SMART AIR FILTER SOLUTION BASED ON AI FOR BUILDING ENERGY SAVING

- NAOM Inc.
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NAOM INC. – OUTDOOR AIR PROCESSING SPECIALISTS!

NAOM Inc. – fine particle ESG solution provider

- 2024: Commercialization of DEMC high-efficiency filters/ IoT platforms for HVAC systems
- 2023: Selected as a procurement innovation product for outdoor air purification equipment
- 2022: Development of a smart fine dust management system for subways
- **2017:** Spin-off startup from a government-funded research institute (KRRI)

Key Products

- DEMC filters: patented air filter for HVAC
- IoT devices: filter condition monitoring
- Al Platform: SaaS, Al management system
- NAOM TUBE: stand-alone outdoor air purifier



COLLABORATION: AREAS OF INTEREST

Background

- The need to reduce building energy consumption to decrease greenhouse gas emissions
- Approximately 50% of a building's energy is used for heating, cooling, and ventilation systems
- Cost savings through enhanced air filter performance and smart management

Areas of Interests

- Localization of the smart air filter solution for entry into the <u>European market</u>
- Expansion of management services through <u>extended IoT functionalities</u>
- Development of a business model for global market entry

COLLABORATION: PERFORMANCE IMPROVEMENT + SERVICE LOCALIZATION → NEW MARKET ENTRY



∷ DEMC

3D depth filtration

Filters replaced on a fixed

schedule rather than based





Due to manual management of individual components and a lack of integration, unified operation is unachievable, leading to challenges in cost reduction.





Integrating organically connected individual components into an "Outdoor Air Processing Solution" achieving cost reduction.

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