience that provide them with insights on future trends.

Therefore, ToyLabs, through the above mentioned concept, that innovates on the value network of SMEs, and based on data analytics, AR technologies, co-creation approaches and feedback management mechanisms, decreases costs of the design and manufacturing process and time to market of new products and supports toy manufacturers reach new markets.

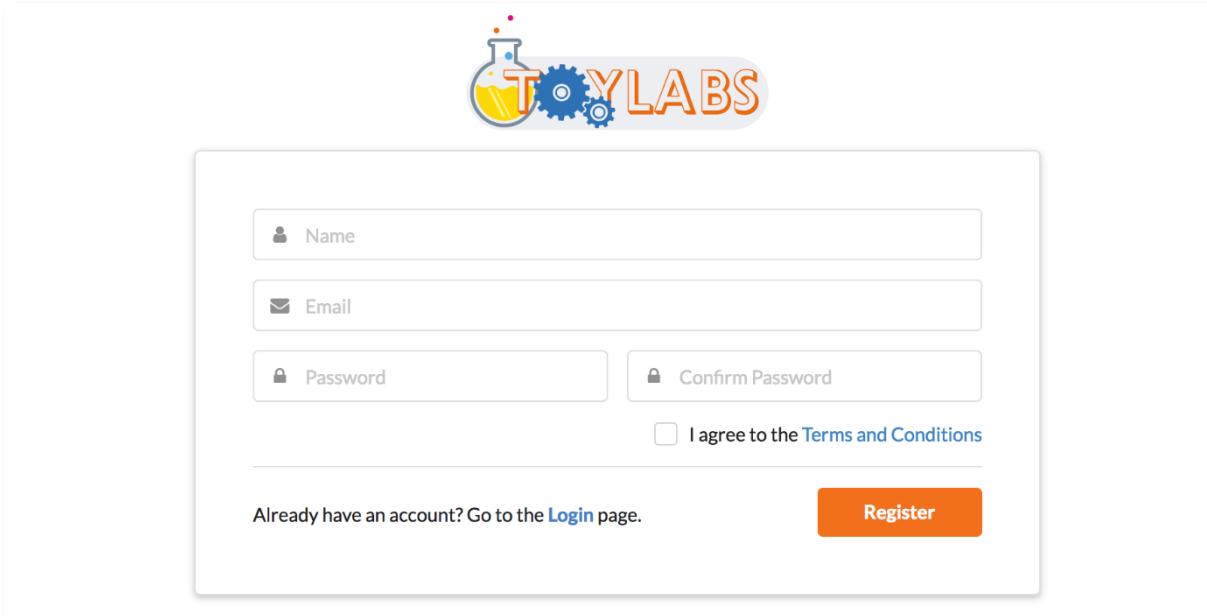
Platform Operation

Login - Registration - Profile Creation

A new user can register using his name, email address and password or use his Facebook or Google account to login (in which case, the first time an account is created automatically). After the registration, the user is redirected to the dashboard, and is prompted to create his personal profile. This step is mandatory for users that plan to use the platform for more than liking and leaving comment on products.

When a user creates his personal profile (not available when editing), he can set his role in the platform (Toy Manufacturer, Fablab, Safety Expert, Security Expert, Retailer or, just End User). After creating his personal profile, and if the selected role is not End User, he is prompted to join or create an organisation. An organisation (for the

platform) can be a company, a group of people that work together (not a legal entity), or even, just the user. In that case, organisation type should be set to Freelancer, and the organisation will act as user's professional profile.



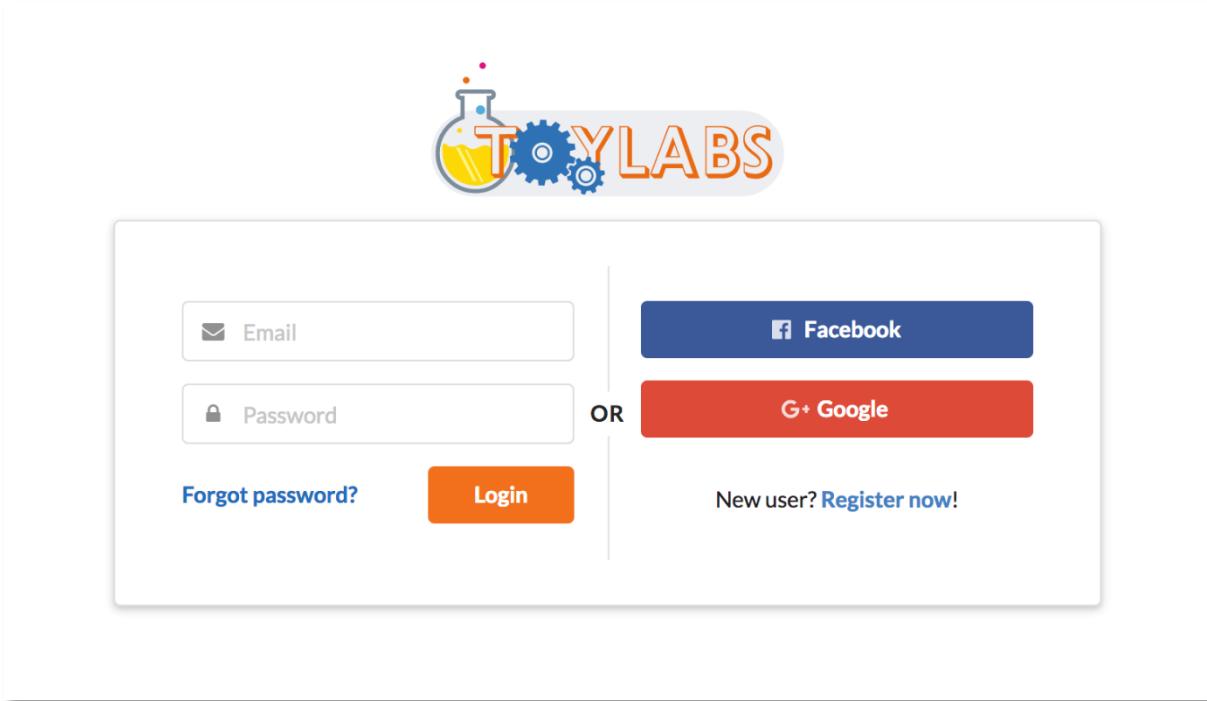
The registration page includes the following fields:

- Name
- Email
- Password
- Confirm Password
- A checkbox labeled "I agree to the [Terms and Conditions](#)"

Links and buttons:

- Already have an account? Go to the [Login](#) page.
- [Register](#)

Register Page



The login page includes the following fields and options:

- Email
- Password
- [Forgot password?](#)
- [Login](#)
- [Facebook](#)
- [G+ Google](#)

Text:

- OR
- New user? [Register now!](#)

Login page (both using username/password and social login). Facebook/Google login generates an account, if the user doesn't have one.

In case the user has forgotten his password, then by clicking on the relevant link he is being transferred to the password reset screen where he has to provide the email with which he has been registered and then to follow the instructions in the email he will receive.



Please enter the email address of your account, to receive the password reset link

Email
Send Reset Link

Password reset screen

During the first login the User is asked to generate a profile, to utilize ToyLabs. He has the option to skip this part, but without a profile he is not considered a professional of the toy domain so he can only view/ comment/ like the public products, designs and prototypes, but cannot participate in a toy development process.

[Dashboard](#)
[Members](#)
[About](#)

John Doe ▾

Please edit your [profile](#) to use the full functionality of ToyLabs.
 ×

First login screen / notification to create a profile

In order to create his profile, the user has to fill-in basic personal and communication details and to declare if he belongs in one of the main professional categories which the platform supports.

[Dashboard](#)
[Members](#)
[About](#)

John Doe ▾

Edit Profile

Personal

Name

Address
Country

Telephone

Facebook
Twitter
LinkedIn

Professional

What's the role you have in ToyLabs? Manufacturer FabLab Safety Expert Childhood Expert Just a User!

Cancel
Update

Editing user (personal) profile

The next step for the user is to identify if he belongs to a professional organisation (e.g. a company with activities in the toy manufacturing domain). If his organisation already has a profile in the platform then the user may request to join the organisation. If not, the user may create a new organisation profile in the system.

Edit Profile

Personal

Name
John Doe

Address
Address

Country
Select Country

Telephone
Telephone

Facebook
http://

Twitter
http://

LinkedIn
http://

Professional

What's the role you have in ToyLabs? Manufacturer FabLab Safety Expert Childhood Expert Just a User!

Are you a member of an organization? Yes No, I work alone i Freelancers click Yes, and then choose create an organization.

Has organization already joined ToyLabs? Yes, and I want to join Not yet. I want to create it myself

Organization

Select Organization

Cancel **Update**

Option 1: Joining an existing organization

Edit Profile

Personal

Name
John Doe

Address
Address

Country
Select Country

Telephone
Telephone

Facebook
http://

Twitter
http://

LinkedIn
http://

Professional

What's the role you have in ToyLabs? Manufacturer FabLab Safety Expert Childhood Expert Just a User!

Are you a member of an organization? Yes No, I work alone i Freelancers click Yes, and then choose create an organization.

Has organization already joined ToyLabs? Yes, and I want to join Not yet. I want to create it myself

Cancel **Save and Create Organization**

Option 2: Creating an organization

Edit Organization Profile

General Facilities Services & Pricing Certifications & Awards

Name ACME Corporation	Legal Name ACME	Legal Form Limited Company (LTD)
Description		
Address		
Street Name and Number		
Postal Code Postal Code	City City	Country Select Country
P.O. Box P.O. Box	Phone Phone	Fax Number Fax Number
Website URL http://...	Instagram https://www.instagram.com/...	
Facebook Page https://www.facebook.com/...	Twitter Account https://www.twitter.com/...	

Cancel **Update**

General Organization Information

During registering an organisation, apart from providing the main profile information, more detailed data have to be provided regarding the facilities of the organisation.

Edit Organization Profile

General **Facilities** Services & Pricing Certifications & Awards

Name	Country	State	City	
Base	Greece	Attiki	Athina	

Add Facility

Cancel **Update**

Organization facilities (might have multiple facilities in different cities/countries)

In the next tab, the user is called to identify what kind of services the organisation may offer, in which markets has activities, as well as details about preferable terms of payment for providing services.

Edit Organization Profile

General Facilities Services & Pricing Certifications & Awards

Services

Geographical Market(s)

Regional

National

EU

International

Competencies

3D Modelling

3D Printing

3D Scanning

CAE/FEM and Structural Analysis Simulation

Circuit Production

CNC Milling

Inkjet Printing

Knitting Machine

Laser Cutting

Mould Casting

Plastic Transformation

Sewing Machine

Soldering Station

Vacuum Forming

Vinyl Cutting

Toy Categories

Activity Toys

Aquatic Toys

Arts, Crafts Materials And Related Articles

Audio/Visual Equipment

Books with Play Value

Construction Toys and Puzzles

Costumes, Disguises and Masks

Dolls and Soft-filled Toys

Experimental Sets

Functional Toys

Game Sets

Mechanical and/or Electrical Driven Vehicles

Play Scenes and Constructed Models

Projectile Toys with Launching Device

Push-along Toys and Walking Aids

Role-playing Toys

Sand-Water Toys

Skill Development Toys

Toy Cosmetics

Toy Musical Instruments

Toy Sports Equipment and Balls

Toys for Babies to Look at, Grasping and/or Squeezing

Toys Intended to be Entered by a Child

Toys Intended to Bear the Mass of a Child

Production Scale: Prototyping Only Small Medium Large Extra Large

Pricing

Ways of Payment: Bank Transfer Bitcoin Check Credit Card Paypal

Paid in (delay): On Delivery 15 Days 30 Days 45 Days 60 Days 90 Days

Cancel

Update

Organization expertise, competencies, services provided, pricing etc

Finally, any certifications for the organisation as well as awards received are entered in the next screen. It is important here the information to be added accurately as in order the organisation to get certified, documentation verifying the data entered here must be provided to the platform administration team.

Edit Organization Profile

General Facilities Services & Pricing Certifications & Awards

Certifications

Name	Status	Date	
No certifications added			
			Add Certification

Awards

Name	Date	
Dr Toy	Nov 1, 2017	Delete
		Add Award

Cancel

Update

Organization certifications and toy awards

Each user that has his profile(s) set, has full access to the ToyLabs platform. In the dashboard page, he can:

- Create a new product
- View the state of all his products
- View his active collaborations
- View his archived collaborations
- See his messages
- See his notifications

The screenshot shows the ToyLabs dashboard. At the top, there is a navigation bar with tabs for 'Dashboard', 'Members', and 'About'. On the right side of the header, there are icons for email, notifications, and a user profile labeled 'John Doe'. Below the header, there is a search bar with a 'New Product' button. A message box displays a tip: 'No products or collaborations found!' followed by two bullet points: 'Use the New Product button to create a new product.' and 'Make sure your professional profile is complete so that you can be found by others to collaborate with.'

Dashboard for members with a complete profile

Notifications – Messages – Collaborators Rating

Each user may access the messaging system of the platform at any time or after receiving a notification. Direct access to all the notifications received the user can have through the relevant option in the menu.

The screenshot shows the ToyLabs dashboard with the 'Notifications' tab highlighted in orange. Other tabs include 'Messages' and 'Rate Collaborators'. The main content area is currently empty, showing a placeholder message: 'Your inbox is empty!'

List of notifications

The same stands for the messages inbox of the user, where all the messages exchanged among the user and other platform members appear and can be managed.

The screenshot shows the ToyLabs dashboard with the 'Messages' tab highlighted in orange. Other tabs include 'Notifications' and 'Rate Collaborators'. A blue button labeled 'New Message' is visible. The main content area displays the message: 'Your inbox is empty!'

List of messages

In the same section that notifications and messages appear, another tab is available named "rate collaborators". In this screen the user (representing an organisation) after having a complete collaboration with any other organisation can evaluate the collaborator

The screenshot shows the ToyLABS dashboard. At the top, there's a navigation bar with links for Dashboard, Members, and About. On the right side, there are icons for Notifications, Messages, and a user profile for John Doe. Below the navigation, there are three tabs: Notifications, Messages, and Rate Collaborators (which is underlined in red). A message box below these tabs says "You have no collaborations to be rated!"

List of collaborations pending rating (after a design/prototype was archived or moved to production)

Part 2: Production line

Creating a new Product - Concept Phase

Using the appropriate button in the dashboard, the user will be presented with a form for creating a new product. In this form, the user will be asked to fill in a title, a description of the product (as conceptualised), select a category the toy will fall under and the suitable ages. Then he is prompted to fill information about to whom the IP belongs to (the user himself, or his organisation) and if he wants the product to be made public and visible to the homepage.

Finally, the user can upload images (schematics, drawings, concept art or even photographs) and files (budgeting, research material, etc) for the product. Keep in mind that anything uploaded under the “Files” section is only visible by the product owner (and, if the product is owned by an organisation, the members of that organisation).

The images are visible by anyone that has access to the product: everyone in case of a public product, or anyone asked to collaborate on a design/prototype of the product, even before they sign any NDA agreement. So be careful not to upload any confidential images.

New Product ◀ Back to Dashboard

General

Title

Description

Category

Suitable for Ages From **To**
 Tentative ages. You can change the age group later, if needed.

Legal

Who will be the legal owner of this product? Myself My Organization

! Do you want to make your product public (can be seen by everyone)? No Yes

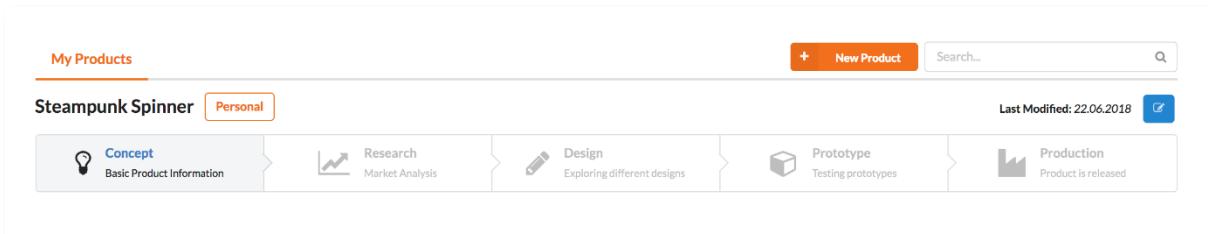
Images
For informational images only. If your product is public, these are made public as well

 Drop files here to upload

Files
Use this field to upload documents regarding this product. These files are only visible to you, and are never shared with anyone else, regardless of the status (public or not) of this product.

Creating a product

After a product is created, the user is redirected to the dashboard again, where its progress is clearly visible. At first, only the **Concept** phase is enabled. The product owner can edit the product (using the small blue button to the right) and pressing **Continue to Market Analysis** (bottom left) to unlock **Research** and **Design** phases.



Dashboard with a product in Concept phase

Market Research Phase - NTUA

When entering the research phase, the product owner has two choices. He can either initiate a Market Trend or a Social Feedback analysis.

Market Analysis

[Back to Dashboard](#)

A screenshot of the "Market Analysis" interface. At the top, there are tabs for "Analyses" (which is selected) and "Project Configuration". Below the tabs is a table with columns for "Type" and "Name". A tooltip message states: "Social Feedback Analysis is only available for products owned by organizations with configured Market Analysis Settings". At the bottom of the screen are two buttons: "Create Social Feedback Analysis" and "Create Market Trend Analysis".

Market Analysis initial screen (1/2)

The Market Trend analysis can be created at any time. However for a Social Feedback analysis the Market Settings of the product owner's organisation must be set. The organisation must fill in the twitter accounts that wants monitored as well as create Market Sets, i.e. combinations of brands and products (that may belong to the organisation or its competitors) upon which the visualisations will be built. Configuring the Market Settings will enable the product owner to initiate a Social Feedback analysis as well.

Market Analysis

[Back to Dashboard](#)

A screenshot of the "Market Analysis" interface. At the top, there are tabs for "Analyses" (selected) and "Project Configuration". Below the tabs is a table with columns for "Type" and "Name". The table contains six entries: "Market Trend" (Cubic puzzle Trend Analysis), "Market Trend" (3x3 V-Cube keychain market trend analysis), "Social Feedback" (3x3 V-Cube Keychain Social Feedback Analysis), "Social Feedback" (3x3 V-Cube Keychain Social Feedback Analysis 2), and "Social Feedback" (3x3 V-Cube Keychain Social Feedback Analysis 3). Each entry has edit and delete icons in the "Actions" column. At the bottom of the screen are two buttons: "Create Social Feedback Analysis" and "Create Market Trend Analysis".

Market Analysis initial screen (2/2)

By initiating a Market Trend analysis the product owner will see the following screen.

3x3 V-Cube keychain market trend analysis

[Back to Market Analysis](#)

[Custom Settings](#) Time Settings Concepts' Settings

Name
3x3 V-Cube keychain market trend analysis

Keywords
cube ✕ keychain ✕ puzzle ✕ rubiks ✕

Enter the words, phrases and hashtags to be used as search terms. Single keywords (grey) are separated with commas. Use ' for exact phrases (green) and ! to exclude a term/phrase (orange).

i For example by pressing toy, cube, 'puzzle toy, !sphere the tool will search in social media for posts that include the words "toy" and "cube", the exact phrase "puzzle toy" and exclude results that include the word "sphere". In other words this search will return results relevant to puzzle toys that are shaped like cubes but not like spheres.

In another example the user could be searching for toys that are shaped like cubes or spheres but are not puzzle toys. In this case the search would look like so: toy, cube, sphere, !puzzle toy

Source type
 Twitter Facebook
The data sources to be used for the analysis. Choose one or more among Facebook and Twitter.

Influencers
 Only influencers
Select this option to activate influencer mode. If influencer mode is activated only designated influencer data sources will be used.

[Cancel](#) [Save as copy](#) [Update](#)

Market Trend analysis custom settings

In this screen the user is asked to fill in some basic information about the analysis such as the name of the analysis, the sources for data retrieval (e.g. twitter, Facebook) and whether influencer mode will be active or not. The most crucial action at this stage is the selection of the keywords that will be used for data retrieval. The tool supports single word keywords and phrases that the user wants to exist in the retrieved documents as well as words and phrases that the user does not want to exist. For example by pressing toy, Barbie, 'blonde doll, !baby the retriever will return text documents in which the words toy, Barbie and "blonde doll" exist but not the word baby. For the user's convenience there is a help text below the keywords field to familiarise him with the procedure.

Much like in the case of a Market Trend analysis, in a Social Feedback analysis the first screen a user sees can be seen below, and is exactly the same with that of a Market Trend analysis except for the option to activate influencer mode, the reason being that in a Social Feedback analysis the user wants to know the unbiased opinion of end-users about his or his competitor's brands and products.

3x3 V-Cube Keychain Social Feedback Analysis 3

[Back to Market Analysis](#)

[Custom Settings](#) Time Settings

Name
3x3 V-Cube Keychain Social Feedback Analysis 3

Keywords
cube ✕ rubiks ✕ puzzle ✕ keychain ✕ rt ✕

Enter the words, phrases and hashtags to be used as search terms. Single keywords (grey) are separated with commas. Use ' for exact phrases (green) and ! to exclude a term/phrase (orange).

i For example by pressing toy, cube, 'puzzle toy, !sphere the tool will search in social media for posts that include the words "toy" and "cube", the exact phrase "puzzle toy" and exclude results that include the word "sphere". In other words this search will return results relevant to puzzle toys that are shaped like cubes but not like spheres.

In another example the user could be searching for toys that are shaped like cubes or spheres but are not puzzle toys. In this case the search would look like so: toy, cube, sphere, !puzzle toy

Source type
 Twitter Facebook
The data sources to be used for the analysis. Choose between Twitter and/or Facebook.

[Cancel](#) [Save as copy](#) [Update](#)

Social Feedback analysis custom settings

The second set of settings that a user will be called to choose has to do with the time period for data retrieval from the sources that the user specified in the previous step. Starting from the current date, the user has the ability to quick

select the previous week, month or year as the time period for data retrieval by clicking one of the blue buttons at the bottom of the screen. The time settings screen is identical for both analyses.

3x3 V-Cube keychain market trend analysis

Custom Settings **Time Settings** Concepts' Settings

Provide the time period for data retrieval of the analysis.

From date
13 Jul 2017

To date
13 Jul 2018

Last week Last month Last year

Cancel Save as copy Update

Market Trend/ Social Feedback analysis time settings

The final set of settings that a user is called to select in a Market Trend analysis has to do with providing concept's and parameters that will formulate the final visualisations. The concepts of interest are terms/ideas that a user wants to monitor and understand crowd perception and market trends spinning around them. On the other hand, the parameters are features on which the concepts of interest will be analysed and compared. For example, a concept could be "baby dolls" and the parameter could be the material of the toy, e.g. wood, plastic etc. The format for selecting the concepts of interest follows the same logic as the keywords in the custom settings while the parameters' values are a number of comma separated words.

Custom Settings Time Settings **Concepts' Settings**

Provide specific meaningful concepts of interest (e.g. baby dolls) and parameters (e.g. colour, material) that will be presented and formulate the visualisations accordingly in order to be provided with useful and meaningful information customized to your needs.

The concepts of interest are terms/ideas that you want to monitor and understand crowd perception and market trends spinning around these terms. The value format follows the same logic as the keywords in the Custom Settings tab.

The parameters you need to specify are features on which the concepts of interest will be analysed and compared (e.g. a baby doll made of wood or plastic). The parameter name here is the "material" and the values "wood, plastic"). The value format is comma separated values.

Concepts

Name	Values	Actions
Keychain	keychain	
Puzzle & Rubiks	puzzle, rubiks	

Add Existing Concept Add New Concept

Parameters

Name	Values	Enabled	Actions
Material	recyclable,plastic,wood,polymer,pvc,metal,clay		
Special Conditions	speed,stickerless,multicolored		

Add Parameter

Cancel Save as copy Update

Market Trend analysis concept settings

On the other hand, the final set of settings in a Social Feedback analysis is handled in the organisation's profile. The organisation must fill in the twitter accounts that wants monitored as well as create Market Sets, i.e. combinations of brands and products (that may belong to the organisation or its competitors) upon which the visualisations will be

built. The keywords are set in the same way as the keywords in the custom settings of the analysis. As already mentioned, these settings must be filled by the organisation to grant access for a Social Feedback analysis. The keywords, accounts, brands and products configured in this page will be the same for every Social Feedback analysis of said organisation and can be edited at any point.

The screenshot shows the 'Organization Configuration' section of a software interface. At the top, there are tabs for 'Organization Configuration' (which is active) and 'Toylabs Configuration'. Below this, the 'Keywords' section contains two entries: 'toy' and 'toy doll'. A note below the input field says: 'Enter the words, phrases and hashtags to be used as search terms. Single keywords are separated with commas. Use ' for exact phrases and ! to exclude a term/phrase.' A tooltip provides an example: 'For example by pressing toy, cube, 'puzzle toy, !sphere the tool will search in social media for posts that include the words "toy" and "cube", the exact phrase "puzzle toy" and exclude results that include the word "sphere". In other words this search will return results relevant to puzzle toys that are shaped like cubes but not like spheres.' Another note states: 'In another example the user could be searching for toys that are shaped like cubes or spheres but are not puzzle toys. In this case the search would look like so: toy, cube, sphere, !puzzle toy'.

The 'Accounts' section contains a table:

Type	Name	Influencer	Actions
Twitter	cbotsikas		
Twitter	<input type="text" value="Enter a twitter account or facebook URL"/>	<input type="checkbox"/>	

The 'Market Set' section contains a table:

Type	Name	Values	Actions
Brand	barbie		
Product	doll		
Brand:	my brand		
Product:	my product		

At the bottom right are 'Cancel' and 'Update' buttons.

Organisation's Market Settings

After configuring the analysis settings the product owner may proceed to the visualisations page where he can see various graphs, charts and lists. Every visualisation has an accompanying text to help the product owner understand what he is seeing at each chart.

Design Phase

Any time during the product creation lifecycle, after the Design Phase is unlocked, the product owner (or anyone in his organisation), can create any number of product designs.

The screenshot shows the 'My Products' dashboard. At the top, there are tabs for 'My Products' (active), 'New Product', and a search bar. A note says 'Last Modified: 22.06.2018' with a checkbox. The main area shows a product card for 'Steampunk Spinner' under the 'Personal' tab. The card has five stages: 'Concept' (Basic Product Information), 'Research' (Market Analysis), 'Design' (Exploring different designs), 'Prototype' (Testing prototypes), and 'Production' (Product is released). The 'Design' stage is highlighted with a blue background.

Dashboard with a product in Design phase

My Products		Collaborations	+ New Product	Search...	
Name	Product	Version	Last Modified		
Robot (Design 1)	Robot Doll	1	01.02.2018		

Dashboard - List of collaborations my organization is participating

Creating a design is straight forward. Note that in Designs (as with prototypes later) the “Files” section is shared with collaborators, when one is added to the design.

Create Design

[Back to Designs](#)

General

Title

Description

! Do you want to make your design public (can be seen by everyone)? No Yes

Images
For informational images only. If your design is public, these are made public as well

Drop files here to upload

Files
Use this field to upload designs and documents for collaboration with your partners. These remain private, even if the design is made public

Drop files here to upload

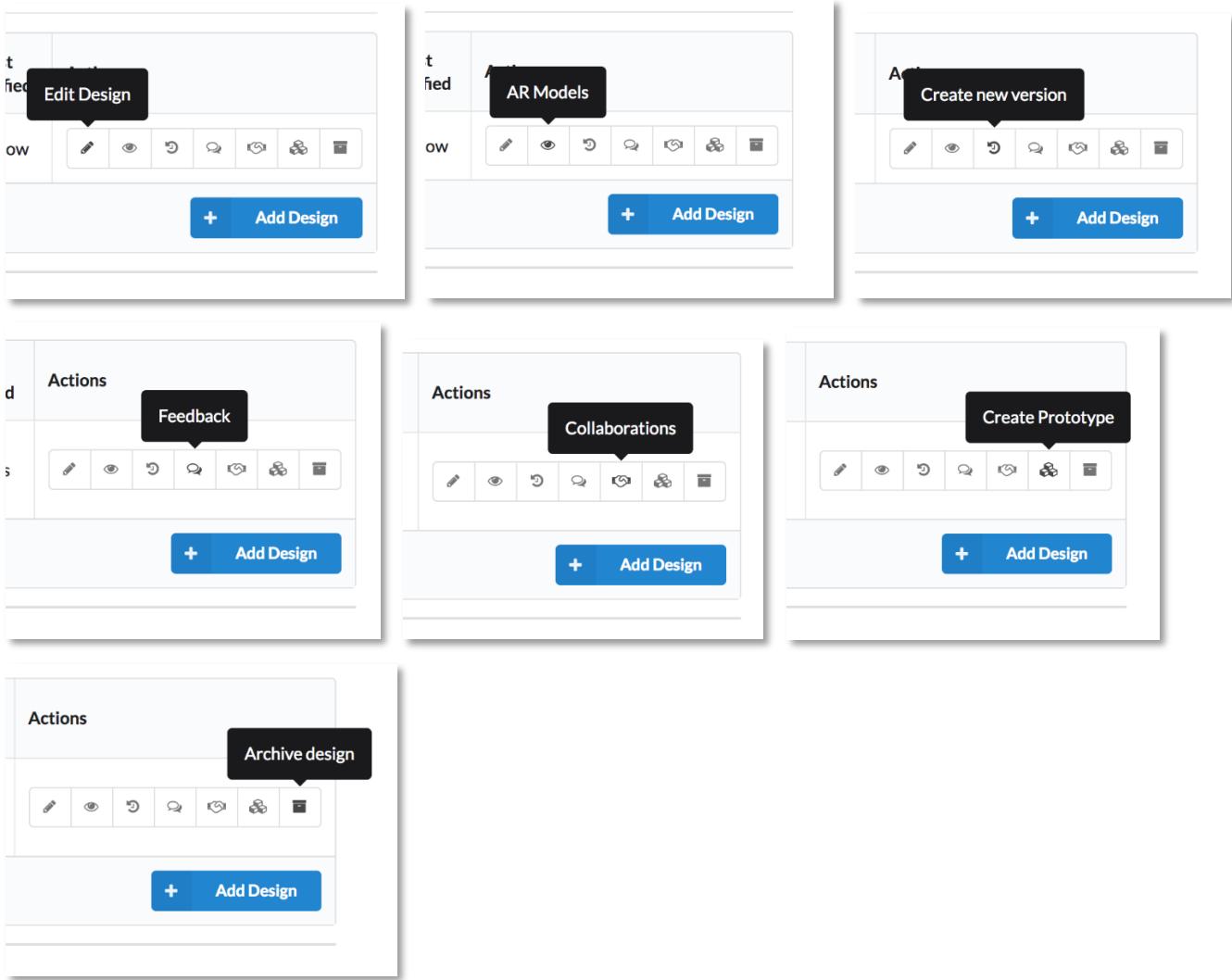
[Create](#)

Creating a design screen

Product Designs				Back to Dashboard
Title	Version	Last Modified	Actions	
1st Iteration of Spinner	1	just now		
+ Add Design				

List of Created Designs

After a design is created, the user has 7 available options by selecting the relevant button as shown below:



[Edit Design](#)

It refers to proceeding in any type of edits in the initially uploaded design

[AR Models - Augment Reality Module](#)

This is a link to a page that has everything that has to do with Augmented Reality models. Here the user can see a list of AR models (along with the numbers of downloads, comments and the user average rating) and options to create new ones and edit or delete existing ones. In addition to that, the user has access to an analysis of user interaction for each AR model (clicking on its name), where product owner can what users believe about the AR model. Creating an AR model, requires (in addition to the AR model files) a title and a description and defining 3 feedback categories for the users. These categories default to Design, Features and Novelty, while a 5-star rating system is employed.

After selecting this option, the user can see the models related to the design and then the feedback received for each design/ AR model.

Augmented Reality Models

Design: Boeing 787

[Back to Designs](#)

Title	Downloads	Comments	Rating	Actions
A plane model	15	1	4.56	

[+ Add AR Model](#)

List of AR models

A plane model

Feedback for design: Boeing 787

[Back to AR Models](#)

Play with it

Average Ratings

4.83 DESIGN

4.67 FEATURES

4.17 NOVELTY

Analysis of Responses

Question	★ ★ ★ ★	★ ★ ★ ★ ★	★ ★ ★ ★ ★	★ ★ ★ ★ ★	★ ★ ★ ★ ★
Design	0	0	0	1	5
Features	0	0	1	0	5
Novelty	0	1	1	0	4

Comments (1)

Marios Phinikettos 3 weeks ago
Interesting
[Reply](#) [Delete](#)

AR model feedback page (detailed ratings plus comments)

Regarding AR-based feedback, the user can either see aggregated information or examine one-by-one the users that participated and the answers they provided.

Create new version

Archives (see below) the current version of the design and redirects the user to a pre-filled (title, description) design creation form to create a new version of a design. Every collaboration that was formed in current version of the design is archived, and the new version is clear of collaborations (must use the partner matching module to search for partners again).

Feedback

Opens a page with all the partners the user has active collaborations (on current design) with. Clicking on an organisation, the feedback discussion thread between the product owner and the collaborator can be accessed.

Feedback

Design: Boeing 787

[◀ Back to Designs](#)

Overview

Organization

FabLab Romania

Boboto

Dr. Sternkopf Media Group

Lucía Pérez-Castilla Alvarez

Ludicus Games

Mathimatiki Vivliothiki

Psicoclinic

SC Psihoforworld SRL

SC Psihoforworld SRL

List of feedback received (from collaborators)

Collaborations - Partner Matching Module

Here the user can see an Overview of his collaborations along with their statuses (negotiating, accepted, archived). Clicking on an organisation name, the negotiation thread is accessed, and (if the collaboration is in negotiation phase) messages can be exchanged. Keep in mind that messages both in feedback and collaborations pages can be accessed through the messages menu (at the top navigation bar, clicking on the envelop icon).

In addition to the list of organisations the user is collaborating with, he can search for organisations to collaborate with. This is done through the search interface in two ways:

- Quick search: typing the name of the organisation in the search field and clicking on the organisation's name
- Advanced search: filling his requirements, and in the list of organisations presented, press the contact button

In the advanced search, the results are ranked and sorted based on user requirements. Clicking the contact button, product owner can message the desired organisation's owner about a collaboration on a design, exchange files (NDA agreements, contracts, schematics etc) and finally add him as a collaborator to the design.

Note here that while every member of an organisation can contact other organisations to collaborate on a design, only the organisation owner can add someone as a collaborator.

Besides the list of products a user (or his organisation) is working on, two more lists of products appear in user's dashboard (if they exist):

- Collaborations
- Archived Collaborations

In both these tabs, the user has access to designs and prototypes made by other organisations, and where the user (or his organisation) has accepted to collaborate on. The Collaborations tab contains a list of the active ones, where the Archived Collaborations contains (obviously) the archived ones. Both tabs provide access to the product and design/prototype pages of each collaboration, along with the feedback messages exchanged between the partners. For the active collaborations, the user can continue to provide feedback, while in the archived, the message thread is locked.

Collaborations

Design: Boeing 787

[Back to Designs](#)

[Overview](#) [Search](#)

Organization	Status
FabLab Romania	Archived
Boboto	Accepted
Dr. Sternkopf Media Group	Accepted
Lucia Pérez-Castilla Alvarez	Accepted
Ludicus Games	Accepted
Mathimatiki Vivliothiki	Accepted
Psicoclinic	Accepted
SC Psihoforworld SRL	Accepted

List of collaborators along with their status

Collaborations

Design: 1st Iteration of Spinner

[Back to Designs](#)

[Overview](#) [Search](#)

Search by name...



ADVANCED SEARCH

I am looking for a: Toy Manufacturer FabLab Child Expert Safety Expert Retailer

That has **any** the following competencies:

- | | | |
|---|---|---|
| <input type="checkbox"/> 3D Modelling | <input type="checkbox"/> 3D Printing | <input type="checkbox"/> 3D Scanning |
| <input type="checkbox"/> CAE/FEM and Structural Analysis Simulation | <input type="checkbox"/> Circuit Production | <input type="checkbox"/> CNC Milling |
| <input type="checkbox"/> Inkjet Printing | <input type="checkbox"/> Knitting Machine | <input type="checkbox"/> Laser Cutting |
| <input type="checkbox"/> Mould Casting | <input type="checkbox"/> Plastic Transformation | <input type="checkbox"/> Sewing Machine |
| <input type="checkbox"/> Soldering Station | <input type="checkbox"/> Vacuum Forming | <input type="checkbox"/> Vinyl Cutting |

Scale of production needed: Prototyping Only Small Medium Large Extra Large

I will pay using: Bank Transfer Credit Card Paypal Check Bitcoin

Payment will be: On Delivery In 15 Days In 30 Days In 45 Days In 60 Days In 90 Days

Clear

Search

Search results

100% **AIJU** (Not rated yet)

Safety Expert

No description

Contact

Add

Searching for partners

Collaborations

Design: 1st Iteration of Spinner

[Back to Designs](#)

Overview Search AIU

Important

Before you add someone to your design, make sure you discuss and agree on the terms of your collaboration. If needed, you can use the form below to attach and exchange documents (e.g. NDA agreements, contracts, etc) to help you reach an agreement.

Drop files here to upload

Add as collaborator

 Send

Contacting an organization for a collaboration

Create Prototype

Clicking on the create prototype option, the design is archived, and the prototype creation form is presented, pre-filled with design's title and description. Creating a prototype, enables the **Prototype Phase**.

Archive design

Archiving triggers two actions:

- puts a design in a special status, where the user can only access the AR models and the feedback options
- for each collaboration, asks both partners to rate the collaboration between them based on Quality, Co-operation and Communication. The feedback interface is found in the same page as messages and notifications.

Prototype Phase

Prototype Phase is very similar to the Design phase. In this page, the user can generate as many prototypes as needed, and for each prototype has the same options as Design Phase (see above), with the exception of "Create new version" and "Create Prototype" which are missing, and a new option "Move to Production", that moves a prototype to Production Phase, thus concluding the product creation phase. The rest actions (Edit Prototype, AR models, Feedback, Collaborations and Archive Prototype) work in a similar way as their corresponding actions in the Design Phase.

Create Prototype

[Back to Prototypes](#)

General

Title

1st Iteration of Spinner

Description

This is the first iteration of a fidget spinner...

! Do you want to make your prototype public (can be seen by everyone)? No Yes

Images

For informational images only. If your prototype is public, these are made public as well

Drop files here to upload

Files

Use this field to upload designs and documents for collaboration with your partners. These remain private, even if the prototype is made public

Drop files here to upload

 Create

Creating a prototype from a design

Product Prototypes

[Back to Dashboard](#)

Title

Last Modified

Actions

1st Iteration of Spinner

just now



 Add Prototype

List of prototypes

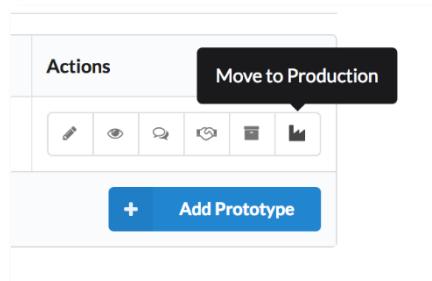
Dashboard Members About   John Doe ▾

My Products  New Product Search... 

Steampunk Spinner Personal Last Modified: 22.06.2018 

 Concept Basic Product Information	 Research Market Analysis	 Design Exploring different designs	 Prototype Testing prototypes	 Production Product is released
--	---	---	---	---

Dashboard for a product in prototype phase



Prototype to Production action button

My Products

Steampunk Spinner Personal Last Modified: 22.06.2018

- Concept Basic Product Information
- Research Market Analysis
- Design Exploring different designs
- Prototype Testing prototypes
- Production Product is released

Dashboard for a product in production phase

Product Page / Organisation Page

The product page is a page containing details about the product under development, including indicative picture(s). From the product page, the user can easily get to the organisation page where the profile of the organisation who created the product is being shown.

3x3 'V' Pillow Cube for keychain
by VERDES INNOVATIONS S.A.

Ages: 6 y.o. - 14 y.o.+ Category: Construction Toys and Puzzles Status: Prototype

3x3 'V' Pillow Cube for keychain is a smaller edition of Original 'V' Pillow cube, the worldwide breakthrough in the shape of cubes introduced by V-Cube in 2008. The 'V' Pillow's ergonomically-designed rounded lines follow the curve of the hand ensuring an excellent grip and better game.

3x3 'V' Pillow Cube for keychain is small enough to fit on your keys or in your pocket, so you really can take it anywhere!

Images (4)

Typical Product page

VERDES INNOVATIONS S.A.

About Products Designs

Contact

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GR20008, Korinthos, Greece
📞 +302741099280
✉️ +302741099281
🌐 Website
🔗 Facebook Page
🐦 @v_cubes
✉️ @v.cube.official

Verdes Innovations S.A. was founded in 2008 and is located in Korinthos of Southern Greece.

Our vision is to provide to people worldwide an opportunity to extend their capabilities and develop pluralistic creative skills through the use of our innovative and educational series of puzzles.

We design and produce our products in Greece and we promote them via a well established and fast growing network of distributors in more than 30 countries. Moreover our products have reached 112 countries via the web. Our best selling markets are Spain, USA, Canada, Switzerland, France, Germany, Netherlands and Greece amongst others.

VERDES Innovations S.A. consists of an R&D division, a production division, a marketing-sales division, a logistic division and a customer support division, of which all strive to provide the best quality control and customer service support possible. All contemporary and safety standards are used in order to accommodate our global customers. Our Management Systems have been certified on ISO 9001:2008 and 14001:2004 standards.

We manufacture so far more than 100 SKUs categorized in 3 major Brands.

a. The V-CUBE™ worldwide patented products. They are a uniquely designed and constructed series of 3D rotational cubes that managed to break a worldwide monopoly for the best-selling puzzle in history. They are manufactured under the unified V-CUBE™ technology, invented and patented worldwide by the Greek Engineer Panagiotis VERDES. V-CUBE™ technology made possible the construction of a Cube with an unlimited number of layers, providing safe and smooth rotation. The revolutionary approach led to an innovative construction that permitted the production beyond five-layered cubes something that was believed to be unattainable for over 20 years! At the same time, V-CUBE™ unified technology has resulted in the design & industrial production of much more durable and user friendly cubes of existing sizes and introduced the "pillow" cube design. Furthermore, V-CUBE™ innovative stylish approach to print directly on the cube's surface introduces border-less creations of popular subjects and effectively explodes the Cube to an infinite level. V-CUBE™ products are classified in 3 different sub-categories: The V-Classics, The V-Collections and the "Create Your Cube" products.
b. The V-SPHERE™ worldwide patented products, a new range of 3D sliding spherical puzzles.
c. The Labors of Hercules, an innovative series of 2D pattern puzzles.

Our products are addressed to kids and parents, students and teachers, professionals and artists, tourists and museum lovers, companies and licensees. Their unique features allow literally everyone to enjoy them and enhancing the puzzle solving experience while offering challenge and stepping level of difficulty.

We have been recognized with several design and business awards for our products and innovations. More information about us and our products can be found on our official websites www.v-cubes.com and www.v-spheres.com

Competencies

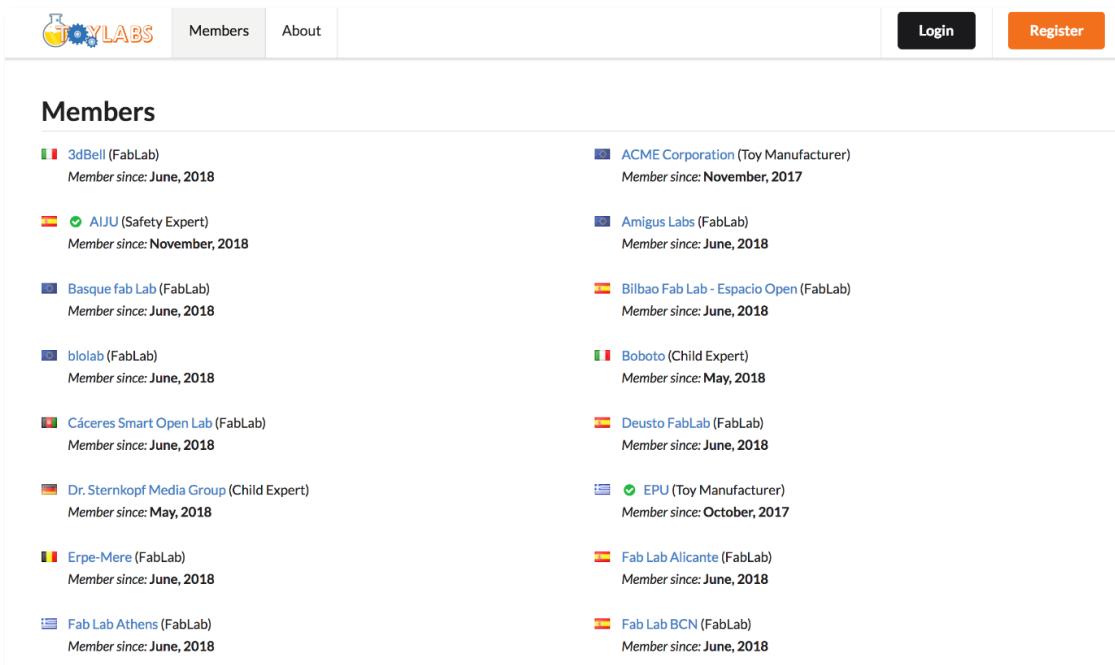
- ✓ 3D Modelling
- ✓ CNC Milling
- ✓ Inkjet Printing
- ✓ Mould Casting

Certifications

- ISO14001 - Environmental Management Systems 
- ISO9001 - Quality Management Systems 

Organization page

The page of any organisation within the ToyLabs platform, can also be accessed directly just by pressing on the "Members" menu item in order to get the full list of the organisations – members of the ToyLabs platform. Note here that only the registered organisations list is available, something that doesn't stand for individuals as their profile information contains sensitive data.



Members	
 3dBell (FabLab)	 ACME Corporation (Toy Manufacturer)
Member since: June, 2018	Member since: November, 2017
  AIJU (Safety Expert)	 Amigus Labs (FabLab)
Member since: November, 2018	Member since: June, 2018
 Basque fab Lab (FabLab)	 Bilbao Fab Lab - Espacio Open (FabLab)
Member since: June, 2018	Member since: June, 2018
 biolab (FabLab)	 Boboto (Child Expert)
Member since: June, 2018	Member since: May, 2018
 Cáceres Smart Open Lab (FabLab)	 Deusto FabLab (FabLab)
Member since: June, 2018	Member since: June, 2018
 Dr. Sternkopf Media Group (Child Expert)	  EPU (Toy Manufacturer)
Member since: May, 2018	Member since: October, 2017
 Erpe-Mere (FabLab)	 Fab Lab Alicante (FabLab)
Member since: June, 2018	Member since: June, 2018
 Fab Lab Athens (FabLab)	 Fab Lab BCN (FabLab)
Member since: June, 2018	Member since: June, 2018

Figure: List of platform members

For any organisation with active participation in the platform, any registered user can get a list of products that the organisation has initiated, no matter in which phase the development is, as long as the related designs or products are identified as “public”.

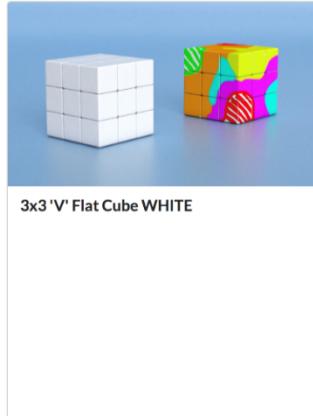
VERDES INNOVATIONS S.A. 

About Products Designs



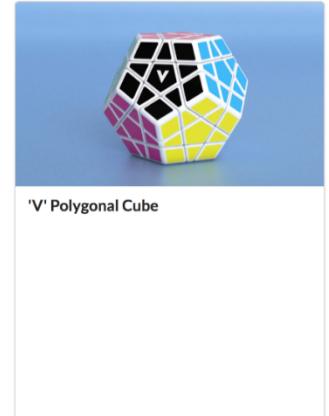
3x3 'V' Pillow Cube for keychain

0 Comments 1 Like



3x3 'V' Flat Cube WHITE

0 Comments 0 Likes



'V' Polygonal Cube

0 Comments 0 Likes



Folkloric Images

0 Comments 0 Likes



'V' Cubes for the Visually Impaired

0 Comments 0 Likes

Organization's (public) products