

Velsanet Research Institute

Operating model and fund management structure

— *Designing a participatory, all-in-one research ecosystem* —

Saemangeum Special Zone · 2026

1. All-in-One Research Package

The Velsanet Institute provides a fully integrated environment where researchers from around the world can reside, conduct research, interact, and exhibit their work all in one place. Its core design ensures that researchers are free from any burdens outside of their research.

1-1. Living Infrastructure - Housing and Dining

To ensure researchers can stay long-term and focus solely on their research, we offer a basic package that includes apartments and three meals per day. For international researchers in particular, the relief from housing and meal expenses is a powerful incentive to participate.

□ Housing and Meal Details

- ✓ Apartment provided — Exclusive residential space for domestic and international researchers (available for both short-term and long-term stays)
- ✓ 3 meals a day provided — a dining environment where you can focus solely on your studies
- ✓ Shared lounge and amenities — Promotes informal interaction among researchers
- ✓ Guest room for visiting researchers — Accommodates short-term visiting professors and partner companies

1-2. Research Infrastructure - Experimental and Seminar Spaces

This is a space where next-generation network technologies are implemented and verified. Beyond a simple laboratory, it serves as a platform for ongoing international academic exchange and standardization discussions.

□ Details of research and seminar space provided

- ✓ Dedicated research space — Next-generation network (Velsanet) experimentation and implementation infrastructure
- ✓ Seminar/Conference Hall — A dedicated stage for international academic and technical exchanges

✓ Workshop Rooms — Space for small, focused discussions and collaborative research collaboration
✓ Network Verification Testbed — Actual implementation and demonstration environment in Saemangeum
✓ ITU-T / IMT-2030 standardization meeting response infrastructure

1-3. Performance Exhibition Space — Materials and Components Tech Showroom

This is the institute's most unique element. It permanently exhibits materials and components resulting from each research project, serving as a bridge between companies, government agencies, and investors for technology transfer and commercialization. It's not just a simple exhibition; it's a venue for technology exchange.

□ Direction of operation of materials and components exhibition space
✓ Permanent exhibition of research results — Display of materials and component prototypes and prototypes from each research team
✓ Tech Showroom feature — Technology explanations and demonstrations for visiting companies and investors
✓ Technology transfer consultation space — Licensing and contract negotiations based on exhibition results
✓ Country-specific section operation — Visualize contributions to sovereignty by displaying research results from participating countries by country.
✓ Global Enterprise Partner Section — Display of Velsanet-based applications from partner companies

2. Virtuous cycle of participation structure and fund management

The Velsanet Institute's funding does not depend on a single sponsor or government subsidy. True to its open participation philosophy of "the structure grows as contributions grow," the number and depth of participants directly determine its financial foundation.

2-1. Contribution method by participating entity

Participating entities	Benefits provided by the institute	Contribution method	Funds recirculation channel
Governments of each country	Participation in the sovereign layer, exhibition of the national section	National participation fee, policy cooperation	Standardization consignment/government R&D
global companies	Research space, technology verification, and exhibition sections	Corporate membership, technology transfer agreement	Commercialization royalties and contract fees
universities and research institutes	3 meals per night, seminars, and joint research	Personnel dispatch, joint projects	Obtaining papers, patents, and assignments
international organizations	ITU-T standardization support infrastructure	Linking standardization activities	Standardization consignment and technology consulting fees

2-2. Revenue Structure — Costs vs. Revenue Streams

division	detail
Major cost items	Apartment operating expenses / restaurant operating expenses / research infrastructure maintenance / seminar operation / exhibition space management
Source of income ①	Participating Institution Membership — Annual participation fee for government, corporations, and universities
Source of income ②	Technology Transfer and Licensing - Exhibition Results-Based Agreements
Source of income ③	Standardization Entrustment — ITU-T, IMT-2030-related research entrusted
Source of income ④	Profits from hosting seminars and conferences — Hosting international events
Source of income ⑤	Joint R&D project contracts - domestic and international government and agency projects

3. Virtuous Cycle Structure — Participation → Performance → Reinvestment

The core principle of the institute's operation is a virtuous cycle: as participation increases, research results accumulate, and as these results are made visible through exhibition spaces, more participants are attracted, which in turn flows back into funding.

□ Virtuous cycle structure flow
[Step 1] Attracting participants - Providing apartments, three meals, and research space → Deciding on participation of domestic and international researchers and institutions.
[Step 2] Accumulating research results - Production of materials, components, and technology results → Patents, papers, and prototypes
[Step 3] Visualizing the Exhibition Space — Tech Showroom Exhibition → Increased Visits from Companies, Investors, and Governments
[Step 4] Technology Transfer/Commercialization — Contracts/Licenses/Joint Development → Revenue Generation
[Step 5] Reinvestment → Strengthening research infrastructure → Return to [Step 1]

Ultimately, the Velsanet Institute's funding depends on the level of participation, and the level of the package it provides (housing, meals, research, and exhibitions) directly influences participation. The more it offers to participants, the more participants it attracts, resulting in greater results and profits.

4. Operational Goal Indicators (First 3 Years)

characteristic	target
Resident Researcher	20 people in the first year → 100 or more people in the third year
Participating organizations	5 governments, 10 companies, and 15 universities (within 3 years)
Exhibition achievements	More than 30 materials and parts exhibited by the third year
Technology transfer agreement	Target of 5 or more cases per year from the second year
International Seminar	Hosting international academic and technical events at least four times a year

A shared platform where the structure grows as contributions are made.

The Velsanet Research Institute is not the property of any specific entity. It is an infrastructure created by humanity together.