Xylolabs

Physical AI-based predictive maintenance that turns reactive port and industrial equipment care into real-time, on-device intelligence

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Team

Gwangseok AN | Co-Founder & CEO

- Focusing on Acoustic Signal Processing & Physical AI
- Former Head of Corporate R&D, Perigee Aerospace Inc.
- Led the development of electronic control hardware and satellite subsystems
- Ph.D., Convergence Science and Technology, Seoul National University (SNU)

Jiyong YOON | Co-Founder & CTO

- Former Machine Learning Platform Engineer, Inc. MaumAI
- Former Software Engineer, Inc. Sendbird Korea
- Ph.D. Candidate, Electrical and Computer Engineering, SNU

Soohwan KIM | Co-Founder & CFO

- Former CSO, Inc. Lion Robotics
- Former CFO, Perigee Aerospace Inc.
- KOSDAQ Technology Listing Examiner, Korea Exchange (KRX)
- B.A. Economics, SNU



Problem

- Port and industrial equipments operate continuously in harsh conditions; failures can trigger logistics disruption and safety incidents
- Existing maintenance is reactive, not preventive/predictive, and inspection windows are limited by continuous operations

Solution

- On-device Physical AI analyzes programmable logic controller (PLC) and acoustic signals for predictive maintenance at the edge
- Real-time monitoring via a digital-twin interface, paired with LLM-based decision support for field operators

Key Features

- On-device AI anomaly detection from PLC and acoustic/state signals, no cloud dependency required
- Real-time digital-twin monitoring interface for equipment condition
- Compact edge hardware roadmap: Xylo-Zero, Xylo-Mini, Xylo-One, Xylo Solution

Business Model

- Working with port authorities in Korea offering total customized solution and expand further into heavy industries and plants
- Deploy Xylo-Mini and Xylo-One based on the Xylo-Solution platform

Business Snapshot

- Seed investment KRW 400M (USD 280K), post-money valuation at KRW 4.9B (USD 3.4M) in 2026
- Public and industrial projects utilizing physical AI technologies: Min. of Science and ICT, Nat. Inst. of Forest Science, LG CNS
- PoCs in Korea: Busan Port Authority (Mar–Jun 2026); SK Shipping (Apr–Jul 2026); KIMST's Smart Port Initiative (2026)
- Global PoC currently in discussion with manufacturing companies in Japan and Indonesia
- 2026 targets: 10+ PoCs across ports and marine sectors, KRW 1B (USD 685K) in major-customer revenue

Target Audience

- Ports, shipping companies, power plants, and manufacturing/ industrial plant operators

Seeking Opportunities

- **PoC and pilot partners in ports, shipping, power generation, and manufacturing**