



CreatiVision

Educating the next generation
Startup company at NUM

Integrating innovation into the production of educational equipment.



Problems



Unclear

Limited usage

Insufficient

Expensive

Production of Natural Science Educational Equipment



This issue is common in **Central Asian** countries such as Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan, and others.



Hot selling high
precision 2D Manual...

**\$499.00 -
\$4,200.00**

Min. order:1.0 set



Hydraulic Servo Tensile
Testing Machine...

**\$199.00 -
\$6,500.00**

Min. order:1.0 set



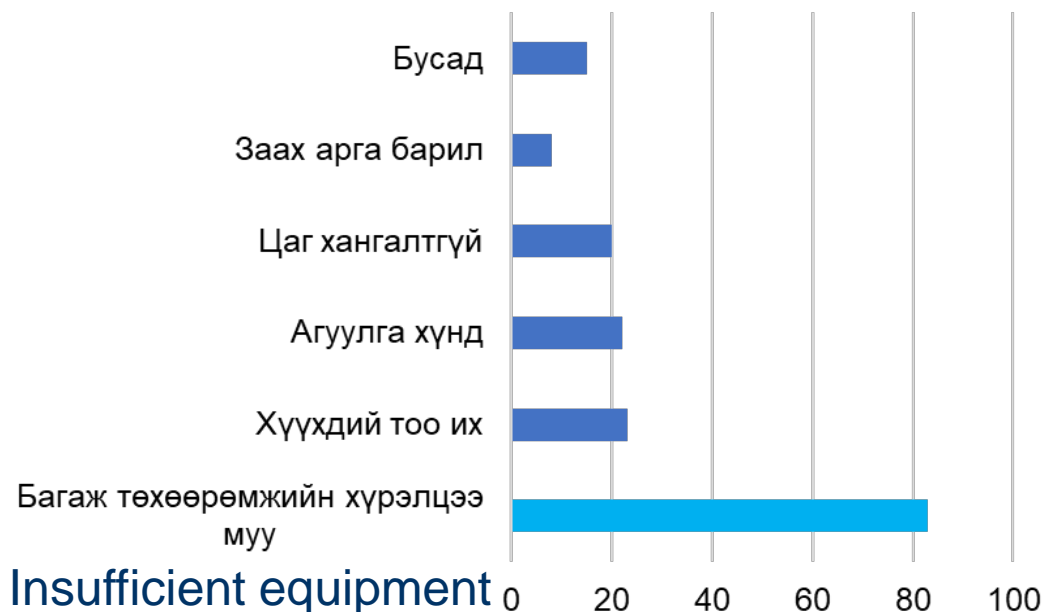
STUDY

Which method of teaching physics is more effective for you?



To conduct a simple experiment

Challenges in teaching physics



Insufficient equipment

"Challenges in Implementing the Core Physics Curriculum in Schools"

Author: N. Chantsaldulam Journal of Education Studies (2022)



بصفتك مسؤول
كلية الهندسة



Unclear



Organize training



Limited usage



**Well-developed
instructions**



Expensive



**Usable for multiple
experiments**



Insufficient



**Mass-produced,
affordable**



Introducing Innovation in the Production of Educational Equipment,
Collaborative use of modern technologies in experiments



МОНГОЛ УЛСЫН
ОЮУНЫ ӨМЧИЙН ГАЗАР

SAMPLE PRODUCT (NUMTEK OPT001)



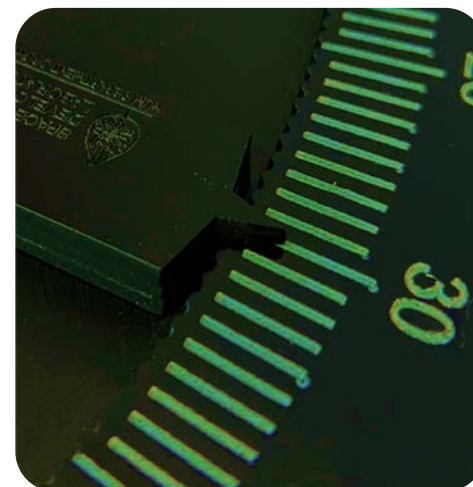
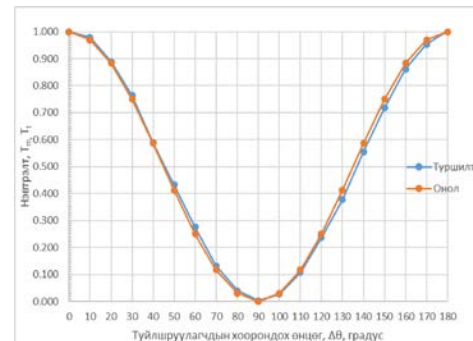
GONIOMETER PLATE FOR OPTICS EXPERIMENTS



The components
were made
domestically



Well-
prepared
instructions



Precision
measurement
accuracy



Certified by
intellectual property

By obtaining an intellectual property certificate, we are officially eligible to become a startup company and enter into agreements with the Ministry of Education and Science and the National University of Mongolia.

PRODUCTS



It receives light reflected from a material or surface and decomposes it into a spectrum..

**Spectrophotometer
(Chemistry, Biology,
Physics)**



It allows various types of equipment to be powered with a DC and enables battery charging.

**Laboratory Bench Power
Supply
(All field)**



It is used in electronics and physics laboratories.

**Electric load
(Physics,
Engineering)**



It is widely applicable in the fields of natural sciences

**Magnetic Stirrer
(Biology, Chemistry)**



A multifunctional optical experimental device.

**NUMTEK OPT01
(Physics)**



Measures radioactivity, determines half-life, and detects radiation sources.

**Nuclear radiation
Detector**



A device that determines the concentration of substances in plant and chemical-biological solutions.

**Photometer
(Biology, Chemistry)**



It is used in electronics and physics laboratories.

**Constant power supply
(Physics, engineering)**



An experimental device for determining the efficiency of solar cells..

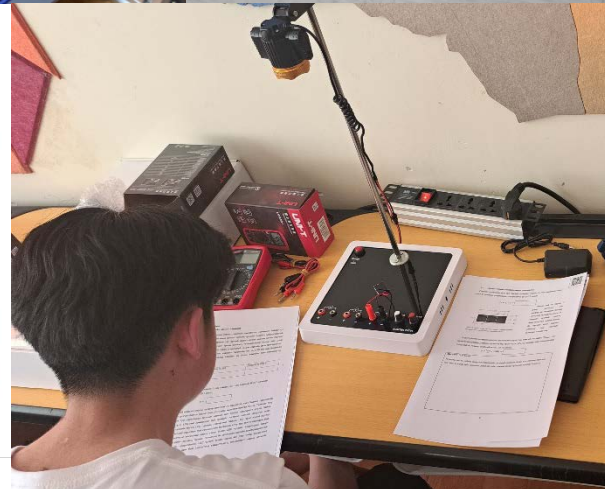
**Solar cell efficiency
set experiment
(Physics)**



МОНГОЛЫН ХАМГААГАХ, ХӨРӨНГӨЛӨН Хөгжүүлэх, Хөгжүүлэх

PRODUCT DEVELOPING

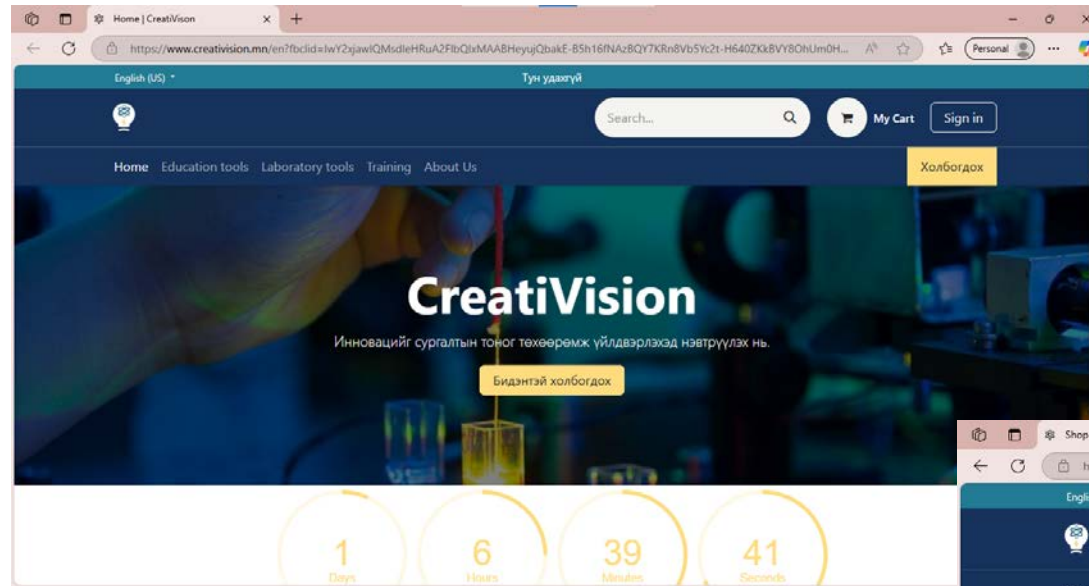
We are actively continuing our activities, including improving our equipment and developing new devices, with the help of grants provided by JICA and other investments .





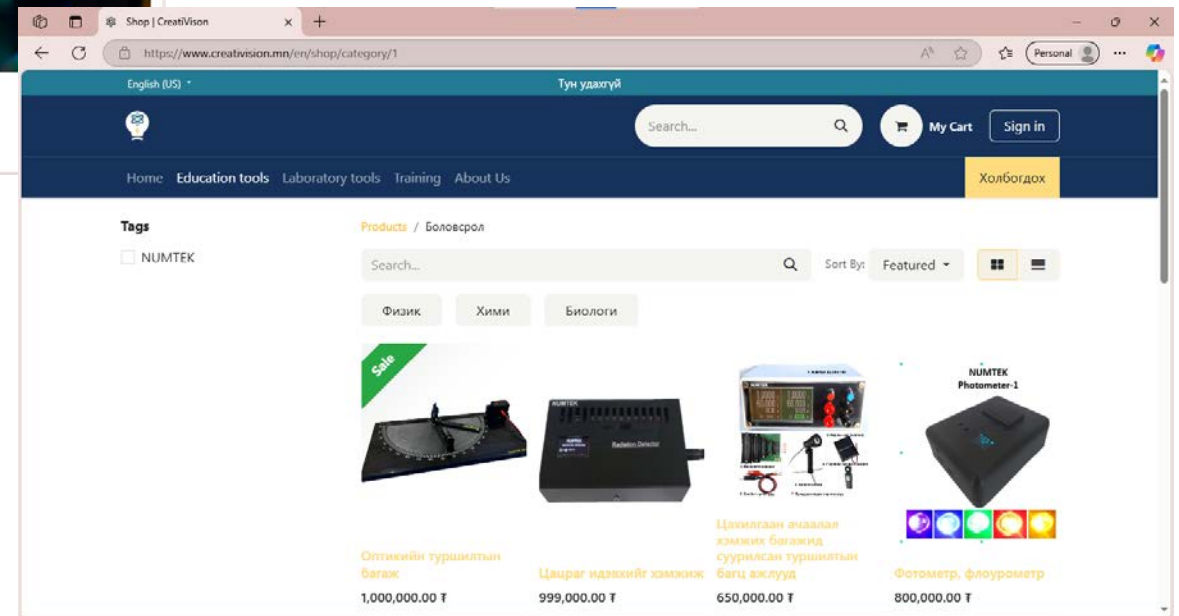
CREATIVISION

WEBSITE DEVELOPING



Through our website, customers will be able to explore our company's equipment and place orders for the devices they need.

We are working on developing our own website with the aim of further expanding and stabilizing our operations.



Team introduction and Collaboration



Улсын
Хурал



Улсын
Хурал



CreatiVision LCC

is responsible for inventing and designing laboratory equipment, sourcing parts from factories, and assembling them.

National University of Mongolia

- Molecular and Cell Biophysics Experimental Lab
- Space Mission Development Lab
- Nano-satellite Development Lab



GER LAB

A workshop called "GER LAB" is being established at NUM, funded by the JICA, MJED.

Bayan Khiits Co., LTD

This company produces various wooden souvenirs and boxes.



NERJ KHIITS LCC

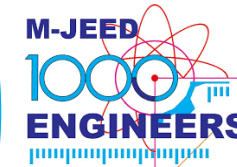
This company manufactures various iron products and has numerous CNC laser machines.

International Collaboration



Creating Tomorrow with Science

KENIS has been the leading company in developing and supplying scientific products for education.



Space Engineering and Applications

- Hokkaido University
- Tohoku University
- Yamaguchi University
- Kyushu Institute of Technology



北海道大学
HOKKAIDO UNIVERSITY

Hokkaido University

- Department of CosmoSciences
- Space Mission Center (SMC)
- Blue Planet Space (BPS)

Project for the
production of natural
science and technology
educational equipment.



Технический университет
Увс



We will import a variety of devices developed by KENIS to Mongolia.



CreatiVision



We will export the products developed in Mongolia to the Japanese market



Win-Win Collaboration: Bridging Mongolia and Japan with Innovation!



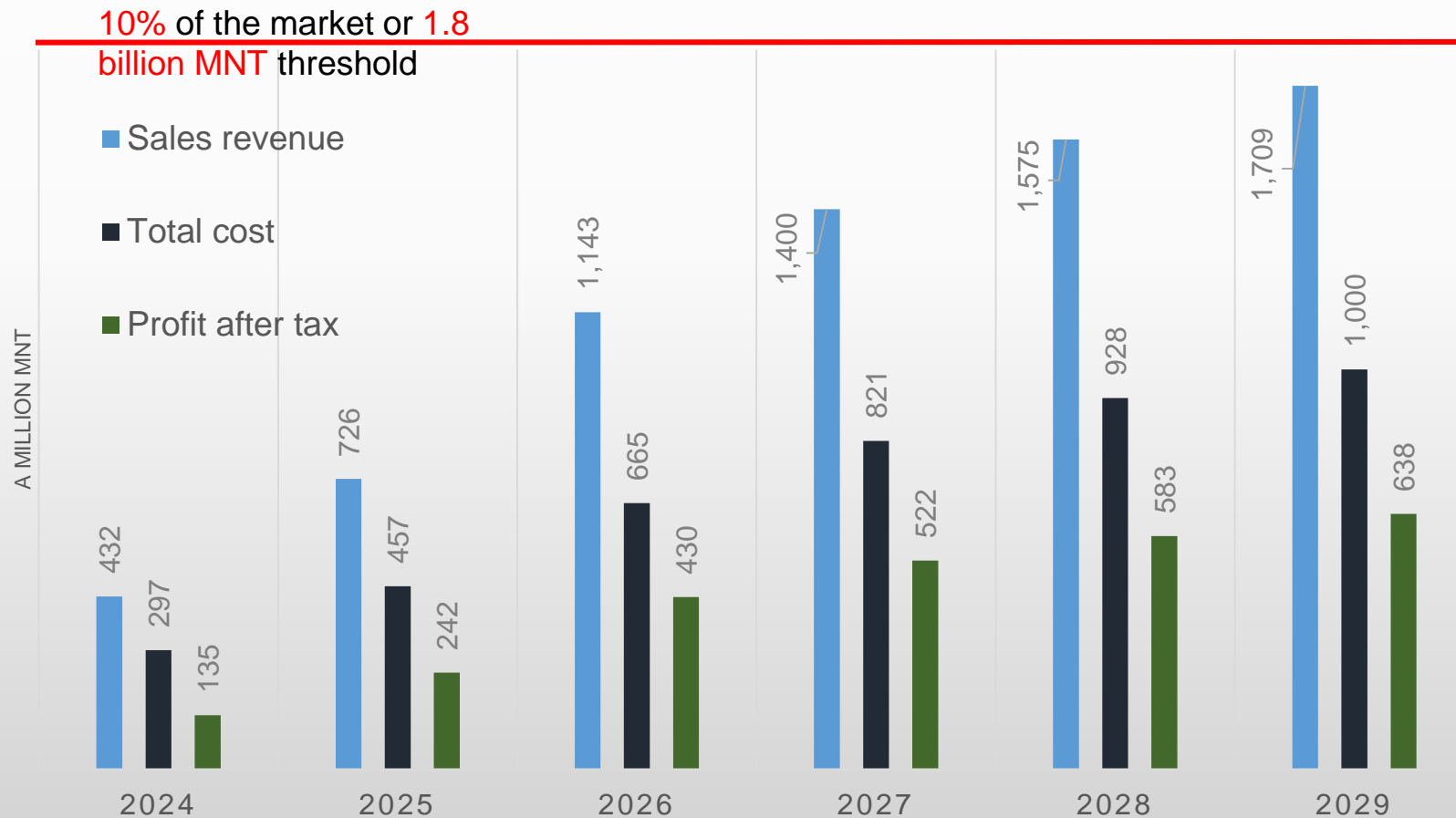
OPPORTUNITIES FROM *KENIS*



- KENIS will provide products to us at a **25%-30% discount from the catalog price**, and they will initially cover the shipping costs. If we sell the products at catalog prices, we will have a margin profit.
- If our products meet **Japanese standards**, they can be sold through the KENIS distribution network.
- **3-4 people can be trained and employed for a period of 3 years.**
- To ensure our sustainability, KENIS will **assign us specific assembly tasks** instead of letting us struggle financially. **Next week, they are sending materials and components for magnetic stirrers.**



- If the plan succeeds and we capture **10%** of the market in five years, our annual net profit is projected to reach **1 billion MNT**.



The financial projections demonstrate that **'CreatiVision'** startup has the potential to **operate sustainably and profitably** in the long term.

Year	KENIS products to be sold in Mongolia (30%)	CreatiVision LL C products in Mongolia (10%)	CreatiVision LLC products in Japan	Total profit billion (₮)	CreatiVision LLC profit (30%) billion (₮)
2025	2.5B ₮	500M ₮	133 M ₮	3.1	0.93
2026	5B ₮	1B ₮	267 M ₮	6.3	1.89
2027	7.5B ₮	1.8B ₮	533 M ₮	9.8	2.94
2028	9B ₮	2.5 B ₮	933 M ₮	12.4	3.72
2029	11B ₮	3 B ₮	1.33 B ₮	15.3	4.59 B ₮

Market Analysis

- Mongolia's annual educational laboratory equipment demand: **20+ billion MNT**.
- Japan's global market share is **~67 trillion MNT**, with high technological standards.

Revenue Projections (2024-2029)

- Expected total revenue: **15.3 trillion MNT**.
- Profit estimate for 2029: **4.59 trillion MNT**.

Strategy & Implementation

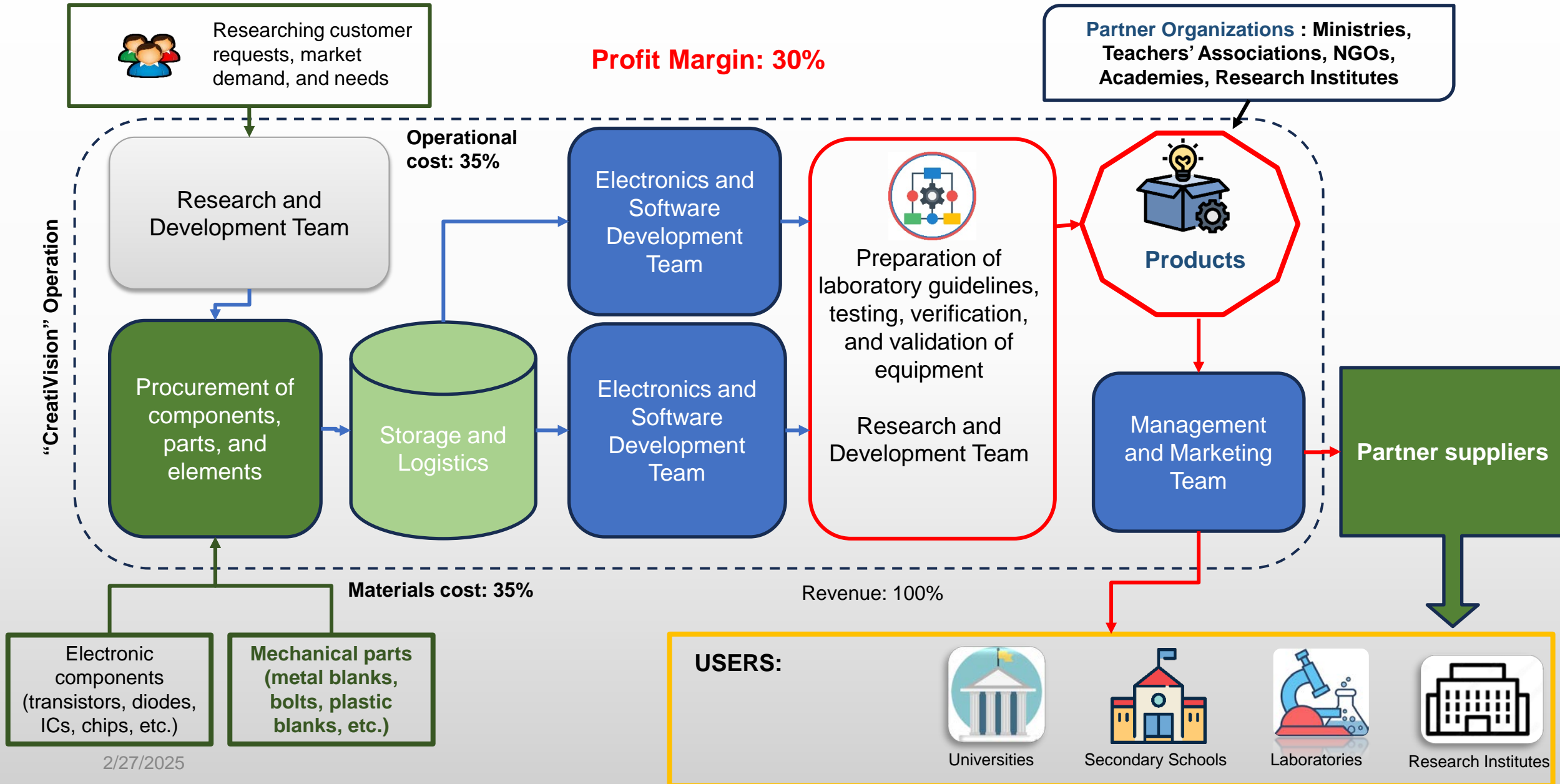
- **Mongolia:** Target schools, research institutions, and build long-term partnerships.
- **Japan:** Ensure compliance with Japanese standards and expand marketing.

Risks & Solutions

- **Budget constraints:** Seek funding from local and international institutions.
- **Market entry challenges in Japan:** Strengthen local sales partnerships.
- **Logistics issues:** Collaborate with major couriers like FEDEX.
- **Maintenance services:** Develop local repair facilities.
- **Conclusion**
- By 2028, the company aims to hold **10% of Mongolia's market**.
- Sustainable **growth in Japanese exports** is planned.
- The business has high potential for expansion and strategic partnerships.

Business Summary

- "CreatiVision" plans to enter Mongolia's educational laboratory equipment market.
- Partners with KENIS Ltd. to produce and export to Japan.
- Focus on supplying high schools, universities, and research labs.





CreatiVision Activities

Over **100 products** have been sold and supplied to the Mongolian market.



- 7.3 Гэрээний нэмэлт, өөрчлөлт нь зөвхөн бичгээр хийгдэж талууд гарын үсэг зурсанаар хүчин төгөлдөр болно.
- 7.4 Учруулсан хохирлыг арилгахтай холбогдсон асуудлаар 2 тал харилцан тохиролцож хууль, тогтоомжид заасан үндэслэлээр гэрээг хугацаанаас нь өмнө цуцалж болно.
- 7.5 Лабораторийн төхөөрөмжийн танилцуулга, техникийн үзүүлэлт бүхий танилцуулга материалыг гэрээтэй хавсаргана.

ГЭРЭЭ БАЙГУУЛСАН:

ЗАХИАЛАГЧИЙГ ТӨЛӨӨЛЖ:
МУИС-ийн харъяа байгаль-эх
пин и ажлаах сургууль
ЭКОЛОГИЙН БОЛОВСРОЛЫН
ТӨВРИЙН ЗАХИРАЛ
П.ТҮВШИНТӨР

ГҮЙЦЭТГЭГЧИЙГ ТӨЛӨӨЛЖ:
МУИС, ШУС, БУС, ФИЗИКИЙН
ТЭНХИМИЙН ЛАБОРАНТ
М.АЛТАНСҮХ

Хаяг: Монгол улс, Улаанбаатар хот,
Сүхбаатар дүүрэг, МУИС хичээлийн 1-р
байр 4 давхар 401 тоот, Утас: 75754400-
2443



ГЭРЭЭ БАЙГУУЛСАН:

ЗАХИАЛАГЧИЙГ ТӨЛӨӨЛЖ:
ФИЗИКИЙН БАДЛАГАРЫН ХОЛБОО
ТӨВРИЙН ЗАХИРАЛ
М.ОТГОНБААТАР

ГҮЙЦЭТГЭГЧИЙГ ТӨЛӨӨЛЖ:
МУИС, CREATIVISION STARTAP
КОМПАНИ ҮҮСГЭН БАЙГУУЛАГЧ
Т.БЭГЗСҮРЭН

Хаяг: Монгол улс, Улаанбаатар хот,
Баянгол дүүрэг, 8-р хороо, 6-р байр 21
тоот, Утас: 96862002

Хаяг: Монгол улс, Улаанбаатар хот,
Сүхбаатар дүүрэг, МУИС хичээлийн 1-р
байр 4 давхар 400 тоот, Утас: 99772782



- 7.4 Учруулсан хохирлыг арилгахтай холбогдсон асуудлаар 2 тал харилцан тохиролцож хууль, тогтоомжид заасан үндэслэлээр гэрээг хугацаанаас нь өмнө цуцалж болно.
- 7.5 Лабораторийн ажлын танилцуулга, техникийн үзүүлэлт бүхий танилцуулга материалыг гэрээтэй хавсаргана.

ГЭРЭЭ БАЙГУУЛСАН:

ЗАХИАЛАГЧИЙГ ТӨЛӨӨЛЖ:
"СПЭЙС МОДЕРН ЭДҮКЭЙШН" ХХК
ГҮЙЦЭТГЭХ ЗАХИРАЛ
Д.ХОС-ЭРДЭНЭ

ГҮЙЦЭТГЭГЧИЙГ ТӨЛӨӨЛЖ:
МУИС, ШУС, БУС, ФИЗИКИЙН
ТЭНХИМИЙН ЛАБОРАНТ
М.АЛТАНСҮХ

Хаяг: Монгол улс, Улаанбаатар хот,
Сүхбаатар дүүрэг, Мэдээлэл технологийн
үндэсний парк 114 тоот, Утас: 89902773

Хаяг: Монгол улс, Улаанбаатар хот,
Сүхбаатар дүүрэг, МУИС хичээлийн 1-р
байр 401 тоот, Утас: 75754400-2443



Regular training sessions are organized for **teachers**.



МОНГОЛЫН ХАМГААГАХ, СУРГАЛТЫН ХАМГААГАХ ХАМГААГАХ ХАМГААГАХ



CREATIVISION

Startup company at NUM



- Our project will make education **more accessible and improve learning quality** by providing innovative, reasonable priced educational equipment.
- We enhance hands-on learning in schools with cost-effective tools that improve engagement.
- We involve the community with workshops, school partnerships, and interactive programs to make science education more **interesting and effective**.
- Also, by obtaining a start-up certificate, you will be **exempt from customs and value-added tax** according to the law.

ЖАГСААЛТ БАТЛАХ ТУХАЙ (Гаалийн татвар болон НӨАТ-аас чөлөөлөх)

The market has been thoroughly researched and is supported by a **team of professionals**.



Product development has been successfully completed, with **proven experience** in the market



Intellectual property rights have been obtained for the products, and there are plans to secure similar rights for all future products.



Collaboration in technology, partnerships, and the preparation of human resources has been set as a **priority**.



With **government support**, it is possible to expand operations and ensure sustainability.



Conclusion



Necessary support



Capacity building and training



Technology



Collaboration



Finance and investment



If we receive a grant, we will allocate it towards product development.



Thank you to the JICA team for giving us the opportunity to participate in the MICS program. During this time, we have gained new knowledge and experience, and have made future business partners. We look forward to working together in the future.



THANK YOU FOR THE OPPORTUNITY



Let's work together to shape the future of science and education



Thank you for your attention

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Cell phone: +976 99772782