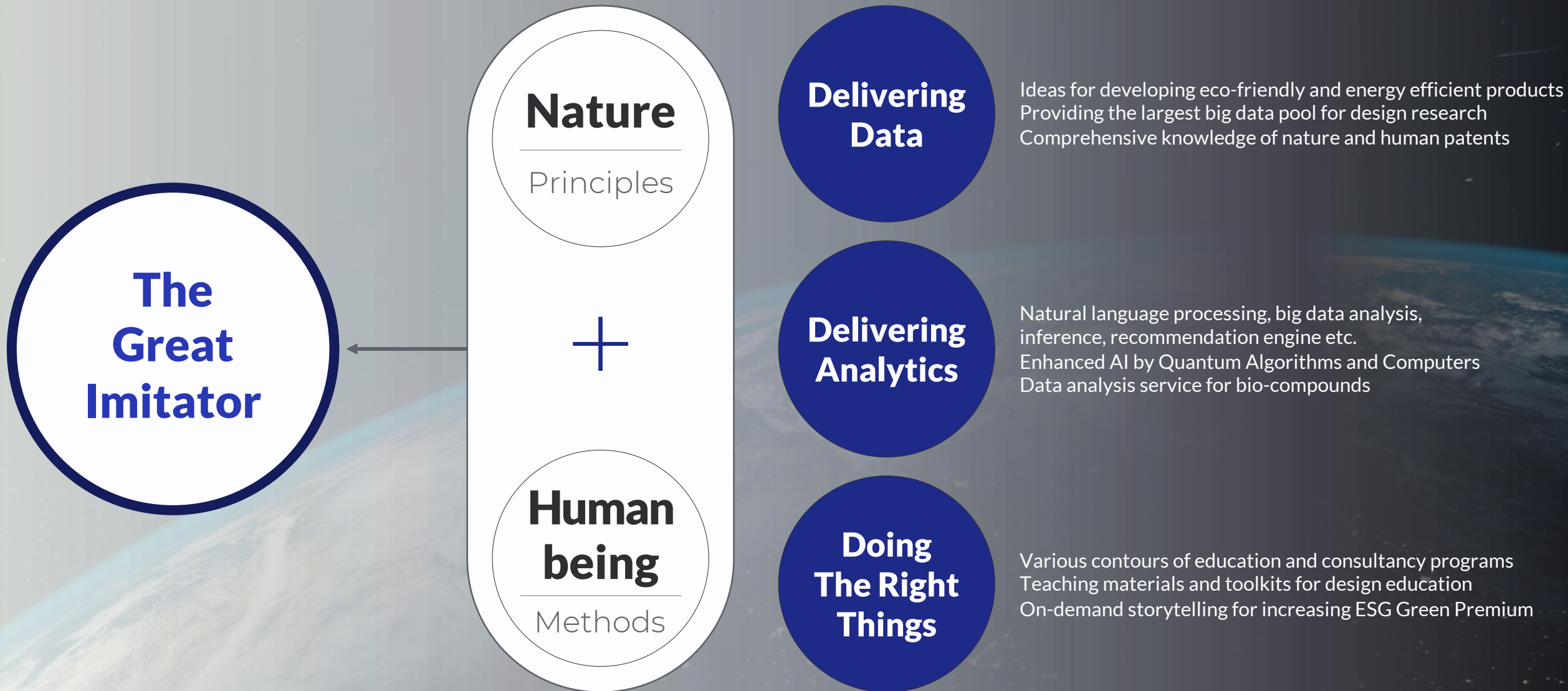


MIMICUS

ideas on demand

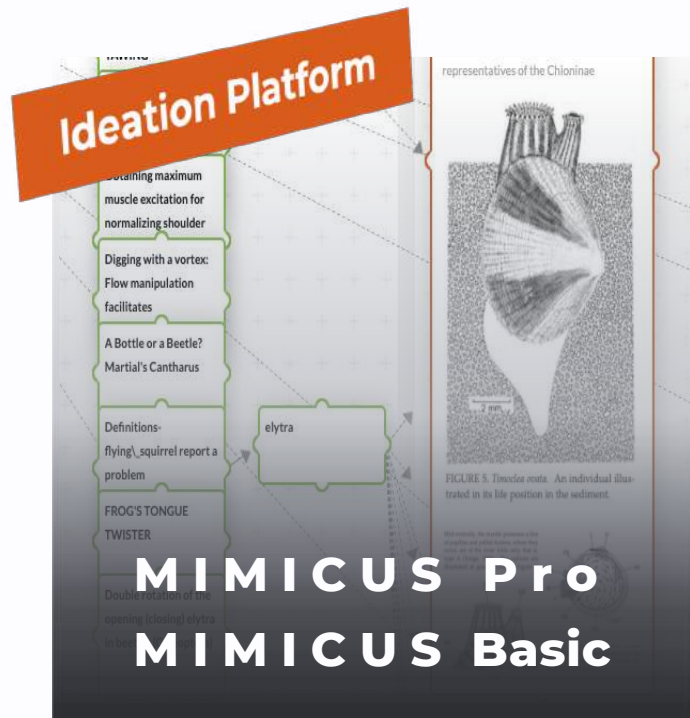
Company **Vision**



Company **History**

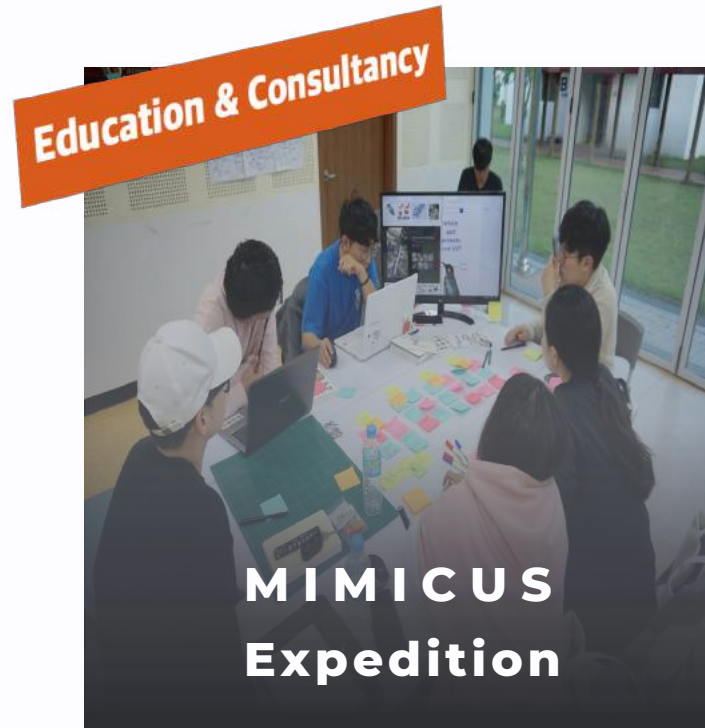
- 2021 Government-aided Biomimicry R&D Project (17'-21' 500K USD)
- 2020 Master plan development for Korean Biomimicry Industry incubation (Ministry of Environment, Republic of Korea)
- 2019 MIMICUS Expedition Practitioner Program for startups (The Daejeon center for creative economy, Republic of Korea)
- 2019 MIMICUS Expedition Beginner Program for university students (YOUNG NAM University)
- 2019 Rotman School CDL Quantum Stream (alumni)
- 2019 ISO/TC266 Biomimetics Committee Member (~present)
- 2018 Robert Wood Johnson Foundation (Johnson&Johnson) International Biophilic Educators Network member
- 2018 MIMICUS Expedition Practitioner Program for small-medium companies (Republic of Korea)
- 2018 Nominated in 2017 KAIST Annual Research Report
- 2018 PreSeed Investment
- 2017 Minister Prize from the Ministry of Science and ICT, Republic of Korea
- 2016 Corporation Establishment HomoMimicus co., Ltd.
- 2015 Research Fellowship, KAIST VRPGP(High Risk High Return)
- 2014 Research Fellowship, KAIST Entrepreneurship Center
- 2009 Teamed Up

Business Area



Design research is fun!
Idea recommendation using AI
Non-face-to-face research collaboration
and security features
Providing customized navigation functions
for enterprises

pro.mimic.us / basic.mimic.us



Biomimicry design thinking education
Junior / Beginner / Practitioner programs
Teaching materials and design toolkits
Curriculum works on MIMICUS platform
Customized curriculums by requests

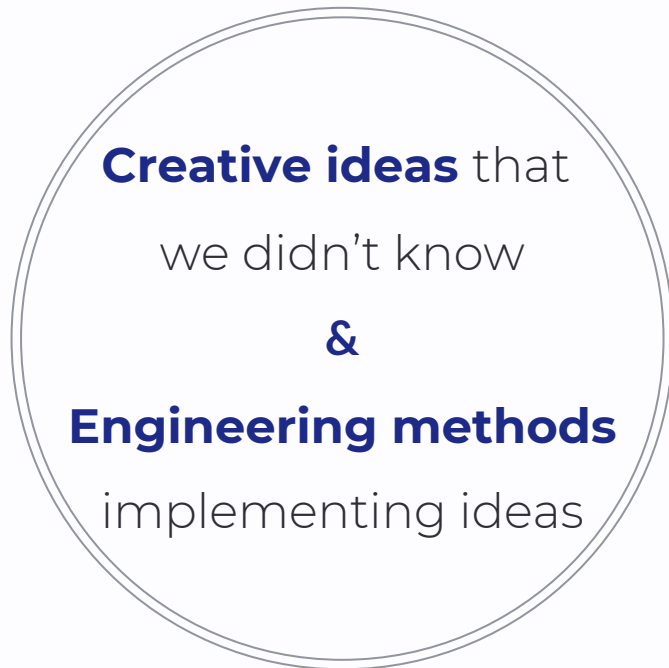
expedition.mimic.us



Biomimetic tactical equipment
Biomimetic robotics
control algorithms
On-demand design consulting or storytelling
for product & service

mimic.us / taccave.com

Business **Solution**



Delivering Data

- 1B Natural science papers + patents bibliographic information
- 6M Natural compounds big data
- 20M Biomaterial properties
- 1M Products-Services + Functional Information

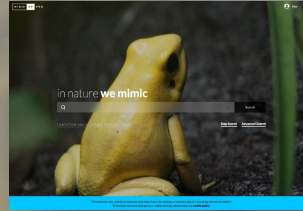
Delivering Analytics

- Natural language processing technology
- Case-based Reasoning (CBR) AI-based recommender
- CBR + Ontology
- Network analysis utilizing GBS quantum computing
- Big data analysis of compounds and biological information
- Customer information security

Doing The Right Things

- Consultancy
- Data and platform customization on demands
- Customized troubleshooting
- Education program for biomimetic design thinking
- Biomimicry YouTube to raise public awareness

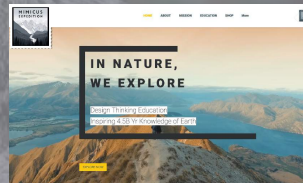
Product **Description**



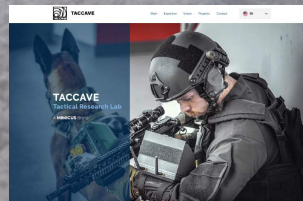
1. MIMICUS Pro Platform



2. MIMICUS Basic Platform

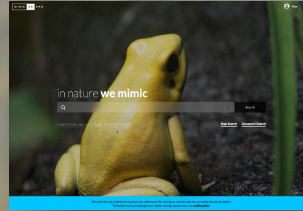


3. MIMICUS Expedition Edu & Consultancy



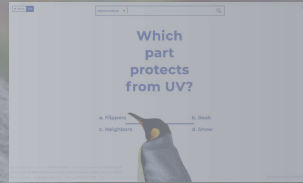
4. TACCAVE Bio-inspired Tactical Equipment

Product **Description**

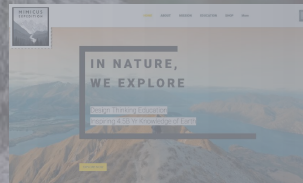


1. **MIMICUS Pro Platform**

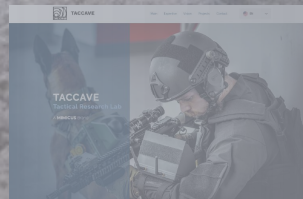
Search bio-derived materials and eco-friendly product ideas
Collaborative R&D platform working on 1B papers & patents data, 3M species, 6M natural compounds, and 750K product-function dictionary etc.



2. **MIMICUS Basic Platform**



3. **MIMICUS Expedition Edu & Consultancy**



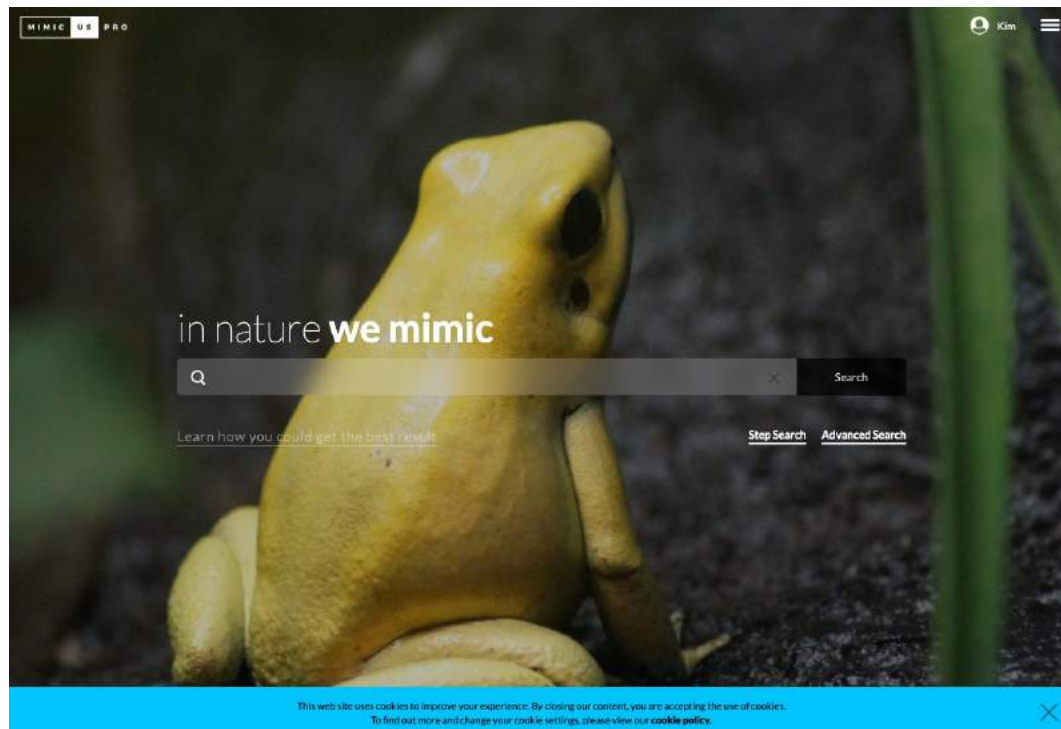
4. **TACCAVE K10 Bio-inspired Design**

Product **Description**

1. MIMICUS Pro Platform

pro.mimic.us

Search bio-derived materials and eco-friendly product development ideas
Collaborative R&D platform working on 1B papers & patents data, 3M species,
6M natural compounds, and 750K product-function dictionary etc.

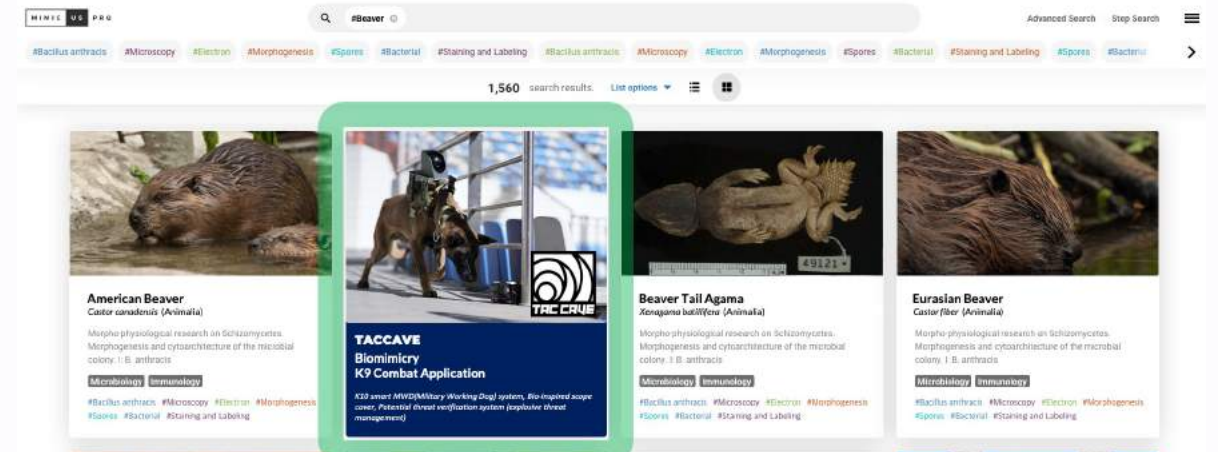


1-a. Default Search

Users can navigate the website as if seeing a picture book without specialized knowledge.

In the process of selecting each idea/bio-information/product-information card, the depth of expertise naturally deepens.

The degree of understanding of related organisms and substances is increased without even knowing themselves!

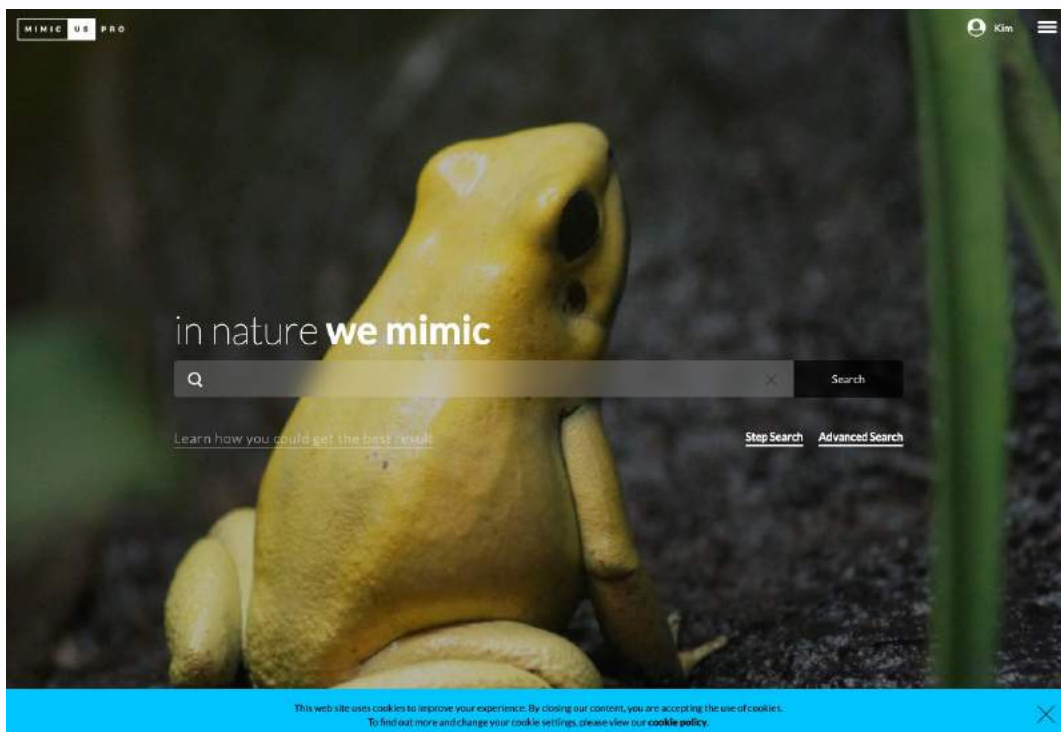


Product **Description**

1. MIMICUS Pro Platform

pro.mimic.us

Search bio-derived materials and eco-friendly product development ideas
Collaborative R&D platform working on 1B papers & patents data, 3M species,
6M natural compounds, and 750K product-function dictionary etc.



1-b. Step Search

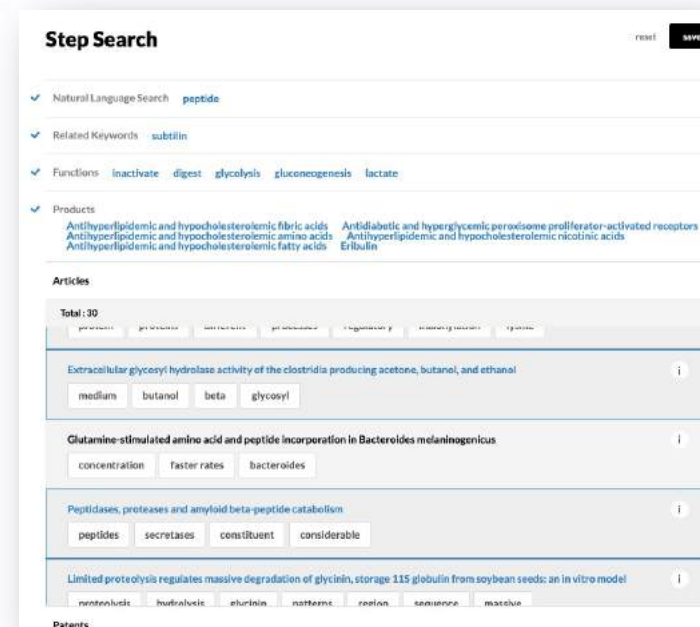
Hundred experts have hundred ways of searching!

Step search allows customizing the exploration process.

Users may organize search steps by the familiar knowledge depth of bio-ecological information.

Moreover, you can record the exploration process as history.

Easy to recall the previous process and restart the exploration from it.

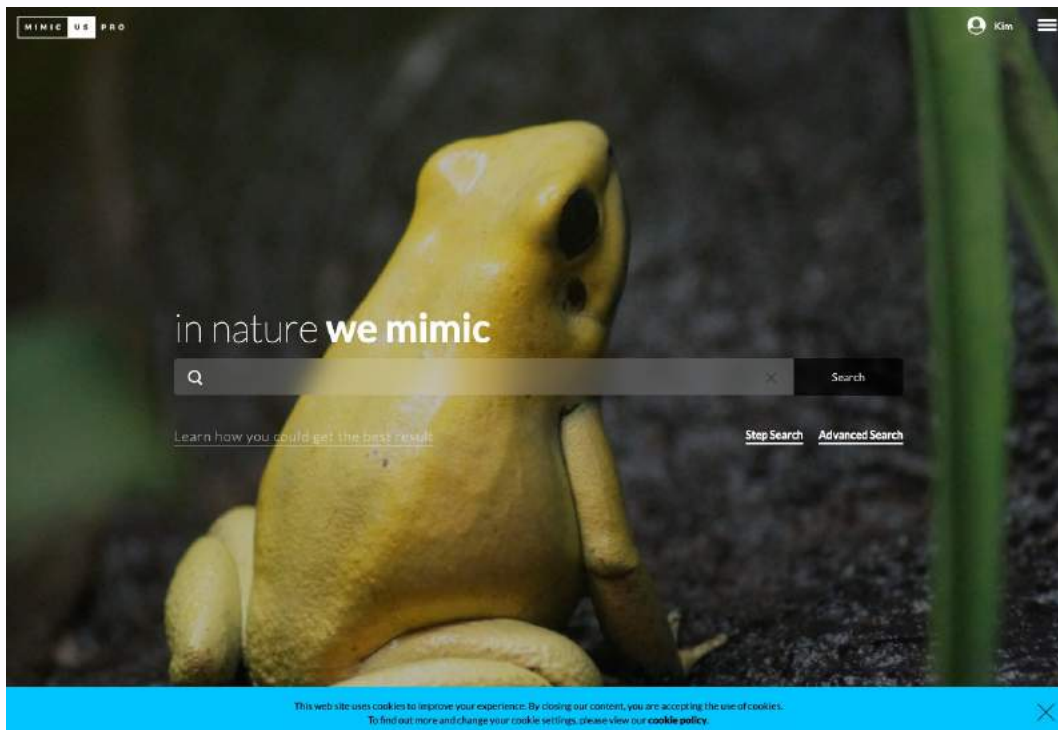


Product **Description**

1. MIMICUS Pro Platform

pro.mimic.us

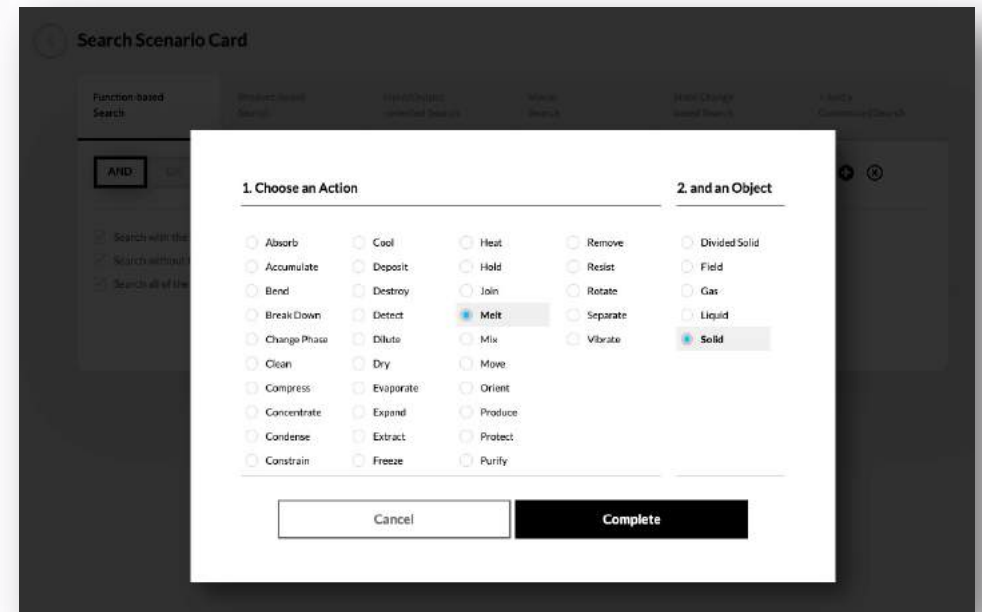
Search bio-derived materials and eco-friendly product development ideas
Collaborative R&D platform working on 1B papers & patents data, 3M species,
6M natural compounds, and 750K product-function dictionary etc.



1-c. Advanced Search

Find eco-friendly ideas or materials that can be used to meet the functional requirements.
Advanced search allows users to start the exploration with their domain knowledge.
Select the product category or TRIZ strategies you want to develop and search for ideas and materials.

Alternatively, select a biological tissue name (heart, eyes, large intestine, etc.) to start the exploration.

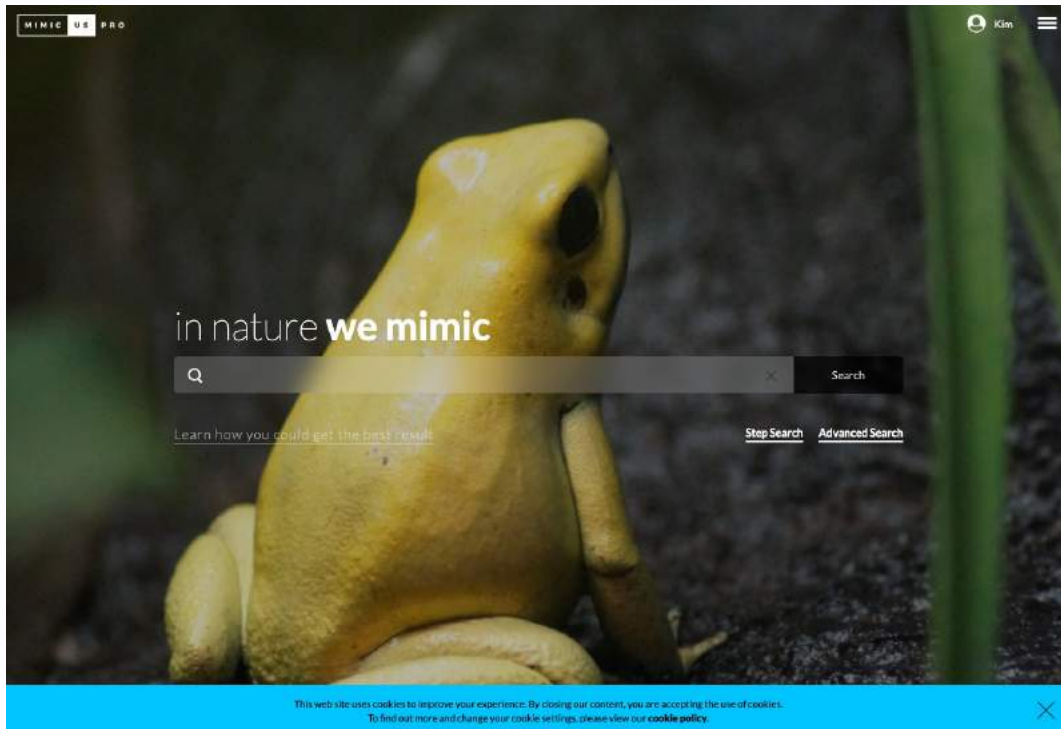


Product Description

1. MIMICUS Pro Platform

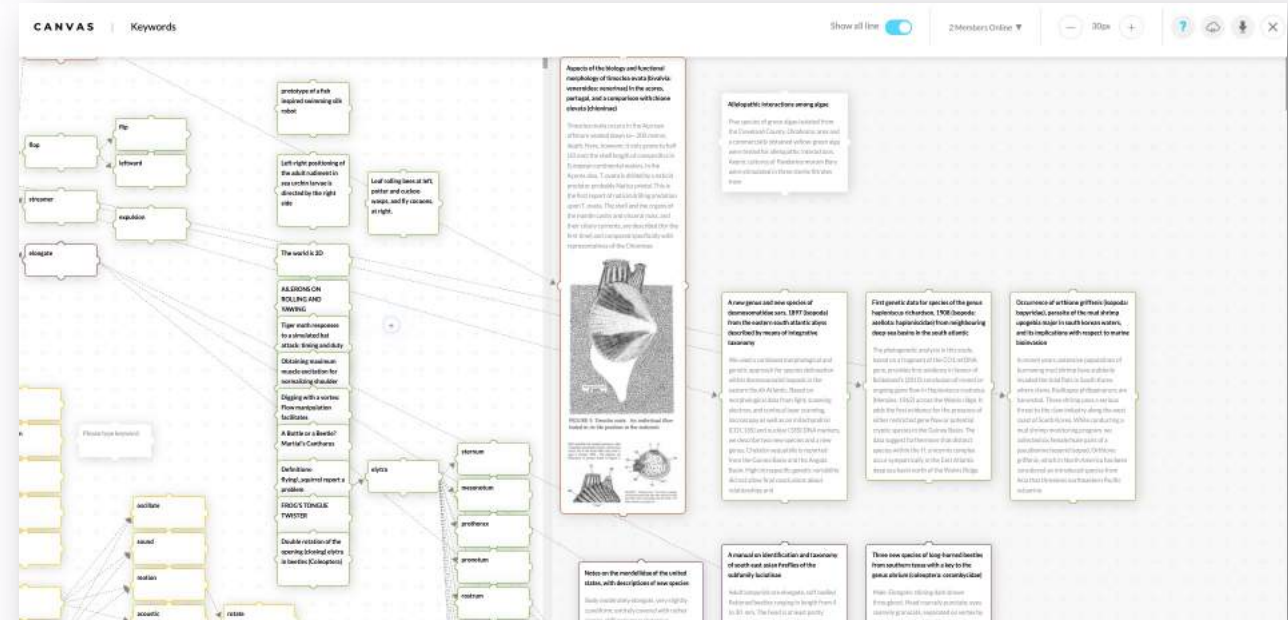
pro.mimic.us

Search bio-derived materials and eco-friendly product development ideas
Collaborative R&D platform working on 1B papers & patents data, 3M species, 6M natural compounds, and 750K product-function dictionary etc.



1-d. Canvas

Perform *Default Search* or *Step Search* on canvas that enables real-time group work.
All records of exploration are visualized on the canvas.
This canvas is ready to export for documentation.
No need to create separate research notes to encrypt the process.
The Canvas system records all of it (added at the end of 2021).

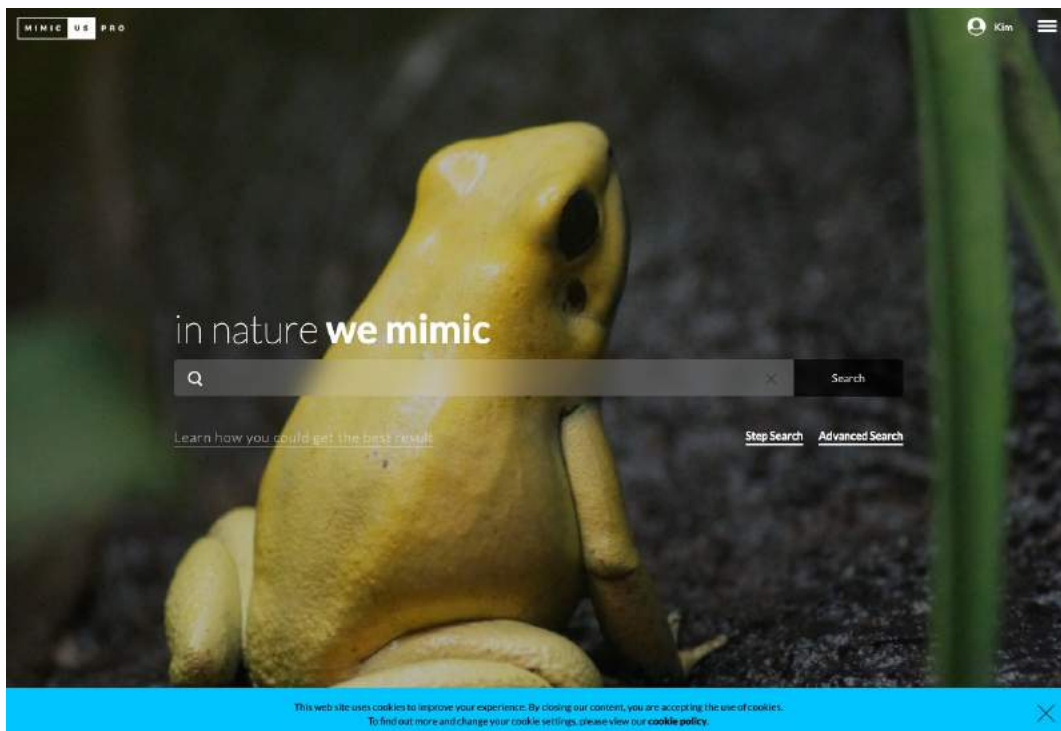


Product **Description**

1. MIMICUS Pro Platform

pro.mimic.us

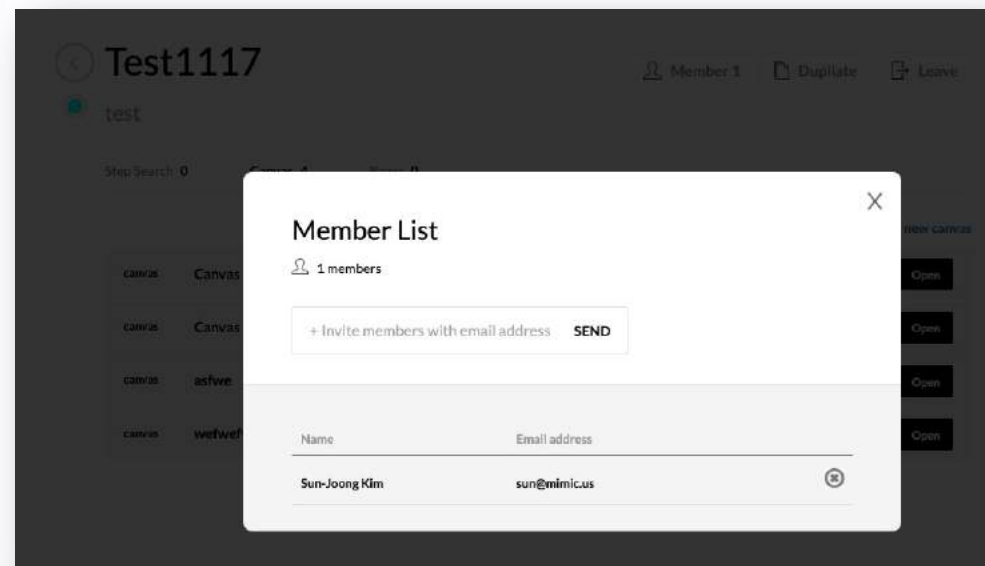
Search bio-derived materials and eco-friendly product development ideas
Collaborative R&D platform working on 1B papers & patents data, 3M species,
6M natural compounds, and 750K product-function dictionary etc.



1-e. Group

The master account(administrator) collectively manages all records of *Group* members.
Manage all exploration records, including *Canvas*, *Step Search*, *Scrap* history, deletion,
and copy history, etc.

Create a *Group* for a single project to protect your idea within your organization securely.



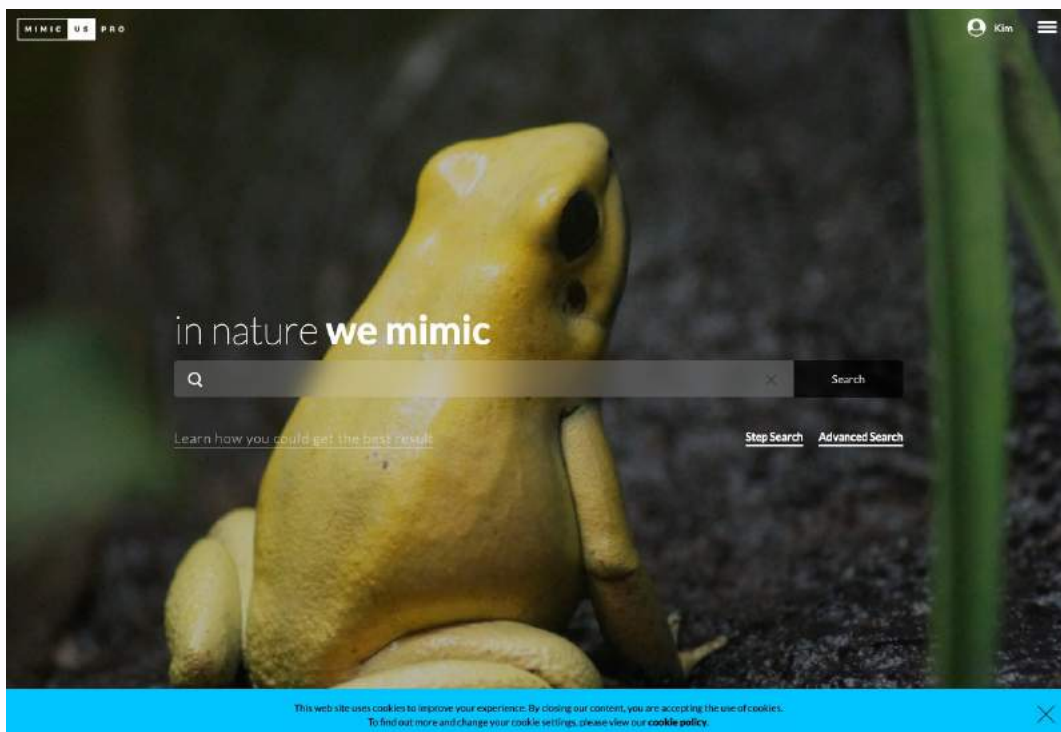
[Use Case] Company S in Germany uses the information security service for each group to operate each project team. It helps to prevent invention ownership disputes.

Product **Description**

1. MIMICUS Pro Platform

pro.mimic.us

Search bio-derived materials and eco-friendly product development ideas
Collaborative R&D platform working on 1B papers & patents data, 3M species,
6M natural compounds, and 750K product-function dictionary etc.

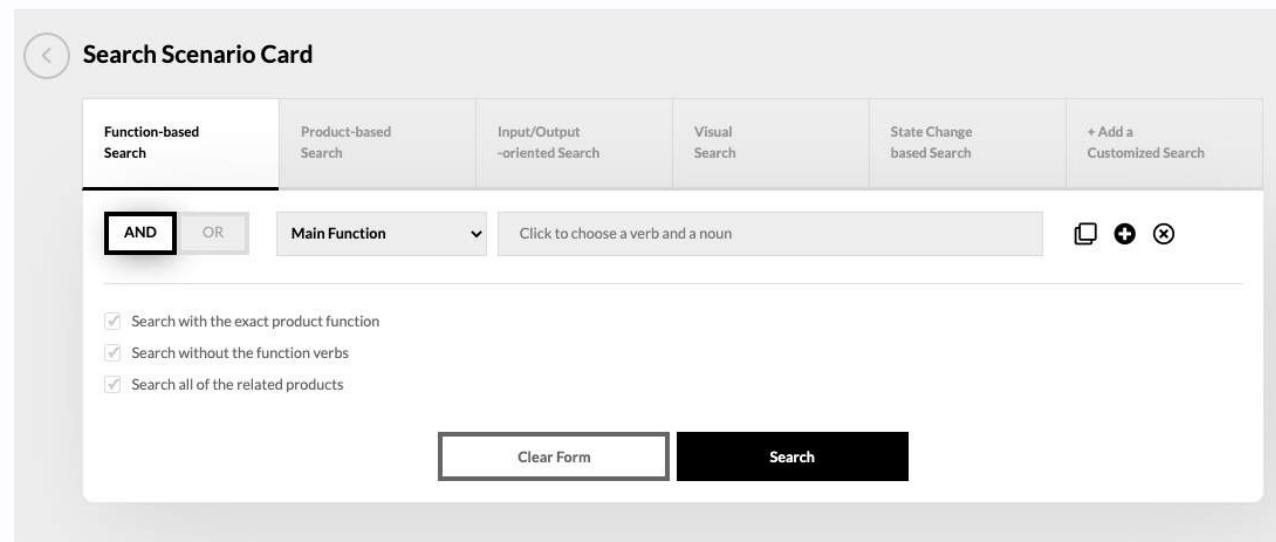


1-f. Customized Search (Service inquiry is required)

Develop and provide the on-demand search and exploration environment.

Serve customized built-in knowledge-base pool according to the customer's purpose of use (Additional cost required).

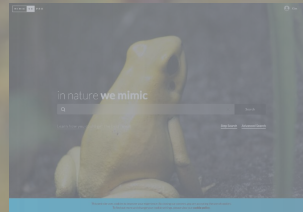
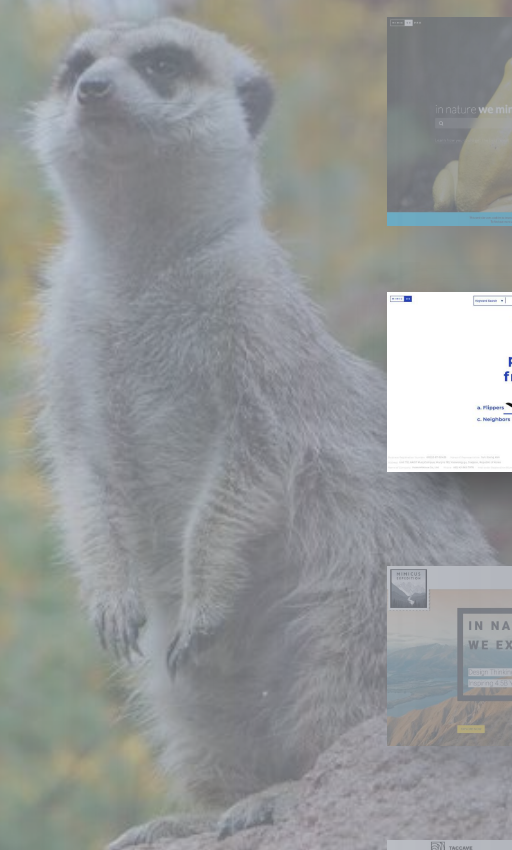
The customized built-in knowledge pool is only accessible by members of the organization.



[Cost] Calculated by the standard of cost estimation according to the size of the knowledge base, server specifications, and the development period for the new recommender algorithm.

[Use Case] Company S of the United Kingdom requested a personalized and customized search engine only for domestic patents and substances investigated in the United Kingdom.

Product **Description**

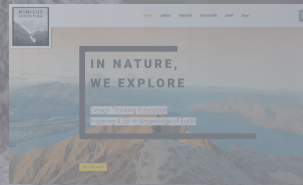


1. MIMICUS Pro Platform

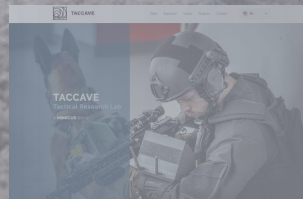


2. MIMICUS Basic Platform

Education platform. Search biological material or eco-friendly product development ideas. Provides a thousand biomimetic design cases and background knowledge



3. MIMICUS Expedition Education Consultancy



4. TACCAVE K10 Bio-inspired Design

Product **Description**

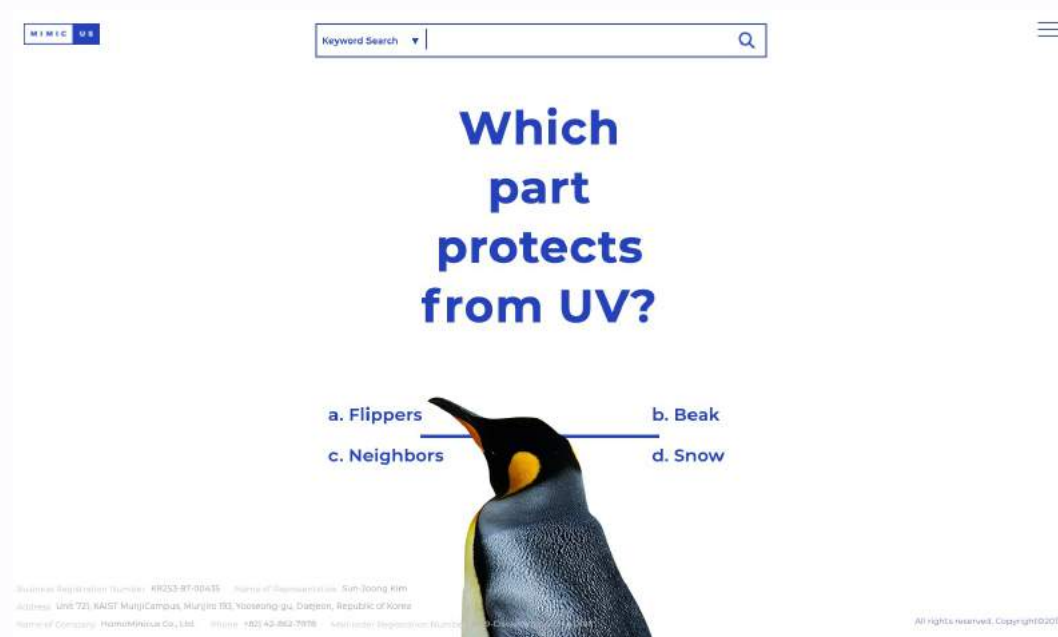
2. MIMICUS Basic Platform

basic.mimic.us

Education platform.

Search biological material or eco-friendly product development ideas.

Provides a thousand biomimetic design cases and background knowledge



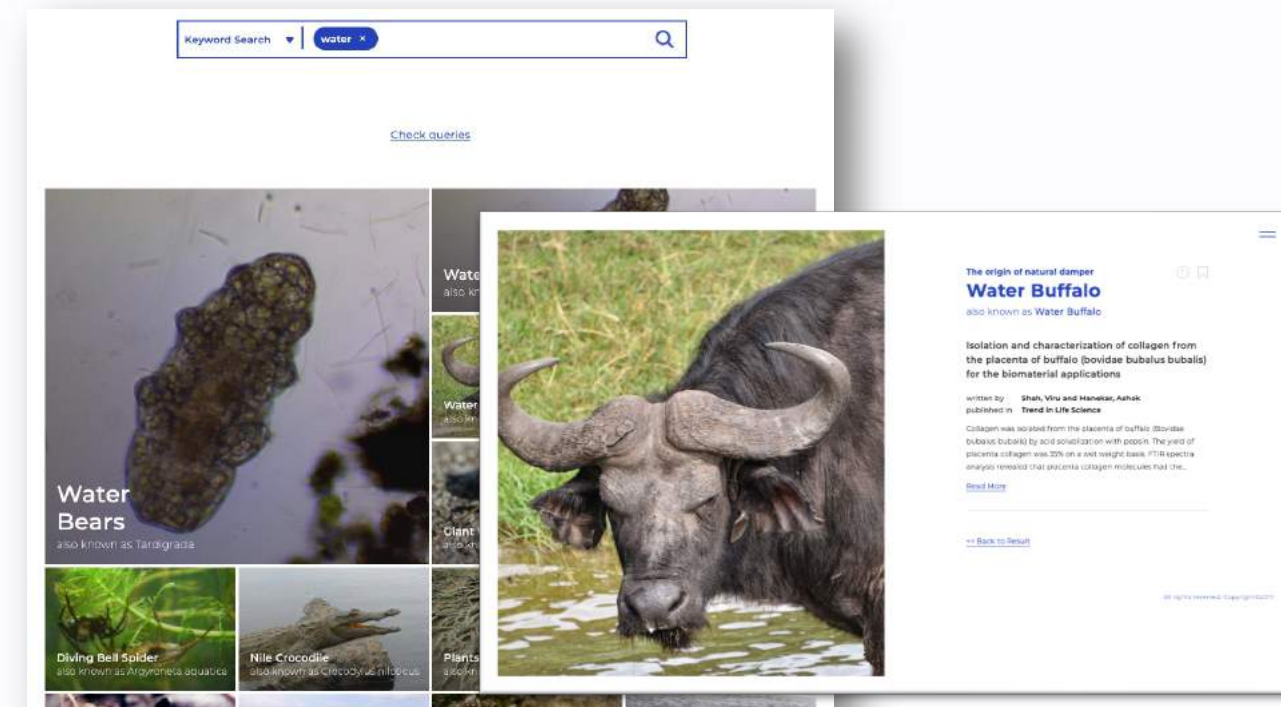
2-a. Default Search

Users can navigate the website as if seeing a picture book without specialized knowledge.

In the process of selecting each idea card, the depth of expertise naturally deepens.

The degree of understanding of related organisms and substances is increased

without even knowing themselves! Students can search for related expertise.



Product **Description**

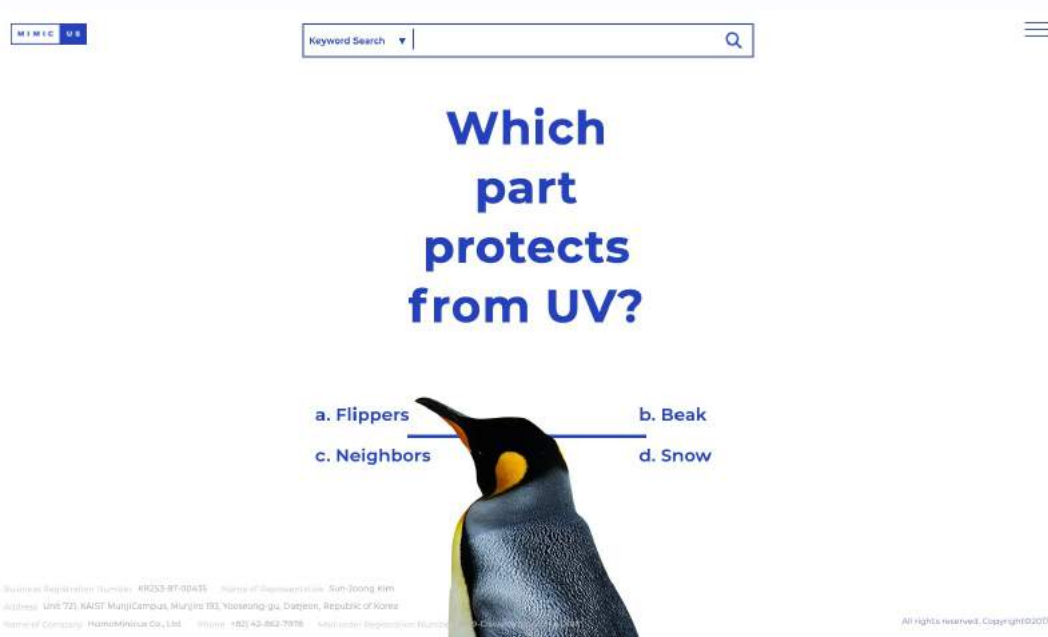
2. MIMICUS Basic Platform

basic.mimic.us

Education platform.

Search biological material or eco-friendly product development ideas.

Provides a thousand biomimetic design cases and background knowledge

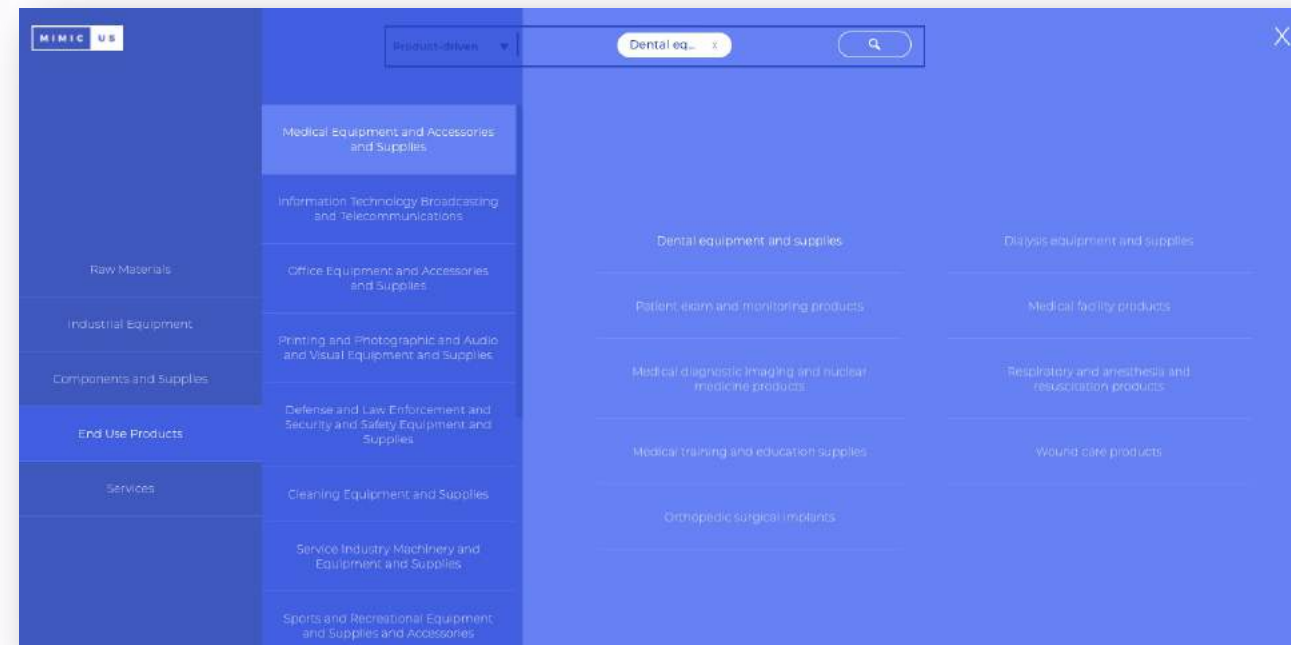


2-b. Product-driven Search

Select the product category which you want to design.

The A.I. system automatically summarizes idea resources to apply on your project.

Users also can search deeply down for expertise(research papers) to understand principles.



Product **Description**

2. MIMICUS Basic Platform

basic.mimic.us

Education platform.

Search biological material or eco-friendly product development ideas.

Provides a thousand biomimetic design cases and background knowledge

Business Registration Number: KR253-97-00435 | Name of Representative: Sun-Joong Kim
Address: Unit 721, KAIST Multi-Campus, Marjeon 193, Yuseong-gu, Daejeon, Republic of Korea
Name of Company: Namumimicus Co., Ltd. | Phone: +82-42-863-7976 | Email: info@mimicus.com

All Rights reserved. Copyright©2017

2-c. Group and Following

Users can create groups by project and collectively scrap the ideas from nature.

Follow teachers or experts in the platform to track the ideas of their interests.

Group

Welcome to the group! In this group, you can create groups and share your bookmarks with other people.

+ Create a new Group

dccei
name

1908YU_TeamC
1908YU_TeamC

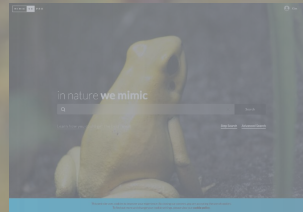
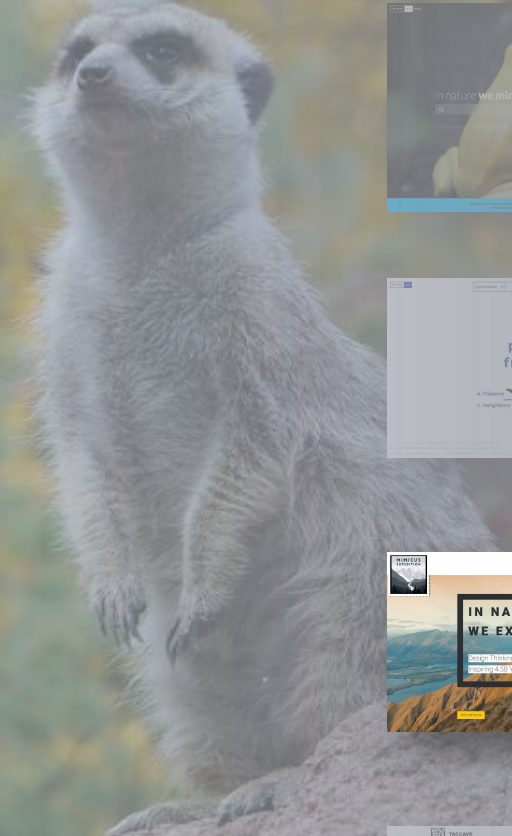
SAP Initial Meeting
Oct. 11 2018 Meeting

MoseMedi
모세메디 관련 청색기술 아이디어 목록

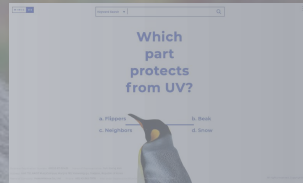
LaVillette Science Museum
Workshop
Blabla

Paris KAIST Workshop
Blabla

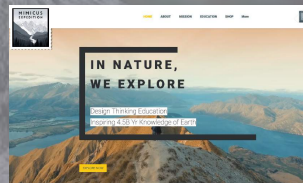
Product **Description**



1. MIMICUS Pro Platform

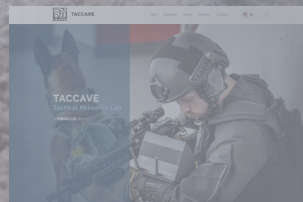


2. MIMICUS Basic Platform



3. MIMICUS Expedition Edu & Consultancy

Education program for design problem-solving. The program includes the workshop working on Computational Biomimetic Design methodology designed by MIMICUS. Junior / Beginner / Practitioner curriculums are prepared



4. TACCAVE K10 Bio-inspired design

Product **Description**

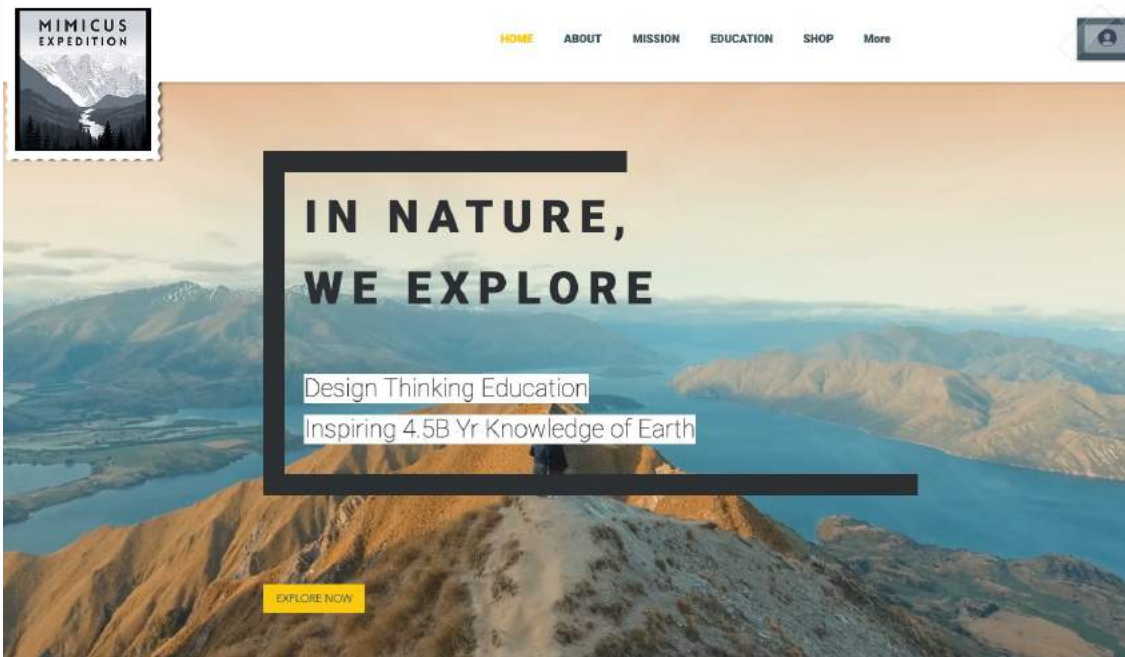
3. MIMICUS Expedition Education & Consultancy

expedition.mimic.us

Education program for design problem-solving.

The program includes the workshop working on *Computational Biomimetic Design* methodology designed by MIMICUS.

Junior / Beginner / Practitioner curriculums are prepared



3-a. Junior Program

Focus on nature and creatures and motivate children to join energy-saving and eco-friendly thinking actively.

- Nature observation workshop and design thinking education (2 Days)
- Recommended for elementary, secondary, and high school students
- MIMICUS Basic 1 month license is provided



[Use Case] We plan to showcase nature observation and design thinking education using the MIMICUS Junior Program on 'gguge,' a non-face-to-face education platform for children.

Product **Description**

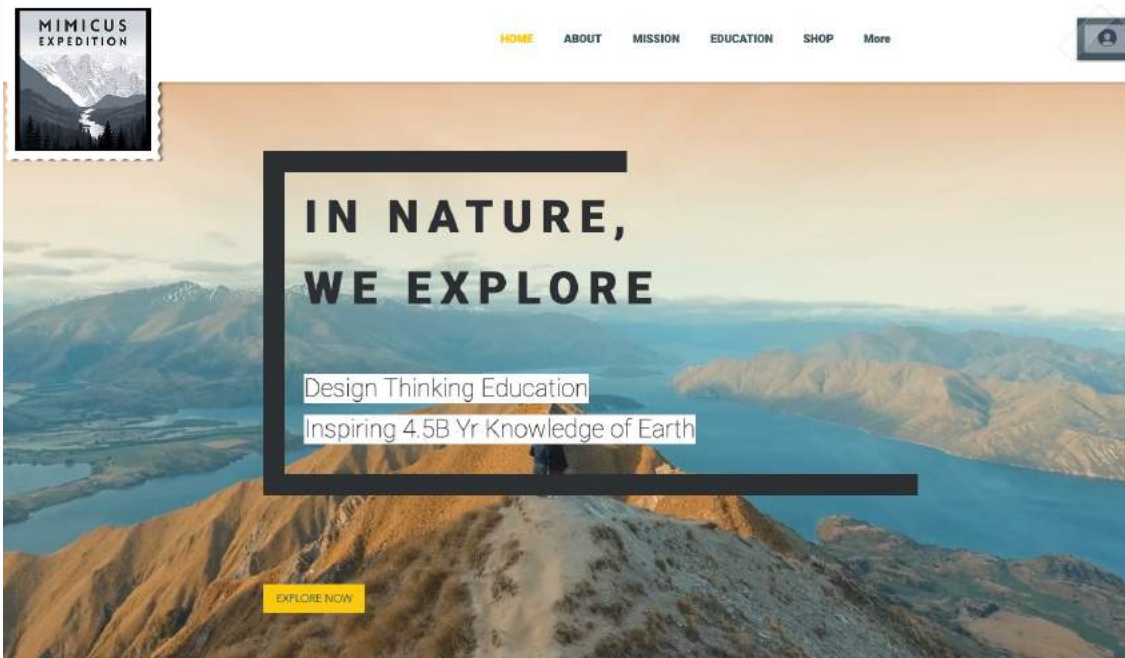
3. MIMICUS Expedition Education & Consultancy

expedition.mimic.us

Education program for design problem-solving.

The program includes the workshop working on *Computational Biomimetic Design* methodology designed by MIMICUS.

Junior / Beginner / Practitioner curriculums are prepared



3-b. Beginner Program

Focus on solving a practical problem to utilize nature's wisdom through Computational Biomimetic Design and design thinking methodologies.

- Nature observation workshop and design thinking education (3 Days)
- Product ideation and simple prototyping is included
- MIMICUS Basic 1 month license is provided



[Use Case] Youngnam University of Korea joined the MIMICUS Beginner Program to enhance students' problem-solving capabilities from 2019.

[Use Case] KAIST utilized the MIMICUS Beginner Program to provide biomimetic design thinking education from 2018.

[Use Case] Art Center Nabi used the MIMICUS Beginner Program to enlarge the artistic creativity of in-house artists.

Product **Description**

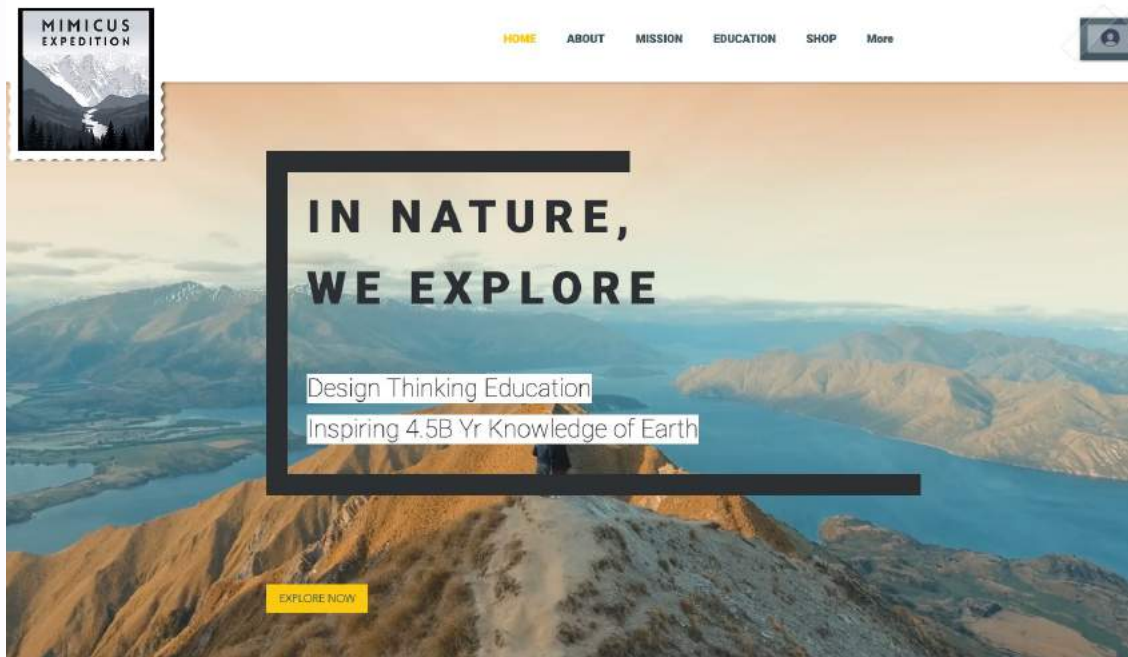
3. MIMICUS Expedition Education & Consultancy

expedition.mimic.us

Education program for design problem-solving.

The program includes the workshop working on *Computational Biomimetic Design* methodology designed by MIMICUS.

Junior / Beginner / Practitioner curriculums are prepared



3-c. Practitioner Program (Consultancy service is included)

Workshop and consultancy to solve real design problems by using CBD*.

*CBD: *Computational Biomimetic Design (CBD)*

- Help practitioners trying biomimicry to improve the green premium of the product & service.
- The workshop includes biomimetic design methodology teaching and activities throughout teaching materials and design toolkits designed by MIMICUS.
- The consultancy service calls a domain expert for advisory at interpreting nature's principles.
- The program schedule requires at least four weeks (3-5 hours workshop per week)



[Use Case] The Daejeon Creative Economy Innovation Center of Korea utilized the MIMICUS Practitioner Program to help ESG innovation of startups by using biomimicry.

[Use Case] Gyeongbuk Techno Park of Korea utilized the MIMICUS Practitioner Program to help ESG innovation of industrial goods manufactured by small-medium-sized companies in Korea.

Product **Description**

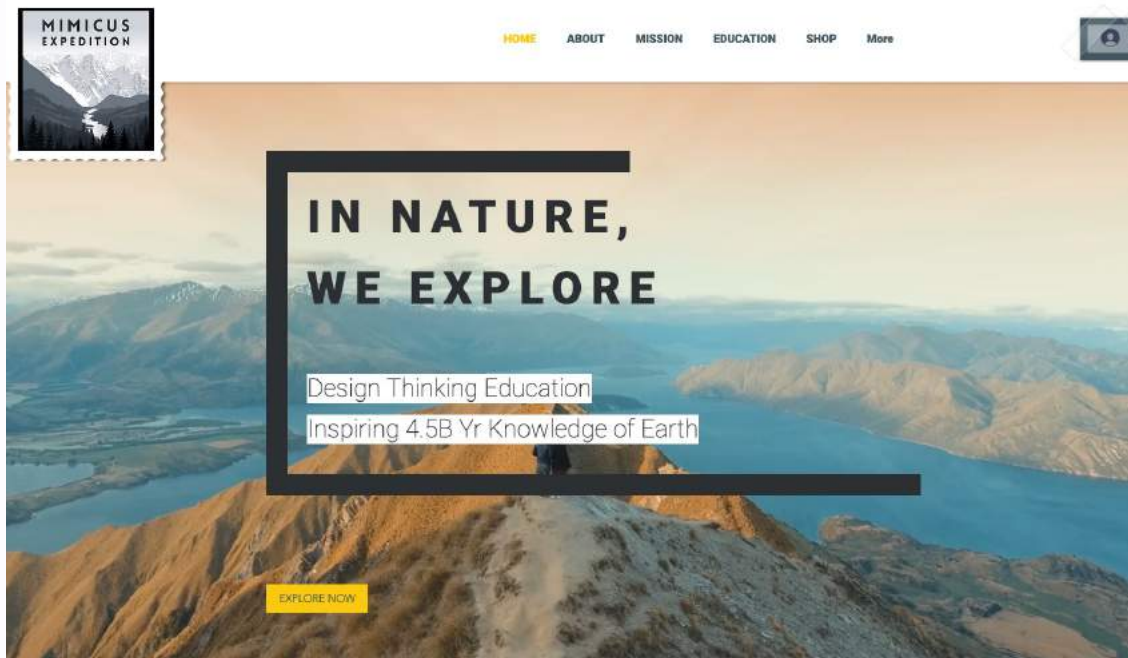
3. MIMICUS Expedition Education & Consultancy

expedition.mimic.us

Education program for design problem-solving.

The program includes the workshop working on *Computational Biomimetic Design* methodology designed by MIMICUS.

Junior / Beginner / Practitioner curriculums are prepared



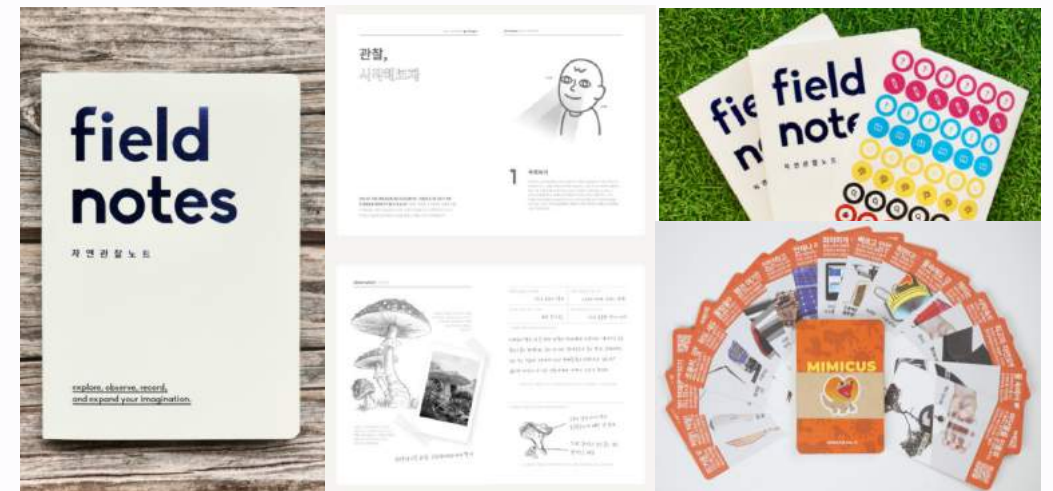
3-d. Teaching Materials and Biomimetic Design Toolkits

Materials and toolkits of MIMICUS Expedition broaden designers' creativity and deconstruct stereotypes.

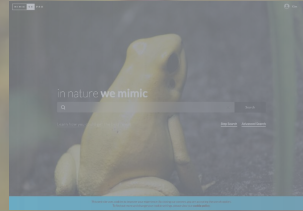
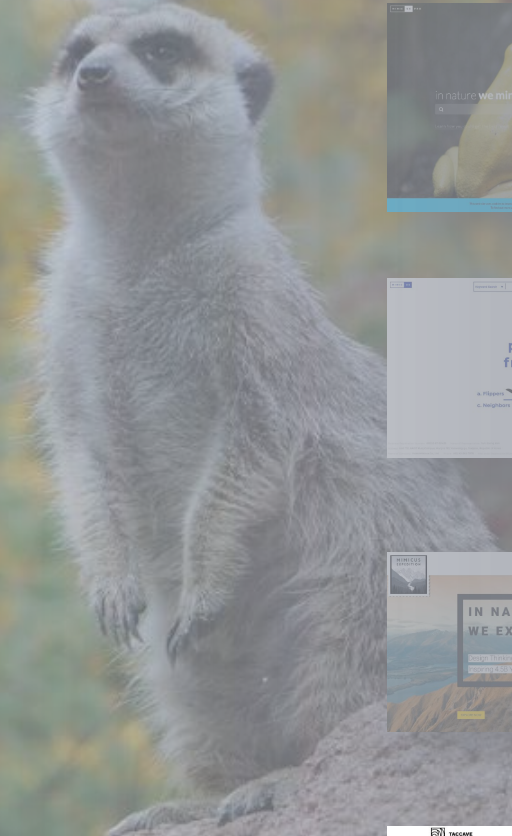
The materials include a textbook and worksheets to practice biomimetic design methodologies.

The board game-like toolkits help designers to interpret various principles of nature quickly remedy design solutions.

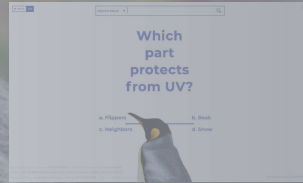
- Textbooks and teaching materials
- Boardgame style ESG Green Value enhancement strategy game
- Memory game to study biomimetic design cases and strategies
- Ecosystem observation kits (notebooks, worksheets, stickers, etc.)



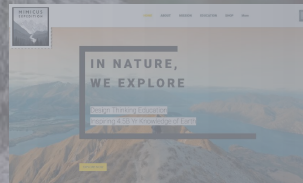
Product **Description**



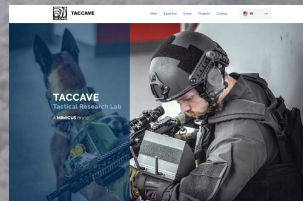
1. MIMICUS Pro Platform



2. MIMICUS Basic Platform



3. MIMICUS Expedition Education Consultancy



4. TACCAVE Bio-inspired Tactical Equipment

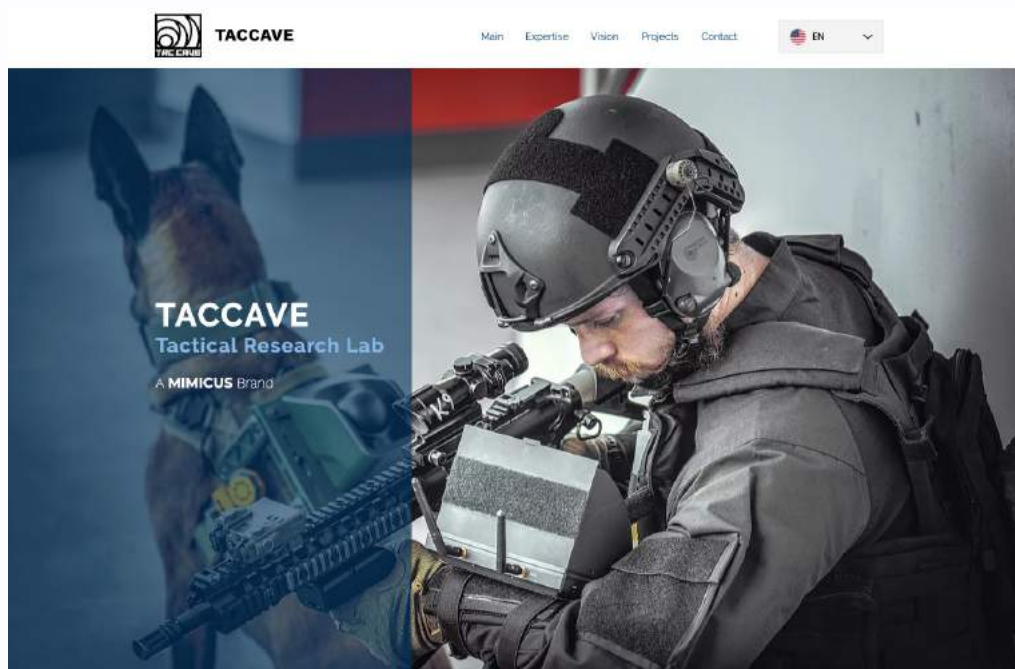
Tactical solution research and development provider consisting of experts in the field of Bio-inspired Design, Biomimetics, A.I., Machine Learning, and Quantum Computing.

Product **Description**

4. TACCAVE Bio-inspired Tactical Equipment

taccave.com

Tactical solution research and development provider consisting of experts in the field of Bio-inspired Design, Biomimetics, A.I., Machine Learning, and Quantum Computing.



K10 Science Device for K9 Units (Smart Military System)

K10 device dramatically reduces the risks on the operation of K9 units: explosives detection, rescue operation, and law enforcement at firearm crimes.

- Scientific device for carrying out remote operations of K9 units
- The system includes a Command Distribution device, Command Transmitter/Receiver adjustable with firearms, Video Receiver, etc.



Certification **Status**

10 Published Patents for US, Japan, ROK, etc.

36 Patents Pending

12 Trademarks, Design Patents for US, Japan, China, etc.

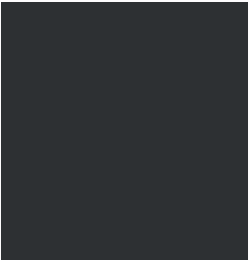


Company **Color Palette**

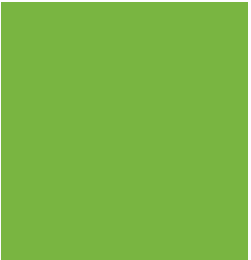
Color Palette that Delivers Nature



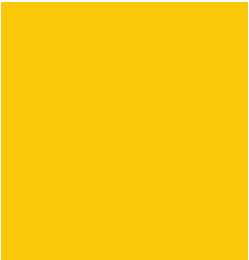
MIMICUS Expedition Color Palette



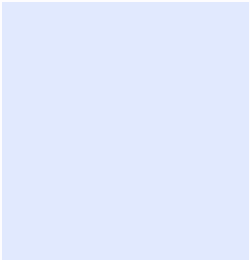
Penguin
Black
2D3033



Frog
Green
7AB542



Ginkgo
Yellow
FBC910



Artic Fox
White
E2E8F5



Hornet
Red
CE5827



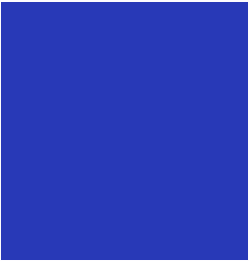
Dino
Blue
1C7BC0



Urchin
Purple
6F396B



Manta
Gray
425762



MIMICUS
Space Blue
2642BA

M I M I C U S

a plethora of green ideas

Ask Us

hello@mimic.us