ADSRC
AI DATA AND SECURITY RESEARCH CENTER

KETI 한국전자기술연구원
Korea Electronics Technology Institute

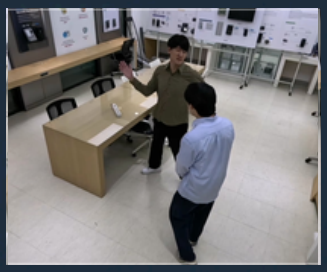
AI Research Division, Korea Electronics Technology Institute (KETI)

AI Data and Security Research Center

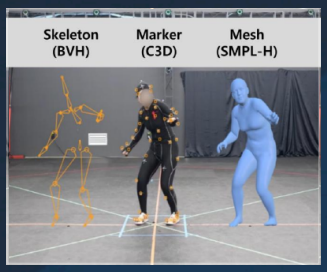
ADSRC

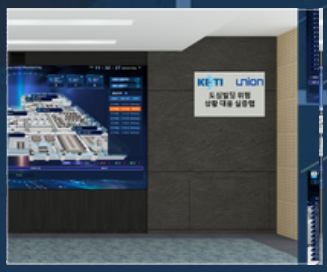
> Building safe and secure AI,
> from components to systems

AI Safety | Physical Security | Multimodal Data | Content









Design Tomorrow
Lead Technology

www.datasec.work | adsrc@keti.re.kr

About us

The AI Data and Security Research Center protects the data and models AI depends on, and the places where AI operates. We build the full stack, from data to training, serving and edge deployment, across government R&D, industry and international projects.

AI safety and security for models and learned know-how	Public safety AI fusing video, sound and sensors	Interlinking diverse data and managing its quality

13	~20	21	6.42B	8	6
Faculty members	Contract staff	Projects	Budget (KRW)	Projects we lead	Tech transfers

Research areas

1 AI Safety

Protecting and verifying AI

- TEE inference, watermarking
- AI-BOM based verification
- Security for physical AI (robots)

2 Physical Security

Sensing on-site risks

- Video, sound and sensor fusion
- Lightweight edge AI
- Crowd anomaly response

3 Multimodal Data

Interlinking diverse data

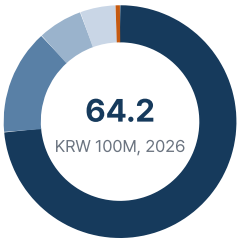
- Multimodal RAG quality
- Data drift management
- Defense data fusion and sharing

4 Content

Humans, sound and space

- Human foundation models
- 3D reconstruction in low visibility
- Spatial audio, sensory sharing

2026 budget by funder (KRW 100M)



MSIT	47.2	74%
MoTIR	9.4	15%
MOF	4.0	6%
MCST	3.2	5%
Private	0.4	1%

KETI share only, excluding consortium partners

History

- **1995~** Media standards: MPEG, TV-Anytime
- **2010s** Personalized media, media analytics
- **2020s** AI data analytics, edge AI, AI-CCTV
- **2026~** Reorganized as ADSRC

Standards and Global Collaboration

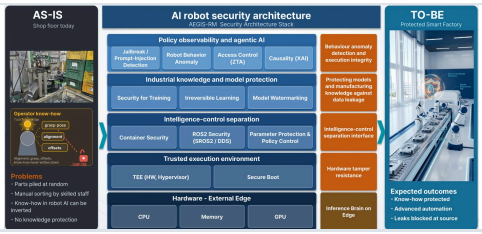
Standards

- MPEG
- ISO/IEC JTC 1/SC 42
- TTA multimodal data standard

International joint research

- Horizon 2020 DECENTER (EU)
- KRESIP ALARAD (Spain)
- DELTA 2 VIBES (Czechia)

Selected projects



AEGIS-RM

Protecting factory robot AI

MoTIR, 2026 to 2029, lead

Four layers of defense protect robot AI and manufacturing know-how, validated on a production press line



Multimodal security

Fusing video, sound and sensors

MSIT, 2024 to 2027, lead

Detects 15 types of risk in buildings, construction and industrial sites, from server to edge

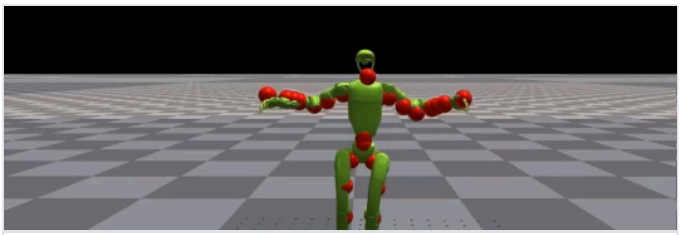


3D in low visibility

Multi-sensor 3D reconstruction

MSIT, 2026 to 2028, lead

Fuses surface, underwater and aerial sensors and visualizes 3D space in real time



Human foundation models

How people look, intend and act

MSIT, 2025 to 2028, lead

Understands people from motion, face and 3D data and reproduces them in robots and avatars

What we offer

Joint R&D

- Government R&D consortia
- Field validation with users
- International joint research

Tech transfer, contracts

- Video security, multimodal analytics
- Contract research, technical advice

Standards

- ISO/IEC JTC1 SC42, MPEG
- AI safety and security items

Open to collaboration

We welcome research collaboration of every kind and scale, from joint R&D and technology transfer to standards and researcher exchange. Bring us a problem worth solving together.

Contact

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